

**T.C.
REPUBLIC OF TURKEY
HACETTEPE UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES**

**CALCULATION OF CHOROIDAL VASCULARITY INDEX AND
TISSUE DISTRIBUTION INDEXES BY DIGITAL PROCESSING
OF RETINAL AND CHOROIDAL IMAGES OBTAINED VIA
OPTICAL COHERENCE TOMOGRAPHY**

ONUR İNAM, MD.

**Program of Biophysics
PHILOSOPHY OF DOCTORAL (Ph.D.) THESIS**

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YAYIMLAMA VE FİKRİ MÜLKİYET HAKLARI BEYANI

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Yükseköğretim Kurulu tarafından yayınlanan **“Lisansüstü Tezlerin Elektronik Ortamda Toplanması, Düzenlenmesi ve Erişime Açılmasına İlişkin Yönerge”** kapsamında tezim aşağıda belirtilen koşullar haricince YÖK Ulusal Tez Merkezi / H.Ü. Kütüphaneleri Açık Erişim Sisteminde erişime açılır.

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16/08/2018


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¹“Lisansüstü Tezlerin Elektronik Ortamda Toplanması, Düzenlenmesi ve Erişime Açılmasına İlişkin Yönerge”

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ETHICAL DECLARATION

In this thesis study, I declare that all the information and documents have been obtained in the base of the academic rules and all audio-visual and written information and results have been presented according to the rules of scientific ethics. I did not do any distortion in data set. In case of using other works, related studies have been fully cited in accordance with the scientific standards. I also declare that my thesis study is original except cited references. It was produced by myself in consultation with supervisor Assoc. Prof. Dr. A. Ruhi Soylu and written according to the rules of thesis writing of Hacettepe University Institute of Health Sciences .



Onur İnam

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ABSTRACT

İnam, O., Calculation of Choroidal Vascularity Index and Tissue Distribution Indexes by Digital Processing of Retinal and Choroidal Images Obtained Via Optical Coherence Tomography, Hacettepe University Graduate School of Health Sciences, Department of Biophysics Doctor of Philosophy Thesis, Ankara, 2018. Optical coherence tomography is, also called as an optical biopsy, is a valuable tool, and used in many clinical and research areas, including the leading area of ophthalmology. 50 randomly chosen healthy cases, 25 females and 25 males, were included in the present study. 100 eyes of 50 patients were examined. Totally 400 structures were analyzed with vertical and horizontal scans of retinal and choroidal structures. The greater region of interest with a radius of 6500 μm centered to foveal region, was divided into 100 μm intervals. The 65 smaller region is further subdivided into 3 parts, as a result of 195 smaller regions were assigned. Retina and choroid were analyzed for the spot thickness, mean thickness, rectangular fill index, total retinal / choroidal area, dark retinal area / luminal choroidal area, light retinal area / stromal choroidal area, dark area percent / choroidal vascularity index, light area percent / stromal area percent, dark to light ratio / luminal to stromal ratio, mean, standard deviation, skewness, kurtosis, perimeter, width, height, major, minor, angle, integrated density, raw integrated density, feret, minimum feret, feret angle, circularity, aspect ratio, roundness, solidity, mean and spot retinal to choroidal thickness ratio, mean and spot choroidal to retinal thickness ratio parameters. A semi-automatic program, RET-INAM was coded in Fiji / ImageJ program by the research team and used to obtain the results. In conclusion, it is possible to propose several parameters as some novel diagnostic and evaluative indicators simply extracted by image processing of optical coherence tomography scans.

Keywords: Choroidal Vascularity Index, Tissue Distribution Indexes, Choroid, Retina, Optical Coherence Tomography, Digital Image Processing

ÖZET

İnam, O., Optik Koherens Tomografi İle Çekilen Retina ve Koroid Görüntülerinin Sayısal Metodlarla İşlenerek Koroid Vaskülarite ve Doku Dağılım İndekslerinin Hesaplanması. Hacettepe Üniversitesi Sağlık Bilimleri Enstitüsü Biyofizik Programı Doktora Tezi, Ankara, 2018. Optik koherens tomografi, optik biyopsi olarak da adlandırılan ve önde gelen oftalmoloji alanı da dahil olmak üzere birçok klinik ve araştırma alanında kullanılan değerli bir araçtır. Bu çalışmaya 25 kadın ve 25 erkek olmak üzere toplam 50 rastgele seçilmiş sağlıklı olgu dahil edildi. 50 hastanın 100 gözü alındı. Retinal ve koroidal yapıların dikey ve yatay taramaları dahil olmak üzere toplam 400 yapı analiz edildi. 6500 µm foveal merkezli ilgilenen büyük 100 mikron aralıklarla bölünmüştür. Bu 65 küçük bölge, 3 bölgeye daha ayrılmış ve sonuç olarak 195 daha küçük bölge elde edilmiştir. Yapılar noktasal kalınlık, ortalama kalınlık, dikdörtgen dolgu indeksi, total retinal / koroidal alan, koyu retinal alan / luminal koroidal alan, açık retinal alan / stromal koroidal alan, karanlık alan yüzdesi / koroidal vaskülarite indeksi, açık alan yüzdesi / stromal alan yüzdesi, karanlık açık oranı / lüminal stromal oran, ortalama, standart sapma, çarpıklık, basıklık, çevre, genişlik, yükseklik, majör, minör, açı, tümleşik yoğunluk, ham tümleşik yoğunluk, feret, minimum feret, feret açısı, dairesellik , boy oranı, yuvarlaklık, solidite, noktasal ve ortalama retinal koroidal kalınlık oranı, noktasal ve ortalama koroidal retinal kalınlık oranı parametreleri için analiz edildi. Yarı otomatik bir program olan RET-INAM, araştırma ekibi tarafından Fiji / ImageJ programında kodlanmış ve sonuçları elde etmek için kullanılmıştır. Sonuç olarak, optik koherens tomografi taramalarında görüntü işlemenin sonucu otaya çıkan birçok parametrenin yeni bir teşhis ve değerlendirme aracı olarak kullanılması mümkündür.

Anahtar Kelimeler: Koroid Vaskülarite İndeksi, Doku Dağılım İndeksleri, Koroid, Retina, Optik Koherens Tomografi, Sayısal Görüntü İşleme

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9. CURRICULUM VITAE



ABBREVIATIONS

AMD	: Age Related Macular Degeneration
AO	: Adaptive Optics
AOFVD	: Adult Onset Foveomacular Vitelliform Dystrophy
AS-OCT	: Anterior Segment Optical Coherence Tomography
CD-OCT	: Color Doppler Optical Coherence Tomography
CME	: Cystoid Macular Edema
CMM	: Choroidal Malignant Melanoma
CNV	: Choroidal Neovascularization
CRA	: Central Retinal Artery
CSCR	: Central Serous Chorioretinopathy
CVI	: Choroidal Vascularity Index
DAP	: Dark Area Percent
DED	: Dry Eye Disease
DLR	: Dark to Light Ratio
DME	: Diabetic Macular Edema
DRA	: Dark Retinal Area
EDI-OCT	: Enhanced Depth Imaging Optical Coherence Tomography
ELM	: External Limiting Membrane
ERM	: Epiretinal Membrane
GABA	: γ -aminobutyric acid
GCL	: Ganglion Cell Layer
HL	: Haller's Layer
ICN	: Intrinsic Choroidal Neurons
ILM	: Internal Limiting Membrane
INL	: Inner Nuclear Layer
IOP	: Intraocular Pressure
IPL	: Inner Plexiform Layer
IR	: Infrared
IS/OS	: Inner and Outer Segments of Photoreceptor Layer
IV-OCT	: Intravascular Optical Coherence Tomography

IVUS	: Intravascular Ultrasound
JPEG	: Joint Photographic Experts Group
LAP	: Light Area Percent
LCA	: Luminal Choroidal Area
LCI	: Low Coherence Interferometry
LRA	: Light Retinal Area
LSR	: Luminal Stromal Ratio
m	: Meter
MC-OCT	: Molecular Contrast Optical Coherence Tomography
mRCTR	: Mean Retina to Choroid Thickness Ratio
NFL	: Nerve Fiber Layer
NIR	: Near Infrared
NO	: Nitric Oxide
OCT	: Optical Coherence Tomography
ONL	: Outer Nuclear Layer
OPL	: Outer Plexiform Layer
PCV	: Polypoidal Choroidal Vasculopathy
PDT	: Photodynamic Therapy
PED	: Pigment Epithelial Detachment
PhS-OCT	: Phase Sensitive Optical Coherence Tomography
PR	: Photoreceptor
PRP	: Panretinal Photocoagulation
PS-OCT	: Phase Sensitive Optical Coherence Tomography
PV	: Pixel Value
PVD	: Posterior Vitreous Detachment
RB	: Retinoblastoma
RBC	: Red Blood Cell
RD	: Retinal Detachment
RFI	: Rectangular Fill Index
RGB	: Red-Green-Blue
RNFL	: Retinal Nerve Fiber Layer
ROI	: Region of Interest

RP	: Retinitis Pigmentosa
RPE	: Retinal Pigment Epithelium
s	: Second
SAP	: Stromal Area Percent
SCA	: Stromal Choroidal Area
SD-OCT	: Spectral Domain Optical Coherence Tomography
SH-OCT	: Second Harmonic Optical Coherence Tomography
SL	: Sattler's Layer
SLO	: Scanning Laser Ophthalmoscope
SNR	: Signal to Noise Ratio
Sp-OCT	: Spectroscopic Optical Coherence Tomography
sRCTR	: Spot Retina to Choroid Thickness Ratio
TCA	: Total Choroidal Area
TD-OCT	: Time Domain Optical Coherence Tomography
TMSC	: Tubercular Multifocal Serpiginoid Choroiditis
TRA	: Total Retinal Area
UBM	: Ultrasonic Biomicroscopy
UHR-OCT	: Ultrahigh Resolution Optical Coherence Tomography
VKH	: Vogt-Koyanagi-Harada
VMT	: Vitreomacular Traction

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1. INTRODUCTION AND AIM

The retina, the light sensing tissue, is mainly consisted of visual sensory neurons (1). It has many individual layers and functions as a huge wired network (1-3). Thus retinal anatomy, both in micro and macro scales, must have a key role in visual function. Vascular structure is an essential feature of retinal anatomy and function. Thus, the choroid is equally important as the retina in a healthy vision system.

The primary function of choroidal tissue is to supply blood to the outer retinal layers (1, 4). Further, it regulates the temperature, position of the retina, secretion of growth factors (4). Additionally, it has a role in emmetropization process (4). The choroidal tissue is a *sine qua non* by having these indispensable features for the retina.

Optical coherence tomography (OCT) is a unique noninvasive and time-saving method in daily practice in ophthalmology to determine retinal and choroidal structures, nearly at histologic resolution (5). Upon the invention of new OCT modalities, specifically Spectral Domain OCT (SD-OCT), it has become rather/relatively easy to investigate choroidal parameters (5). Furthermore introduction of Enhanced Depth Imaging (EDI-OCT) modality, choroid was no longer a structure hidden under the retina (5). Alongside those promising inventions, researchers found new indexes that could be applied to the images taken by OCT. Such as choroidal vascularity index (CVI) which was firstly described nearly 2 years ago by Agrawal et al. after the binarization techniques allowed the quantification of luminal and stromal areas (6-8).

The aim of the present study is to develop some novel retinal and choroidal indexes with lower user bias effect to be used for clinical purposes. to find the topographical distribution of previously found and newly found indexes in the retinal and choroidal tissues and to automatize all these processes of measurement of length and indexes of the retina and choroid thus reducing the bias caused by researcher.

2. GENERAL INFORMATION

2.1. RETINA

2.1.1. RETINAL MACROSCOPIC ANATOMY

The retina is a thin light sensing tissue of the eye which comprises visual sensory neurons (1, 9). The optic disc, located in the center, is the radiation of axons of the ganglion cells (1, 3) (Figure 2.1.C). The optic disc is circular or oval in shape with a radius of 1500-2000 μm (3). From optic nerve major vessels of the retina emerge (3) (Figure 2.1.D). The reddish spot at the center, where the visual processes take place, is 17 degrees temporal to the disc and called as fovea, (3, 10) (Figure 2.1.A). The foveal pit, standing circularly at the center of the fovea, has a radius of 200 μm (3, 10). The area is a cone-rich area, where the most cone dense region, with a special packaging orientation (3, 10). The field of centrally located circle with a 6 mm radius is defined as the central retina while the remaining part called peripheral retina (3). Peripheral retina ends at ora serrata which is approximately 21,000 μm away from the fovea, center point (3). Total retina is a circular structure which is about 30,000 to 40,000 μm in radius (3). All the mentioned macroscopic anatomic structures can be seen in Figure 2.1 A-D which is an image from one of the subjects.

The optic nerve, which is consisted of axons of the ganglion cells, also carries the blood vessels of the retina (3). Retina receives 2 main blood supplies: the central retinal artery (CRA) and choroidal blood vessels (3). Nearly two-thirds of the retinal blood supply is provided by choroidal circulation and remaining one-third is provided by CRA (3). Choroidal blood flow is a key feature for maintenance of PR layer whereas inner segments of the retina are maintained by CRA (3).

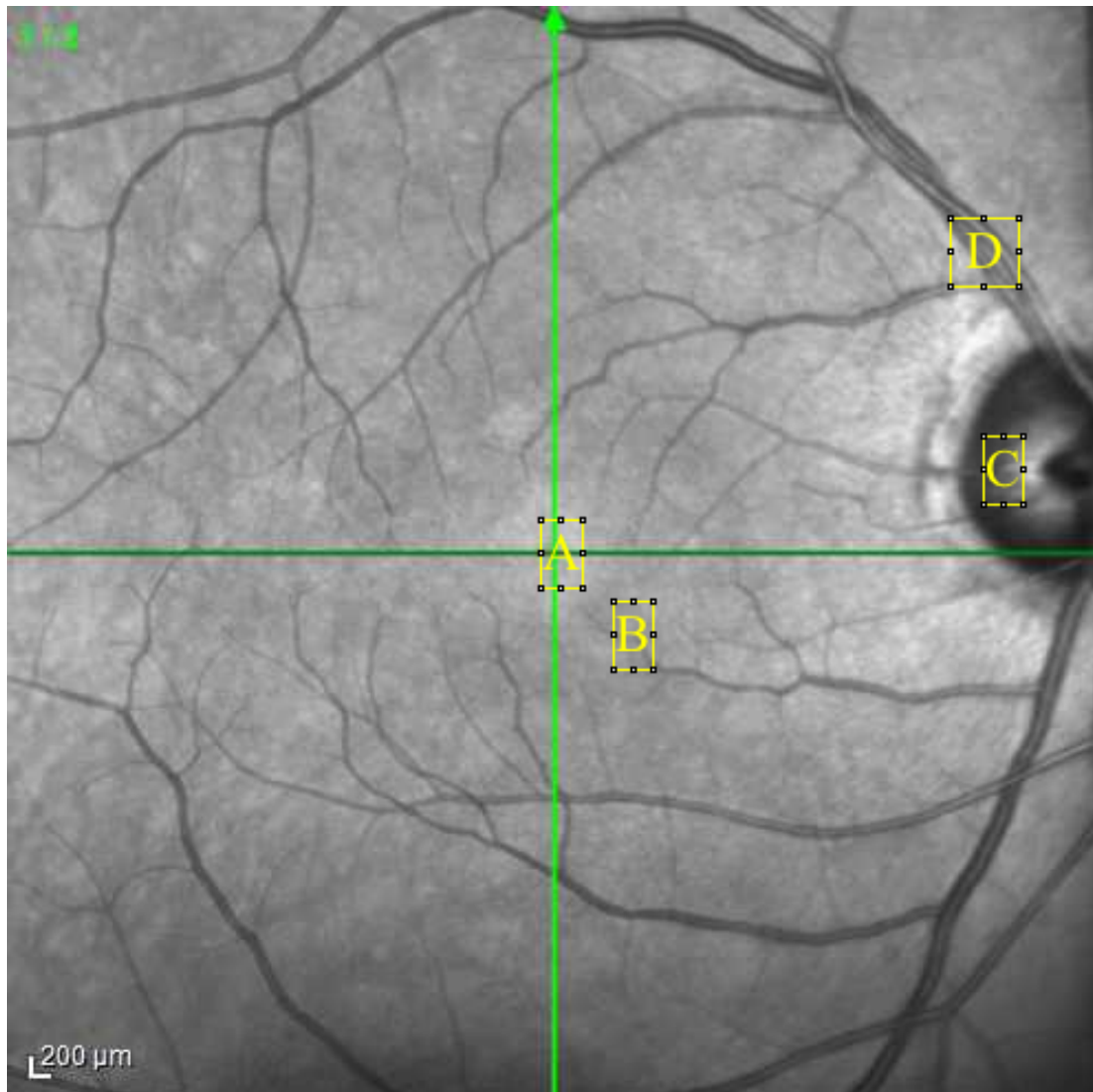


FIGURE 2.1. Retinal Macroscopic Anatomy: A. Fovea B. Parafovea C. Optic Disc D. Major Vessels.

2.1.2. RETINAL MICROSCOPIC ANATOMY

Neural component of the retina, the neural retina, consists of internal limiting membrane (ILM), nerve fiber layer (NFL), ganglion cell layer (GCL), inner plexiform layer (IPL), inner nuclear layer (INL), outer plexiform layer (OPL), outer nuclear layer (ONL), external limiting membrane (ELM) and inner and outer segments (IS/OS) of photoreceptor (PR) layer (1-3, 9) (Figure 2.2.). Those can be followed in detail in Figure 2.2 .

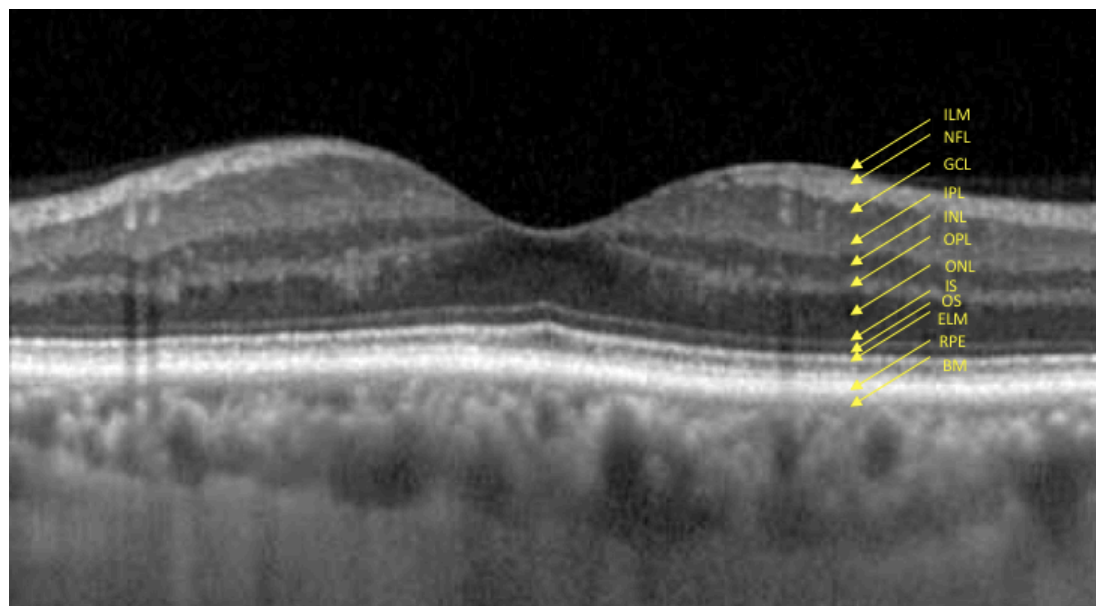


FIGURE 2.2. Retinal Microscopic Anatomy.

In order to excite sensory cells the must cross all those layers down to the innermost layer of PRs (1, 3). PR layer, which has an essential role in the visual pathway, is in close relationship with retinal pigment epithelium cells (RPE) (1). RPE layer consists of a monolayer of cells which helps the PR nourishment and waste removal (1, 10). These cells are cuboidal in shape and contain a large amount of melanosomes, responsible for the pigmented color of the layer (1). RPE clears the waste and segments of the PRs (1, 10). RPE has apical invaginations, filling between the outer segments of the PR layer, all along the neurosensory retina. RPE lies over a basement membrane, which is the inner layer of Bruch's Membrane (BM) (1). BM consists of 5 main parts: basement membrane of RPE, an inner layer, central layer, outer layer, and the basement membrane of choriocapillaris (1). BM lies between RPE and choroid (1).

Retinal thickness is not constant in every topographic location inside the eyeball (1, 11). The retina is about 400 μm thick at the optic nerve surrounding and is about 140 μm thick at the ora serrata surrounding which are the most and least thick parts, respectively. (1). Macular area is the central circular area with a radius of 1500 μm (1). It's thickness range from 350 μm to 180 μm , the latter is the center point which is also called as foveola (1). The difference is due to the increased density of PR cells,

particularly the cones (3). This central point is rich in cone cells, dense up to 15,000/mm², which is 4,000-5,000/mm² in macular region (1, 10). Cones are much more dense in foveal region and rods have their maximum density at 20° from fixation point (1, 10). Each cone project on up to 5 ganglion cells, on contrary each ganglion cell can interact with up to 130 PR cells (1).

Inner and outer retina has different metabolic supply pathways (1, 11). Inner retina gets supply from CRA, whereas outer retina, mainly PR cells, get supply from choroid through BM and RPE (1, 11). CRA divides into 4 main branches and then thinner arterioles at the level of the optic disc to supply all the inner regions of the retina (1). These vessels run through the NFL under ILM (1). When vessels come 400 µm around the foveolar region they stop running to foveolar avascular zone be formed (1, 11).

2.1.3. RETINAL HISTOLOGY

IS/OS layer, which is a part of the PR layer, mainly contains visual disks (1). These disks are oriented in a stack-shaped manner and regenerate in time (1). The waste of old disks is constantly cleaned by RPE tissue (1, 10). Newly formed disks are found in the base of cilium at the outer segment and old ones are found towards RPE layer (1). The outer segment shows a narrowed part at cilium which divides the structure into two: outer ellipsoid and inner myoid (1). Ellipsoid part is rich in mitochondria, whereas myoid part is rich in Golgi and ribosome (1). Found in this region, ELM divides the PR layer into two as IS/OS and PR nuclei which form ONL (1). ELM mainly consists of rods, cones, Müller cell pieces and adherens junctions between them and behaves like a barrier above the subretinal space (1, 3). PR axons, their interactions, and synapses with bipolar cells form OPL (1, 9). Bipolar cells are found between PR cells and ganglion cells, forming a vertical connection (1, 3, 9). Whereas horizontal cells, as its name, are found between the cells in a horizontal layer such as rods, cones, and bipolar cells, forming a horizontal connection (1, 3, 12). They are mainly GABAergic (γ -aminobutyric acid) cells responsible for “on” and “off” activity of the retinal region that faces with stimuli (1, 12). Synapsing with bipolar

cells, ganglion cells, and other amacrine cells, amacrine cells behave like a mediator both receiving excitatory and inhibitory inputs (1, 3). As a glial cell in the retina, Müller cells form ILM and functions as a supportive element for PR cells (1, 3). INL is formed by the cell nuclei of these specific cell types (1). The connection between bipolar and amacrine cells with ganglion dendrites forms IPL (1). GCL is the layer where the ganglion cell nuclei are found (1). From this layer, the axons of ganglion cells follow a way to the optic disk, where it forms optic nerve then, which forms NFL (1). The vitreal end of the Müller cell feet elongations forms the innermost layer, which is called ILM (1, 3). ILM forms a barrier between the retina and vitreous humor (3).

2.1.4. FUNCTIONAL RETINA

Light must go down to the PR layer, crossing all layers of the retina (1, 3). PR layer absorbs the photons via its visual pigments and therefore at this step energy of the light is translated into biochemical energy (3, 12). Subsequently, this biochemical energy is translated into various changes in the membrane potential of the retinal PR cells and neurons (3). The resulted neural activity is transmitted to the brain (3). The topographical distribution of the PR cells that convert energy is not the same in all regions (3). The center of the retina has a cone cell dominated distribution whereas the peripheral retina rod cells dominates (3).

2.2. CHOROID

2.2.1. CHOROIDAL MACROSCOPIC ANATOMY

Choroid, which is a specialized vascular tissue to supply outer retina, has some other functions further than supplying blood: regulation of heat, position of the retina and secretion of growth factors (4). Based on this characteristics, it can be said that choroid has an important role in emmetropization process (4).

The choroid is a part of the uveal tissue, which is the middle layer of the eyeball, between retinal and scleral layers (4, 13). The uveal tissue emerges from

mesenchymal cells in the 1st month, induced by budding of the forebrain, which will create eyeballs later in embryonic life (4). Melanocytes that is important in visual perception, migrate from the neural crest and turns into the pigmented melanocytes in 7-8th month (4). RPE interaction is a must for choriocapillaris to be differentiated in 2nd month (4). Therefore choroid composed of different cell type and matrix elements such as melanocytes, vessels, fibroblasts, immune system cells, collagen and elastic connective tissue elements (4). Combining this different kind of elements it is one of the most vascularized tissues of the human body (4). Although the main function of the choroid seems to nourish the outer retina, recent evidence shows that some other important functions may be discussed (4). These functions are thermoregulation, intraocular pressure (IOP) regulation, regulation of growth factors, regulation of emmetropization and drainage of aqueous humor from uveoscleral way which constitute about 35% of total drainage (4, 14, 15).

Choroidal blood flow, which is important for PR layer survival, is provided from long and short posterior ciliary arteries mainly and vessels coming from Zinn's Circle around optic disc (3, 11). Furthermore, these posterior ciliary arteries divided into lobules inside the choroid to supply localized regions (3). Although retinal blood vessel specialization seen in the retinal macular region, there is not such a case in the choroidal corresponding area (3). Choroidal vessels form 3 layers: outer, medial and inner layers (3). Blood come from arteries, goes through corresponding venular lobules and then veins that enter the vortex veins which later drains into the ophthalmic vein (3, 11).

2.2.2. CHOROIDAL MICROSCOPIC ANATOMY

Choroidal tissue borders are from the optic disc to the pars plana (4). From pars plana, it transforms into the ciliary body (4). Choroid is composed of 5 layers as BM, choriocapillaris, Haller's layer (HL), Sattler's layer (SL) and suprachoroidea (4, 13) (Figure 2.3.). Those can be observed in Figure 2.3 in detail which is an image of one of our subjects.

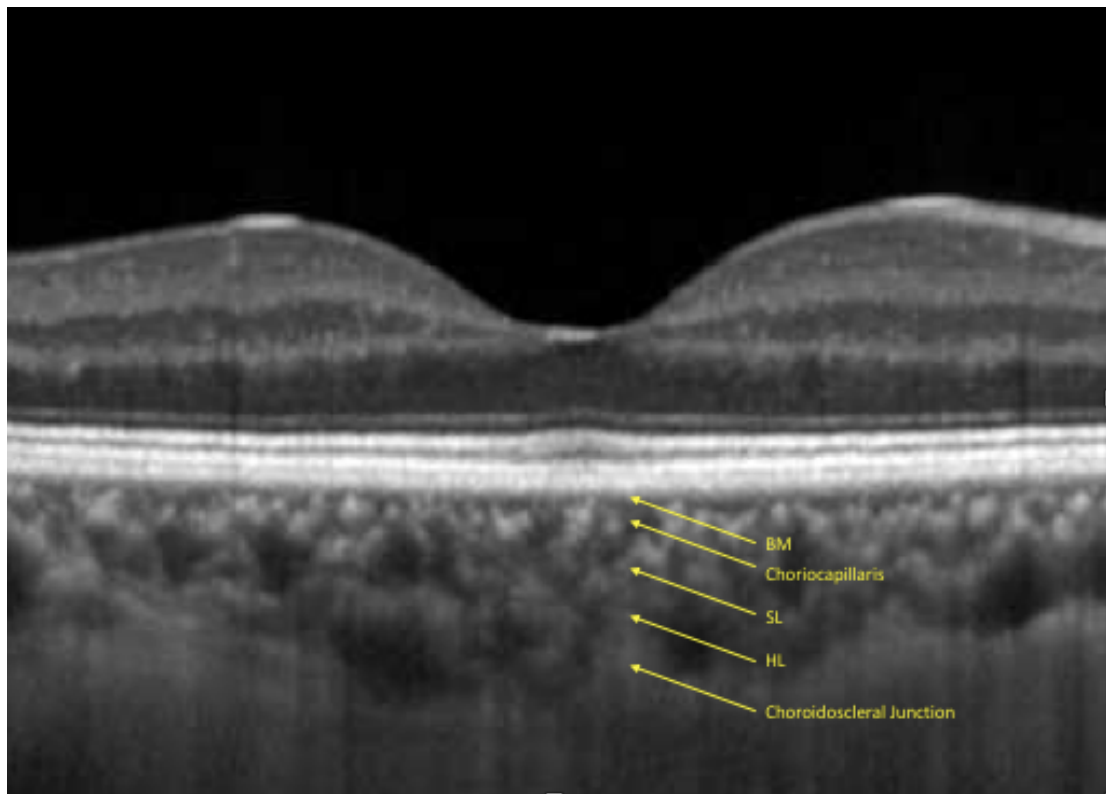


FIGURE 2.3. Choroidal Microscopic Anatomy.

Ramrattan et al. found that choroidal thickness is about 194 μm in the first decade and decreased to about 110 μm becoming 84 μm in the tenth decade (16). Although choroidal tissue thickness decreases over age, BM thickness increases from 2 μm to 4.7 μm , which is about 135% of increase rate (16). On the contrary choriocapillaris, the thickness is decreased from 9.8 to 6.5, a 34% decrease (16). In the same study, choriocapillaris density found to be decreased by 45% (16).

2.2.3. CHOROIDAL HISTOLOGY

Choriocapillaris, lying below the 5 layers of BM, composed of a capillary network anastomoses (4, 13). The outermost layer of BM is formed by capillary basement membrane of choriocapillaris (4, 13). Choriocapillaris has not the same thickness all over the retina (4). In the foveal region, it is approximately 10 μm and in the peripheral choroid, it is approximately 7 μm thick (4, 16).

Arterioles of SL give capillary branches to form single layered hexagonal shaped patchy choriocapillaris (4). These capillaries are fenestrated rendering them the ability to be permeable for most of the proteins, which the extravascular oncotic pressure to be a rise in return (4). The large area that capillaries lie, slows down the red blood cell (RBC) velocity to 77% of the that observed in retinal capillaries (17).

The innermost choroidal layer is BM (4, 13). BM composed of 5 different layers which are the choriocapillaris basement membrane, outer collagenous layer, central elastic layer, inner collagenous layer, and the basement membrane of RPE (1, 4).

The choroidal vascular region consists of SL which is the inner part and HL which is the outer part (4, 13). SL is formed by vessels that are medium and small in size and HL is formed by large vessels (4). The stroma of the choroid contains extracellular elements such as collagen fibers, elastic fibers; cells such as smooth muscle cells, melanocytes; immune elements such as macrophages, mast cells and lymphocytes (4).

Suprachoroidea found in between choroidal zone and scleral zone (4, 13). It is mainly composed of collagen, melanocytes, and fibroblasts (4). A special layer found in the outermost part of this structure called lamina fusca (15). Lamina fusca is rich in melanocytes, fibroblast-like cells and myelinated axons (15). Some researchers argue that lamina fusca is the innermost layer of the sclera (4).

2.2.4. FUNCTIONAL CHOROID

There is numerous smooth muscle cell around the vessels of the choroid and these are innervated by the autonomic nervous system (4). There sympathetic and parasympathetic branches become perivascular plexus around the vessels (4). Parasympathetic fibers mainly originate from pterygopalatine ganglion and sympathetic fibers originate from superior cervical ganglion (4, 18-20). There are also afferent fibers connecting to the trigeminal nerve ganglion via 3rd cranial nerve (4, 21).

There are numerous cells and structures in choroidal tissue which has a variety of functions. Intrinsic choroidal neurons (ICN) is characterized as cells that are approximately 2000 per eye, higher density in central and temporal regions, releasing nitric oxide (NO) which cause vasodilatation and can cause regulation of choroidal thickness (4). The nonvascular smooth muscle cell is another kind of choroidal cell that is found in the stromal region which is also proposed to have a role in regulation choroidal thickness (22). Lacunae found in choroidal tissue was suggested to have lymphoendothelium function (15).

2.3. OCT

2.3.1. HISTORY AND DEVELOPMENT OF OCT

OCT is a unique test that allows determining intraocular structures nearly at histologic quality (5, 23). It is both noninvasive and time-saving, which makes the technique is a sine qua non for ophthalmological examination (5, 23, 24).

This novel and unique technique were first described by Huang et al. at Massachusetts Institute of Technology in 1991 by a project headed by Fujimoto (25). In this first publication researchers mentioned about it is noninvasive for biological systems, it uses low coherence interferometry which is analogous to ultrasonic pulse-echo imaging but the difference is it uses near-infrared light (NIR), not sound waves

(25). The images are formed and visualized by the measurement of time and magnitude delay of the light scattered back from the retina (25). Because of the high velocity of the light beams, it is impossible to detect the direct echoes, thus a reference mirror used to compare the reflections which use a Michelson interferometer (25). This basically defined OCT was called time domain OCT (TD-OCT) (23). The nature of eyeball itself, offer a clear optical system to the OCT investigations which makes it popular in ophthalmology and in a few years retinal and optic nerve head images in OCT changed the imaging and treatment strategies (26-31). Although TD-OCT is time-consuming and limited to an axial resolution of approximately 10 μm (32, 33).

With the limitations come with TD-OCT, in the last decade a new technique was introduced: SD-OCT or Fourier domain OCT (34). In SD-OCT main difference comes from the detection of light as a total of functions of wavelength (34). This difference gives SD-OCT the speed advantage of 50-100 times of TD-OCT (23). Thus the advantage of higher resolution comes with the new technique (23, 34). Later on, eye track technologies were developed which adds additional improvements to current technology (23). SD-OCT gives the advantage of axial resolution up to 2 μm and a 100,000 A-scans per second (35, 36).

Today several OCT companies were in the market commercially and more than 37,000 examinations take place with OCT scans in a day in the United States of America (37).

2.3.2. PRINCIPLES OF OCT

OCT is an analogue of ultrasound except for the transmitted waves are not sound waves but NIRs (25, 38, 39). Sound waves travels at 1500 meter (m) / seconds (s) whereas light source used in OCT travels in a speed of 300,000,000 m/s (39). This difference gives OCT the advantage of a higher resolution (38). The resolution of ultrasound is about 150 μm and resolution of TD-OCT is about 10 μm (32, 33, 39). Another advantage is contact medium requirement is not an issue in OCT because refractive index is no problem for light waves as it is in sound waves (38). Although

the advantage that speed of light gives higher resolution, on the other hand, it makes it be measured directly nearly impossible (38). Therefore in order to measure the effects, a well-known technique, low coherence interferometry (LCI), was used (25, 38). In LCI technique light goes to the eyeball and comes back, is interfered with light that goes to a known length and comes back (25, 39, 40). The technique is achieved by a Michelson interferometer (25, 38, 39) (Figure 2.4.).

Michelson interferometer divides the source light into two parts or “arms” (25, 38, 39). This is achieved by two mirrors (25, 38). Light divided into two as reference and sample lights, by a beam splitter reunite at the same place after reflecting from the target destination (25, 38). These light beams are transmitted to a detector (25). If a monochromatic light source is used, a broad range of coherence length will be observed, on the other hand, if a light source which has a broad spectral bandwidth is used, very small coherence length will be observed (38). In the OCT light source coherence length usually is between 1 to 20 μm (38).

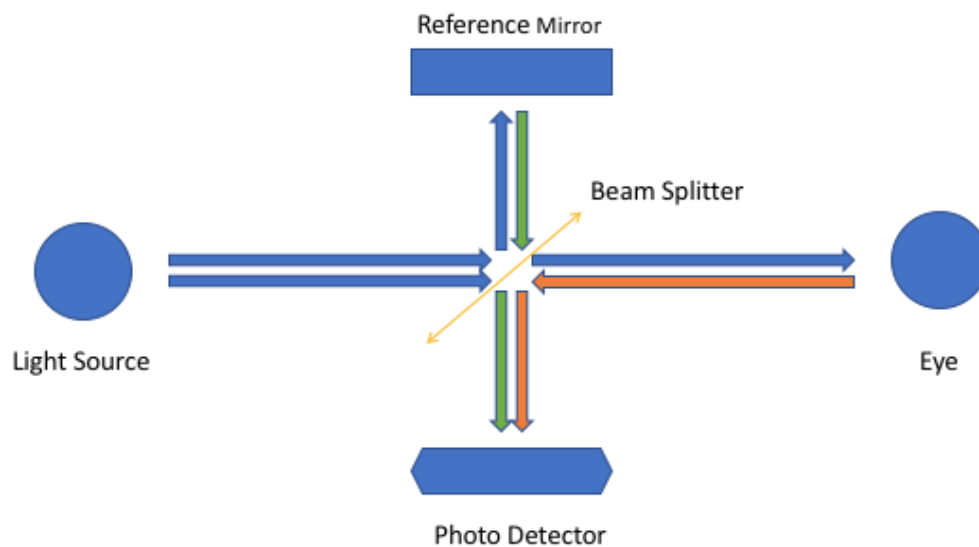


FIGURE 2.4. Basic Principles of OCT.

If the detector observes interference, because of the length that reference light travels are known, the length that sample light travels could be calculated (38). This is

called as “coherence gating” (38). Scans in a depth called as A-scans and scans that are constructed from longitudinal arrangements of A-scans called as B-scans (38).

Coherence length is a very important marker for the axial resolution of an OCT image (38). This parameter is inversely correlated with spectral bandwidth (38). Also, the wavelength of the light source is an important parameter for scattering, the increasing wavelength decreases the scatter (38). Hence, most OCT uses about 800nm light source for imaging which gives the best results for both scattering and absorption (38). Another important feature of the OCT is, spot size and focusing optics of sample light are very similar to the principles of confocal microscopy which is also called as “confocal gating” (38).

The OCT imaging performance could be assessed via a signal to noise ratio (SNR) (38, 41, 42). SNR is the ratio of signal amplitude to the standard deviation of noise in decibels (38, 41). From the calculation it can be seen reducing the noise is a key step to improve image quality (38, 41).

2.3.3. OCT TYPES

From the first experiments of OCT, a lot of new techniques introduced. OCT types can be briefly expressed as the headlines: TD-OCT, en-face OCT (EF-OCT), SD-OCT, swept source OCT (SS-OCT), functional OCT, MC-OCT and OCT angiography (OCT-A) (23, 24, 38, 39).

TD-OCT

TD-OCT is the first OCT introduced (25). A couple of years later the first commercial use in ophthalmology is in use but has lots of limitations (23, 32). Later on, new versions of TD-OCT become available, which has higher quality images and easier to use (32). After the second generation TD-OCT, third generation TD-OCT comes and it has improved the speed of A-scans up to 400 per second (32, 33).

The general limitations of TD-OCT are: there is a time delay originate mainly from the reference mirror axial translation which causes a poor resolution of A and B scans (23). One other limitation is a poor correlation between scans and the actual image of the retina (23). The last limitation is the poor sampling rate which is caused by the slow speed of TD-OCT (23).

Because of these limitations, researchers searched for the ways to improve the OCT techniques (23, 39).

EF-OCT

EF-OCT techniques can be defined basically as OCT combined with scanning laser ophthalmoscope (SLO) which can obtain high-resolution surface images (38, 43). The method depends upon the en-face scanning of an XY plane (38). The system has a Michelson interferometer and SLO combined (38). En-face scans also called as OCT-C scans obtained via a change in the mirror system (38).

SD-OCT

SD-OCT principles are different from TD-OCT (23, 34, 38). In TD-OCT, the coherence gate is the variable which is affected by the time consumed by the reference mirror (25, 38). In SD-OCT reference mirror is motionless, on the other hand, the wavelength is the variable which is obtained using a spectrometer (34, 38). In mathematics, this is called Fourier transformations (38). EDI-OCT, which is a technique position the scanner closer to obtain an inverted and deeper layer images, was used to visualize choroidal layers better (44).

SS-OCT

One other OCT which uses Fourier transformation is SS-OCT (38, 45). In this technique, the light source is tuned a broad wavelength range (38, 45). The system is very similar to the SD-OCT except in this one detector scans the wavelength and gather the intensity of the interference signal (38, 46). Here the length measurement of the reference signal is replaced by a wavelength measurement of the reference signal (24).

ADAPTIVE OPTICS

Because of the pupil diameter and optical properties of the eye itself, the image quality of an OCT is affected highly by the optical aberrations (47). These aberrations are defocused, spherical and cylindrical errors and chromatic errors (48). Such effects of aberrations in the optic system can be corrected by adaptive optics (AO) (48). Different AO methods introduced so far to overcome the optical system aberrations (48, 49).

FUNCTIONAL AND MOLECULAR OCT

There are numerous OCT types that allow functional imaging of the tissues (24, 38). Polarization-sensitive OCT (PS-OCT) which is useful for Retinal NFL (RNFL) assessment for glaucoma; color Doppler OCT (CD-OCT) which is useful for the diseases that the blood flow is important such as diabetic retinopathy and vascular occlusive diseases; phase sensitive OCT (PhS-OCT) and spectroscopic OCT (Sp-OCT) are some of them (50-60).

MC-OCT

Molecular contrast OCT (MC-OCT) is another technique that has close relationships with confocal microscopy techniques which intrinsic or extrinsic contrast agents are used (61). There are basically 3 MC-OCT methods which are absorption-based methods which include optically excitable transition methods, pump-probe

method, pump suppression method, spectrum-based methods, spectroscopic OCT for contrast imaging, spectral triangulation method; coherent emission based methods which includes second harmonic OCT (SH-OCT), nonlinear interferometric vibrational imaging method; and scattering-based methods which includes engineered scatterer method and magnetically modulated method (61).

OCT-A

OCT-A is a novel technique which is introduced as a result of combining a lot of previous OCT technologies (13, 62). This device can give both structural and functional information at once (62). It allows the functional anatomy of the vessels to be visualized (62). The basic principle is detecting the variable changes of moving RBCs (57, 63, 64). The motionless background and moving RBCs have different signals and by computation, the image produced (62). Three major computations techniques were present: phase signal based, intensity signal based and complex signal based (62).

2.3.4. APPLICATIONS OF OCT

OCT, with its unique features, find itself a broad spectrum of application fields. Besides ocular tissues, gastrointestinal tissues, trachea, peripheral vascular tissue and urine bladder were investigated with OCT (65-68).

OPHTHALMOLOGY

Since first introduced in 1991, OCT was a very useful tool for an ophthalmologist (25). OCT can capable of showing the anatomical details of the retina and choroidal tissues in histologic quality (5). After becoming commercially available of OCT, many diseases such as age-related macular degeneration (AMD), macular edema, macular hole, central serous chorioretinopathy (CSCR), epiretinal membrane (ERM), vitreomacular traction syndrome (VMT), retinoschisis and retinal detachment (RD) have been put into investigation (39). Development of SD-OCT allows

ophthalmologist faster examinations and detailed images (34). Development of other OCT techniques such as OCT-A allows the clinician to have both functional and anatomical imaging at the same time (13). Today OCT is nearly a fundamental part of the ophthalmological examination and a sine qua non for the ophthalmologist.

CARDIOLOGY

OCT first used in cardiology for the examination of coronary artery structural integrity (69-72). Some of the researchers compared intravascular OCT (IV-OCT) with intravascular ultrasound (IVUS) (69). The resolution of OCT is found higher than IVUS (37, 69). OCT applications to cardiology are improved with the technology development of rotational catheter-based probes, higher acquisition speed and improvement of functional OCT modalities (37). The catheter-based systems allow automatic and manual feeding of the probe with a high acquisition speed (73). OCT is a useful tool for determining the plaques of the coronary artery and it is proven to be useful for in vivo determination of activated macrophages (71, 74, 75). OCT is used to determine the effects of the percutaneous coronary intervention and stent implantation successfully (37, 69).

GASTROENTEROLOGY

Advances in gastrointestinal tract imaging modalities have led to the invention of endoscopic ultrasound and magnifying video endoscopy (76). Although this advance is useful, search for a better technology to improve resolution led the OCT to enter the field of Gastroenterology (76). Even with the principles of TD-OCT, it is possible to get 10 times higher resolution from ultrasound (76). Thus initially in vitro studies in gastroenterology were performed (65). Afterward in vivo studies conducted (72, 77). After first in vivo study was performed by Sergeev et al. several new techniques introduced and OCT researches were done in the esophageal tissue, gastric tissue, upper and lower gastrointestinal tract (77-81).

DERMATOLOGY

OCT use in dermatology is nearly as old as ophthalmological use (82). First investigated structures were a dermal-epidermal junction and sweat ducts, thus it is suggested to be useful in detecting bullous skin diseases, tumors of the skin and investigation of pharmacologic effects to the skin tissue (83, 84). The improvement of technology overcome the limitation of use and OCT find itself a wide area of use in the field of dermatology (85-87). Over time diagnosis capability and image quality is improved (87). Diseases investigated in dermatology are contact dermatitis, psoriasis, basal cell carcinoma, non-melanoma skin cancer, actinic keratosis, Bowen's disease and squamous cell carcinoma (88-92).

ONCOLOGY

OCT in the field of oncology is relatively recent (37). Since it is first used in oncology, many cancer types were investigated with OCT including bladder, breast, brain, respiratory, reproductive tract, ear, nose, throat and skin tissues (37). In addition, it is found to be useful in assessing the lymph nodes (93). OCT used to determine the metastasis of a breast cancer to a sentinel lymph node (94). Laryngeal carcinomas investigated with OCT and histological techniques which give a good correlation (95). OCT found to be useful in detecting the morphological changes in vocal chords, nasal mucosa, oral cavity and oropharynx (96-98). In the gastrointestinal tract, OCT has been applied to the esophagus, gastric mucosa, Barrett's esophagus, esophageal adenocarcinoma and colon (65, 76, 78, 99). One other field which OCT applied is gynecology (100, 101). Preinvasive and invasive cancers of the cervix and vulva were investigated with OCT and it is suggested that OCT has the potential of an optical biopsy (100).

OTHER APPLICATION FIELDS OF OCT

OCT, which is called as an optical biopsy, found itself a place in the broad spectrum of the medical field (76). Besides the areas mentioned above, OCT is investigated in many other fields such as dentistry, gynecology, urology and ear nose and throat diseases (68, 95-98, 100, 102). Because of the clinical advantages of the OCT, it can be seen that more and more fields may start to use OCT in the future.

2.3.5. OPHTHALMOLOGY AND OCT

In clinical ophthalmological practice, OCT is used to determine anterior segment diseases and posterior segment diseases (103-106).

ANTERIOR SEGMENT OCT

Anterior segment OCT (AS-OCT) was first investigated by Izatt et al. in 1994 (107). But first commercially available AS-OCT introduced in 2001 (108). It is very similar to ultrasonic biomicroscopy (UBM), with some superiorities: there is no need to contact with the equipment and a better quality of image (103). All of the principles mentioned above is applicable to the AS-OCT as well (103). There are TD-OCT based machines and SD-OCT based machines in the market (103, 109). TD-OCT based machines have a wider image area and deeper penetration capabilities which allows visualizing sclera, limbus, iridocorneal angle and scleral spur (110-112). SD-OCT based machines have the advantages of faster image acquisition, thanks not to having the disadvantage of a moving mirror, and an improved axial resolution (110, 113). Ultrahigh resolution OCT (UHR-OCT) is also applied to the anterior segment with a higher resolution (114-116).

With these features, AS-OCT is a very useful tool for an ophthalmologist who intends to evaluate a patient who suffers from an anterior segment or corneal disease (103, 104, 106). Diseases investigated by AS-OCT are: conjunctival diseases such as conjunctivochalasis, pterygium, pinguecula, pseudopterygium; neoplasia such as

conjunctival lymphoma, conjunctival melanoma and nevi, Salzmann nodular degeneration, iris tumors; corneal diseases such as granular corneal dystrophy, Fuchs' dystrophy, microbial keratitis, keratoconus, corneal hydrops, pellucid marginal degeneration, corneal scars, anterior chamber inflammation; surgeries such as cataract surgery, corneal transplantation, refractive surgery, crosslinking and other conditions such as dry eye disease (DED) and trauma (110, 111, 115, 117-131).

POSTERIOR SEGMENT OCT

Posterior segment applications of OCT is the classical applications mentioned above (5, 25). Retinal and choroidal structures can be visualized with OCT in detail (23).

RETINAL STRUCTURES IN OCT

Retinal structures which can be seen in an OCT scan are ILM, NFL, GCL, IPL, INL, OPL, ONL, ELM, IS/OS, PR layers (1, 3). The resolution of an SD-OCT image is nearly 1 μm (35, 36). The retinal thickness is measured by different algorithms and methods such as between ILM and ellipsoid zone, between ILM and RPE and between ILM and BM (Spectralis) while reliability and reproducibility remain (132, 133). The method used by Spectralis to measure retinal thickness which is between ILM and BM makes it thicker approximately 60 μm compared to other machines (134).

CHOROIDAL STRUCTURES IN OCT

Margolis et al. used Spectralis (Heidelberg Engineering, Heidelberg, Germany) to measure the choroidal thickness manually (44). Choroidal thickness defined as the distance between the outer edge of hyperreflective RPE to the choroidoscleral junction which is measured manually (44). In this study, it is found the thickest point is a subfoveal region which is found to be 287 μm and nasal choroid is thinner than temporal choroid (44). Choroidal morphology is also analyzed by researchers (135,

136). Choroidal structures which can be seen in an SD-OCT are large choroidal vessels/HL, medium choroidal vessels/SL and choriocapillaris layer (135).

2.3.6. OPHTHALMOLOGICAL DISEASES AND OCT

There are many ophthalmological diseases investigated with OCT since it is first introduced (23, 25, 37, 38). AMD, macular edema, CSCR, macular hole, ERM, VMT, glaucoma and intraocular tumors are some of them (23, 37, 40).

AMD

AMD is one of the most investigated areas in ophthalmology with OCT and changes of normal structure in PR layer, RPE, BM, and choriocapillaris were defined (23). Drusen, or subretinal deposit, is a well defined entity for AMD which can be seen as dome-shaped elevations in OCT (137). PR layer was found to be thinner which overlies the areas containing drusen (138). This interaction was also found to be negatively correlated with drusen width which means the wider drusen deposit the thinner PR layer (138). Some authors characterized the OCT morphology of AMD in three group: perilesional, junctional, atrophic (139). Perilesional changes are drusen and RPE alterations; junctional changes include the changes associated with the loss of PR layer and anthropic changes include atrophy and preserved areas together (139). OCT is a way of detecting choroidal neovascularization (CNV) with the 90% of the cases found in the classical approach of fluorescein angiography (140). Morphology of the CNV after the anti-vascular endothelial growth factor (VEGF) treatment was investigated and no change was found at 80% of the patients (141).

MACULAR EDEMA

The macular edema is a condition which can be caused by several reasons such as diabetes, uveitis, central retinal vein occlusion (CRVO) and branch retinal vein occlusion (BRVO) (142-144).

DIABETIC MACULAR EDEMA

Diabetic macular edema (DME) was defined as serous RD, cystoid macular edema (CME) and sponge-like retinal swelling by Otani and Kishi (142). Location of DMR is an important factor for clinical correlation (145). Ellipsoid zone integrity is also found to be important in DME which is related to visual acuity (146). The outer segment of the PR layer length was found to be correlated with visual acuity which is measured with a segmentation algorithm (147).

CRVO AND BRVO

CME due to vein occlusion is investigated by Ota et al (143). CME in the foveal region was generally located at OPL and INL whereas CME in the more peripheral region located at other retinal layers (143). ELM layer is also reported as an important marker for visual acuity outcome (143). Serous detachment seen in chronic conditions were likely to be associated with Müller cell expansion on PR layer (148).

UVEITIS

OCT can detect the macular edema caused by uveitis and has the advantage to visualize the distribution of subretinal fluid in a better quality (144). Also, OCT can provide the detection of CNVs, thus with these features, it is suggested to be superior to both fluorescein angiography and biomicroscopy (144). Both anterior uveitis and posterior uveitis symptoms can be evaluated using OCT (144).

CSCR

CSCR is the disease that detachment of neurosensory retinal layer due to a disruption of the integrity of the RPE layer (23). It can be acute or chronic, and subretinal fluid, pigment epithelial detachment (PED) can be seen (23). PED can be located using OCT (149). Retinal changes including ONL and OPL layer and hyperreflective materials can be seen in OCT (149). Outer segment defect in the PR

layer is a marker for impaired visual acuity (150). Treatment with photodynamic therapy (PDT) is found to decrease the choroidal thickness in CSCR patients (151).

VITREORETINAL INTERFACE DISEASES

Vitreomacular interface diseases which combine macular hole, ERM, and VMT in one group, is an area of the field which OCT researchers are very interested in (152).

MACULAR HOLE

A macular hole can be categorized into two as idiopathic and traumatic which the vitreoretinal interface changes blamed for both (153). OCT can demonstrate the morphological changes in the macular hole (154, 155). The outer segment of the PR layer was found to be disrupted in macular holes with OCT scans which is correlated with poor visual acuity (156). Thus pre and postoperative evaluation of macular hole patients with OCT become very important (157).

ERM

ERM is a membrane shaped structure formed by myofibroblasts and astrocytes, which is also found 6% of the population (158, 159). ERM can be caused by either the result of posterior vitreous detachment (PVD) or secondary to an inflammatory condition (160). OCT is capable of demonstrating the ERM, and newer techniques visualize it with a better quality (161).

VMT

VMT is the result of partial PVD, which vitreous is detached peripherally but attachment remains in the foveal region (152). VMT has a close relationship with ERM (162). OCT is a useful technique for the evaluation of pre and postoperative periods of VMT (152, 162).

RETINOSCHISIS

The split of the neurosensory retina separated by OPL, which can be degenerative or acquired, is called retinoschisis (163). Distinguishing retinoschisis from RD is an important topic and OCT is proved to be very useful in this action (163).

INTRAOCULAR TUMORS

OCT is a valuable tool for detecting and evaluation of fundus tumors (164). It can affect the diagnosis and treatment decisions (165). Handheld OCT devices can simplify the examination of children (166). Intraocular tumors that are investigated with OCT includes both childhood and adulthood intraocular tumors (164, 166, 167). OCT is mainly applied to retinoblastoma (RB), astrocytic hamartoma, choroidal malignant melanoma (CMM), metastatic cancers, hemangioma and osteoma (164, 167).

INHERITED RETINAL DISORDERS

OCT allows the evaluation of inherited retinal diseases such as retinitis pigmentosa (RP), Best's Disease, Stargardt's Disease, adult onset foveomacular vitelliform dystrophy (AOFVD) and cone dystrophy (168-174). OCT is the technique that shows RPE, PR and retinal disorganizations even before a visible sign at funduscopy examination (23).

OPTIC DISC LESIONS

Drusen of the optic nerve head can be visualized and thinning of RNFL can be observed via OCT scans (175). OCT may be useful for the follow up of these patients (175). Optic disk with glaucomatous cupping, papilledema, and optic disc pit can be evaluated by using OCT (176, 177).

GLAUCOMA

OCT has an important role in the analysis of the optic nerve head, thus glaucoma (40). OCT machines, specific software, can detect disc contours and automatically provides measurements (178). RNFL thickness obtained by measuring the distance between inner and outer borders and compared with a normative database of the device itself (179). Because RNFL can change among age, race and some other factors, it must have compared with the normative database which has equal properties (179). Any variability which is significantly different from the population normative database should be interpreted by the clinician as a sign of an abnormality (179).

OTHER DISEASES

OCT abnormalities were reported by Chen et al. in patients who use hydroxychloroquine (180). These abnormalities include peripoveal PR ellipsoid zone (180). Thinning of GCL and the NFL was also observed (180). Macular telangiectasia, which is characterized by the cavitation of inner retinal layers, is another disease investigated with OCT (181). Retinopathy of premature (ROP) is one other entity which OCT can detect anatomical changes and could be a useful tool to evaluate the disease progression (182). For this purpose, handheld devices were used (183). Retention of the GCL, IPL, and INL were seen in the babies need for laser therapy or cryotherapy (184). OCT can be used to detect the changes in choroid and retina in high myopia patients (185). Structural changes in high myopia demonstrated by OCT are PVD, maculoschisis, disruption of the ellipsoid zone, ERM and macular hole (185).

2.4. CHOROIDAL VASCULARITY INDEX

CVI is mainly found to answer the question of whether choroidal thickness is not sufficient to provide all the information we need for a particular disease or even in a healthy population (8). With this purpose, a method for determining to measure the choroidal parameters was introduced (8). This method can give total choroidal area (TCA), luminal choroidal area (LCA), stromal choroidal area (SCA), luminal area percent or CVI, stromal area percent (SAP) and luminal area to stromal area ratio (LSR) (8). After determining the first steps in this field at healthy subjects, researchers perform CVI calculations to some basic ophthalmological diseases such as diabetes, CSCR, AMD, Vogt-Koyanagi-Harada (VKH) disease and panuveitis (186-190). CVI measurements were found to be highly reproducible in subfoveal, central and total macular areas (191). Today more and more research was performed in this field and many other diseases were investigated.

In the research performed by Agrawal et al. they use EDI-OCT mode of SD-OCT, Spectralis (Heidelberg Engineering, Heidelberg, Germany) (8). They scanned the macular region with a 7 horizontal line centered to fovea (8). The average of frames were 100 in B scans (8). They used an automatic segmentation to find the choroidal area, calculating the area between BM and choroidoscleral junction which is developed by Tian et al. (8, 192).

The foveal scan is binarized using Image J (version 1.47; <http://imagej.nih.gov/ij/>) which is available publically (8). They marked the subfoveal choroidal area with a 1500 μm width, 750 μm in each side of the central point of the fovea (8). They selected only 1500 μm of the choroidal region in order to represent the choroidal vasculature which is a region of interest (ROI) (8). In order for the binarized image, they searched for the different auto local threshold functions such as Otsu, Bernsen, and Niblack (8). Because Otsu is thresholding globally and Bernsen locally, they suggest using Niblack method (8). This method takes into account all means and standard deviations of pixels while calculating (8). In that part, they selected the ROI more specifically after binarization, which is the different part from the methods of

Sonoda et al (6, 8). Sonoda et al. constructed the ROI before the binarization and Agrawal et al. corrected it after the binarization (6, 8).

After correcting the ROI with the polygon tool, they added the area to the ROI manager (8). They converted the image to a red-green-blue (RGB) format in order to use threshold function (8). Threshold function gives the number of dark pixels which is equal to LCA in the ROI (8). Also, it is possible to measure TCA, and SCA can be calculated by subtracting LCA from TCA (8). CVI can be calculated by dividing LCA to TCA and SAP can be calculated by dividing SCA to TCA (8). They also calculated LSR by dividing LCA to SCA (8).



3. MATERIALS AND METHODS

3.1. RESEARCH LOCATION, TIME AND SAMPLING

This retrospective cross-sectional study is performed in the Hacettepe University Medical Faculty, Department of Biophysics. 100 eyes of 50 subjects were used who were applied to Health Sciences University, Ankara Health Application and Research Center, Department of Ophthalmology in the last 3 years before August 2017. This research was performed between October 2017 to July 2018. This study is approved by the Hacettepe University Medical Faculty Non-Interventional Ethical Committee.

3.2. INCLUSION AND EXCLUSION CRITERIA

3.2.1. INCLUSION CRITERIA

Inclusion criteria are:

- Subjects who applied to the Health Sciences University, Ankara Health Application and Research Center, Department of Ophthalmology clinic between August 2014 to August 2017.
- Subjects who are between 15 - 65 years old at the time of examination.
- Subjects who have no prior history of known ocular diseases.
- Subjects who have no prior history of known systemic diseases.
- Subjects who have no prior history of ocular surgery.
- Subjects whose conventional and computer-based archive data could be attainable.
- Subjects who have SD-OCT and EDI-OCT images in Spectralis (Heidelberg Engineering, Heidelberg, Germany).
- Subjects who have vertically and horizontally scanned images.
- Subjects whose SD-OCT images have enough quality to perform an interpretation.

3.2.2. EXCLUSION CRITERIA

Exclusion criteria are:

- Subjects who applied to the Health Sciences University, Ankara Health Application and Research Center, Department of Ophthalmology clinic outside the times between August 2014 to August 2017.
- Subjects who are younger than 15 and older than 65 years old at the time of examination.
- Subjects who have a history of ocular diseases.
- Subjects who have a history of systemic diseases.
- Subjects who have a history of ocular surgery.
- Subjects whose conventional and computer-based archive data could not be reached.
- Subjects who have no SD-OCT and EDI-OCT images in Spectralis (Heidelberg Engineering, Heidelberg, Germany).
- Subjects who have not both vertically and horizontally scanned images.
- Subjects whose SD-OCT images have not enough quality to perform an interpretation.

3.3. DATA COLLECTION TOOL

As the data collection tool hospitals conventional and computer-based archive was used in addition to the data at SD-OCT device. Age, sex, demographic data, history of ocular diseases, history of systemic diseases, history of ocular surgeries were searched retrospectively and noted. All the scanned data were entered to the subjects' field in the computerized database and SD-OCT images were exported using the devices own program (Spectralis, Heidelberg Engineering, Heidelberg, Germany).

3.4. DATA COLLECTION PROCESS

Subjects who met the criteria for inclusion was searched at the hospital conventional and computer-based archive. Subjects who are between 15-65 years old, who applied to the clinic between August 2014 to August 2017 were searched for any previous history of ocular or systemic diseases and ocular surgery. Those who have not disease or surgery history was searched for any SD-OCT and EDI-OCT data present in the SD-OCT device. After that Images were searched for if there was both vertically and horizontally scanned images and those have both were noted. And at the last step, we searched for those who had an examination data that the image quality is enough for an interpretation. The subjects who meet all the criteria were accepted as study subjects. 25 female and 25 male subjects were selected randomly from this population which makes 100 eyes, 100 horizontal scans, 100 vertical scans and 200 images in a total.

3.5. IMAGE PROCESSING

3.5.1. OBTAINING THE IMAGES

Images of the randomly chosen patients gathered from SD-OCT device (Spectralis, Heidelberg Engineering, Heidelberg, Germany), with the export function of the main program of the device itself. For a subject, right and left eyes and vertical and horizontal images were selected to export. Images are obtained as the joint photographic expert's group (JPEG) file format with a scale on it. The image frame is 1264 x 596 pixels by default with a fundus infrared (IR) image at left and OCT image at right. OCT scale was not equal in height and width which is widened vertically in order to visualize better. All measurements were done according to the scale of its axis.

3.5.2. OPENING THE IMAGES AT FIJI/IMAGEJ

Images were opened after export process via Fiji/ImageJ program (version 1.52d)/(<https://imagej.net/Fiji>)/(<http://imagej.nih.gov/ij/>) (193, 194). Fiji/ImageJ program is an open source image processing program which can be easily accessible and downloadable from the internet. Researchers can write macros according to their projects in Java code and can make Fiji/ImageJ even more useful. Fiji program can be defined as the pre-downloaded version of the several useful plug-ins of ImageJ. Thus in our study, we find it more convenient to use the Fiji program.

IMAGE PROPERTIES

Images opened in Fiji is a combined frame of IR fundus photograph and OCT together. In particular, we research with OCT and we do the remaining procedures considering the OCT part. Image's total width is 1264 pixel and total height is 596 pixels. The image is not a grayscale image, instead, it is an RGB image. The scale shown in the OCT part is set to 200 μm by default both vertically and horizontally, but in different lengths.

SETTING SCALE

In order to perform the measurements in real length, consecutive images need to be set the scales correctly. For this purpose, choosing “straight” tool is needed and with the help of this tool, scale bar can be measured in pixel length. After measuring the intended distance, by choosing the “set scale” button under the “analyze” tab researcher can set the scale to its real length. After confirming the new scale, measurements will be done by the program on the original scale.

But one important point in this step is: there is no consistency of the images vertical and horizontal scales. So if a researcher wants to measure the horizontal part, he or she must set the scale according to the horizontal scale and vice versa. If a researcher wants to measure an area of an image in this kind, he or she must first

measure it in pixels and then multiply it with a real area of the corresponding one pixel square.

Because of the first step is to measure the area of interest in the horizontal axis of the image, not vertically, the scale was set according to the horizontal axis.

3.5.3. RETINAL AND CHOROIDAL ROI DRAWING

ROI drawing was made according to the horizontal scale. A fovea centered 6500 μm area was drawn for retina. For the retinal ROI, inner border is ILM-vitreoretinal margin and the outer border is the hyperreflective outer margin of the RPE layer. For the choroidal ROI inner border is the hyperreflective outer margin of the RPE layer and the outer border is a choroidoscleral junction.

3.5.4. SAMPLING RATE

In our research, we find that all 200 images have retinal and choroidal boundaries within a range of 6500 μm centered to the fovea. Thus in order to obtain the maximum standardized data from horizontal and vertical scans, we chose 6500 μm total area centered to the fovea 3250 μm in each side. In vertical scans 3250 μm inferior and 3250 μm superior; in horizontal scans 3250 μm nasal and 3250 μm temporal regions is taken as ROI. These 6500 μm ROI was performed for both retina and choroid. 6500 μm ROI was divided into 65 equal parts, each of which is 100 μm in width (Figure 3.1.). Each part was called according to the distance in μm to the center point of the fovea. For example, horizontal central-0 is the area corresponds to 0 center, 50 μm nasal and 50 μm temporal part; and inferior-1000 μm is the area corresponds to 1000 μm inferior to the center of fovea and area between 950 μm to 1050 μm inferior to the center of the fovea. Thus, last part of each margin called as 3200 μm inferior, superior, nasal or temporal.

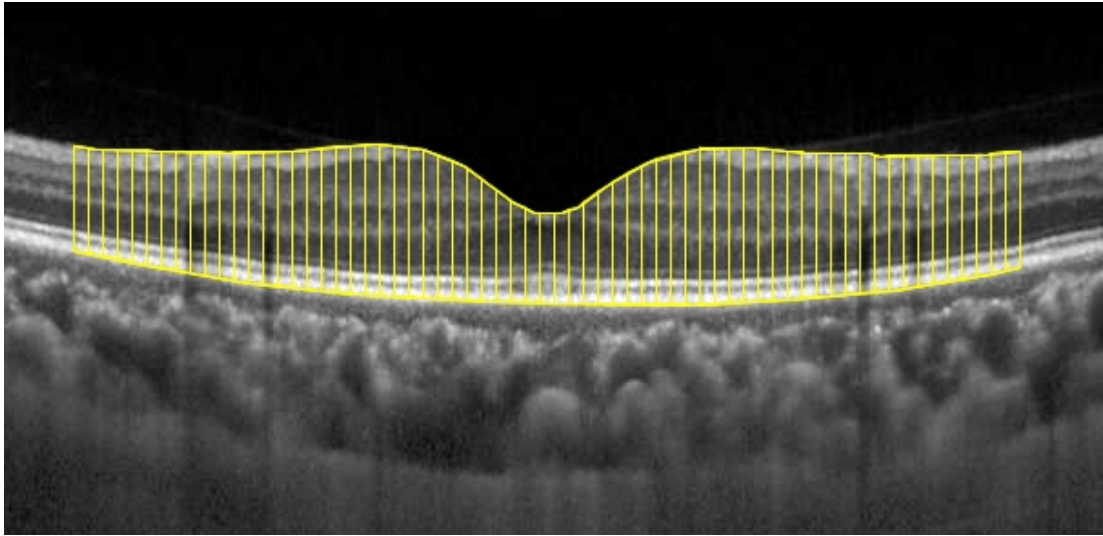


FIGURE 3.1. Sampling Rate and 65 Small ROIs.

3.5.5. PROCESSED AREAS

All vertically processed 65 area and total area was horizontally divided into three portions as inner, middle and outer portions. Areas are divided into three equal heights according to their original heights. Thus total area was divided into three and 65 smaller vertical parts further divided into 195 (Figure 3.2.). This further division allows better quantification and analysis of different portions of the retina and choroid.

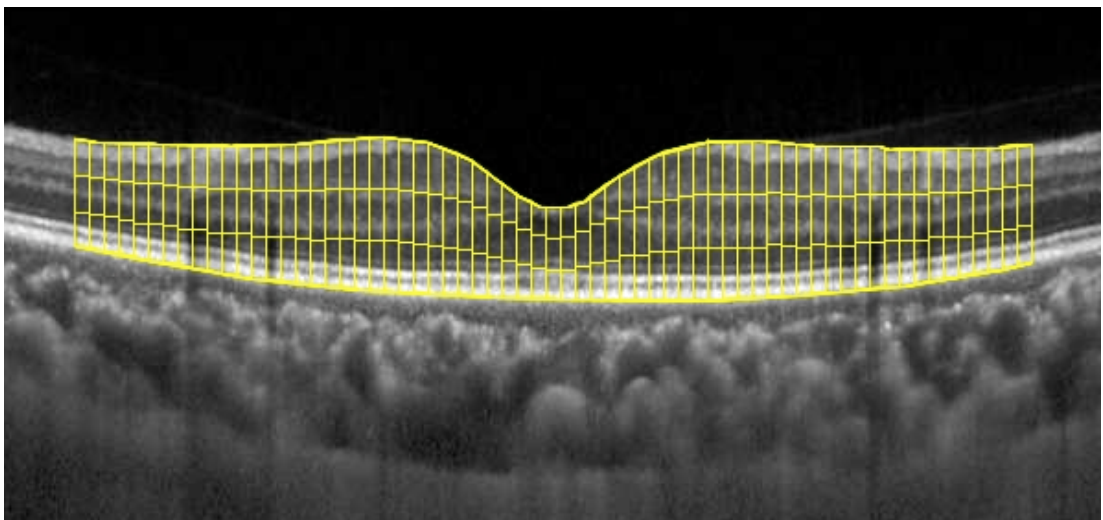


FIGURE 3.2. Processed Areas and 195 Smaller ROIs.

3.5.6. BINARIZATION PROCESS

In order to perform the binarization process, image type has to be set “8-bit” grayscale. For this purpose, under “image” tab we selected the “type” button and then “8-bit” section. After setting the image type auto local threshold function has to be processed. Under the “image” tab, we chose “adjust” button and then “auto local threshold” section. In this section “Niblack” method is selected as previously described (8). This command gives the binarized image as output (Figure 3.3.).

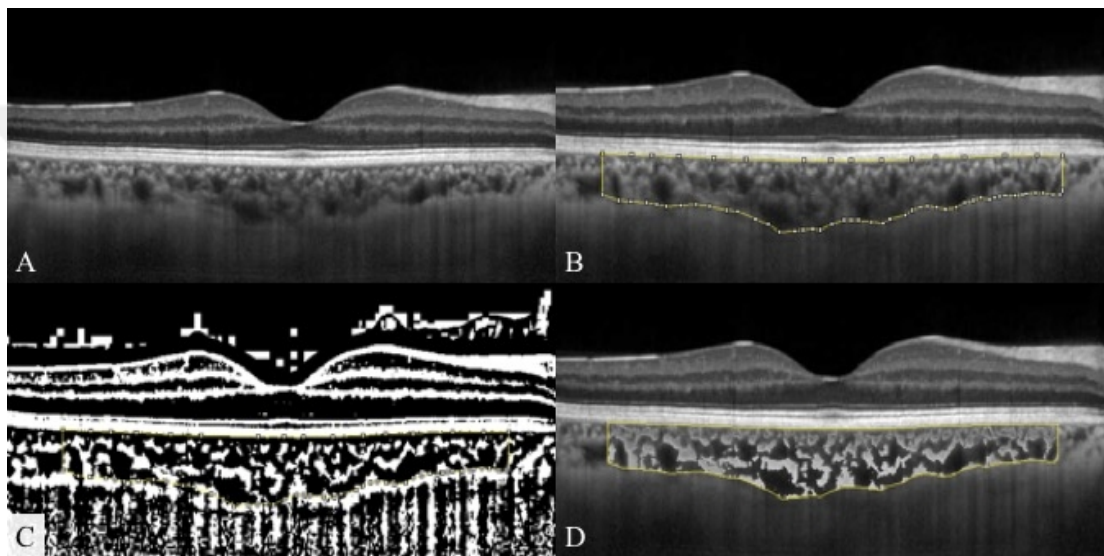


FIGURE 3.3. Binarization Process: A. Raw image, B. ROI drawing, C. Binarization process D. Superimposed image.

3.5.7. ANALYZED PARAMETERS

Under the “analyze” tab and “tools” button, we chose “ROI manager” section. The selected ROI measurements can be done via the ROI manager panel automatically. There are some parameters like area, mean, standard deviation, perimeter, width, height, major, minor, angle, circularity, feret, internal density, skewness, kurtosis, area percent, raw internal density, feret angle, minimum feret, aspect ratio, roundness and solidity (<https://imagej.nih.gov/ij/docs/guide/user-guide.pdf>). In addition, we calculate other parameters from these measurements as spot thickness, mean thickness, spot retina to choroid thickness ratio (sRCTR), mean retina to choroid thickness ratio

(mRCTR), Rectangular Fill Index (RFI), total retinal area (TRA) / TCA, dark retinal area (DRA) / LCA, light retinal area (LRA) / SCA, dark area percent (DAP) / CVI, light area percent (LAP) / SAP and dark to light ratio (DLR) / LSR.

PARAMETERS THAT ARE MEASURED

AREA

Area selection gives the selected ROI's area in pixel square. After measuring the pixel square, one exact value of one-pixel square was calculated and multiplied with the pixel square in order to find the real area. Its unit in this study is μm^2 .

AREA FRACTION

Area fraction provides a percentage of pixels in the image that is highlighted in red if the image is thresholded, which is dark and light pixels in our case. For nonthresholded images, it gives the percentage of non-zero value pixels. It is showed as a percentage.

MEAN

The mean selection gives the average gray value of the ROI. In this case, because of the image is binarized, it gives the mean value of 0s and 256s in a 256 gray value scale where the 0 is black-dark and 1 is white-light. Its unit is pixel value (PV) in this study.

STANDARD DEVIATION

Standard deviation is the standard deviation of the gray values of the mean value. Because we binarize the image, it is the standard deviation of 0s and 256s. Its unit is PV in this study.

SKEWNESS

Skewness is the third order moment of the mean function of gray values. It is the symmetry value around the XY axis and has no units. 0 means symmetrical distribution, below 0 means asymmetric distribution to the left and above 0 means asymmetric distribution to the right. It has no units.

KURTOSIS

Kurtosis is the fourth order moment of the mean function of gray values. It is the flatness value around the XY axis and has no units like skewness. 0 means Gaussian distribution, below 0 means flatter than normal distribution and above 0 means a more peaked distribution. It has no units.

PERIMETER

Perimeter gives the total length of the outside boundary of the selected ROI. Its unit is pixels in this study.

WIDTH

Width is the function of “bounding rectangle” selection which gives the smallest rectangle enclosing the selected ROI. The width gives the width of this rectangle. Its unit is μm in this study.

HEIGHT

Height is the function of “bounding rectangle” selection which gives the smallest rectangle enclosing the selected ROI. Height gives the height of this rectangle. Its unit is μm in this study.

MAJOR

Major is a function of “fit ellipse” selection. Major is the primary axis of the best fitting ellipse in a selected ROI. Its unit is pixel in this study.

MINOR

Minor is a function of “fit ellipse” selection. Minor is the secondary axis of the best fitting ellipse in a selected ROI. Its unit is pixel in this study.

ANGLE

Angle is a function of “fit ellipse” selection. Angle is the angle between x-axis (or horizontal axis) and primary axis of the best fitting ellipse of a selected ROI. Its unit is degree in this study.

INTEGRATED DENSITY

Integrated density is the sum of the values of pixels in an ROI selection which is the common product of area and means functions. It can be calculated as (number of pixels) X (mean gray value - background). Its unit is PV in this study.

RAW INTEGRATED DENSITY

Raw integrated density is the sum of the pixel values in a selected ROI. It is the value of total intensity units. Its unit is PV in this study.

FERET

Feret’s diameter or maximum caliper is the longest distance inside a selected ROI. Its unit is pixel in this study.

MINIMUM FERET

Minimum Feret's diameter or minimum caliper is the shortest distance inside a selected ROI. Its unit is pixel in this study.

FERET ANGLE

Feret angle is the angle between Feret's diameter and the x-axis which is between 0-180 degrees. Its unit is degree in this study.

CIRCULARITY

Circularity is a descriptor of how much an ROI resembles a perfect circle. It is calculated by the formula of $4\pi \times (\text{area}) / (\text{perimeter})^2$. The more outcome value getting closer to 1.0, the more ROI resembles a perfect circle. 1.0 means a perfect circle whereas 0.0 means an increasingly elongated shape. It has no units.

ASPECT RATIO

Aspect ratio is the aspect ratio of the best fitting ellipse which is calculated by $(\text{major axis}) / (\text{minor axis})$. It has no units.

ROUNDNESS

Roundness is the inverse of aspect ratio which is calculated by $(\text{area}) / (\pi \times (\text{major axis})^2)$. It has no units.

SOLIDITY

Solidity is calculated by $(\text{area}) / (\text{convex area})$. It has no units.

PARAMETERS THAT ARE CALCULATED

SPOT THICKNESS

Thickness is the distance between intended margins in a selected point of ROI. It is calculated for both retina and choroid as retinal thickness and choroidal thickness. It is measured at the center points of each 65 parts (Figure 3.4.). Difference between thickness and mean height is: thickness is the length of a single point and mean height is the mean length of the desired ROI. Its unit is μm in this study.

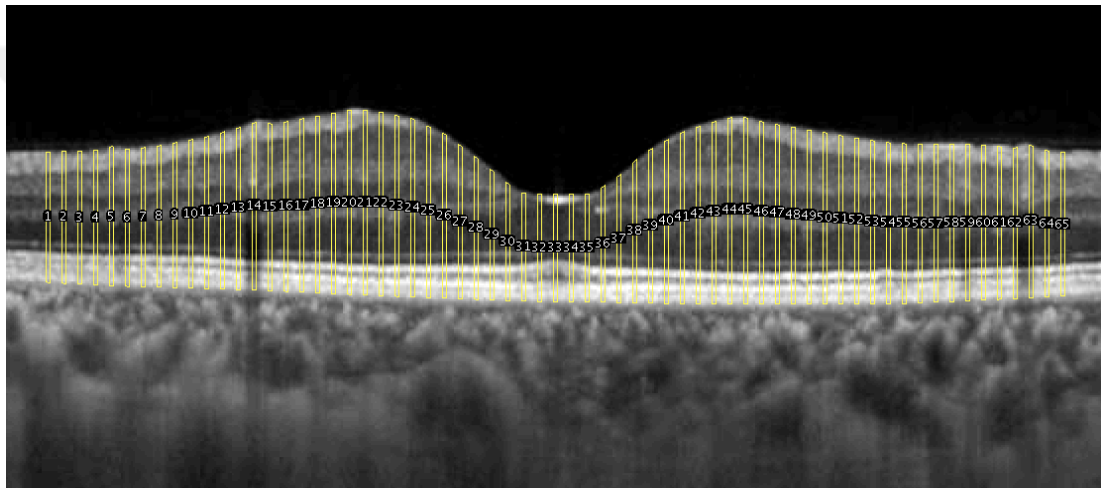


FIGURE 3.4. Spot Thickness Measurement.

MEAN THICKNESS

Mean height calculation is used to find the mean height of 65 parts which is $100\ \mu\text{m}$ in width. Because we know each parts' minor axis is $100\ \mu\text{m}$ and we know the area, we can calculate the mean height using the formula of $(\text{area}) / (\text{width})$. Its unit is μm in this study.

sRCTR

We calculated the sRCTR for this study. sRCTR is the ratio of spot retinal thickness to spot choroidal thickness for a given region (Figure 3.5.). It basically defines how much retina is found for a unit of the choroid. It has no units.

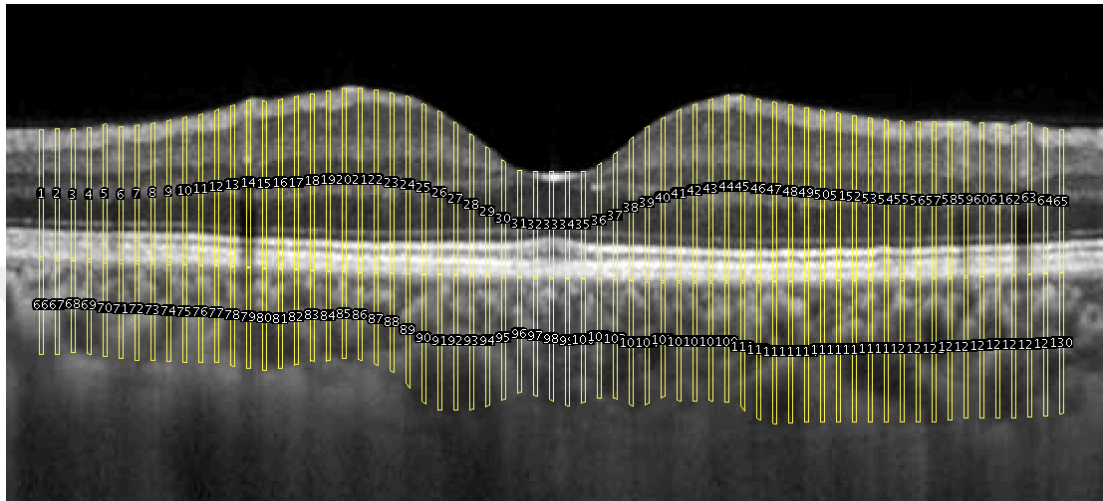


FIGURE 3.5. sRCTR and sCRTR Measurement.

mRCTR

We calculated the mCRTR for this study. mRCTR is the ratio of mean retinal thickness to mean choroidal thickness for a given region. It basically defines how much retina is found for a unit of the choroid. It has no units.

sCRTR

We calculated the sCRTR for this study. sCRTR is the ratio of spot choroidal thickness to spot retinal thickness for a given region (Figure 3.5.). It basically defines how much choroid is found for a unit of the retina. It is the inverse of sRCTR. It has no units.

mCRTR

We calculated the mRCTR for this study. mCRTR is the ratio of mean choroidal thickness to mean retinal thickness for a given region. It basically defines how much choroid is found for a unit of the retina. It is the inverse of mRCTR. It has no units.

RFI

We calculated the RFI for this study. It is the proportion of how much area is filled by selected retina or choroid in a given smallest rectangle enclosing it (Figure 3.6.). It is between 0.0-1.0 and the more getting closer to 1.0 means it fills the smallest rectangle exactly which also means it resembles a rectangle. It is both applied for retina and choroid. It has no units.

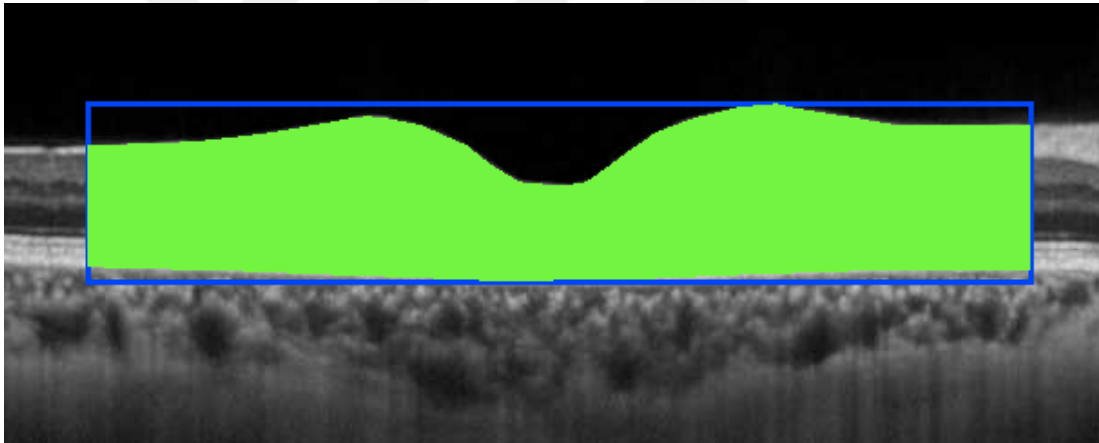


FIGURE 3.6. RFI Measurement.

TRA / TCA

TRA or TCA is the total area of the selected ROI. TRA is used for retinal and TCA is used for choroidal calculations. Its unit is μm^2 in this study.

DRA / LCA

DRA or LCA is the total dark pixel area of the selected ROI. DRA is used for retinal and LCA is used for choroidal calculations. Its unit is μm^2 in this study.

LRA / SCA

LRA or SCA is the total light pixel area of the selected ROI. LRA is used for retinal and SCA is used for choroidal calculations. Its unit is μm^2 in this study.

DAP / CVI

DAP or CVI is the percentage of the dark pixel area to the total area of the selected ROI. DAP is used for retinal and CVI is used for choroidal calculations. Its showed as percentage.

LAP / SAP

LAP or SAP is the percentage of the light pixel area to the total area of the selected ROI. LAP is used for retinal and SAP is used for choroidal calculations. Its showed as a percentage.

DLR / LSR

DLR or LSR is the ratio of dark pixels to the light pixels of the selected ROI. DLR is used for retinal and LSR is used for choroidal calculations. It has no units.

3.6. SEMI-AUTOMATED RET-INAM PROGRAM

Because it is possible for researchers to make their own Java-based coding in Fiji/ImageJ program, we intend to automatize the processes that are vulnerable to the bias and that is time-consuming. We created the codes initially as a macro program and called it RET-INAM.

30 parameters were measured per a single ROI in an OCT scan and 2 parameters for both retina and choroid. There are 1 major ROI and it has 3 minor ROI. This 4 ROI have 65 vertical ROIs for each. Thus a total of $1 + 3 + 260 = 264$ ROI were investigated. All of the 32 parameters were measured for these 264 ROIs which makes $30 \times 264 = 7920$ measurements for only one OCT scan either horizontally or vertically and for only one structure either retina or choroid and $2 \times 264 = 528$ measurements for retina and choroid combined. There are 2 structures in each scan which are retina and choroid. There are 2 scans vertically and horizontally for each eye and there are 2 eyes for each subject. Considering the study has 50 subjects, there are $2 \times 2 \times 2 \times 50 = 400$ structures to be investigated. These 400 structures are investigated via 7920 parameters which makes $400 \times 7920 = 3,168,000$ single parameters. For the retina and choroid combined parameters $200 \times 528 = 105,600$ extra parameters. Thus $3,168,000 + 105,600 = 3,273,600$ single measurements were analyzed in order to perform this study.

3.6.1. PURPOSE OF RET-INAM

Purpose to use RET-INAM program is to avoid the researcher related and systematic bias and to save the time by increasing the time-saving processes. By having 3,273,600 single measurements, researchers should have time-saving tools such as RET-INAM program.

3.6.2. AUTOMATED FUNCTIONS OF RET-INAM

RET-INAM is a semi-automated program for now, which performs many functions. It can open a folder and select a desired name image file, open it, select a desired name ROI file, open it and make desired calculations. It can do it for every file in the folder no matter how much it is.

For the image file, it can give you the chance to select the grid of the desired scale in order researcher to perform the correct scale ROIs. For example, in our case, it is adjusted to give a grid selection in every 500 μm for the purpose of the researcher to be able to correctly draw the 6500 μm ROI for both retina and choroid (Figure 3.7.).

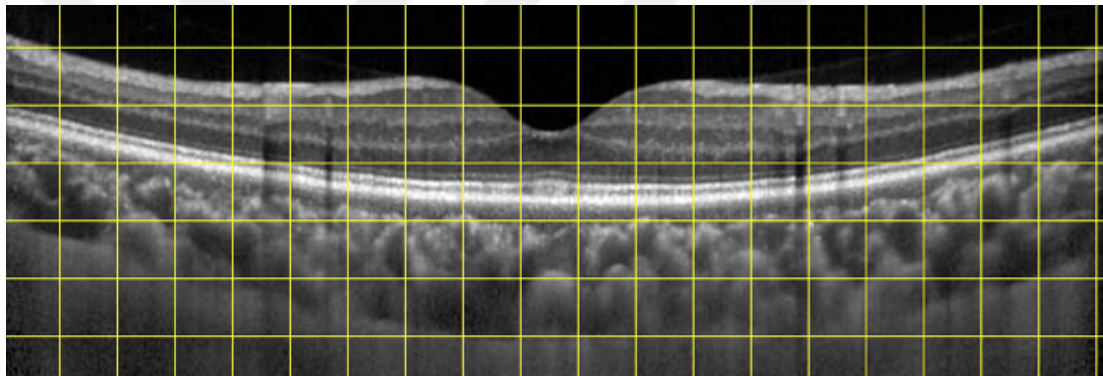


FIGURE 3.7. Grid Interval for ROI Measurements.

After grid selection, it allows and waits for the researcher to draw an ROI. After drawing ROI is completed, the researcher can select the sampling rate in the vertical and horizontal axis. In our case, we intended to divide the major ROI into vertically 65 horizontally 3 part.

It automatically divides the intended $65 \times 3 = 195$ parts and automatically starts to binarization process of the image (Figure 3.8.). After binarization completed, all ROIs were put into the calculation and it saves the results as the intended file name.

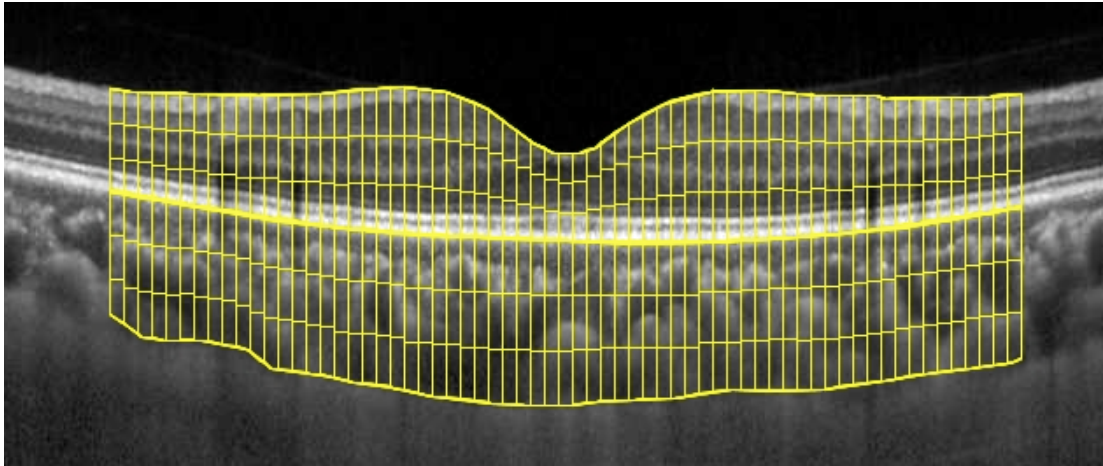


FIGURE 3.8. Automatic Properties of RET-INAM.

If a researcher has already performed the intended ROIs or the intended ROI is a standard, the program allows to perform all the measurements directly all files in a folder which is very time-saving.

In this manner, the non-automated piece of the program can be said as drawing the ROI part which can be developed in the future but for the purpose of this study, we think drawing ROI by the researcher is better. Nearly all other parts are automated by using the codes that we generated.

3.7. STATISTICAL ANALYSIS

Data obtained from the study was stored as a computer file. They are imported to the SPSS and statistical analyses were performed by SPSS 21.0 (IBM SPSS Statistics V21.0). Graphical demonstrations were illustrated by both using SPSS 21.0 (IBM SPSS Statistics V21.0) and Microsoft Excel (Microsoft Excel for Mac V16.11) programs.

Descriptive statistics were presented using number and percentage for qualitative variables and mean, standard deviation, minimum and maximum for quantitative variables.

Normality tests for the corresponding variable are performed via using the Shapiro Wilk normality test. For those which is found to be normally distributed, Student's t-test; for those which found to be abnormally distributed Mann-Whitney U test was used. p-value smaller than 0.05 was accepted as significant for all of the study.

For quantitative data, tables were created using row and column percentages. For qualitative data, tables were created using mean, standard deviation, minimum and maximum values for appropriate cells.

3.8. ETHICAL COMMITTEE APPROVAL

This work is approved by Hacettepe University Medical Faculty, Non-Invasive Clinical Research Ethics Committee with 11.07.2017 dated and GO 17-670 numbered decision.

No resources have been sought for the study and no support has been received. There are no conflicts of interest related to the study.

4. RESULTS

4.1. DEMOGRAPHIC AND GENERAL RESULTS

25 females and 25 males were enrolled in this study. Right and left eyes horizontal and vertical scans were investigated with a total of 200 OCT images for 32 parameters (Table 4.1.).

TABLE 4.1. Table of General Results of Healthy Cases.

Table of General Results of Healthy Cases	
Group	Value
Total Number of Subjects	50
Total Number of Eyes	100
Female to Male Ratio	1:1
Total Number of Vertical Scans	100
Total Number of Horizontal Scans	100
Total Number of OCT Scans	200
Total Number of Parameters	32

Female to male ratio is 1:1 as we conducted the study. Mean age at the examination was 40.28 ± 14.52 (16-62). Mean age for female is 40.71 ± 15.08 (17-61) and mean age for male is 39.86 ± 14.24 (16-62). There was no statistically significant difference between the female and male ages ($p=0.838$) (Table 4.2.).

TABLE 4.2. Table of Age Statistics of Healthy Cases.

Table of Age Statistics of Healthy Cases (p=0.838)	
Group	Value $\bar{x} \pm \sigma$ (min-max)
Total Mean Age (n=50) (Years)	40.28 $\pm$ 14.52 (16-62)
Female Mean Age (n=25) (Years)	40.71 $\pm$ 15.08 (17-61)
Male Mean Age (n=25) (Years)	39.86 $\pm$ 14.24 (16-62)

Inferior results are abbreviated as I, superior as S, nasal as N, temporal as T, vertical as V and horizontal as H. the remaining number part in the tables address the center of the region as 0 μm , 1000 μm or 3200 μm .

4.2. RETINAL RESULTS

Retinal results were gathered together under these headlines: retinal spot thickness, retinal mean thickness, retinal RFI, TRA, DRA, LRA, DAP, LAP, DLR, retinal mean, retinal standard deviation, retinal skewness, retinal kurtosis, retinal perimeter, retinal width, retinal height, retinal major, retinal minor, retinal angle, retinal integrated density, retinal raw integrated density, retinal feret, retinal minimum feret, retinal feret angle, retinal circularity, retinal aspect ratio, retinal roundness and retinal solidity.

4.2.1. RETINAL SPOT THICKNESS

Retinal spot thickness is measured for both vertical and horizontal scans for 100 eyes. V 0 or central point is the thinnest point in vertical scans and the thickness is $225.6 \pm 24.1 \mu\text{m}$. S 1200 is the thickest point in vertical scans and the thickness is $364.6 \pm 18.7 \mu\text{m}$. H 0 or central point is the thinnest point in horizontal scans and the thickness is $226.8 \pm 22.1 \mu\text{m}$. N 1400 is the thickest point in horizontal scans and the thickness is $363.5 \pm 17.9 \mu\text{m}$. Thus combining horizontal and vertical scans together, the thinnest point is V 0 and the thickest point is S 1200. There is only 1.2 μm difference between the central points of vertical and horizontal scans which corresponds to each other (Table 4.3.) (Figure 4.1.).

TABLE 4.3. Table of Vertical and Horizontal Retinal Spot Thickness of Healthy Cases.

Table of Vertical and Horizontal Retinal Spot Thickness of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	274.2 $\pm$ 18.6	S 100	228.6 $\pm$ 24.6	N 3200	309.3 $\pm$ 23.7	T 100	228.9 $\pm$ 22.9
I 3100	276.4 $\pm$ 18.6	S 200	241.1 $\pm$ 28.1	N 3100	310.5 $\pm$ 23.5	T 200	237.9 $\pm$ 25.1
I 3000	278.4 $\pm$ 18.9	S 300	260.5 $\pm$ 29.5	N 3000	311.8 $\pm$ 22.7	T 300	253.7 $\pm$ 26.6
I 2900	279.9 $\pm$ 19.3	S 400	283.0 $\pm$ 28.3	N 2900	313.1 $\pm$ 23.0	T 400	272.7 $\pm$ 26.0
I 2800	283.2 $\pm$ 19.7	S 500	304.7 $\pm$ 26.6	N 2800	315.3 $\pm$ 23.1	T 500	290.5 $\pm$ 23.8
I 2700	286.4 $\pm$ 19.7	S 600	323.1 $\pm$ 24.8	N 2700	318.2 $\pm$ 23.2	T 600	305.1 $\pm$ 22.0
I 2600	290.7 $\pm$ 20.2	S 700	337.5 $\pm$ 22.4	N 2600	321.7 $\pm$ 23.4	T 700	316.5 $\pm$ 20.2
I 2500	294.5 $\pm$ 20.7	S 800	348.9 $\pm$ 20.7	N 2500	325.2 $\pm$ 22.7	T 800	326.0 $\pm$ 18.7
I 2400	299.4 $\pm$ 21.0	S 900	356.6 $\pm$ 20.0	N 2400	329.6 $\pm$ 23.1	T 900	333.1 $\pm$ 18.4
I 2300	304.7 $\pm$ 20.6	S 1000	362.2 $\pm$ 19.2	N 2300	334.1 $\pm$ 22.9	T 1000	337.8 $\pm$ 18.1
I 2200	309.8 $\pm$ 21.4	S 1100	364.2 $\pm$ 18.6	N 2200	338.5 $\pm$ 22.8	T 1100	341.2 $\pm$ 17.6
I 2100	315.1 $\pm$ 21.7	S 1200	364.6 $\pm$ 18.7	N 2100	342.5 $\pm$ 21.8	T 1200	342.8 $\pm$ 17.7
I 2000	321.7 $\pm$ 21.7	S 1300	362.9 $\pm$ 18.8	N 2000	346.8 $\pm$ 21.5	T 1300	342.9 $\pm$ 17.4
I 1900	328.2 $\pm$ 21.7	S 1400	360.0 $\pm$ 19.4	N 1900	351.1 $\pm$ 20.8	T 1400	340.8 $\pm$ 17.6
I 1800	334.4 $\pm$ 21.3	S 1500	356.4 $\pm$ 19.7	N 1800	354.8 $\pm$ 20.1	T 1500	338.2 $\pm$ 18.3
I 1700	340.1 $\pm$ 21.6	S 1600	352.1 $\pm$ 20.0	N 1700	357.9 $\pm$ 19.1	T 1600	334.9 $\pm$ 18.4
I 1600	346.6 $\pm$ 21.5	S 1700	347.4 $\pm$ 19.9	N 1600	360.9 $\pm$ 18.9	T 1700	330.0 $\pm$ 18.9
I 1500	351.8 $\pm$ 21.4	S 1800	342.5 $\pm$ 20.3	N 1500	362.9 $\pm$ 17.8	T 1800	322.1 $\pm$ 37.6
I 1400	356.7 $\pm$ 20.5	S 1900	337.6 $\pm$ 20.1	N 1400	363.5 $\pm$ 17.9	T 1900	320.6 $\pm$ 19.0
I 1300	359.8 $\pm$ 19.9	S 2000	333.3 $\pm$ 20.2	N 1300	362.6 $\pm$ 17.6	T 2000	315.7 $\pm$ 19.6
I 1200	361.1 $\pm$ 19.8	S 2100	328.1 $\pm$ 20.4	N 1200	360.0 $\pm$ 17.9	T 2100	310.5 $\pm$ 19.7
I 1100	361.0 $\pm$ 19.7	S 2200	323.1 $\pm$ 21.1	N 1100	355.8 $\pm$ 18.9	T 2200	305.5 $\pm$ 19.2
I 1000	358.0 $\pm$ 20.0	S 2300	317.9 $\pm$ 20.5	N 1000	350.7 $\pm$ 19.9	T 2300	300.3 $\pm$ 19.2
I 900	352.7 $\pm$ 20.3	S 2400	313.8 $\pm$ 19.5	N 900	343.0 $\pm$ 21.3	T 2400	295.8 $\pm$ 19.4
I 800	344.3 $\pm$ 21.4	S 2500	310.2 $\pm$ 19.2	N 800	333.9 $\pm$ 22.7	T 2500	291.3 $\pm$ 19.0
I 700	333.8 $\pm$ 22.6	S 2600	306.3 $\pm$ 19.4	N 700	323.2 $\pm$ 24.4	T 2600	287.6 $\pm$ 18.7
I 600	319.8 $\pm$ 24.4	S 2700	302.2 $\pm$ 19.0	N 600	309.5 $\pm$ 27.0	T 2700	283.5 $\pm$ 19.1
I 500	303.1 $\pm$ 26.7	S 2800	299.5 $\pm$ 19.1	N 500	293.5 $\pm$ 29.0	T 2800	279.4 $\pm$ 18.6
I 400	282.5 $\pm$ 28.3	S 2900	296.9 $\pm$ 19.3	N 400	276.2 $\pm$ 30.3	T 2900	275.5 $\pm$ 18.4
I 300	260.7 $\pm$ 28.3	S 3000	294.2 $\pm$ 18.8	N 300	257.4 $\pm$ 29.2	T 3000	272.3 $\pm$ 18.3
I 200	241.1 $\pm$ 27.3	S 3100	291.6 $\pm$ 18.5	N 200	241.0 $\pm$ 26.7	T 3100	268.7 $\pm$ 17.9
I 100	228.4 $\pm$ 25.4	S 3200	287.8 $\pm$ 18.8	N 100	229.3 $\pm$ 23.6	T 3200	265.3 $\pm$ 18.5
V 0	225.6 $\pm$ 24.1			H 0	226.8 $\pm$ 22.1		

4.2.2. RETINAL MEAN THICKNESS

Retinal mean thickness is measured for both vertical and horizontal scans for 100 eyes. It is the mean thickness in an area of 100 μm width. V 0 or central region is the thinnest region in vertical scans and the thickness is $223.8 \pm 23.7 \mu\text{m}$. S 1200 is the thickest region in vertical scans and the thickness is $361.0 \pm 18.4 \mu\text{m}$. H 0 or central region is the thinnest region in horizontal scans and the thickness is $225.0 \pm 22.0 \mu\text{m}$.

N 1400 is the thickest region in horizontal scans and the thickness is $359.6 \pm 17.8 \mu\text{m}$. Thus combining horizontal and vertical scans together, the thinnest region is V 0 and the thickest region is S 1200. There is only $1.2 \mu\text{m}$ difference between the central regions of vertical and horizontal scans which corresponds to each other (Table 4.4.) (Figure 4.1.).

TABLE 4.4. Table of Vertical and Horizontal Retinal Mean Thickness of Healthy Cases.

Table of Vertical and Horizontal Retinal Mean Thickness of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	270.6 $\pm$ 19.3	S 100	225.5 $\pm$ 24.2	N 3200	306.2 $\pm$ 23.7	T 100	225.9 $\pm$ 22.4
I 3100	272.3 $\pm$ 18.9	S 200	234.8 $\pm$ 27.2	N 3100	307.0 $\pm$ 23.1	T 200	233.1 $\pm$ 24.4
I 3000	274.4 $\pm$ 19.1	S 300	253.0 $\pm$ 29.3	N 3000	308.0 $\pm$ 22.7	T 300	247.5 $\pm$ 26.0
I 2900	276.4 $\pm$ 19.6	S 400	274.9 $\pm$ 28.6	N 2900	309.6 $\pm$ 22.8	T 400	266.0 $\pm$ 25.9
I 2800	279.6 $\pm$ 19.8	S 500	296.7 $\pm$ 26.9	N 2800	311.8 $\pm$ 23.1	T 500	283.8 $\pm$ 24.1
I 2700	283.0 $\pm$ 19.8	S 600	316.0 $\pm$ 24.8	N 2700	314.4 $\pm$ 23.2	T 600	299.1 $\pm$ 22.2
I 2600	286.8 $\pm$ 20.3	S 700	331.1 $\pm$ 22.6	N 2600	317.8 $\pm$ 23.3	T 700	311.1 $\pm$ 20.1
I 2500	291.1 $\pm$ 20.6	S 800	342.8 $\pm$ 21.0	N 2500	321.3 $\pm$ 23.1	T 800	320.7 $\pm$ 18.9
I 2400	295.6 $\pm$ 20.6	S 900	351.2 $\pm$ 19.9	N 2400	325.4 $\pm$ 23.1	T 900	328.0 $\pm$ 18.2
I 2300	300.8 $\pm$ 20.2	S 1000	357.1 $\pm$ 19.3	N 2300	329.7 $\pm$ 22.8	T 1000	333.2 $\pm$ 17.9
I 2200	305.9 $\pm$ 20.9	S 1100	360.3 $\pm$ 18.6	N 2200	334.2 $\pm$ 22.4	T 1100	336.9 $\pm$ 17.5
I 2100	311.3 $\pm$ 21.4	S 1200	361.0 $\pm$ 18.4	N 2100	338.7 $\pm$ 21.9	T 1200	338.9 $\pm$ 17.3
I 2000	317.1 $\pm$ 21.4	S 1300	359.5 $\pm$ 18.8	N 2000	342.8 $\pm$ 21.5	T 1300	339.2 $\pm$ 17.4
I 1900	323.7 $\pm$ 21.5	S 1400	356.5 $\pm$ 19.4	N 1900	347.0 $\pm$ 20.9	T 1400	337.5 $\pm$ 17.8
I 1800	329.9 $\pm$ 21.3	S 1500	352.6 $\pm$ 19.7	N 1800	351.0 $\pm$ 20.2	T 1500	334.7 $\pm$ 18.3
I 1700	335.8 $\pm$ 21.5	S 1600	347.9 $\pm$ 20.0	N 1700	354.4 $\pm$ 19.2	T 1600	330.9 $\pm$ 18.5
I 1600	342.2 $\pm$ 21.5	S 1700	343.1 $\pm$ 19.9	N 1600	357.4 $\pm$ 18.7	T 1700	326.0 $\pm$ 18.8
I 1500	347.7 $\pm$ 21.3	S 1800	338.4 $\pm$ 20.0	N 1500	359.5 $\pm$ 17.8	T 1800	321.2 $\pm$ 18.7
I 1400	352.6 $\pm$ 20.6	S 1900	334.0 $\pm$ 19.9	N 1400	359.6 $\pm$ 17.8	T 1900	316.7 $\pm$ 18.8
I 1300	356.0 $\pm$ 20.1	S 2000	329.4 $\pm$ 20.0	N 1300	358.3 $\pm$ 18.0	T 2000	311.5 $\pm$ 19.2
I 1200	357.6 $\pm$ 19.7	S 2100	324.5 $\pm$ 20.3	N 1200	355.5 $\pm$ 18.3	T 2100	306.4 $\pm$ 19.3
I 1100	356.8 $\pm$ 19.5	S 2200	319.6 $\pm$ 20.6	N 1100	351.3 $\pm$ 19.0	T 2200	301.6 $\pm$ 19.0
I 1000	353.7 $\pm$ 19.9	S 2300	314.9 $\pm$ 19.9	N 1000	345.6 $\pm$ 20.0	T 2300	296.7 $\pm$ 19.0
I 900	348.2 $\pm$ 20.4	S 2400	310.6 $\pm$ 19.4	N 900	337.7 $\pm$ 21.2	T 2400	292.0 $\pm$ 18.9
I 800	339.9 $\pm$ 21.4	S 2500	306.6 $\pm$ 19.3	N 800	328.4 $\pm$ 22.8	T 2500	287.5 $\pm$ 18.7
I 700	328.7 $\pm$ 22.8	S 2600	303.0 $\pm$ 19.4	N 700	317.3 $\pm$ 24.6	T 2600	283.3 $\pm$ 18.5
I 600	314.5 $\pm$ 24.7	S 2700	299.3 $\pm$ 19.4	N 600	303.6 $\pm$ 27.0	T 2700	279.4 $\pm$ 18.6
I 500	297.3 $\pm$ 26.7	S 2800	296.2 $\pm$ 19.4	N 500	287.4 $\pm$ 29.2	T 2800	275.5 $\pm$ 18.3
I 400	277.0 $\pm$ 28.3	S 2900	293.8 $\pm$ 19.2	N 400	269.6 $\pm$ 30.3	T 2900	271.8 $\pm$ 18.2
I 300	255.1 $\pm$ 28.3	S 3000	290.8 $\pm$ 18.7	N 300	251.2 $\pm$ 28.7	T 3000	268.4 $\pm$ 18.2
I 200	236.5 $\pm$ 27.0	S 3100	288.0 $\pm$ 18.9	N 200	235.6 $\pm$ 25.7	T 3100	265.1 $\pm$ 18.1
I 100	225.3 $\pm$ 25.1	S 3200	285.3 $\pm$ 18.9	N 100	226.1 $\pm$ 23.2	T 3200	262.3 $\pm$ 18.4
V 0	223.8 $\pm$ 23.7			H 0	225.0 $\pm$ 22.0		

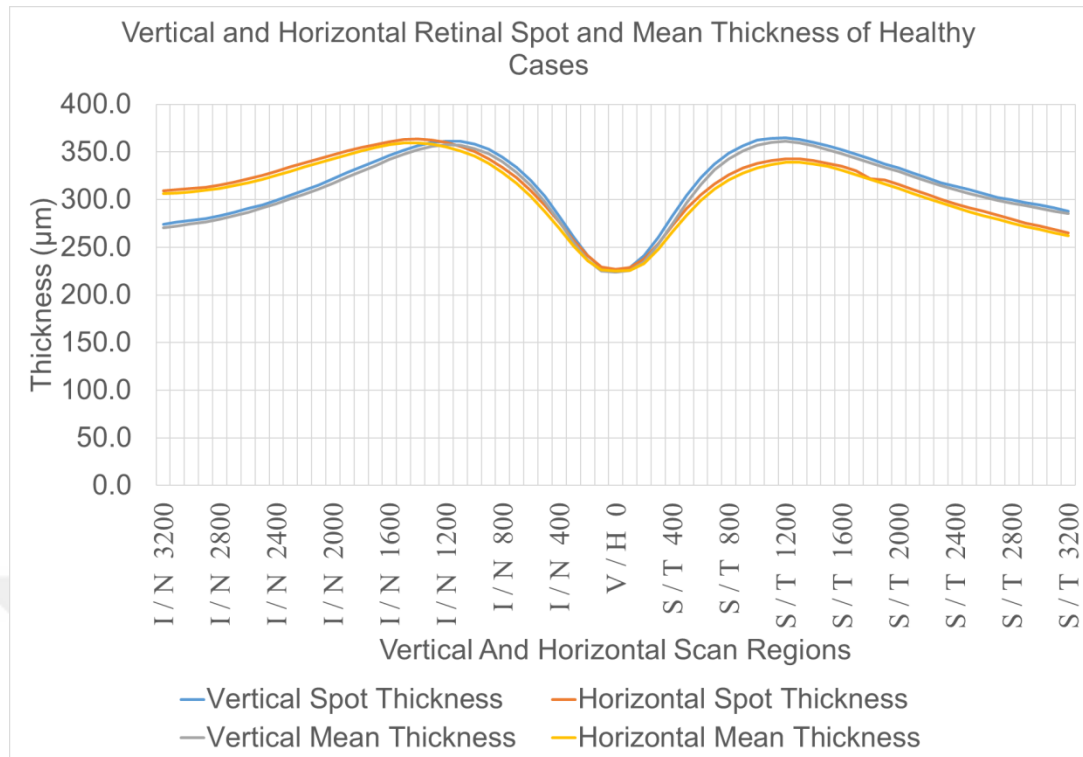


FIGURE 4.1. Vertical and Horizontal Retinal Spot and Mean Thickness of Healthy Cases.

4.2.3. RETINAL RFI

Retinal RFI is measured for both vertical and horizontal scans for 100 eyes. S 300 is the lowest value total region in vertical scans and the value is 0.942 ± 0.013 . V 0 is the highest value total region in vertical scans and the value is 0.988 ± 0.011 . S 300 is the lowest value inner region in vertical scans and the value is 0.832 ± 0.041 . I 100 is the highest value inner region in vertical scans and the value is 0.971 ± 0.028 . All the values in the middle region are 1.0 because of the all of the borders of the ROI defined by the computer. I 2700 is the lowest value outer region in vertical scans and the value is 0.982 ± 0.020 . S 500 is the highest value outer region in vertical scans and the value is 0.998 ± 0.006 . Thus combining total, inner, middle and outer vertical scan values together, lowest value region is inner S 300 and highest value region except middle regions is outer S 500 (Table S.1.) (Figure 4.2.).

T 300 is the lowest value total region in horizontal scans and the value is 0.950 ± 0.014 . H 0 is the highest value total region in horizontal scans and the value is 0.989 ± 0.010 . T 300 is the lowest value inner region in horizontal scans and the value is 0.853 ± 0.039 . N 100 is the highest value inner region in horizontal scans and the value is 0.972 ± 0.027 . All the values in the middle region are 1.0 because of the all of the borders of the ROI defined by the computer. T 3100 is the lowest value outer region in horizontal scans and the value is 0.985 ± 0.017 . T 600 is the highest value outer region in horizontal scans and the value is 0.999 ± 0.005 . Thus combining total, inner, middle and outer horizontal scan values together, lowest value region is inner T 300 and highest value region except middle regions is outer T 600 (Table S.2.) (Figure 4.2.). The mean vertical and horizontal values of all regions can be seen in Table 4.5.

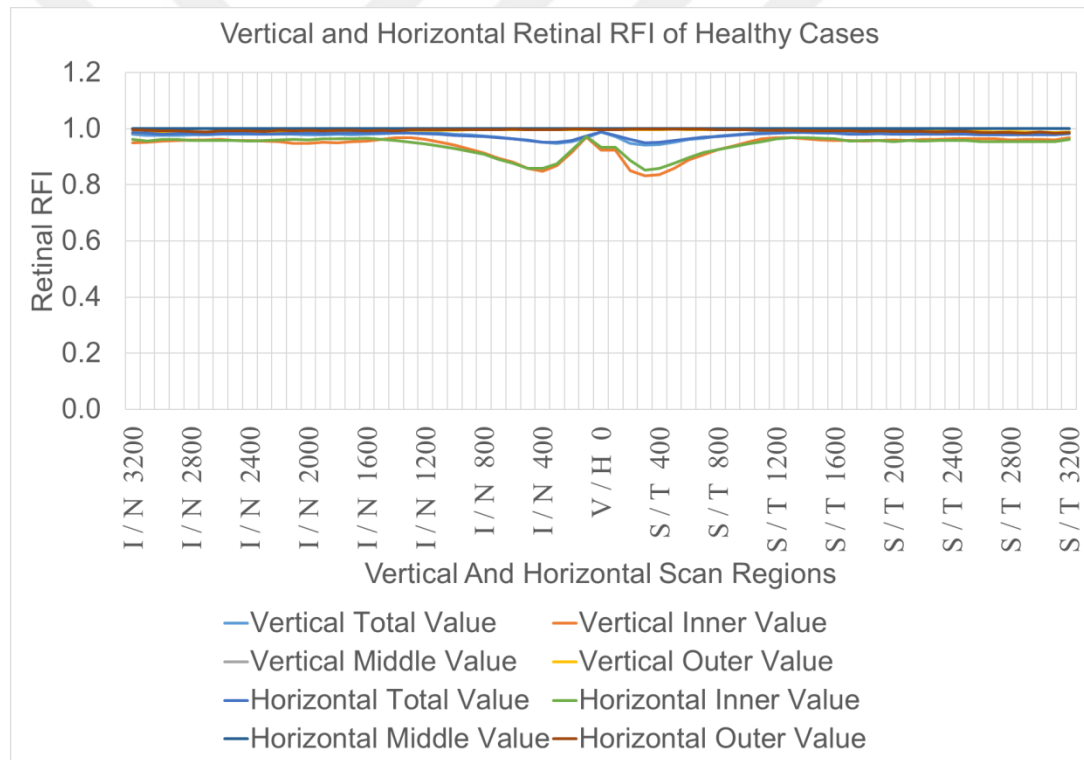


FIGURE 4.2. Vertical and Horizontal Retinal RFI of Healthy Cases.

TABLE 4.5. Table of Entire ROI Vertical and Horizontal Retinal RFI of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal RFI of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.777 $\pm$ 0.064	0.771 $\pm$ 0.066
Entire Inner Part (n=100)	0.419 $\pm$ 0.054	0.415 $\pm$ 0.055
Entire Middle Part (n=100)	0.517 $\pm$ 0.083	0.516 $\pm$ 0.079
Entire Outer Part (n=100)	0.574 $\pm$ 0.118	0.583 $\pm$ 0.113

4.2.4. TRA

TRA is measured for both vertical and horizontal scans for 100 eyes. V 0 is the lowest value total region in vertical scans and the value is $22379.4 \pm 2365.2 \mu\text{m}^2$. S 1200 is the highest value total region in vertical scans and the value is $36095.1 \pm 1844.9 \mu\text{m}^2$. S 200 is the lowest value inner region in vertical scans and the value is $7029.9 \pm 864.3 \mu\text{m}^2$. S 1200 is the highest value inner region in vertical scans and the value is $11808.8 \pm 647.5 \mu\text{m}^2$. V 0 is the lowest value middle region in vertical scans and the value is $7572.5 \pm 894.8 \mu\text{m}^2$. S 1200 is the highest value middle region in vertical scans and the value is $12180.4 \pm 610.1 \mu\text{m}^2$. V 0 is the lowest value outer region in vertical scans and the value is $7434.8 \pm 981.7 \mu\text{m}^2$. S 1100 is the highest value outer region in vertical scans and the value is $12019.1 \pm 628.5 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 3200 and highest value region is the middle S 1200 (Table S.3.) (Figure 4.3.).

H 0 is the lowest value total region in horizontal scans and the value is $22501.5 \pm 2198.2 \mu\text{m}^2$. N 1400 is the highest value total region in horizontal scans and the value is $35958.8 \pm 1777.7 \mu\text{m}^2$. N 200 is the lowest value inner region in horizontal scans and the value is $7129.4 \pm 757.2 \mu\text{m}^2$. N 1600 is the highest value inner region in horizontal scans and the value is $11741.2 \pm 650.6 \mu\text{m}^2$. H 0 is the lowest value middle region in horizontal scans and the value is $7580.4 \pm 772.4 \mu\text{m}^2$. N 1400 is the highest value middle region in horizontal scans and the value is $12176.5 \pm 593.5 \mu\text{m}^2$. H 0 is the lowest value outer region in horizontal scans and the value is $7435.8 \pm 744.4 \mu\text{m}^2$. N 1400 is the highest value outer region in horizontal scans and the value is 11970.1

$\pm 606 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner N 300 and highest value region is the middle N 1400 (Table S.4.) (Figure 4.3.). The mean vertical and horizontal values of all regions can be seen in Table 4.6.

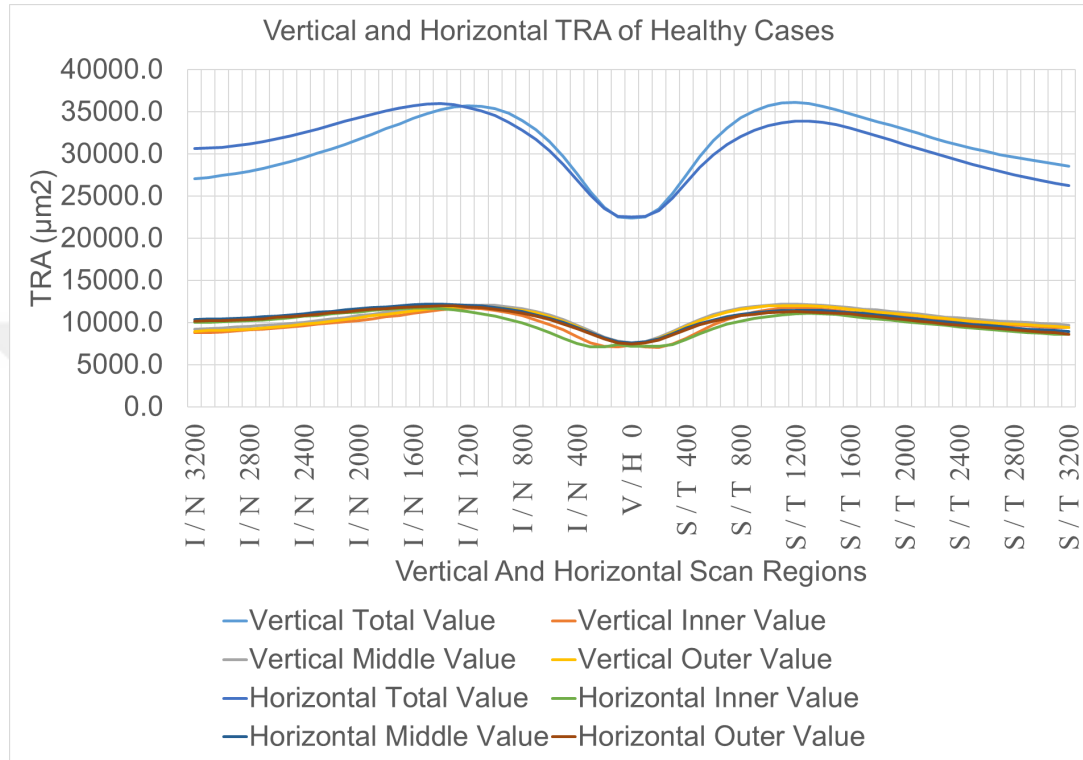


FIGURE 4.3. Vertical and Horizontal TRA of Healthy Cases.

TABLE 4.6. Table of Entire Vertical and Horizontal TRA of Healthy Cases.

Table of Entire Vertical and Horizontal TRA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	2016004.9 $\pm$ 115693.8	2002003.9 $\pm$ 112419.9
Entire Inner Part (n=100)	647759.3 $\pm$ 37952.9	643487.7 $\pm$ 37071.9
Entire Middle Part (n=100)	688058.8 $\pm$ 38574.9	682552.9 $\pm$ 37745.2
Entire Outer Part (n=100)	674629.4 $\pm$ 39178.4	669556.4 $\pm$ 37727.4

4.2.5. DRA

DRA is measured for both vertical and horizontal scans for 100 eyes. V 0 is the lowest value total region in vertical scans and the value is $13731.4 \pm 1688.9 \mu\text{m}^2$. S 1100 is the highest value total region in vertical scans and the value is $19997.5 \pm 1579.6 \mu\text{m}^2$. S 400 is the lowest value inner region in vertical scans and the value is $2202.9 \pm 839.4 \mu\text{m}^2$. I 1200 is the highest value inner region in vertical scans and the value is $5789.2 \pm 931.6 \mu\text{m}^2$. V 0 is the lowest value middle region in vertical scans and the value is $6128.4 \pm 947.1 \mu\text{m}^2$. I 300 is the highest value middle region in vertical scans and the value is $8106.9 \pm 818 \mu\text{m}^2$. S 100 is the lowest value outer region in vertical scans and the value is $2941.2 \pm 852.7 \mu\text{m}^2$. S 1100 is the highest value outer region in vertical scans and the value is $6780.4 \pm 794.3 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 400 and highest value region is the middle S 300 (Table S.5.) (Figure 4.4.).

T 3200 is the lowest value total region in horizontal scans and the value is $12789.7 \pm 1967.4 \mu\text{m}^2$. N 1400 is the highest value total region in horizontal scans and the value is $19977.5 \pm 1566.1 \mu\text{m}^2$. T 400 is the lowest value inner region in horizontal scans and the value is $1915.7 \pm 792.7 \mu\text{m}^2$. N 1600 is the highest value inner region in horizontal scans and the value is $5897.1 \pm 754.5 \mu\text{m}^2$. N 2900 is the lowest value middle region in horizontal scans and the value is $5997.5 \pm 829.2 \mu\text{m}^2$. N 1100 is the highest value middle region in horizontal scans and the value is $8095.6 \pm 1010.2 \mu\text{m}^2$. T 100 is the lowest value outer region in horizontal scans and the value is $2772.5 \pm 780.2 \mu\text{m}^2$. N 1300 is the highest value outer region in horizontal scans and the value is $6483.3 \pm 831.9 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 400 and highest value region is the middle T 400 (Table S.6.) (Figure 4.4.). The mean vertical and horizontal values of all regions can be seen in Table 4.7.

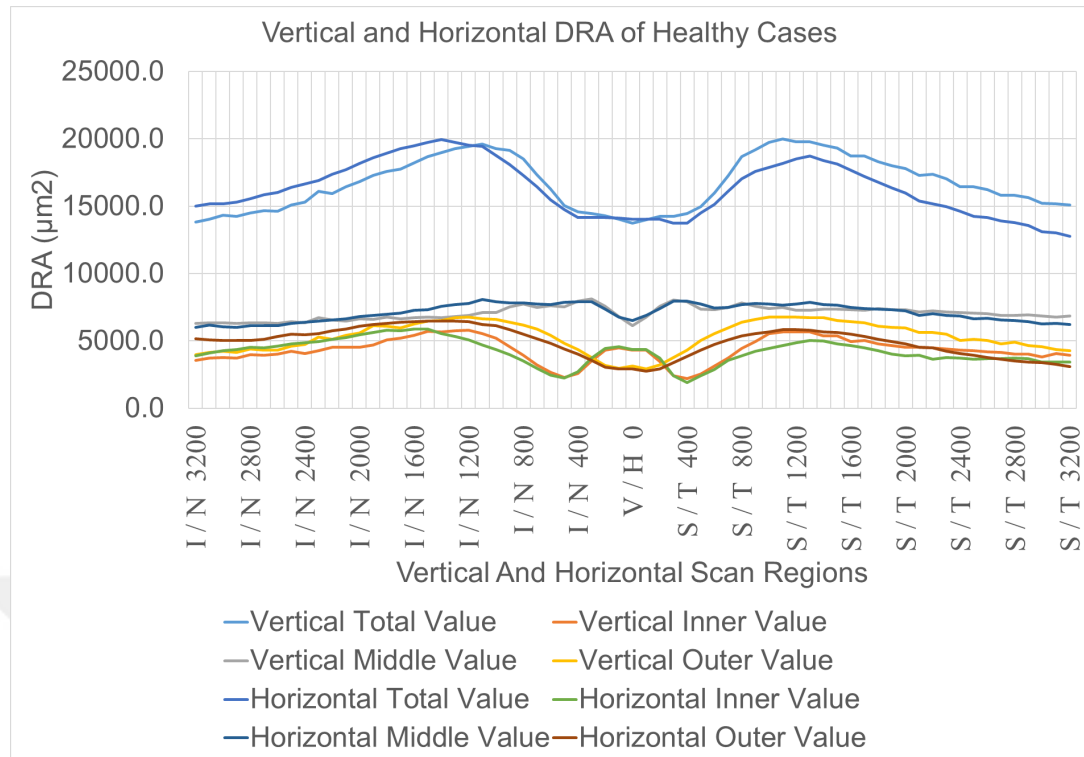


FIGURE 4.4. Vertical and Horizontal DRA of Healthy Cases.

TABLE 4.7. Table of Entire ROI Vertical and Horizontal DRA of Healthy Cases.

Table of Entire ROI Vertical and Horizontal DRA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1089984.3 $\pm$ 79969.3	1058422.1 $\pm$ 86939.2
Entire Inner Part (n=100)	280774.5 $\pm$ 19988.0	272571.6 $\pm$ 28985.4
Entire Middle Part (n=100)	459070.1 $\pm$ 34254.0	462889.2 $\pm$ 34000.5
Entire Outer Part (n=100)	345291.7 $\pm$ 45715.0	319636.8 $\pm$ 43134.8

4.2.6. LRA

LRA is measured for both vertical and horizontal scans for 100 eyes. I 100 is the lowest value total region in vertical scans and the value is $8467.2 \pm 1408.5 \mu\text{m}^2$. I 1300 is the highest value total region in vertical scans and the value is $16333.3 \pm 1327.5 \mu\text{m}^2$. I 200 is the lowest value inner region in vertical scans and the value is $2752 \pm 1105.9 \mu\text{m}^2$. S 700 is the highest value inner region in vertical scans and the value is $6624 \pm 827.6 \mu\text{m}^2$. S 200 is the lowest value middle region in vertical scans and the value is $705.9 \pm 704 \mu\text{m}^2$. I 1400 is the highest value middle region in vertical

scans and the value is $5172.5 \pm 1021.7 \mu\text{m}^2$. V 0 is the lowest value outer region in vertical scans and the value is $4302.5 \pm 569.7 \mu\text{m}^2$. I 500 is the highest value outer region in vertical scans and the value is $5305.4 \pm 539.3 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 700 (Table S.7.) (Figure 4.5.).

N 100 is the lowest value total region in horizontal scans and the value is $8471.1 \pm 1687.6 \mu\text{m}^2$. N 1600 is the highest value total region in horizontal scans and the value is $16225 \pm 1280.2 \mu\text{m}^2$. N 200 is the lowest value inner region in horizontal scans and the value is $2685.8 \pm 1086.5 \mu\text{m}^2$. N 700 is the highest value inner region in horizontal scans and the value is $6430.9 \pm 651.6 \mu\text{m}^2$. T 200 is the lowest value middle region in horizontal scans and the value is $700.0 \pm 788.5 \mu\text{m}^2$. N 1700 is the highest value middle region in horizontal scans and the value is $4925 \pm 913.1 \mu\text{m}^2$. H 0 is the lowest value outer region in horizontal scans and the value is $4504.4 \pm 562.7 \mu\text{m}^2$. T 2100 is the highest value outer region in horizontal scans and the value is $5639.2 \pm 525.7 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region is the inner N 900 (Table S.8.) (Figure 4.5.). The mean vertical and horizontal values of all regions can be seen in Table 4.8.

TABLE 4.8. Table of Entire ROI Vertical and Horizontal LRA of Healthy Cases.

Table of Entire ROI Vertical and Horizontal LRA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	926020.6 $\pm$ 50301.1	943581.9 $\pm$ 48685.2
Entire Inner Part (n=100)	366984.8 $\pm$ 23432.3	370916.2 $\pm$ 23551.3
Entire Middle Part (n=100)	228988.7 $\pm$ 32443.5	219663.7 $\pm$ 28901.1
Entire Outer Part (n=100)	329337.7 $\pm$ 27227.8	349919.6 $\pm$ 25438.9

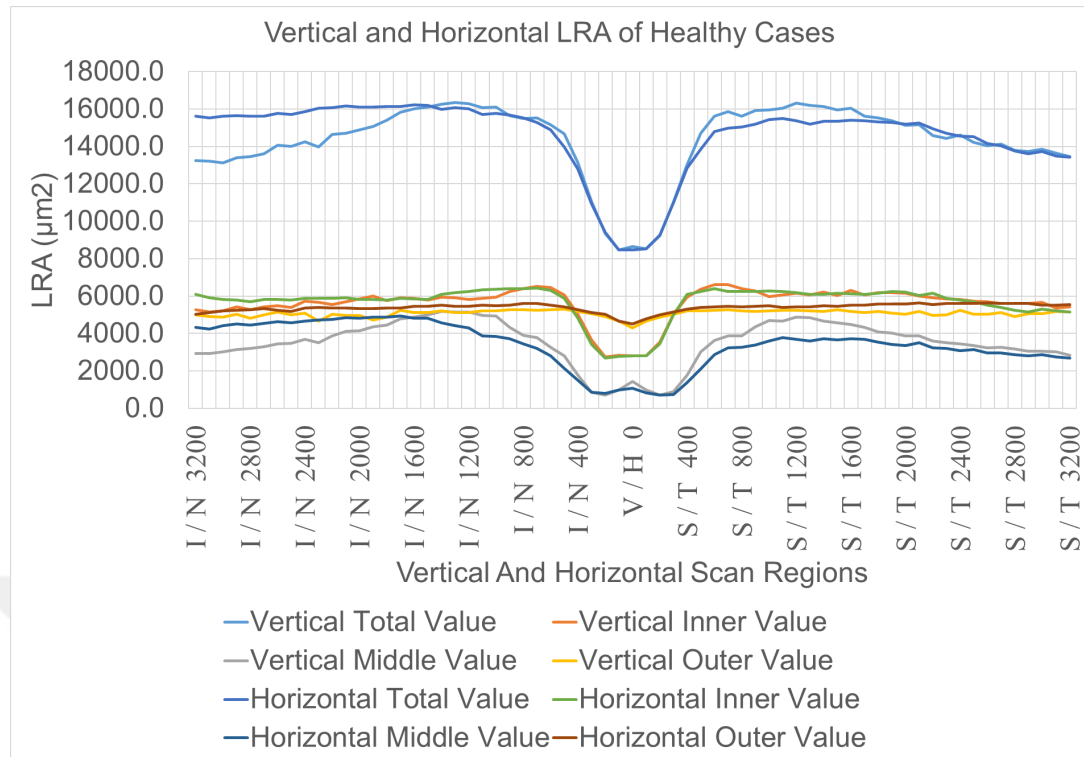


FIGURE 4.5. Vertical and Horizontal LRA of Healthy Cases.

4.2.7. DAP

DAP is measured for both vertical and horizontal scans for 100 eyes. S 500 is the lowest value total region in vertical scans and the value is 50.3 ± 4.1 %. I 100 is the highest value total region in vertical scans and the value is 62.4 ± 4.2 %. S 400 is the lowest value inner region in vertical scans and the value is 26.5 ± 7.8 %. I 200 is the highest value inner region in vertical scans and the value is 61.7 ± 12 %. I 1400 is the lowest value middle region in vertical scans and the value is 56.6 ± 8.1 %. S 200 is the highest value middle region in vertical scans and the value is 91.9 ± 7.2 %. I 100 is the lowest value outer region in vertical scans and the value is 38.2 ± 8.5 %. I 1200 is the highest value outer region in vertical scans and the value is 56.9 ± 5.6 %. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 400 and highest value region is the middle S 200 (Table S.9.) (Figure 4.6.).

T 3200 is the lowest value total region in horizontal scans and the value is $48.6 \pm 5.5\%$. N 100 is the highest value total region in horizontal scans and the value is $62.7 \pm 4.9\%$. T 400 is the lowest value inner region in horizontal scans and the value is $23.6 \pm 8.5\%$. N 200 is the highest value inner region in horizontal scans and the value is $62.8 \pm 11.9\%$. N 2600 is the lowest value middle region in horizontal scans and the value is $57 \pm 8.2\%$. T 200 is the highest value middle region in horizontal scans and the value is $91.7 \pm 8.8\%$. T 3200 is the lowest value outer region in horizontal scans and the value is $35.4 \pm 7.4\%$. N 1700 is the highest value outer region in horizontal scans and the value is $54.3 \pm 5.8\%$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 400 and highest value region is the middle T 200 (Table S.10.) (Figure 4.6.). The mean vertical and horizontal values of all regions can be seen in Table 4.9.

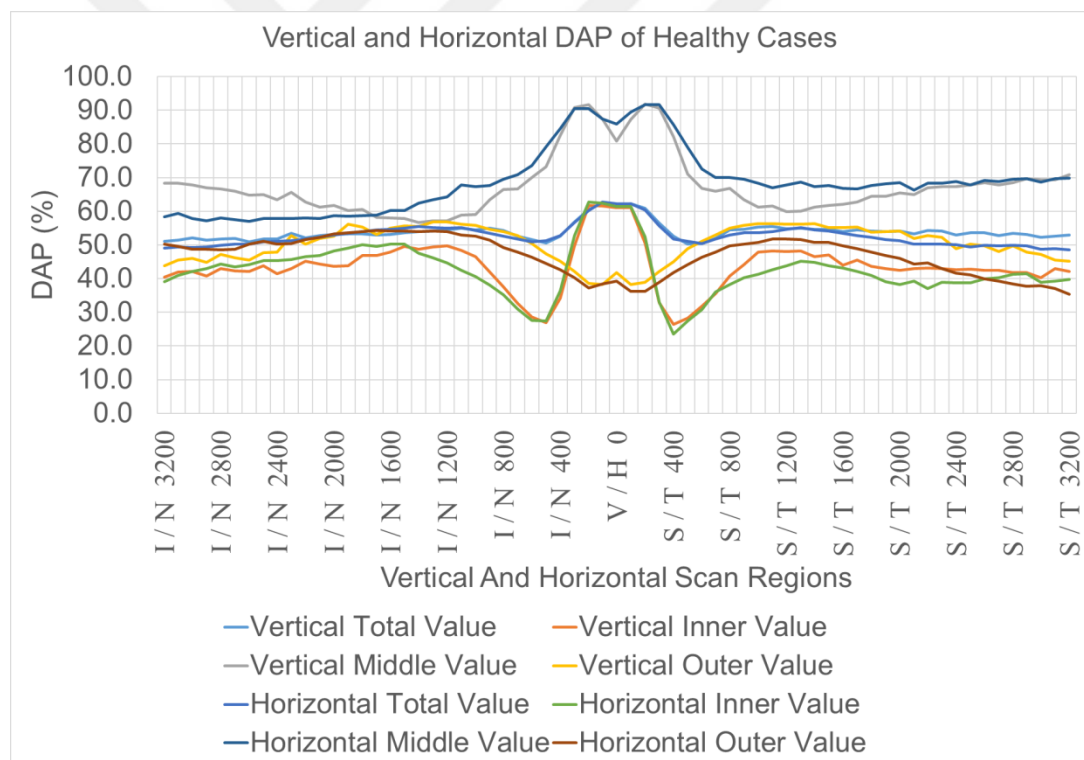


FIGURE 4.6. Vertical and Horizontal DAP of Healthy Cases.

TABLE 4.9. Table of Entire ROI Vertical and Horizontal DAP of Healthy Cases.

Table of Entire ROI Vertical and Horizontal DAP of Healthy Cases (%)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	54.0$\pm$1.5	52.8$\pm$2.0
Entire Inner Part (n=100)	43.3$\pm$1.6	42.3$\pm$3.1
Entire Middle Part (n=100)	66.8$\pm$4.0	67.8$\pm$3.6
Entire Outer Part (n=100)	51.0$\pm$4.7	47.6$\pm$4.5

4.2.8. LAP

LAP is measured for both vertical and horizontal scans for 100 eyes. I 100 is the lowest value total region in vertical scans and the value is 37.6 ± 4.2 %. S 500 is the highest value total region in vertical scans and the value is 49.7 ± 4.1 %. I 200 is the lowest value inner region in vertical scans and the value is 38.3 ± 12 %. S 400 is the highest value inner region in vertical scans and the value is 73.5 ± 7.8 %. S 200 is the lowest value middle region in vertical scans and the value is 8.1 ± 7.2 %. I 1400 is the highest value middle region in vertical scans and the value is 43.4 ± 8.1 %. I 1200 is the lowest value outer region in vertical scans and the value is 43.1 ± 5.6 %. I 100 is the highest value outer region in vertical scans and the value is 61.8 ± 8.5 %. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 400 (Table S.11.) (Figure 4.7.).

N 100 is the lowest value total region in horizontal scans and the value is 37.3 ± 4.9 %. T 3200 is the highest value total region in horizontal scans and the value is 51.4 ± 5.5 %. N 200 is the lowest value inner region in horizontal scans and the value is 37.2 ± 11.9 %. T 400 is the highest value inner region in horizontal scans and the value is 76.4 ± 8.5 %. T 200 is the lowest value middle region in horizontal scans and the value is 8.3 ± 8.8 %. N 2600 is the highest value middle region in horizontal scans and the value is 43 ± 8.2 %. N 1700 is the lowest value outer region in horizontal scans and the value is 45.7 ± 5.8 %. T 3200 is the highest value outer region in horizontal scans and the value is 64.6 ± 7.4 %. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region

is the inner T 400 (Table S.12.) (Figure 4.7.). The mean vertical and horizontal values of all regions can be seen in Table 4.10.

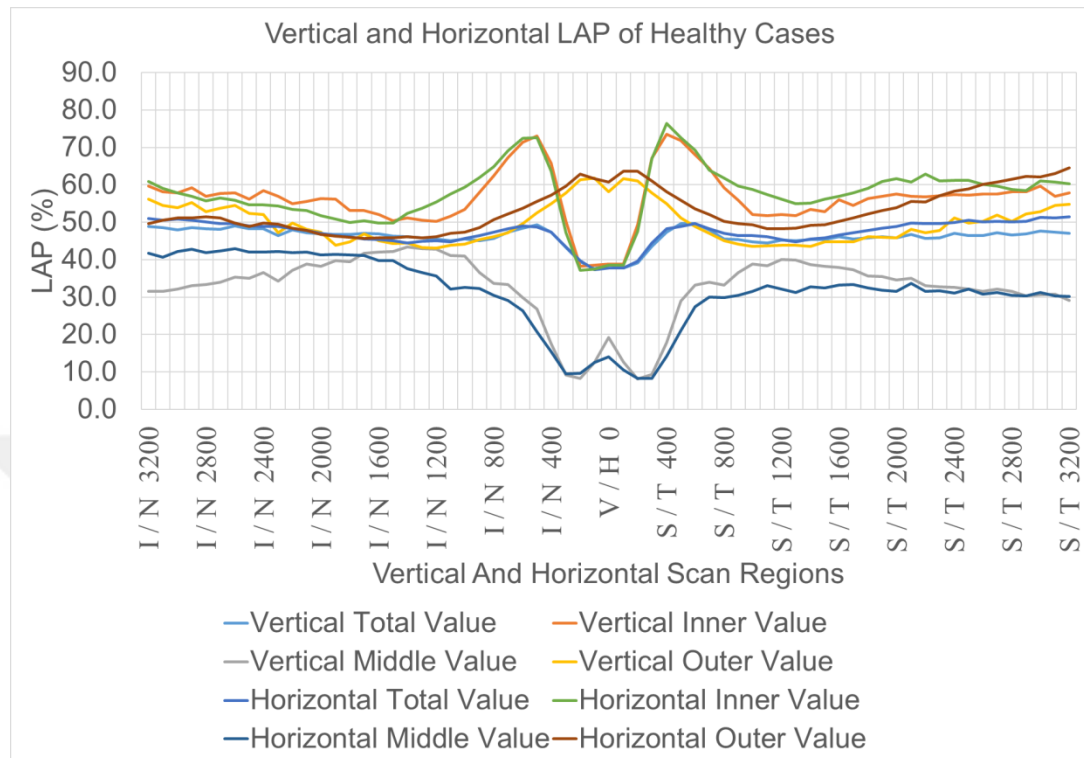


FIGURE 4.7. Vertical and Horizontal LAP of Healthy Cases.

TABLE 4.10. Table of Entire ROI Vertical and Horizontal LAP of Healthy Cases.

Table of Entire ROI Vertical and Horizontal LAP of Healthy Cases (%)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	46.0±1.5	47.2±2.0
Entire Inner Part (n=100)	56.7±1.6	57.7±3.1
Entire Middle Part (n=100)	33.2±4.0	32.2±3.6
Entire Outer Part (n=100)	49.0±4.7	52.4±4.5

4.2.9. DLR

DLR is measured for both vertical and horizontal scans for 100 eyes. S 500 is the lowest value total region in vertical scans and the value is 1.03 ± 0.16 . I 100 is the highest value total region in vertical scans and the value is 1.69 ± 0.28 . S 400 is the lowest value inner region in vertical scans and the value is 0.38 ± 0.16 . I 200 is the highest value inner region in vertical scans and the value is 1.85 ± 0.8 . I 1200 is the lowest value middle region in vertical scans and the value is 1.44 ± 0.55 . S 200 is the highest value middle region in vertical scans and the value is 26.09 ± 37.25 . S 100 is the lowest value outer region in vertical scans and the value is 0.64 ± 0.21 . I 1900 is the highest value outer region in vertical scans and the value is 1.78 ± 2.71 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 400 and highest value region is the middle S 200 (Table S.13.) (Figure 4.8.).

N 3200 is the lowest value total region in horizontal scans and the value is 0.97 ± 0.17 . N 100 is the highest value total region in horizontal scans and the value is 1.72 ± 0.31 . T 400 is the lowest value inner region in horizontal scans and the value is 0.33 ± 0.16 . N 200 is the highest value inner region in horizontal scans and the value is 1.94 ± 0.85 . N 2900 is the lowest value middle region in horizontal scans and the value is 1.41 ± 0.45 . T 300 is the highest value middle region in horizontal scans and the value is 25.74 ± 35.05 . T 3200 is the lowest value outer region in horizontal scans and the value is 0.57 ± 0.19 . N 1700 is the highest value outer region in horizontal scans and the value is 1.24 ± 0.39 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 400 and highest value region is the middle T 300 (Table S.14.) (Figure 4.8.). The mean vertical and horizontal values of all regions can be seen in Table 4.11.

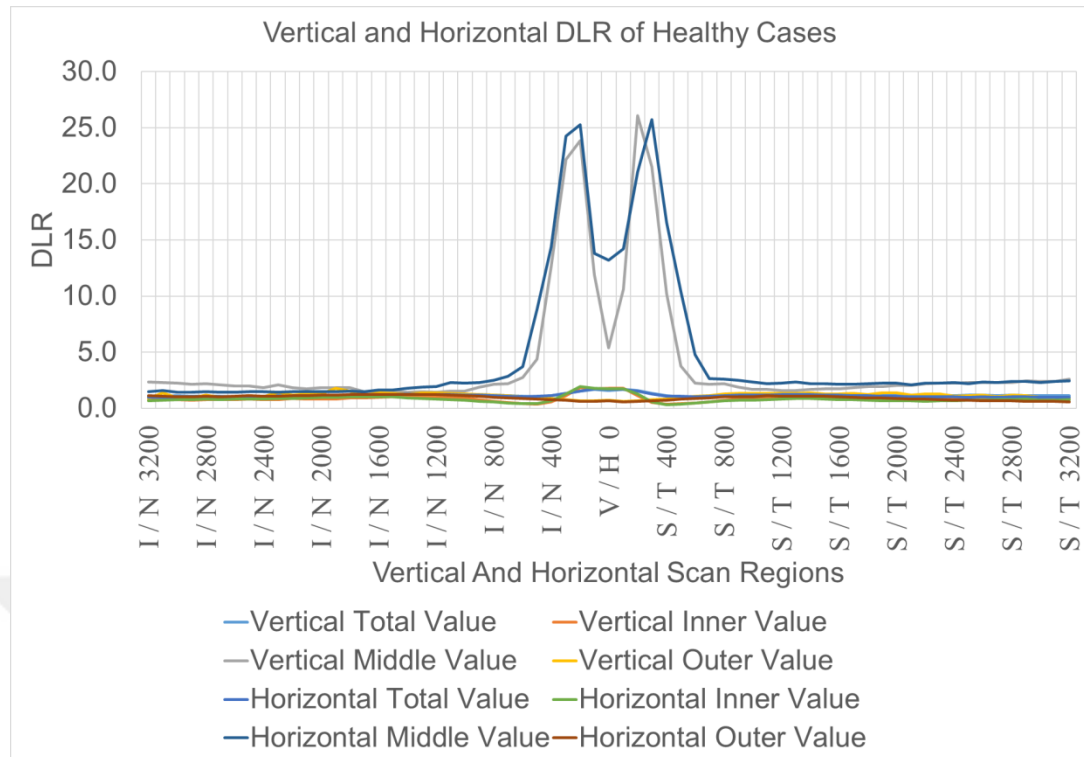


FIGURE 4.8. Vertical and Horizontal DLR of Healthy Cases.

TABLE 4.11. Table of Entire ROI Vertical and Horizontal DLR of Healthy Cases.

Table of Entire ROI Vertical and Horizontal DLR of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1.18±0.07	1.12±0.09
Entire Inner Part (n=100)	0.77±0.05	0.74±0.09
Entire Middle Part (n=100)	2.05±0.35	2.15±0.33
Entire Outer Part (n=100)	1.07±0.24	0.92±0.19

4.2.10. RETINAL MEAN

Retinal mean is measured for both vertical and horizontal scans for 100 eyes. I 100 is the lowest value total region in vertical scans and the value is 95.8 ± 10.7 PV. S 500 is the highest value total region in vertical scans and the value is 126.7 ± 10.4 PV. I 100 is the lowest value inner region in vertical scans and the value is 97.6 ± 30.6 PV. S 400 is the highest value inner region in vertical scans and the value is 187.4 ± 19.8 PV. S 200 is the lowest value middle region in vertical scans and the value is 20.8 ± 18.4 PV. I 1400 is the highest value middle region in vertical scans and the value is

110.6 ± 20.6 PV. I 1200 is the lowest value outer region in vertical scans and the value is 109.9 ± 14.3 PV. I 100 is the highest value outer region in vertical scans and the value is 157.6 ± 21.8 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 400 (Table S.15.) (Figure 4.9.).

N 100 is the lowest value total region in horizontal scans and the value is 95.2 ± 12.4 PV. T 3200 is the highest value total region in horizontal scans and the value is 131 ± 13.9 PV. N 200 is the lowest value inner region in horizontal scans and the value is 94.8 ± 30.2 PV. T 400 is the highest value inner region in horizontal scans and the value is 194.8 ± 21.7 PV. T 300 is the lowest value middle region in horizontal scans and the value is 21.1 ± 21.7 PV. N 2600 is the highest value middle region in horizontal scans and the value is 109.6 ± 20.9 PV. N 1700 is the lowest value outer region in horizontal scans and the value is 116.4 ± 14.8 PV. T 3200 is the highest value outer region in horizontal scans and the value is 164.7 ± 19 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 300 and highest value region is the inner T 400 (Table S.16.) (Figure 4.9.). The mean vertical and horizontal values of all regions can be seen in Table 4.12.

TABLE 4.12. Table of Entire ROI Vertical and Horizontal Retinal Mean of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Mean of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	117.2 $\pm$ 3.9	120.3 $\pm$ 5.2
Entire Inner Part (n=100)	144.5 $\pm$ 4.0	147.1 $\pm$ 7.8
Entire Middle Part (n=100)	84.8 $\pm$ 10.2	82.0 $\pm$ 9.3
Entire Outer Part (n=100)	124.8 $\pm$ 11.9	133.6 $\pm$ 11.5

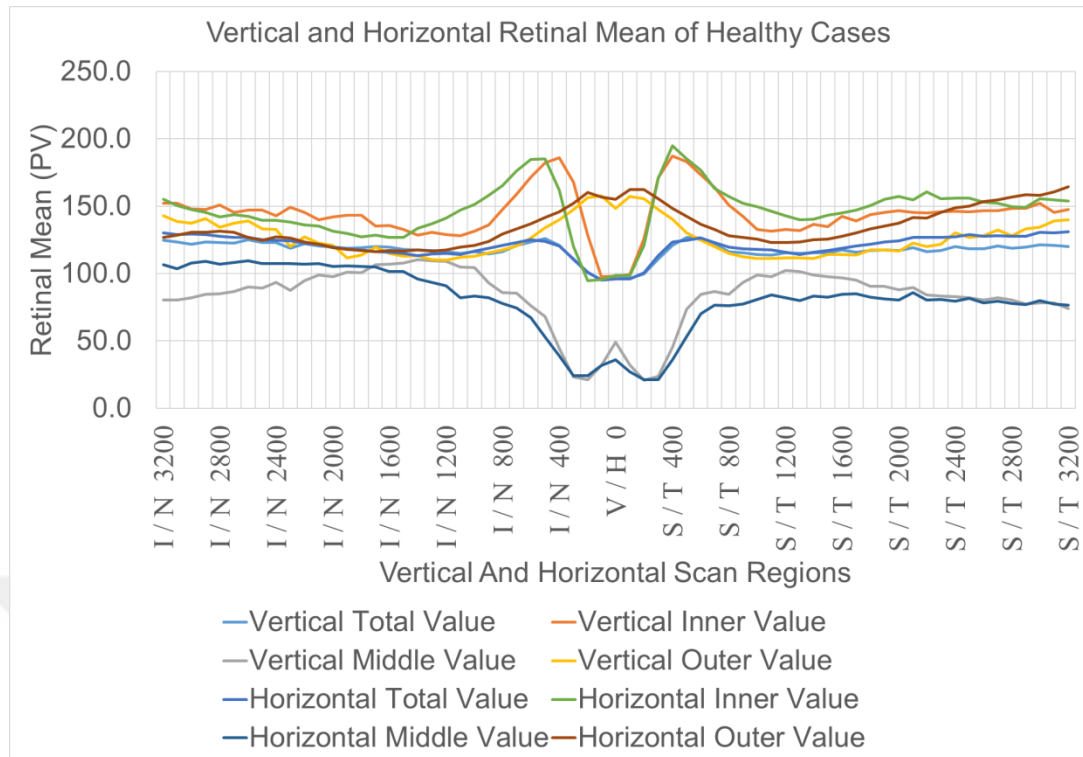


FIGURE 4.9. Vertical and Horizontal Retinal Mean of Healthy Cases.

4.2.11. RETINAL STANDARD DEVIATION

Retinal standard deviation is measured for both vertical and horizontal scans for 100 eyes. I 100 is the lowest value total region in vertical scans and the value is 123.1 ± 2.4 PV. I 2600 is the highest value total region in vertical scans and the value is 127.3 ± 0.5 PV. S 400 is the lowest value inner region in vertical scans and the value is 110.6 ± 11.2 PV. S 1500 is the highest value inner region in vertical scans and the value is 127 ± 1 PV. S 200 is the lowest value middle region in vertical scans and the value is 61 ± 29 PV. I 1400 is the highest value middle region in vertical scans and the value is 124.8 ± 5.8 PV. S 200 is the lowest value outer region in vertical scans and the value is 122 ± 5.8 PV. I 600 is the highest value outer region in vertical scans and the value is 126.9 ± 1.7 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 1500 (Table S.17.) (Figure 4.10.).

N 100 is the lowest value total region in horizontal scans and the value is 122.8 ± 2.6 PV. N 2600 is the highest value total region in horizontal scans and the value is 127.3 ± 0.4 PV. T 400 is the lowest value inner region in horizontal scans and the value is 105.5 ± 14.6 PV. N 1700 is the highest value inner region in horizontal scans and the value is 127 ± 1.2 PV. T 300 is the lowest value middle region in horizontal scans and the value is 58.7 ± 32.5 PV. N 2900 is the highest value middle region in horizontal scans and the value is 125 ± 3.3 PV. T 3200 is the lowest value outer region in horizontal scans and the value is 120.7 ± 6.1 PV. T 1400 is the highest value outer region in horizontal scans and the value is 127.2 ± 1.6 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 300 and highest value region is the outer T 1400 (Table S.18.) (Figure 4.10.). The mean vertical and horizontal values of all regions can be seen in Table 4.13.

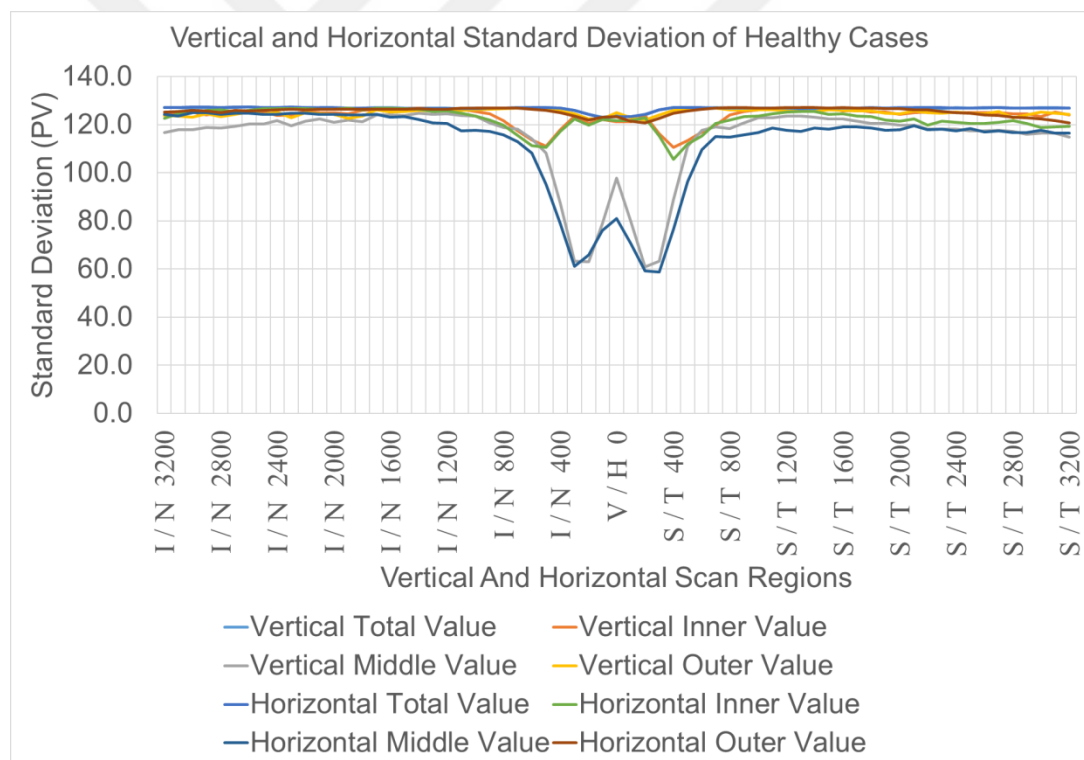


FIGURE 4.10. Vertical and Horizontal Retinal Standard Deviation of Healthy Cases.

TABLE 4.13. Table of Entire ROI Vertical and Horizontal Retinal Standard Deviation of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Standard Deviation of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	127.0 $\pm$ 0.3	127.2 $\pm$ 0.3
Entire Inner Part (n=100)	126.3 $\pm$ 0.7	125.7 $\pm$ 1.3
Entire Middle Part (n=100)	119.7 $\pm$ 3.4	118.7 $\pm$ 3.2
Entire Outer Part (n=100)	126.9 $\pm$ 1.5	126.8 $\pm$ 0.9

4.2.12. RETINAL SKEWNESS

Retinal skewness is measured for both vertical and horizontal scans for 100 eyes. S 500 is the lowest value total region in vertical scans and the value is 0.01 ± 0.17 . I 100 is the highest value total region in vertical scans and the value is 0.52 ± 0.18 . S 400 is the lowest value inner region in vertical scans and the value is -1.14 ± 0.52 . I 200 is the highest value inner region in vertical scans and the value is 0.52 ± 0.54 . I 1400 is the lowest value middle region in vertical scans and the value is 0.29 ± 0.4 . I 200 is the highest value middle region in vertical scans and the value is 4.02 ± 2.43 . S 100 is the lowest value outer region in vertical scans and the value is -0.5 ± 0.36 . I 1900 is the highest value outer region in vertical scans and the value is 0.32 ± 0.73 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 400 and highest value region is the middle I 200 (Table S.19.) (Figure 4.11.).

N 100 is the lowest value total region in horizontal scans and the value is -0.53 ± 0.21 . N 2800 is the highest value total region in horizontal scans and the value is 0 ± 0.17 . T 400 is the lowest value inner region in horizontal scans and the value is -1.37 ± 0.69 . N 1800 is the highest value inner region in horizontal scans and the value is 0 ± 0.31 . T 300 is the lowest value middle region in horizontal scans and the value is -3.87 ± 3.04 . N 2600 is the highest value middle region in horizontal scans and the value is -0.3 ± 0.35 . T 3200 is the lowest value outer region in horizontal scans and the value is -0.63 ± 0.36 . N 3100 is the highest value outer region in horizontal scans and the value is -0.01 ± 0.41 . Thus combining inner, middle and outer horizontal scan

values together, lowest value region is the middle T 300 and highest value region is the inner N 1800 (Table S.20.) (Figure 4.11.). The mean vertical and horizontal values of all regions can be seen in Table 4.14.

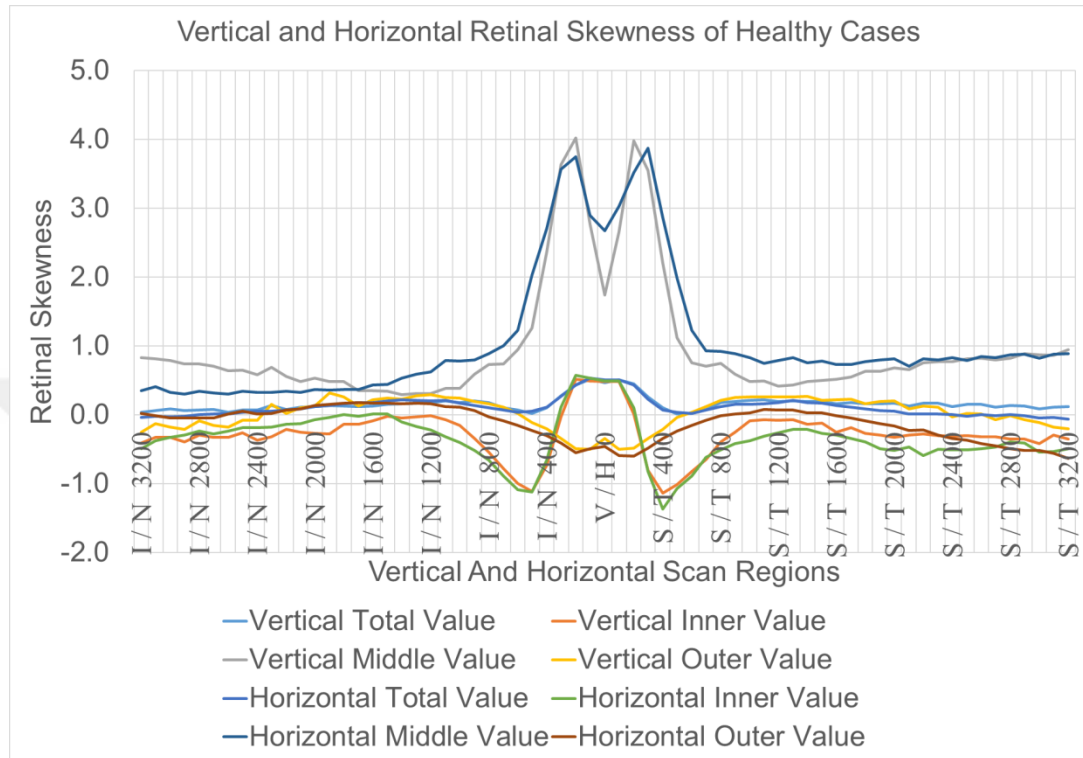


FIGURE 4.11. Vertical and Horizontal Retinal Skewness of Healthy Cases.

TABLE 4.14. Table of Entire ROI Vertical and Horizontal Retinal Skewness of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Skewness of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.16±0.06	0.11±0.08
Entire Inner Part (n=100)	-0.27±0.07	-0.31±0.13
Entire Middle Part (n=100)	0.72±0.19	0.77±0.17
Entire Outer Part (n=100)	0.04±0.19	-0.10±0.18

4.2.13. RETINAL KURTOSIS

Retinal kurtosis is measured for both vertical and horizontal scans for 100 eyes. I 2400 is the lowest value total region in vertical scans and the value is -1.98 ± 0.04 . I 100 is the highest value total region in vertical scans and the value is -1.7 ± 0.17 . S 1500 is the lowest value inner region in vertical scans and the value is -1.95 ± 0.07 . S 400 is the highest value inner region in vertical scans and the value is -0.43 ± 1.66 . S 200 is the lowest value middle region in vertical scans and the value is -22.46 ± 37.13 . S 500 is the highest value middle region in vertical scans and the value is -0.19 ± 5.25 . S 600 is the lowest value outer region in vertical scans and the value is -1.94 ± 0.09 . I 3100 is the highest value outer region in vertical scans and the value is -1.32 ± 4.39 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the middle S 500 (Table S.21.) (Figure 4.12.).

N 2400 is the lowest value total region in horizontal scans and the value is -1.98 ± 0.03 . N 100 is the highest value total region in horizontal scans and the value is -1.67 ± 0.18 . N 1700 is the lowest value inner region in horizontal scans and the value is -1.95 ± 0.08 . N 500 is the highest value inner region in horizontal scans and the value is -0.32 ± 2.08 . T 300 is the lowest value middle region in horizontal scans and the value is -22.29 ± 34.89 . N 600 is the highest value middle region in horizontal scans and the value is -0.13 ± 2.99 . T 1200 is the lowest value outer region in horizontal scans and the value is -1.96 ± 0.06 . T 3200 is the highest value outer region in horizontal scans and the value is -1.47 ± 0.52 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 300 and highest value region is the middle N 600 (Table S.22.) (Figure 4.12.). The mean vertical and horizontal values of all regions can be seen in Table 4.15.

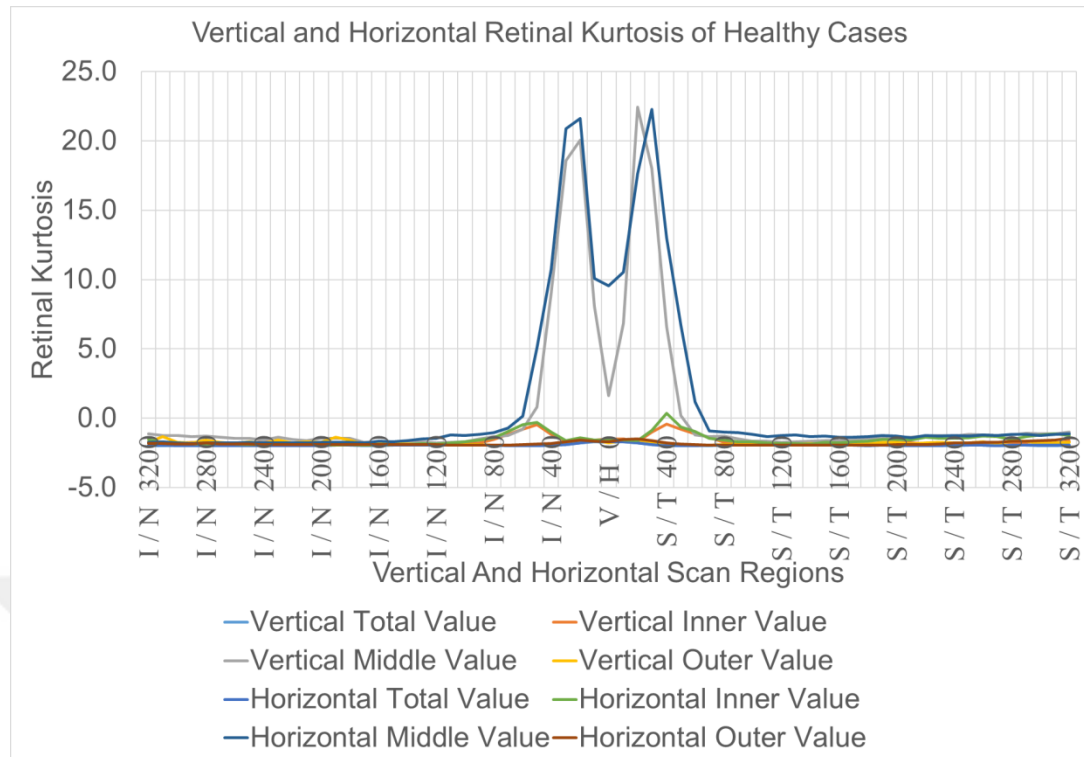


FIGURE 4.12. Vertical and Horizontal Retinal Kurtosis of Healthy Cases.

TABLE 4.15. Table of Entire ROI Vertical and Horizontal Retinal Kurtosis of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Kurtosis of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	-1.97 $\pm$ 0.02	-1.98 $\pm$ 0.02
Entire Inner Part (n=100)	-1.92 $\pm$ 0.04	-1.89 $\pm$ 0.08
Entire Middle Part (n=100)	-1.45 $\pm$ 0.26	-1.38 $\pm$ 0.25
Entire Outer Part (n=100)	-1.96 $\pm$ 0.11	-1.96 $\pm$ 0.06

4.2.14. RETINAL PERIMETER

Retinal Perimeter is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameters.

V 0 is the lowest value total region in vertical scans and the value is 128.9 ± 12.5 pixel. S 1200 is the highest value total region in vertical scans and the value is 200.1 ± 9.4 pixel. I 100 is the lowest value inner region in vertical scans and the value is 54.1 ± 4.1 pixel. S 1200 is the highest value inner region in vertical scans and the value is 77.7 ± 3.1 pixel. V 0 is the lowest value middle region in vertical scans and the value is 54.6 ± 4.6 pixel. S 1200 is the highest value middle region in vertical scans and the value is 78.1 ± 3.1 pixel. V 0 is the lowest value outer region in vertical scans and the value is 53 ± 5.1 pixel. S 1100 is the highest value outer region in vertical scans and the value is 76.3 ± 3.4 pixel. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer V 0 and highest value region is the middle S 1200 (Table S.23.) (Figure 4.13.).

H 0 is the lowest value total region in horizontal scans and the value is 130 ± 11.7 pixel. N 1400 is the highest value total region in horizontal scans and the value is 199.3 ± 8.9 pixel. N 100 is the lowest value inner region in horizontal scans and the value is 54.4 ± 4 pixel. N 1600 is the highest value inner region in horizontal scans and the value is 77.5 ± 3.2 pixel. H 0 is the lowest value middle region in horizontal scans and the value is 54.7 ± 3.9 pixel. N 1400 is the highest value middle region in horizontal scans and the value is 78.1 ± 3 pixel. H 0 is the lowest value outer region in horizontal scans and the value is 53.1 ± 3.8 pixel. N 1400 is the highest value outer region in horizontal scans and the value is 75.8 ± 3.1 pixel. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer H 0 and highest value region is the middle N 1400 (Table S.24.) (Figure 4.13.). The mean vertical and horizontal values of all regions can be seen in Table 4.16.

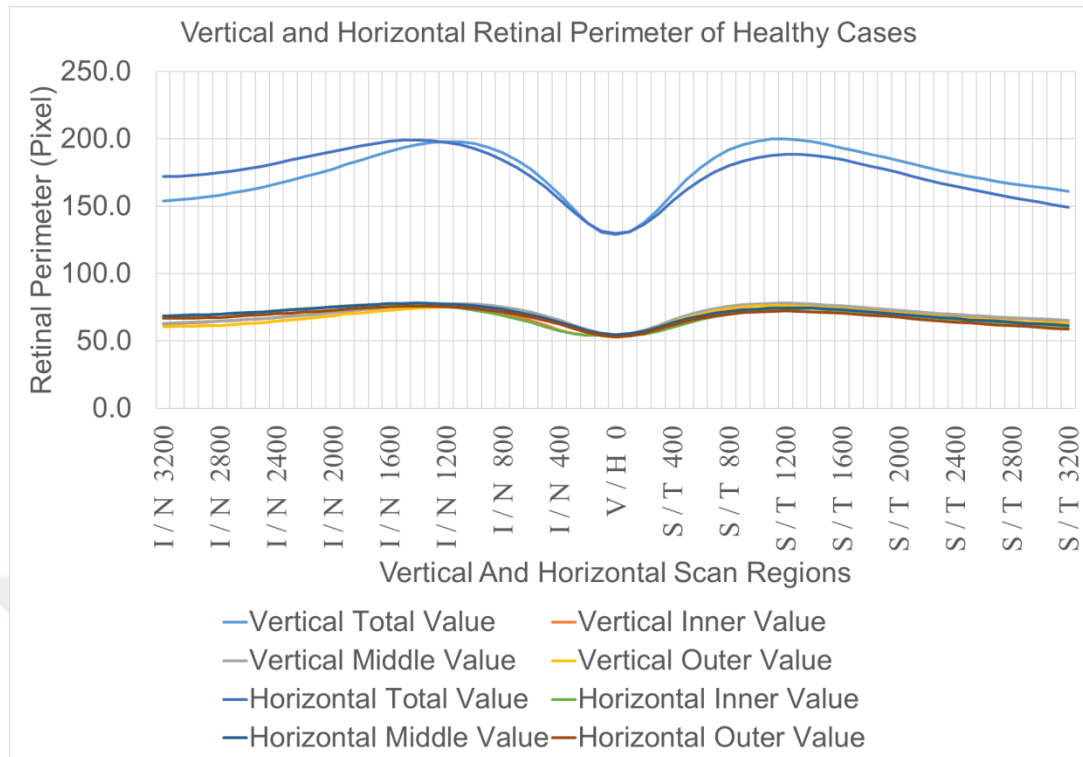


FIGURE 4.13. Vertical and Horizontal Retinal Perimeter of Healthy Cases.

TABLE 4.16. Table of Entire ROI Vertical and Horizontal Retinal Perimeter of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Perimeter of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1207.0 $\pm$ 11.1	1205.2 $\pm$ 12.1
Entire Inner Part (n=100)	1094.5 $\pm$ 13.6	1086.4 $\pm$ 14.8
Entire Middle Part (n=100)	1081.2 $\pm$ 13.3	1076.3 $\pm$ 15.8
Entire Outer Part (n=100)	1073.9 $\pm$ 8.6	1071.8 $\pm$ 11.6

4.2.15. RETINAL WIDTH

Retinal width is 6500 μm for greater ROI and 100 μm for smaller ROIs. Because it is set by researchers bounding rectangle function gives the same result for all ROIs.

4.2.16. RETINAL HEIGHT

Retinal Height is measured for both vertical and horizontal scans for 100 eyes. V 0 is the lowest value total region in vertical scans and the value is $226.5 \pm 24.5 \mu\text{m}$. S 1200 is the highest value total region in vertical scans and the value is $365.4 \pm 18.6 \mu\text{m}$. I 100 is the lowest value inner region in vertical scans and the value is $75.5 \pm 8.1 \mu\text{m}$. S 1200 is the highest value inner region in vertical scans and the value is $121.9 \pm 6.1 \mu\text{m}$. V 0 is the lowest value middle region in vertical scans and the value is $75.7 \pm 8.9 \mu\text{m}$. S 1200 is the highest value middle region in vertical scans and the value is $121.8 \pm 6.1 \mu\text{m}$. V 0 is the lowest value outer region in vertical scans and the value is $74.7 \pm 9.9 \mu\text{m}$. S 1200 is the highest value outer region in vertical scans and the value is $120.4 \pm 6.5 \mu\text{m}$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer V 0 and highest value region is the inner S 1200 (Table S.25.) (Figure 4.14.).

H 0 is the lowest value total region in horizontal scans and the value is $227.6 \pm 22.5 \mu\text{m}$. N 1400 is the highest value total region in horizontal scans and the value is $365.2 \pm 17.7 \mu\text{m}$. N 100 is the lowest value inner region in horizontal scans and the value is $75.8 \pm 7.7 \mu\text{m}$. N 1500 is the highest value inner region in horizontal scans and the value is $121.8 \pm 5.9 \mu\text{m}$. H 0 is the lowest value middle region in horizontal scans and the value is $75.8 \pm 7.7 \mu\text{m}$. N 1400 is the highest value middle region in horizontal scans and the value is $121.8 \pm 5.9 \mu\text{m}$. H 0 is the lowest value outer region in horizontal scans and the value is $74.6 \pm 7.4 \mu\text{m}$. N 1400 is the highest value outer region in horizontal scans and the value is $120.5 \pm 5.9 \mu\text{m}$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer H 0 and highest value region is the inner N 1500 (Table 4.42.) (Figure S.26.). The mean vertical and horizontal values of all regions can be seen in Table 4.17.

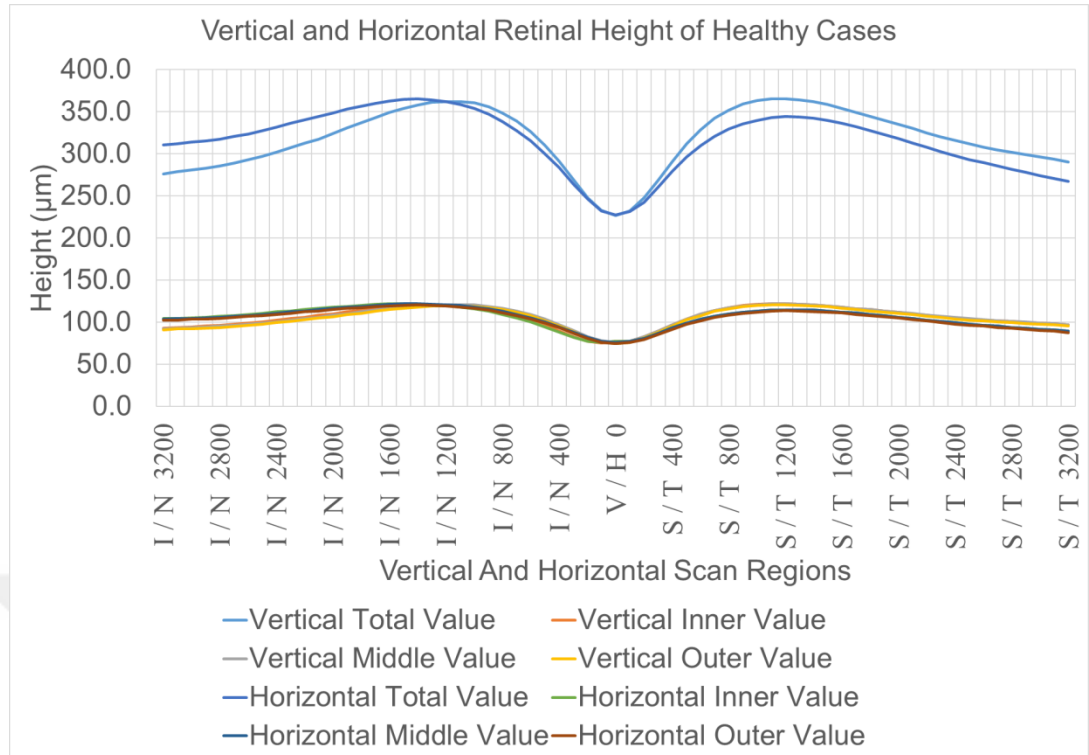


FIGURE 4.14. Vertical and Horizontal Retinal Height of Healthy Cases.

TABLE 4.17. Table of Entire ROI Vertical and Horizontal Retinal Height of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Height of Healthy Cases (μm)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	402.5 $\pm$ 46.9	402.9 $\pm$ 46.0
Entire Inner Part (n=100)	242.2 $\pm$ 40.1	243.1 $\pm$ 39.4
Entire Middle Part (n=100)	210.9 $\pm$ 43.5	209.5 $\pm$ 42.7
Entire Outer Part (n=100)	189.5 $\pm$ 46.9	184.8 $\pm$ 45.9

4.2.17. RETINAL MAJOR

Retinal Major is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameters.

V 0 is the lowest value total region in vertical scans and the value is 64.4 ± 6.8 pixel. S 1200 is the highest value total region in vertical scans and the value is 103.9 ± 5.3 pixel. V 0 is the lowest value inner region in vertical scans and the value is 20.5 ± 2.1 pixel. S 1200 is the highest value inner region in vertical scans and the value is 34 ± 1.9 pixel. V 0 is the lowest value middle region in vertical scans and the value is 21.8 ± 2.6 pixel. S 1200 is the highest value middle region in vertical scans and the value is 35 ± 1.8 pixel. V 0 is the lowest value outer region in vertical scans and the value is 21.4 ± 2.8 pixel. S 1200 is the highest value outer region in vertical scans and the value is 34.6 ± 1.8 pixel. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner V 0 and highest value region is the middle S 1200 (Table 4.44.) (Figure S.27.).

H 0 is the lowest value total region in horizontal scans and the value is 64.8 ± 6.3 pixel. N 1400 is the highest value total region in horizontal scans and the value is 103.5 ± 5.1 pixel. N 200 is the lowest value inner region in horizontal scans and the value is 20.5 ± 2.2 pixel. N 1600 is the highest value inner region in horizontal scans and the value is 33.8 ± 1.9 pixel. H 0 is the lowest value middle region in horizontal scans and the value is 21.8 ± 2.2 pixel. N 1400 is the highest value middle region in horizontal scans and the value is 35 ± 1.7 pixel. H 0 is the lowest value outer region in horizontal scans and the value is 21.4 ± 2.1 pixel. N 1300 is the highest value outer region in horizontal scans and the value is 34.4 ± 1.7 pixel. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner N 200 and highest value region is the middle N 1400 (Table S.28.) (Figure 4.15.). The mean vertical and horizontal values of all regions can be seen in Table 4.18.

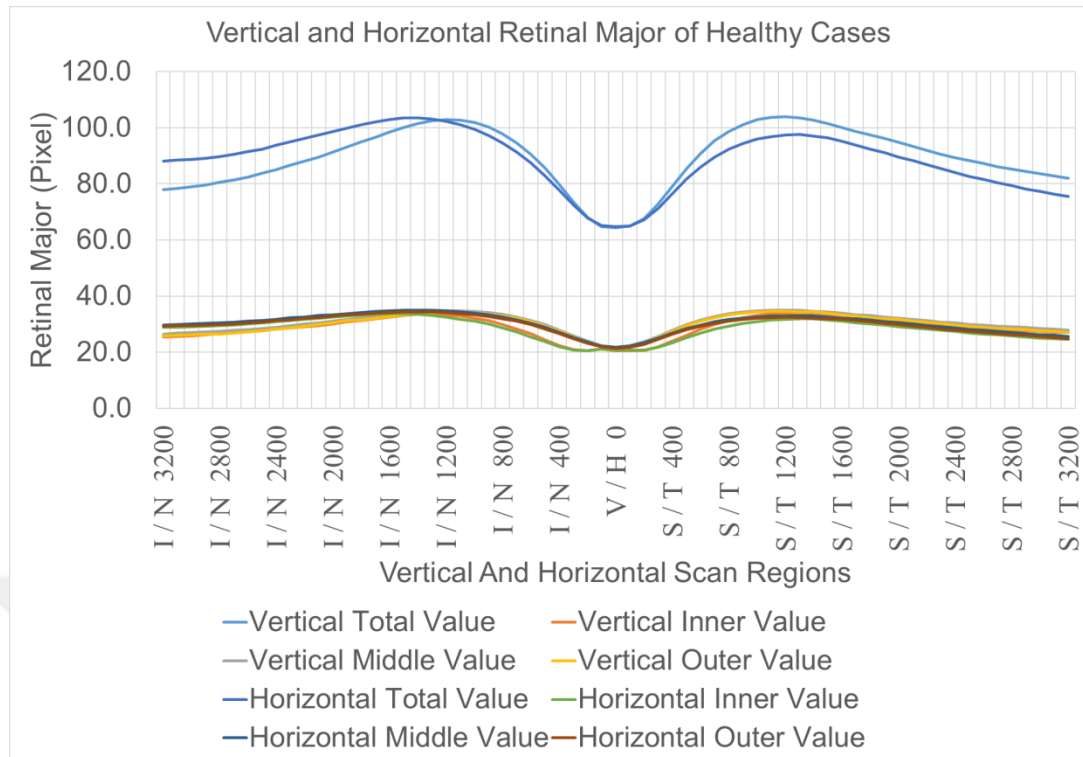


FIGURE 4.15. Vertical and Horizontal Retinal Major of Healthy Cases.

TABLE 4.18. Table of Entire ROI Vertical and Horizontal Retinal Major of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Major of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	566.8 $\pm$ 8.1	567.7 $\pm$ 8.0
Entire Inner Part (n=100)	478.2 $\pm$ 27.5	474.1 $\pm$ 25.1
Entire Middle Part (n=100)	517.5 $\pm$ 28.9	511.9 $\pm$ 29.6
Entire Outer Part (n=100)	530.6 $\pm$ 36.5	527.6 $\pm$ 38.9

4.2.18. RETINAL MINOR

Retinal minor is found to be 9.0 pixels in nearly all of the smaller ROIs because the width is set by researchers. Thus only the greater ROIs minor is given here (Table 4.19.)

TABLE 4.19. Table of Entire ROI Vertical and Horizontal Retinal Minor of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Minor of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	92.4 $\pm$ 4.8	91.6 $\pm$ 5.0
Entire Inner Part (n=100)	35.3 $\pm$ 2.2	35.3 $\pm$ 2.3
Entire Middle Part (n=100)	34.6 $\pm$ 2.2	34.7 $\pm$ 2.6
Entire Outer Part (n=100)	33.1 $\pm$ 2.3	33.1 $\pm$ 3.0

4.2.19. RETINAL ANGLE

Retinal Angle is measured for both vertical and horizontal scans for 100 eyes and measured in degrees.

S 300 is the lowest value total region in vertical scans and the value is 89.7 ± 0.1 degree. I 400 is the highest value total region in vertical scans and the value is 90.3 ± 0.1 degree. S 300 is the lowest value inner region in vertical scans and the value is 86 ± 1.6 degree. I 400 is the highest value inner region in vertical scans and the value is 93.9 ± 1.5 degree. V 0 is the lowest value middle region in vertical scans and the value is 90 ± 0 degree. I 1400 is the highest value middle region in vertical scans and the value is 90 ± 0 degree. S 3100 is the lowest value outer region in vertical scans and the value is 89.7 ± 0.4 degree. I 2700 is the highest value outer region in vertical scans and the value is 90.4 ± 0.4 degree. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 300 and highest value region is the inner I 400 (Table S.29.) (Figure 4.16.).

N 900 is the lowest value total region in horizontal scans and the value is 89.7 ± 5.1 degree. H 0 is the highest value total region in horizontal scans and the value is 93.3 ± 7.2 degree. T 300 is the lowest value inner region in horizontal scans and the value is 89.5 ± 20.2 degree. N 100 is the highest value inner region in horizontal scans and the value is 102.3 ± 19.1 degree. N 1300 is the lowest value middle region in horizontal scans and the value is 104.5 ± 0.7 degree. H 0 is the highest value middle region in horizontal scans and the value is 112.6 ± 1.9 degree. T 3000 is the lowest value outer region in horizontal scans and the value is 93.5 ± 19.5 degree. H 0 is the

highest value outer region in horizontal scans and the value is 109.7 ± 12.9 degree. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 300 and highest value region is the middle H 0 (Table S.30.) (Figure 4.16.). The mean vertical and horizontal values of all regions can be seen in Table 4.20.

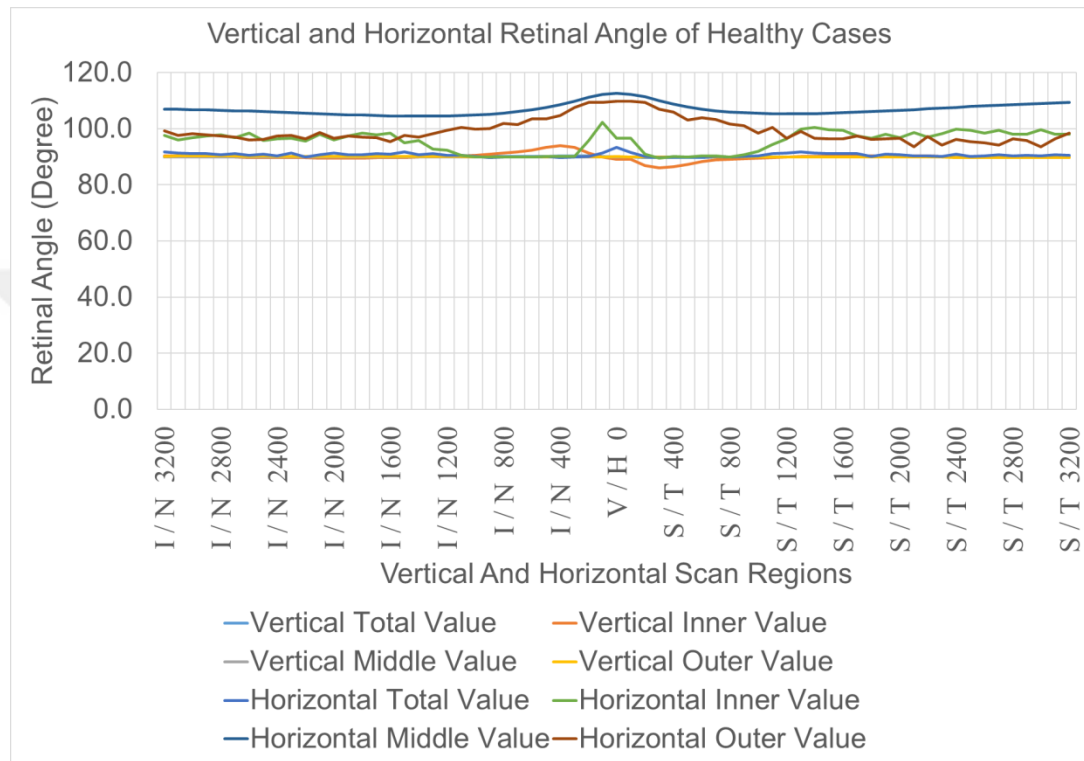


FIGURE 4.16. Vertical and Horizontal Retinal Angle of Healthy Cases.

TABLE 4.20. Table of Entire ROI Vertical and Horizontal Retinal Angle of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Angle of Healthy Cases (Degree)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	179.6 $\pm$ 2.0	180.0 $\pm$ 1.7
Entire Inner Part (n=100)	179.8 $\pm$ 2.0	180.0 $\pm$ 1.8
Entire Middle Part (n=100)	179.6 $\pm$ 2.0	180.0 $\pm$ 1.6
Entire Outer Part (n=100)	179.5 $\pm$ 2.0	180.0 $\pm$ 1.6

4.2.20. RETINAL INTEGRATED DENSITY

Retinal integrated density is measured for both vertical and horizontal scans for 100 eyes and measured in PV.

I 100 is the lowest value total region in vertical scans and the value is 44046.2 ± 7327.2 PV. I 1300 is the highest value total region in vertical scans and the value is 84966 ± 6905.5 PV. I 200 is the lowest value inner region in vertical scans and the value is 14315.7 ± 5753.1 PV. S 700 is the highest value inner region in vertical scans and the value is 34458.2 ± 4305.2 PV. S 200 is the lowest value middle region in vertical scans and the value is 3672 ± 3662.5 PV. I 1400 is the highest value middle region in vertical scans and the value is 26907.6 ± 5315.1 PV. V 0 is the lowest value outer region in vertical scans and the value is 22381.4 ± 2963.6 PV. I 500 is the highest value outer region in vertical scans and the value is 27598.7 ± 2805.6 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 700 (Table S.31.) (Figure 4.17.).

N 100 is the lowest value total region in horizontal scans and the value is 44066.6 ± 8778.9 PV. N 1600 is the highest value total region in horizontal scans and the value is 84402.5 ± 6659.8 PV. N 200 is the lowest value inner region in horizontal scans and the value is 13971.5 ± 5652.1 PV. N 700 is the highest value inner region in horizontal scans and the value is 33453.5 ± 3389.7 PV. T 200 is the lowest value middle region in horizontal scans and the value is 3641.4 ± 4101.7 PV. N 1700 is the highest value middle region in horizontal scans and the value is 25619.9 ± 4750 PV. H 0 is the lowest value outer region in horizontal scans and the value is 23432 ± 2927.2 PV. T 2100 is the highest value outer region in horizontal scans and the value is 29335.2 ± 2734.9 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region is the inner N 700 (Table S.32.) (Figure 4.17.). The mean vertical and horizontal values of all regions can be seen in Table 4.21.

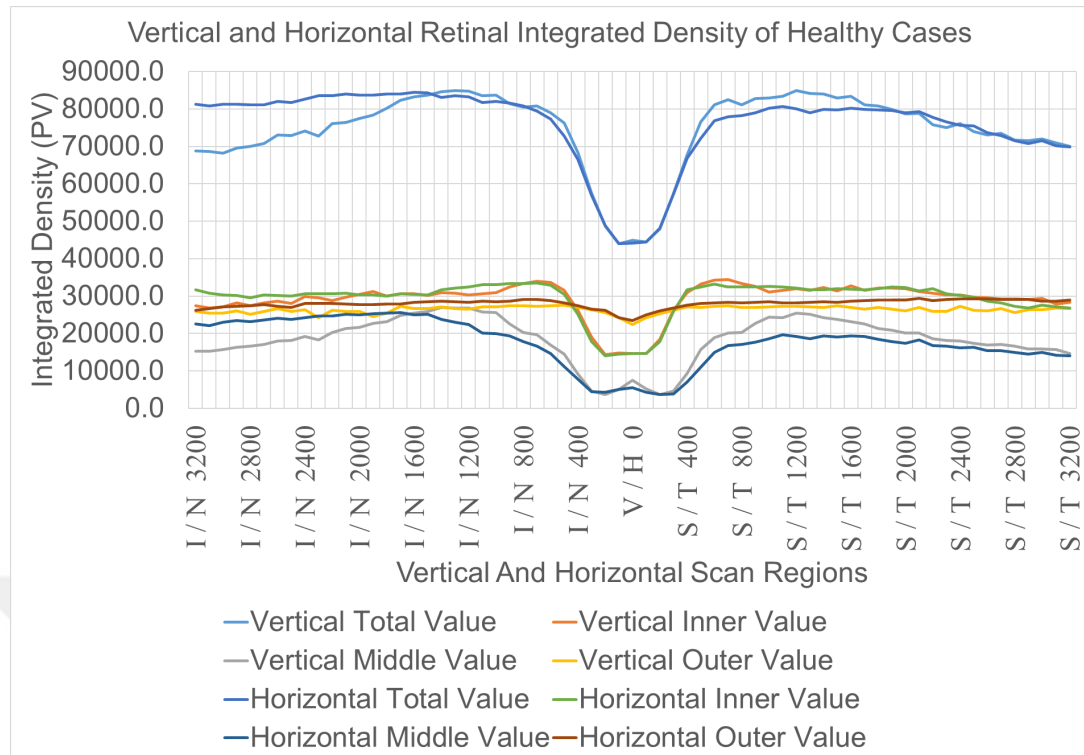


FIGURE 4.17. Vertical and Horizontal Retinal Integrated Density of Healthy Cases.

TABLE 4.21. Table of Entire ROI Vertical and Horizontal Retinal Integrated Density of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Integrated Density of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	4817159.1 $\pm$ 261666.3	4908512.9 $\pm$ 253260.4
Entire Inner Part (n=100)	1909055.0 $\pm$ 121895.0	1929506.0 $\pm$ 122514.0
Entire Middle Part (n=100)	1191199.4 $\pm$ 168771.1	1142690.7 $\pm$ 150343.6
Entire Outer Part (n=100)	1713215.0 $\pm$ 141638.9	1820281.8 $\pm$ 132333.2

4.2.21. RETINAL RAW INTEGRATED DENSITY

Retinal raw integrated density is measured for both vertical and horizontal scans for 100 eyes and measured in PV.

I 100 is the lowest value total region in vertical scans and the value is 44046.2 ± 7327.2 PV. I 1300 is the highest value total region in vertical scans and the value is 84966 ± 6905.5 PV. I 200 is the lowest value inner region in vertical scans and the value is 14315.7 ± 5753.1 PV. S 700 is the highest value inner region in vertical scans and the value is 34458.2 ± 4305.2 PV. S 200 is the lowest value middle region in vertical scans and the value is 3672 ± 3662.5 PV. I 1400 is the highest value middle region in vertical scans and the value is 26907.6 ± 5315.1 PV. V 0 is the lowest value outer region in vertical scans and the value is 22381.4 ± 2963.6 PV. I 500 is the highest value outer region in vertical scans and the value is 27598.7 ± 2805.6 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 200 and highest value region is the inner S 700 (Table S.33.) (Figure 4.18.).

N 100 is the lowest value total region in horizontal scans and the value is 44066.6 ± 8778.9 PV. N 1600 is the highest value total region in horizontal scans and the value is 84402.5 ± 6659.8 PV. N 200 is the lowest value inner region in horizontal scans and the value is 13971.5 ± 5652.1 PV. N 700 is the highest value inner region in horizontal scans and the value is 33453.5 ± 3389.7 PV. T 200 is the lowest value middle region in horizontal scans and the value is 3641.4 ± 4101.7 PV. N 1700 is the highest value middle region in horizontal scans and the value is 25619.9 ± 4750 PV. H 0 is the lowest value outer region in horizontal scans and the value is 23432 ± 2927.2 PV. T 2100 is the highest value outer region in horizontal scans and the value is 29335.2 ± 2734.9 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region is the inner N 700 (Table S.34.) (Figure 4.18.). The mean vertical and horizontal values of all regions can be seen in Table 4.22.

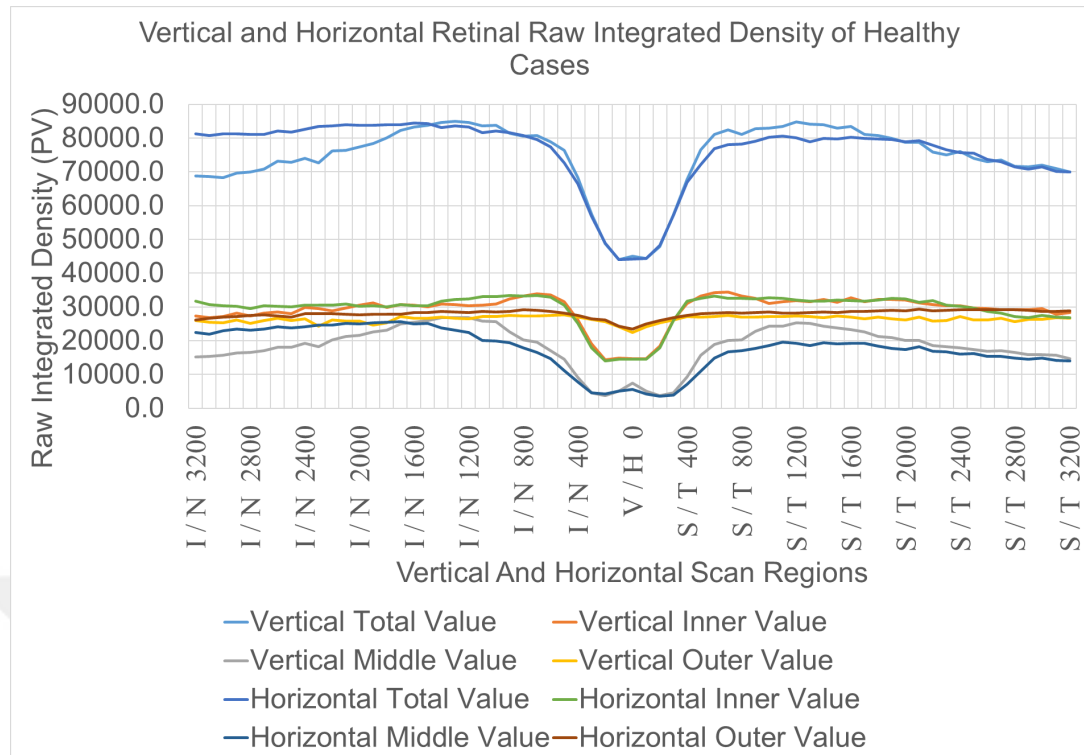


FIGURE 4.18. Vertical and Horizontal Retinal Raw Integrated Density of Healthy Cases.

TABLE 4.22. Table of Entire ROI Vertical and Horizontal Retinal Raw Integrated Density of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Raw Integrated Density of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	4817159.1 $\pm$ 261666.3	4908512.9 $\pm$ 253260.4
Entire Inner Part (n=100)	1909055.0 $\pm$ 121895.0	1929506.0 $\pm$ 122514.0
Entire Middle Part (n=100)	1191199.4 $\pm$ 168771.1	1142690.7 $\pm$ 150343.6
Entire Outer Part (n=100)	1713215.0 $\pm$ 141638.9	1820281.8 $\pm$ 132333.2

4.2.22. RETINAL FERET

Retinal feret is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameter.

V 0 is the lowest value total region in vertical scans and the value is 57.7 ± 6.1 pixel. S 1100 is the highest value total region in vertical scans and the value is 92.8 ± 4.7 pixel. I 100 is the lowest value inner region in vertical scans and the value is 20.8 ± 1.9 pixel. S 1100 is the highest value inner region in vertical scans and the value is 32.1 ± 1.5 pixel. V 0 is the lowest value middle region in vertical scans and the value is 20.9 ± 2.1 pixel. S 1200 is the highest value middle region in vertical scans and the value is 32.1 ± 1.5 pixel. V 0 is the lowest value outer region in vertical scans and the value is 20.3 ± 2.4 pixel. S 1100 is the highest value outer region in vertical scans and the value is 31.3 ± 1.6 pixel. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer V 0 and highest value region is the inner S 1100 (Table S.35.) (Figure 4.19.).

H 0 is the lowest value total region in horizontal scans and the value is 58 ± 5.6 pixel. N 1400 is the highest value total region in horizontal scans and the value is 92.6 ± 4.4 pixel. N 100 is the lowest value inner region in horizontal scans and the value is 20.9 ± 1.8 pixel. N 1500 is the highest value inner region in horizontal scans and the value is 32.1 ± 1.5 pixel. H 0 is the lowest value middle region in horizontal scans and the value is 20.9 ± 1.8 pixel. N 1400 is the highest value middle region in horizontal scans and the value is 32.1 ± 1.5 pixel. H 0 is the lowest value outer region in horizontal scans and the value is 20.3 ± 1.8 pixel. N 1400 is the highest value outer region in horizontal scans and the value is 31.2 ± 1.5 pixel. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer H 0 and highest value region is the inner N 1500 (Table S.36.) (Figure 4.19.). The mean vertical and horizontal values of all regions can be seen in Table 4.23.

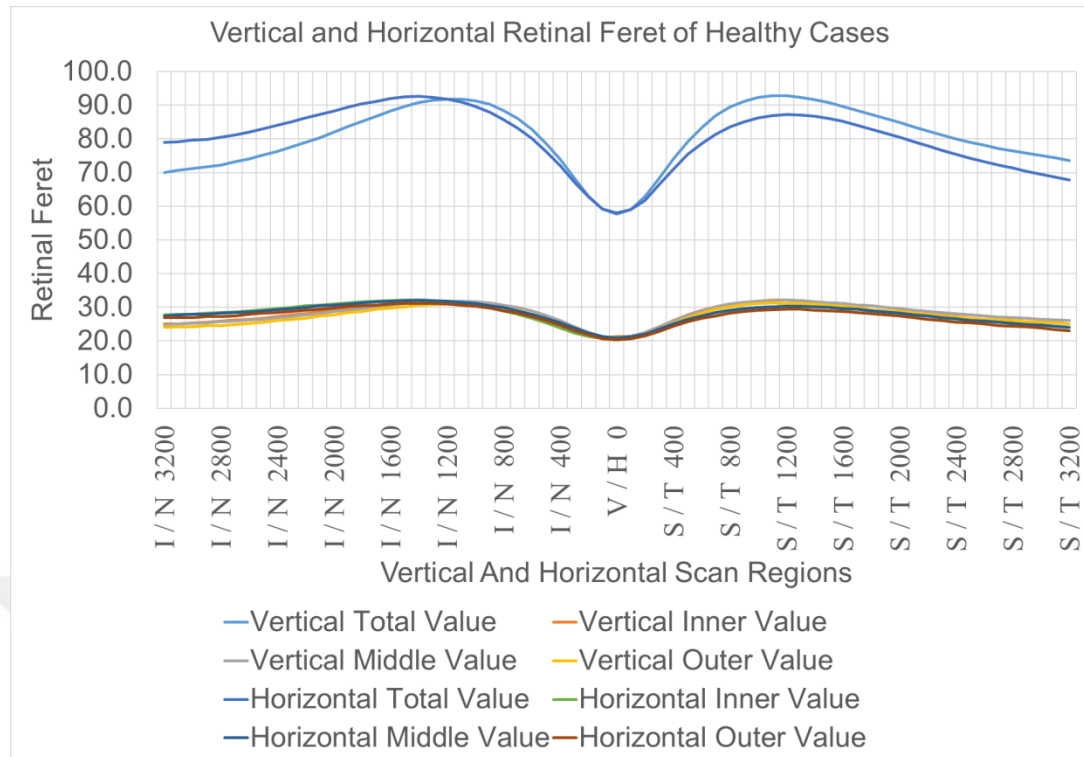


FIGURE 4.19. Vertical and Horizontal Retinal Feret of Healthy Cases.

TABLE 4.23. Table of Entire ROI Vertical and Horizontal Retinal Feret of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Feret of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	526.6 $\pm$ 2.8	526.7 $\pm$ 2.1
Entire Inner Part (n=100)	521.3 $\pm$ 1.4	521.3 $\pm$ 1.0
Entire Middle Part (n=100)	521.4 $\pm$ 1.4	521.3 $\pm$ 1.0
Entire Outer Part (n=100)	521.3 $\pm$ 1.4	521.2 $\pm$ 1.0

4.2.23. RETINAL MINIMUM FERET

Retinal minimum feret is found to be 8.0 pixels in nearly all of the smaller ROIs because the width is set by researchers. Thus only the greater ROIs minor is given here (Table 4.24.).

TABLE 4.24. Table of Entire ROI Vertical and Horizontal Retinal Minimum Feret of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Minimum Feret of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	97.2 $\pm$ 6.3	97.9 $\pm$ 7.9
Entire Inner Part (n=100)	57.8 $\pm$ 5.8	57.4 $\pm$ 6.0
Entire Middle Part (n=100)	48.8 $\pm$ 6.3	49.3 $\pm$ 7.0
Entire Outer Part (n=100)	41.6 $\pm$ 7.2	42.2 $\pm$ 8.1

4.2.24. RETINAL FERET ANGLE

Retinal ferret angle is measured for both vertical and horizontal scans for 100 eyes and measured in degrees.

S 200 is the lowest value total region in vertical scans and the value is 83.7 ± 3.1 degree. I 100 is the highest value total region in vertical scans and the value is 97.4 ± 2.2 degree. S 200 is the lowest value inner region in vertical scans and the value is 69.9 ± 6.6 degree. I 200 is the highest value inner region in vertical scans and the value is 111.8 ± 4.6 degree. S 1100 is the lowest value middle region in vertical scans and the value is 104.5 ± 0.7 degree. V 0 is the highest value middle region in vertical scans and the value is 112.7 ± 2.2 degree. S 3100 is the lowest value outer region in vertical scans and the value is 80.6 ± 16 degree. S 200 is the highest value outer region in vertical scans and the value is 111 ± 6.1 degree. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 200 and highest value region is the middle V 0 (Table S.37.) (Figure 4.20.).

N 900 is the lowest value total region in horizontal scans and the value is 89.7 ± 5.1 degree. H 0 is the highest value total region in horizontal scans and the value is 93.3 ± 7.2 degree. T 300 is the lowest value inner region in horizontal scans and the value is 89.5 ± 20.2 degree. N 100 is the highest value inner region in horizontal scans and the value is 102.3 ± 19.1 degree. N 1300 is the lowest value middle region in horizontal scans and the value is 104.5 ± 0.7 degree. H 0 is the highest value middle region in horizontal scans and the value is 112.6 ± 1.9 degree. T 3000 is the lowest value outer region in horizontal scans and the value is 93.5 ± 19.5 degree. H 0 is the highest value outer region in horizontal scans and the value is 109.7 ± 12.9 degree.

Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 300 and highest value region is the middle H 0 (Table S.38.) (Figure 4.20.). The mean vertical and horizontal values of all regions can be seen in Table 4.25.

TABLE 4.25. Table of Entire ROI Vertical and Horizontal Retinal Feret Angle of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Feret Angle of Healthy Cases (Degree)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	176.6 $\pm$ 8.5	181.3 $\pm$ 9.1
Entire Inner Part (n=100)	178.9 $\pm$ 4.0	180.3 $\pm$ 4.1
Entire Middle Part (n=100)	178.6 $\pm$ 4.0	180.4 $\pm$ 4.0
Entire Outer Part (n=100)	178.4 $\pm$ 3.8	180.1 $\pm$ 3.9

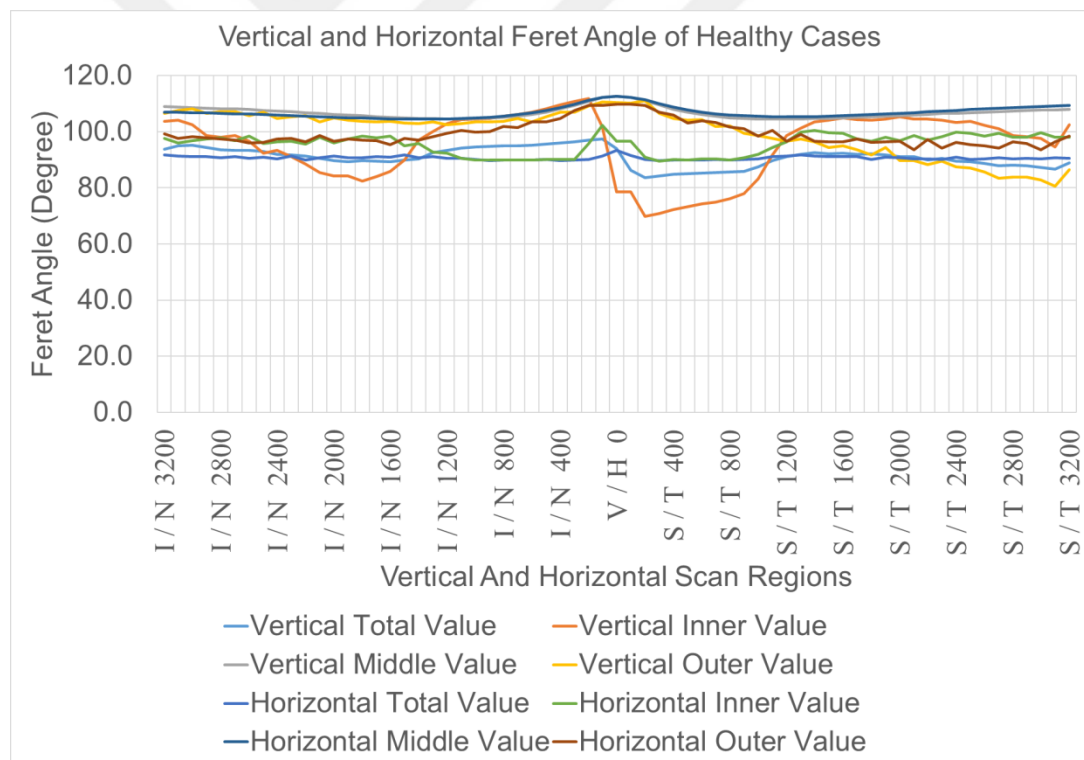


FIGURE 4.20. Vertical and Horizontal Retinal Feret Angle of Healthy Cases.

4.2.25. RETINAL CIRCULARITY

Retinal circularity is measured for both vertical and horizontal scans for 100 eyes. S 1400 is the lowest value total region in vertical scans and the value is 0.23 ± 0.01 . V 0 is the highest value total region in vertical scans and the value is 0.35 ± 0.03 . S 1300 is the lowest value inner region in vertical scans and the value is 0.5 ± 0.02 . I 100 is the highest value inner region in vertical scans and the value is 0.64 ± 0.03 . S 1000 is the lowest value middle region in vertical scans and the value is 0.51 ± 0.02 . V 0 is the highest value middle region in vertical scans and the value is 0.65 ± 0.03 . S 1100 is the lowest value outer region in vertical scans and the value is 0.53 ± 0.02 . V 0 is the highest value outer region in vertical scans and the value is 0.68 ± 0.04 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 1300 and highest value region is the outer V 0 (Table S.39.) (Figure 4.21.).

N 1200 is the lowest value total region in horizontal scans and the value is 0.23 ± 0.01 . H 0 is the highest value total region in horizontal scans and the value is 0.34 ± 0.03 . N 1500 is the lowest value inner region in horizontal scans and the value is 0.5 ± 0.02 . N 100 is the highest value inner region in horizontal scans and the value is 0.64 ± 0.03 . N 1200 is the lowest value middle region in horizontal scans and the value is 0.51 ± 0.02 . H 0 is the highest value middle region in horizontal scans and the value is 0.65 ± 0.03 . N 1400 is the lowest value outer region in horizontal scans and the value is 0.53 ± 0.02 . H 0 is the highest value outer region in horizontal scans and the value is 0.68 ± 0.04 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner N 1500 and highest value region is the outer H 0 (Table S.40.) (Figure 4.21.). The mean vertical and horizontal values of all regions can be seen in Table 4.26.

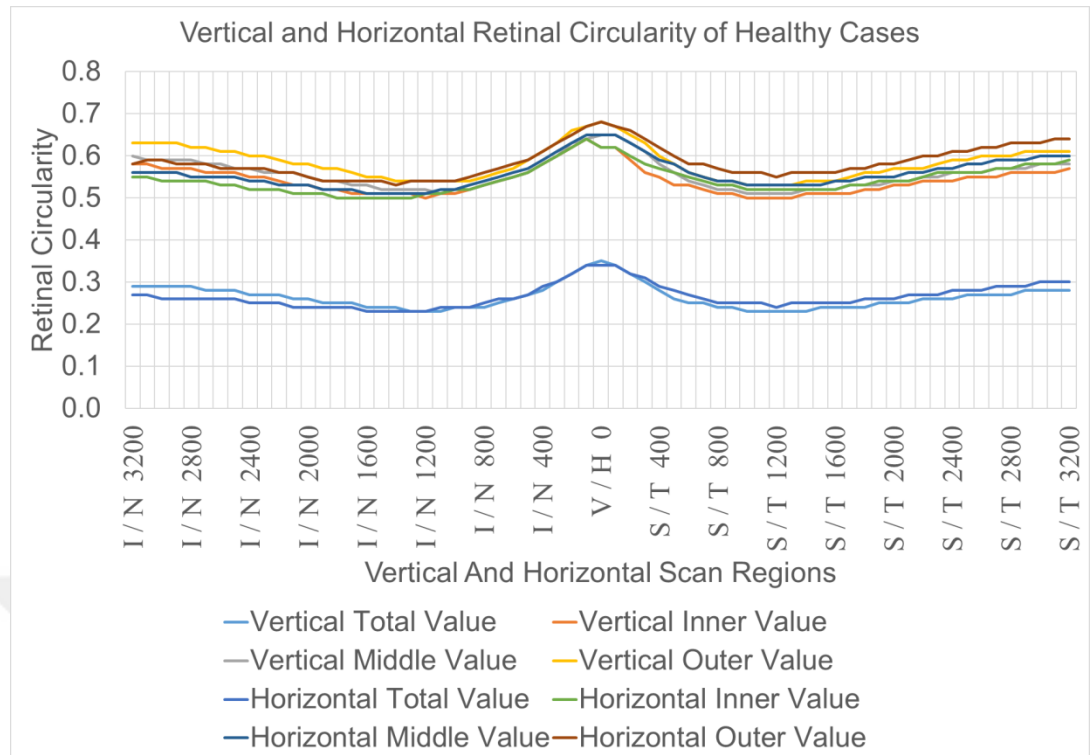


FIGURE 4.21. Vertical and Horizontal Retinal Circularity of Healthy Cases.

TABLE 4.26. Table of Entire ROI Vertical and Horizontal Retinal Circularity of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Circularity of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.35±0.02	0.35±0.01
Entire Inner Part (n=100)	0.14±0.01	0.14±0.01
Entire Middle Part (n=100)	0.15±0.01	0.15±0.01
Entire Outer Part (n=100)	0.15±0.01	0.15±0.01

4.2.26. RETINAL ASPECT RATIO

Retinal aspect ratio is measured for both vertical and horizontal scans for 100 eyes. V 0 is the lowest value total region in vertical scans and the value is 7.1 ± 0.8 . S 1100 is the highest value total region in vertical scans and the value is 11.5 ± 0.6 . S 200 is the lowest value inner region in vertical scans and the value is 2.3 ± 0.3 . S 1200 is the highest value inner region in vertical scans and the value is 3.8 ± 0.2 . V 0 is the lowest value middle region in vertical scans and the value is 2.4 ± 0.3 . S 1100 is the highest value middle region in vertical scans and the value is 3.9 ± 0.2 . I 100 is the lowest value outer region in vertical scans and the value is 2.4 ± 0.3 . S 1400 is the highest value outer region in vertical scans and the value is 3.8 ± 0.2 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 200 and highest value region is the middle S 1100 (Table S.41.) (Figure 4.22.).

H 0 is the lowest value total region in horizontal scans and the value is 7.2 ± 0.7 . N 1400 is the highest value total region in horizontal scans and the value is 11.5 ± 0.6 . T 200 is the lowest value inner region in horizontal scans and the value is 2.3 ± 0.3 . N 1300 is the highest value inner region in horizontal scans and the value is 3.7 ± 0.2 . H 0 is the lowest value middle region in horizontal scans and the value is 2.4 ± 0.2 . N 1500 is the highest value middle region in horizontal scans and the value is 3.9 ± 0.2 . N 100 is the lowest value outer region in horizontal scans and the value is 2.4 ± 0.3 . N 1300 is the highest value outer region in horizontal scans and the value is 3.8 ± 0.2 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 200 and highest value region is the middle N 1500 (Table S.42.) (Figure 4.22.). The mean vertical and horizontal values of all regions can be seen in Table 4.27.

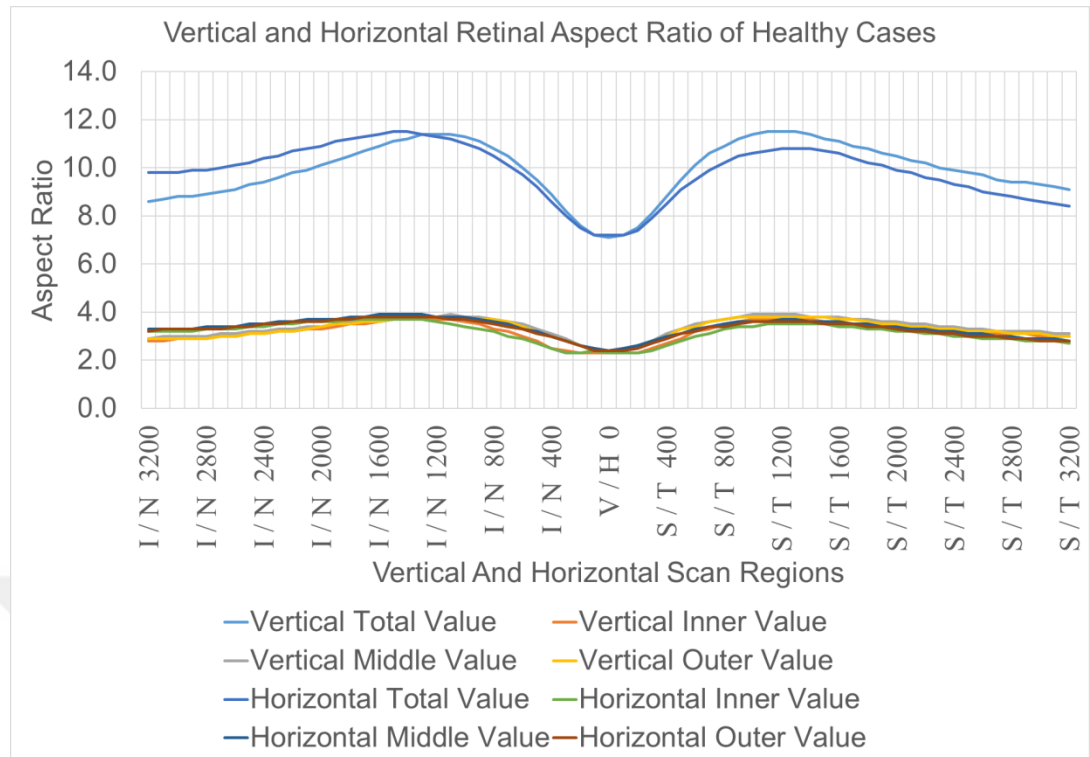


FIGURE 4.22. Vertical and Horizontal Retinal Aspect Ratio of Healthy Cases.

TABLE 4.27. Table of Entire ROI Vertical and Horizontal Retinal Aspect Ratio of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Aspect Ratio of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	6.2±0.3	6.2±0.3
Entire Inner Part (n=100)	13.6±1.4	13.5±1.4
Entire Middle Part (n=100)	15.0±1.5	14.9±1.7
Entire Outer Part (n=100)	16.1±1.9	16.1±2.3

4.2.27. RETINAL ROUNDNESS

Retinal roundness is measured for both vertical and horizontal scans for 100 eyes. I 1200 is the lowest value total region in vertical scans and the value is 0.09 ± 0 . V 0 is the highest value total region in vertical scans and the value is 0.14 ± 0.01 . I 1500 is the lowest value inner region in vertical scans and the value is 0.27 ± 0.02 . I 200 is the highest value inner region in vertical scans and the value is 0.45 ± 0.05 . I 1200 is the lowest value middle region in vertical scans and the value is 0.26 ± 0.01 . V 0 is the highest value middle region in vertical scans and the value is 0.42 ± 0.04 . S 1200 is the lowest value outer region in vertical scans and the value is 0.26 ± 0.01 . V 0 is the highest value outer region in vertical scans and the value is 0.43 ± 0.05 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle I 1200 and highest value region is the inner I 200 (Table S.43.) (Figure 4.23.).

N 1200 is the lowest value total region in horizontal scans and the value is 0.09 ± 0 . H 0 is the highest value total region in horizontal scans and the value is 0.14 ± 0.01 . N 1500 is the lowest value inner region in horizontal scans and the value is 0.27 ± 0.01 . N 200 is the highest value inner region in horizontal scans and the value is 0.44 ± 0.04 . N 1200 is the lowest value middle region in horizontal scans and the value is 0.26 ± 0.01 . H 0 is the highest value middle region in horizontal scans and the value is 0.42 ± 0.04 . N 1400 is the lowest value outer region in horizontal scans and the value is 0.26 ± 0.01 . H 0 is the highest value outer region in horizontal scans and the value is 0.43 ± 0.04 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle N 1200 and highest value region is the inner N 200 (Table S.44.) (Figure 4.23.). The mean vertical and horizontal values of all regions can be seen in Table 4.28.

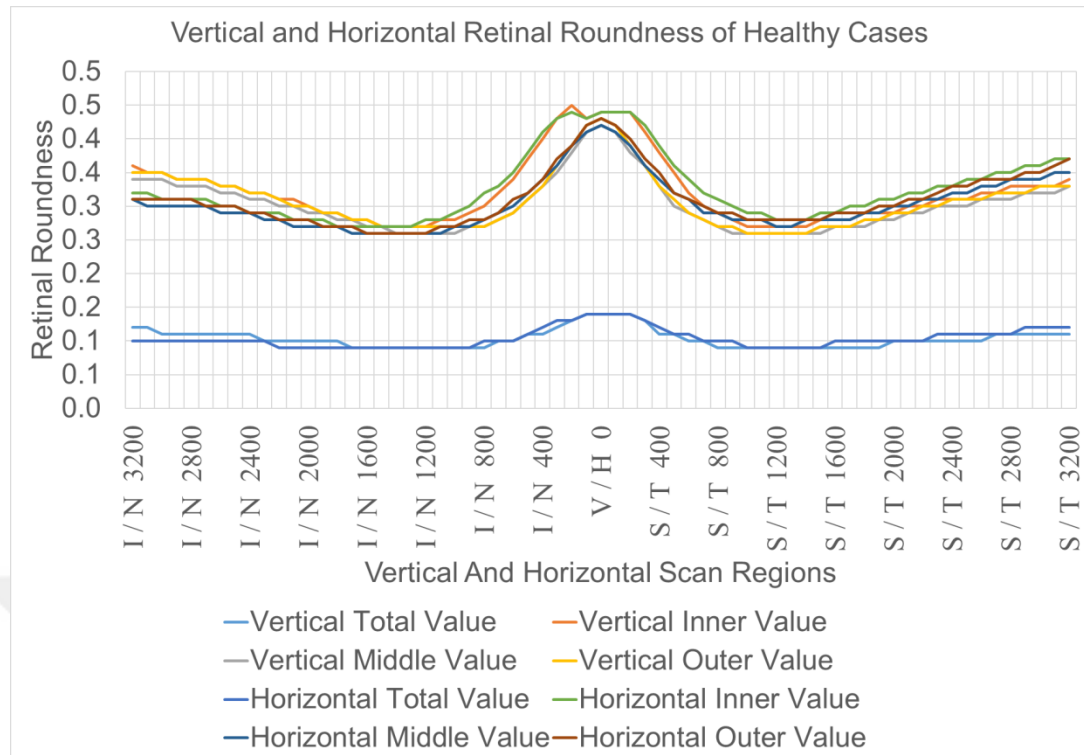


FIGURE 4.23. Vertical and Horizontal Retinal Roundness of Healthy Cases.

TABLE 4.28. Table of Entire ROI Vertical and Horizontal Retinal Roundness of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Roundness of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.16±0.01	0.16±0.01
Entire Inner Part (n=100)	0.07±0.01	0.07±0.01
Entire Middle Part (n=100)	0.07±0.01	0.07±0.01
Entire Outer Part (n=100)	0.06±0.01	0.06±0.01

4.2.28. RETINAL SOLIDITY

Retinal solidity is measured for both vertical and horizontal scans for 100 eyes. S 3000 is the lowest value total region in vertical scans and the value is 0.9918 ± 0.0073 . I 300 is the highest value total region in vertical scans and the value is 1.0032 ± 0.0103 . S 3000 is the lowest value inner region in vertical scans and the value is 0.9454 ± 0.0153 . I 400 is the highest value inner region in vertical scans and the value is 0.9807 ± 0.0203 . I 1200 is the lowest value middle region in vertical scans and the value is 1 ± 0.0003 . S 2900 is the highest value middle region in vertical scans and the value is 1.0018 ± 0.0143 . S 800 is the lowest value outer region in vertical scans and the value is 1.0165 ± 0.0163 . I 100 is the highest value outer region in vertical scans and the value is 1.0305 ± 0.0163 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 3000 and highest value region is the outer I 100 (Table S.45.) (Figure 4.24.).

T 300 is the lowest value total region in horizontal scans and the value is 0.993 ± 0.0094 . T 3200 is the highest value total region in horizontal scans and the value is 1.0036 ± 0.0087 . T 300 is the lowest value inner region in horizontal scans and the value is 0.95 ± 0.0204 . N 100 is the highest value inner region in horizontal scans and the value is 0.9798 ± 0.0211 . N 1200 is the lowest value middle region in horizontal scans and the value is 1 ± 0 . T 2900 is the highest value middle region in horizontal scans and the value is 1 ± 0 . N 600 is the lowest value outer region in horizontal scans and the value is 1.0158 ± 0.0179 . T 3100 is the highest value outer region in horizontal scans and the value is 1.0345 ± 0.021 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 300 and highest value region is the outer T 3100 (Table S.46.) (Figure 4.24.). The mean vertical and horizontal values of all regions can be seen in Table 4.29.

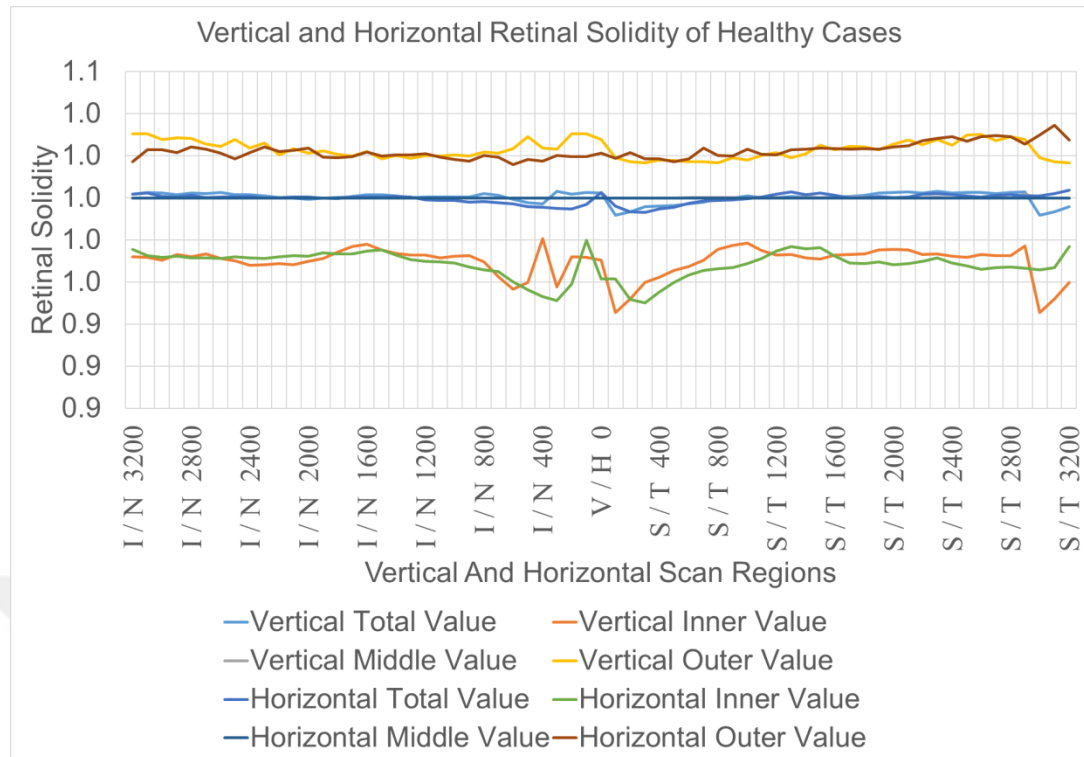


FIGURE 4.24. Vertical and Horizontal Retinal Solidity of Healthy Cases.

TABLE 4.29. Table of Entire ROI Vertical and Horizontal Retinal Solidity of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Retinal Solidity of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.8932±0.0343	0.8880±0.0385
Entire Inner Part (n=100)	0.5889±0.0463	0.5861±0.0450
Entire Middle Part (n=100)	0.7051±0.0623	0.6958±0.0614
Entire Outer Part (n=100)	0.7623±0.0973	0.7560±0.0951

4.3. CHOROIDAL RESULTS

Choroidal results were gathered together under these headlines: choroidal spot thickness, choroidal mean thickness, choroidal RFI, TRA, DRA, LRA, DAP, LAP, DLR, choroidal mean, choroidal standard deviation, choroidal skewness, choroidal kurtosis, choroidal perimeter, choroidal width, choroidal height, choroidal major, choroidal minor, choroidal angle, choroidal integrated density, choroidal raw integrated density, choroidal feret, choroidal minimum feret, choroidal feret angle, choroidal circularity, choroidal aspect ratio, choroidal roundness and choroidal solidity.

4.3.1. CHOROIDAL SPOT THICKNESS

Choroidal spot thickness is measured for both vertical and horizontal scans for 100 eyes. I 3200 is the thinnest point in vertical scans and the thickness is $243.0 \pm 72.4 \mu\text{m}$. V 0 or central point is the thickest point in vertical scans and the thickness is $305.5 \pm 69.0 \mu\text{m}$. N 3200 is the thinnest point in horizontal scans and the thickness is $163.5 \pm 53.8 \mu\text{m}$. T 100 is the thickest point in horizontal scans and the thickness is $305.7 \pm 75.8 \mu\text{m}$. Thus combining horizontal and vertical scans together, the thinnest point is N 3200 and the thickest point is T 100. H 0 is $305.1 \pm 76.9 \mu\text{m}$ thick and there is only $0.4 \mu\text{m}$ difference between the central points of vertical and horizontal scans which corresponds to each other (Table 4.30.) (Figure 4.25.).

TABLE 4.30. Table of Vertical and Horizontal Choroidal Spot Thickness of Healthy Cases.

Table of Vertical and Horizontal Choroidal Spot Thickness of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	243.0 $\pm$ 72.4	S 100	305.0 $\pm$ 68.7	N 3200	163.5 $\pm$ 53.8	T 100	305.7 $\pm$ 75.8
I 3100	247.1 $\pm$ 72.3	S 200	304.0 $\pm$ 67.5	N 3100	172.3 $\pm$ 56.2	T 200	305.3 $\pm$ 76.0
I 3000	249.5 $\pm$ 72.3	S 300	301.7 $\pm$ 66.2	N 3000	179.5 $\pm$ 58.6	T 300	303.2 $\pm$ 75.3
I 2900	251.8 $\pm$ 71.3	S 400	299.3 $\pm$ 64.1	N 2900	186.4 $\pm$ 60.1	T 400	300.9 $\pm$ 74.7
I 2800	254.2 $\pm$ 70.2	S 500	298.4 $\pm$ 61.9	N 2800	194.9 $\pm$ 61.9	T 500	298.3 $\pm$ 74.4
I 2700	255.2 $\pm$ 69.3	S 600	297.5 $\pm$ 60.5	N 2700	201.3 $\pm$ 62.7	T 600	295.3 $\pm$ 74.8
I 2600	257.1 $\pm$ 69.0	S 700	296.5 $\pm$ 60.8	N 2600	208.4 $\pm$ 63.4	T 700	291.4 $\pm$ 76.0
I 2500	258.3 $\pm$ 68.5	S 800	295.6 $\pm$ 61.0	N 2500	213.3 $\pm$ 64.2	T 800	288.4 $\pm$ 76.4
I 2400	259.1 $\pm$ 68.9	S 900	295.3 $\pm$ 60.6	N 2400	218.2 $\pm$ 64.8	T 900	285.0 $\pm$ 75.6
I 2300	260.8 $\pm$ 69.7	S 1000	293.9 $\pm$ 59.4	N 2300	223.3 $\pm$ 64.6	T 1000	281.7 $\pm$ 75.1
I 2200	263.2 $\pm$ 70.5	S 1100	293.5 $\pm$ 58.2	N 2200	229.3 $\pm$ 64.2	T 1100	278.9 $\pm$ 75.2
I 2100	265.6 $\pm$ 70.5	S 1200	293.4 $\pm$ 56.8	N 2100	233.3 $\pm$ 64.0	T 1200	277.3 $\pm$ 75.4
I 2000	267.4 $\pm$ 71.4	S 1300	293.0 $\pm$ 56.7	N 2000	236.9 $\pm$ 64.1	T 1300	276.2 $\pm$ 76.3
I 1900	268.6 $\pm$ 71.6	S 1400	291.5 $\pm$ 56.9	N 1900	241.1 $\pm$ 65.6	T 1400	275.1 $\pm$ 76.7
I 1800	269.7 $\pm$ 71.7	S 1500	289.3 $\pm$ 57.2	N 1800	245.6 $\pm$ 67.1	T 1500	273.4 $\pm$ 76.7
I 1700	271.2 $\pm$ 72.5	S 1600	289.4 $\pm$ 57.0	N 1700	250.0 $\pm$ 67.4	T 1600	271.6 $\pm$ 78.3
I 1600	272.5 $\pm$ 73.2	S 1700	288.7 $\pm$ 56.5	N 1600	253.3 $\pm$ 68.9	T 1700	270.2 $\pm$ 78.5
I 1500	273.0 $\pm$ 73.5	S 1800	288.6 $\pm$ 56.0	N 1500	256.0 $\pm$ 70.4	T 1800	268.6 $\pm$ 78.2
I 1400	275.5 $\pm$ 74.1	S 1900	288.1 $\pm$ 56.2	N 1400	260.2 $\pm$ 71.2	T 1900	267.2 $\pm$ 77.3
I 1300	277.0 $\pm$ 75.0	S 2000	288.1 $\pm$ 56.8	N 1300	264.5 $\pm$ 72.2	T 2000	266.3 $\pm$ 76.0
I 1200	278.6 $\pm$ 74.1	S 2100	288.3 $\pm$ 56.8	N 1200	267.5 $\pm$ 73.4	T 2100	264.5 $\pm$ 75.4
I 1100	278.7 $\pm$ 73.6	S 2200	286.9 $\pm$ 58.3	N 1100	271.6 $\pm$ 73.0	T 2200	262.4 $\pm$ 75.6
I 1000	279.3 $\pm$ 73.6	S 2300	286.5 $\pm$ 58.8	N 1000	276.0 $\pm$ 73.3	T 2300	260.9 $\pm$ 75.2
I 900	281.1 $\pm$ 72.0	S 2400	286.1 $\pm$ 59.7	N 900	280.4 $\pm$ 72.6	T 2400	258.7 $\pm$ 74.4
I 800	283.6 $\pm$ 71.6	S 2500	286.3 $\pm$ 60.3	N 800	284.4 $\pm$ 72.9	T 2500	255.9 $\pm$ 73.0
I 700	285.4 $\pm$ 71.5	S 2600	285.2 $\pm$ 61.5	N 700	287.5 $\pm$ 72.8	T 2600	251.8 $\pm$ 72.3
I 600	288.0 $\pm$ 70.5	S 2700	283.7 $\pm$ 62.1	N 600	289.9 $\pm$ 73.1	T 2700	248.9 $\pm$ 72.1
I 500	290.5 $\pm$ 69.0	S 2800	282.0 $\pm$ 63.2	N 500	292.2 $\pm$ 73.7	T 2800	245.9 $\pm$ 71.8
I 400	293.0 $\pm$ 67.6	S 2900	280.4 $\pm$ 64.8	N 400	295.0 $\pm$ 74.3	T 2900	242.7 $\pm$ 71.6
I 300	297.0 $\pm$ 67.4	S 3000	278.4 $\pm$ 67.8	N 300	297.5 $\pm$ 75.3	T 3000	240.2 $\pm$ 70.8
I 200	301.5 $\pm$ 68.1	S 3100	275.7 $\pm$ 68.7	N 200	300.7 $\pm$ 77.0	T 3100	236.8 $\pm$ 71.3
I 100	304.1 $\pm$ 68.7	S 3200	270.1 $\pm$ 70.8	N 100	303.2 $\pm$ 76.3	T 3200	231.5 $\pm$ 72.0
V 0	305.5 $\pm$ 69.0			H 0	305.1 $\pm$ 76.9		

4.3.2. CHOROIDAL MEAN THICKNESS

Choroidal mean thickness is measured for both vertical and horizontal scans for 100 eyes. It is the mean thickness in an area of 100 μm width. I 3200 is the thinnest region in vertical scans and the thickness is $237.0 \pm 72.7 \mu\text{m}$. V 0 or the central region is the thickest region in vertical scans and the thickness is $302.6 \pm 68.7 \mu\text{m}$. N 3200 is the thinnest region in horizontal scans and the thickness is $158.8 \pm 53.3 \mu\text{m}$. T 100 is

the thickest region in horizontal scans and the thickness is $302.9 \pm 76.2 \mu\text{m}$. Thus combining horizontal and vertical scans together, the thinnest region is N 3200 and the thickest region is T 100. H 0 or the central region is $302.1 \pm 76.6 \mu\text{m}$ thick and there is only $0.5 \mu\text{m}$ difference between the central regions of vertical and horizontal scans which corresponds to each other (Table 4.31.) (Figure 4.25.).

TABLE 4.31. Table of Vertical and Horizontal Choroidal Mean Thickness of Healthy Cases.

Table of Vertical and Horizontal Choroidal Mean Thickness of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	237.0 $\pm$ 72.7	S 100	302.3 $\pm$ 68.4	N 3200	158.8 $\pm$ 53.3	T 100	302.9 $\pm$ 76.2
I 3100	241.3 $\pm$ 72.4	S 200	301.0 $\pm$ 67.8	N 3100	167.6 $\pm$ 56.0	T 200	302.4 $\pm$ 76.2
I 3000	243.9 $\pm$ 72.3	S 300	298.5 $\pm$ 66.5	N 3000	174.5 $\pm$ 58.0	T 300	300.4 $\pm$ 75.9
I 2900	246.4 $\pm$ 71.4	S 400	296.1 $\pm$ 64.4	N 2900	181.7 $\pm$ 60.2	T 400	297.7 $\pm$ 75.6
I 2800	248.7 $\pm$ 70.3	S 500	294.6 $\pm$ 62.3	N 2800	189.9 $\pm$ 61.6	T 500	294.7 $\pm$ 75.1
I 2700	250.4 $\pm$ 69.5	S 600	293.7 $\pm$ 60.8	N 2700	196.7 $\pm$ 62.4	T 600	291.4 $\pm$ 75.2
I 2600	251.9 $\pm$ 68.7	S 700	292.6 $\pm$ 60.9	N 2600	203.3 $\pm$ 63.0	T 700	287.8 $\pm$ 76.1
I 2500	253.0 $\pm$ 68.3	S 800	291.8 $\pm$ 61.0	N 2500	208.5 $\pm$ 64.2	T 800	284.2 $\pm$ 76.4
I 2400	253.9 $\pm$ 68.7	S 900	291.1 $\pm$ 60.8	N 2400	213.3 $\pm$ 64.4	T 900	280.4 $\pm$ 75.7
I 2300	255.6 $\pm$ 69.5	S 1000	290.1 $\pm$ 60.0	N 2300	218.4 $\pm$ 64.5	T 1000	277.4 $\pm$ 75.0
I 2200	258.1 $\pm$ 69.9	S 1100	289.4 $\pm$ 58.7	N 2200	224.5 $\pm$ 64.4	T 1100	274.7 $\pm$ 75.1
I 2100	260.6 $\pm$ 70.4	S 1200	289.2 $\pm$ 57.3	N 2100	228.5 $\pm$ 63.9	T 1200	273.0 $\pm$ 75.6
I 2000	262.5 $\pm$ 71.1	S 1300	289.0 $\pm$ 56.7	N 2000	232.4 $\pm$ 63.9	T 1300	271.7 $\pm$ 76.3
I 1900	263.8 $\pm$ 71.6	S 1400	287.2 $\pm$ 56.7	N 1900	236.5 $\pm$ 65.1	T 1400	270.1 $\pm$ 76.8
I 1800	265.0 $\pm$ 72.1	S 1500	285.3 $\pm$ 57.0	N 1800	241.0 $\pm$ 66.5	T 1500	268.5 $\pm$ 77.1
I 1700	266.5 $\pm$ 72.6	S 1600	285.0 $\pm$ 57.2	N 1700	245.4 $\pm$ 67.2	T 1600	266.6 $\pm$ 78.1
I 1600	267.5 $\pm$ 73.1	S 1700	284.4 $\pm$ 56.6	N 1600	249.1 $\pm$ 68.5	T 1700	264.9 $\pm$ 78.4
I 1500	268.5 $\pm$ 73.5	S 1800	283.7 $\pm$ 56.4	N 1500	252.0 $\pm$ 69.8	T 1800	263.6 $\pm$ 78.1
I 1400	270.6 $\pm$ 74.1	S 1900	283.3 $\pm$ 56.6	N 1400	255.8 $\pm$ 71.1	T 1900	262.7 $\pm$ 77.1
I 1300	272.4 $\pm$ 74.7	S 2000	283.2 $\pm$ 56.9	N 1300	260.1 $\pm$ 72.2	T 2000	261.6 $\pm$ 76.0
I 1200	274.0 $\pm$ 74.4	S 2100	283.1 $\pm$ 56.9	N 1200	263.3 $\pm$ 72.9	T 2100	259.9 $\pm$ 75.5
I 1100	274.3 $\pm$ 73.8	S 2200	282.3 $\pm$ 58.1	N 1100	267.1 $\pm$ 73.0	T 2200	257.6 $\pm$ 75.3
I 1000	275.1 $\pm$ 73.5	S 2300	281.4 $\pm$ 58.9	N 1000	271.8 $\pm$ 73.1	T 2300	255.9 $\pm$ 75.1
I 900	277.0 $\pm$ 72.3	S 2400	281.1 $\pm$ 59.4	N 900	276.6 $\pm$ 72.7	T 2400	253.6 $\pm$ 74.1
I 800	279.8 $\pm$ 71.8	S 2500	281.1 $\pm$ 60.2	N 800	280.7 $\pm$ 72.9	T 2500	250.9 $\pm$ 72.9
I 700	282.0 $\pm$ 71.6	S 2600	280.1 $\pm$ 61.1	N 700	283.7 $\pm$ 72.8	T 2600	246.8 $\pm$ 72.1
I 600	284.2 $\pm$ 70.6	S 2700	278.7 $\pm$ 62.2	N 600	286.2 $\pm$ 73.1	T 2700	243.7 $\pm$ 71.7
I 500	286.7 $\pm$ 69.4	S 2800	276.8 $\pm$ 63.2	N 500	288.8 $\pm$ 73.7	T 2800	240.6 $\pm$ 71.5
I 400	289.7 $\pm$ 68.1	S 2900	275.1 $\pm$ 64.7	N 400	291.5 $\pm$ 74.1	T 2900	237.3 $\pm$ 71.2
I 300	293.5 $\pm$ 67.6	S 3000	273.7 $\pm$ 67.3	N 300	294.4 $\pm$ 75.0	T 3000	234.9 $\pm$ 70.8
I 200	297.9 $\pm$ 68.1	S 3100	270.8 $\pm$ 68.3	N 200	297.3 $\pm$ 76.3	T 3100	231.7 $\pm$ 71.3
I 100	301.2 $\pm$ 68.6	S 3200	264.8 $\pm$ 70.1	N 100	300.1 $\pm$ 76.7	T 3200	226.3 $\pm$ 71.8
V 0	302.6 $\pm$ 68.7			H 0	302.1 $\pm$ 76.6		

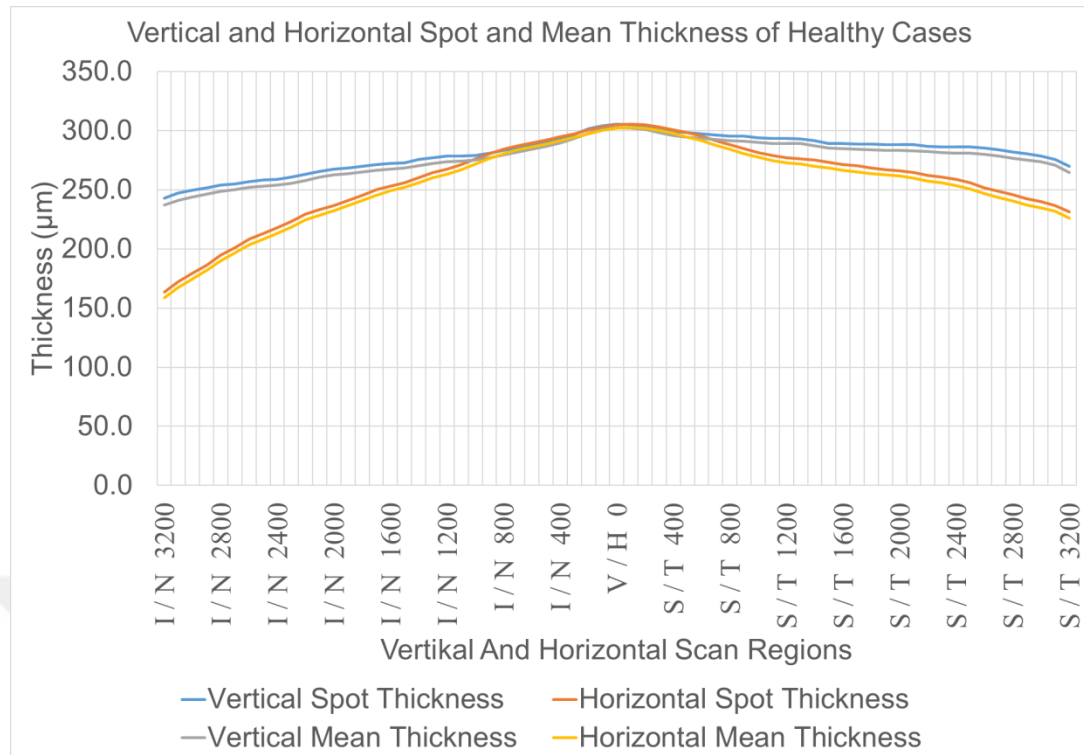


FIGURE 4.25. Vertical and Horizontal Choroidal Spot and Mean Thickness of Healthy Cases.

4.3.3. CHOROIDAL RFI

Choroidal RFI is measured for both vertical and horizontal scans for 100 eyes. S 3100 is the lowest value total region in vertical scans and the value is 0.938 ± 0.167 . V 0 is the highest value total region in vertical scans and the value is 0.987 ± 0.012 . I 2500 is the lowest value inner region in vertical scans and the value is 0.909 ± 0.163 . I 200 is the highest value inner region in vertical scans and the value is 0.975 ± 0.024 . I 2900 is the lowest value middle region in vertical scans and the value is 0.97 ± 0.171 . S 100 is the highest value middle region in vertical scans and the value is 1 ± 0 . I 3100 is the lowest value outer region in vertical scans and the value is 0.929 ± 0.171 . S 100 is the highest value outer region in vertical scans and the value is 0.99 ± 0.014 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 2500 and highest value region is the middle S 100 (Table S.47.) (Figure 4.26.).

N 2900 is the lowest value total region in horizontal scans and the value is 0.946 ± 0.034 . H 0 is the highest value total region in horizontal scans and the value is

0.986 ± 0.011 . N 2900 is the lowest value inner region in horizontal scans and the value is 0.916 ± 0.046 . H 0 is the highest value inner region in horizontal scans and the value is 0.976 ± 0.025 . N 2900 is the lowest value middle region in horizontal scans and the value is 1 ± 0 . T 100 is the highest value middle region in horizontal scans and the value is 1 ± 0 . N 3200 is the lowest value outer region in horizontal scans and the value is 0.925 ± 0.07 . H 0 is the highest value outer region in horizontal scans and the value is 0.986 ± 0.026 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner N 2900 and highest value region is the middle T 100 (Table S.48.) (Figure 4.26.). The mean vertical and horizontal values of all regions can be seen in Table 4.32.

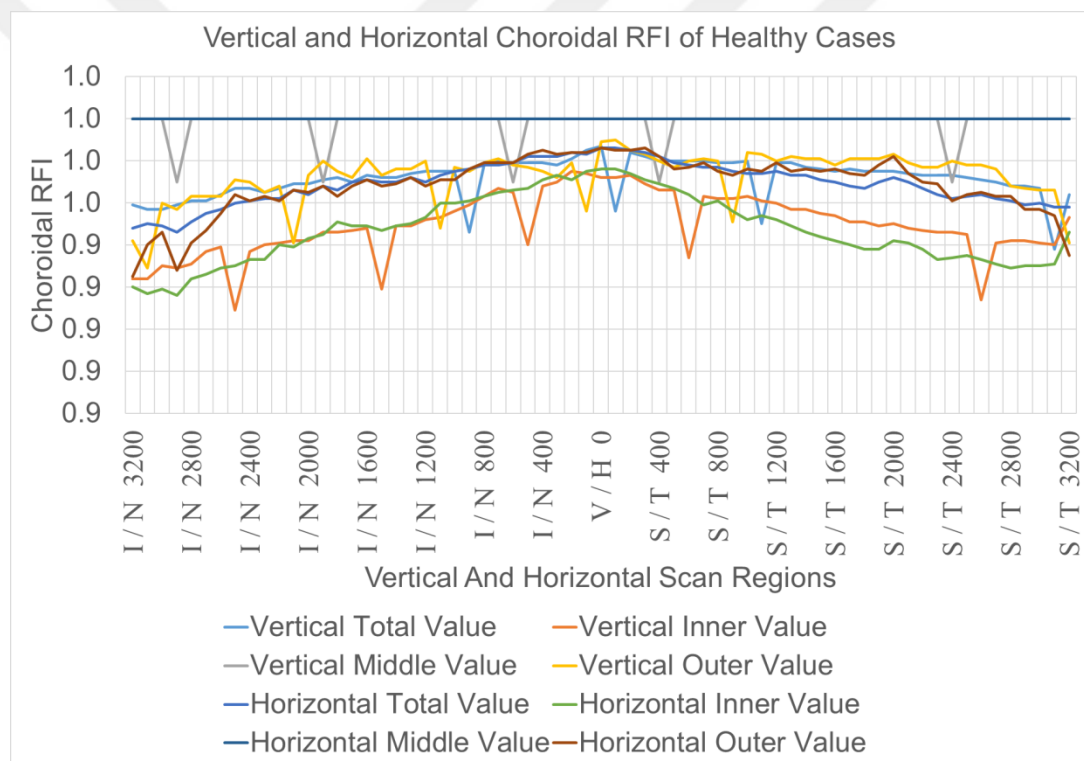


FIGURE 4.26. Vertical and Horizontal Choroidal RFI of Healthy Cases.

TABLE 4.32. Table of Entire ROI Vertical and Horizontal Choroidal RFI of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal RFI of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.674 $\pm$ 0.090	0.643 $\pm$ 0.085
Entire Inner Part (n=100)	0.473 $\pm$ 0.115	0.463 $\pm$ 0.125
Entire Middle Part (n=100)	0.444 $\pm$ 0.112	0.402 $\pm$ 0.095
Entire Outer Part (n=100)	0.385 $\pm$ 0.106	0.320 $\pm$ 0.073

4.3.4. TCA

TCA is measured for both vertical and horizontal scans for 100 eyes. I 3200 is the lowest value total region in vertical scans and the value is $23702 \pm 7269.4 \mu\text{m}^2$. V 0 is the highest value total region in vertical scans and the value is $30261.8 \pm 6869.5 \mu\text{m}^2$. I 3200 is the lowest value inner region in vertical scans and the value is $7801.5 \pm 2436.4 \mu\text{m}^2$. I 100 is the highest value inner region in vertical scans and the value is $9957.4 \pm 2262.2 \mu\text{m}^2$. I 3200 is the lowest value middle region in vertical scans and the value is $8211.8 \pm 2406.4 \mu\text{m}^2$. V 0 is the highest value middle region in vertical scans and the value is $10211.8 \pm 2271.6 \mu\text{m}^2$. I 3200 is the lowest value outer region in vertical scans and the value is $7646.6 \pm 2489.8 \mu\text{m}^2$. V 0 is the highest value outer region in vertical scans and the value is $9984.8 \pm 2319.2 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle V 0 (Table S.49.) (Figure 4.27.).

N 3200 is the lowest value total region in horizontal scans and the value is $15878.4 \pm 5328 \mu\text{m}^2$. T 100 is the highest value total region in horizontal scans and the value is $30288.2 \pm 7615.1 \mu\text{m}^2$. N 3200 is the lowest value inner region in horizontal scans and the value is $5423.5 \pm 1898.1 \mu\text{m}^2$. H 0 is the highest value inner region in horizontal scans and the value is $10009.8 \pm 2549.3 \mu\text{m}^2$. N 3200 is the lowest value middle region in horizontal scans and the value is $5580.4 \pm 1824 \mu\text{m}^2$. T 100 is the highest value middle region in horizontal scans and the value is $10243.1 \pm 2519.5 \mu\text{m}^2$. N 3200 is the lowest value outer region in horizontal scans and the value is $5021.6 \pm 1737.7 \mu\text{m}^2$. T 100 is the highest value outer region in horizontal scans and the value is $9963.7 \pm 2536.3 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal

scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.50.) (Figure 4.27.). The mean vertical and horizontal values of all regions can be seen in Table 4.33.

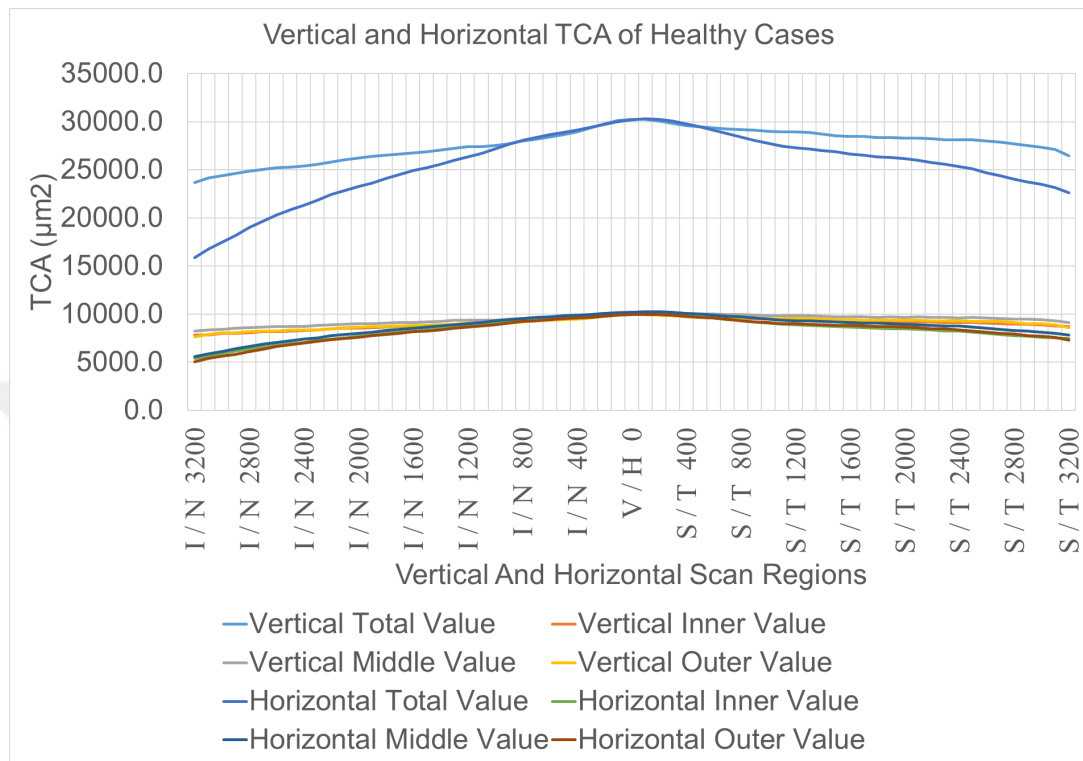


FIGURE 4.27. Vertical and Horizontal Choroidal TCA of Healthy Cases.

TABLE 4.33. Table of Entire Vertical and Horizontal TCA of Healthy Cases.

Table of Entire Vertical and Horizontal TCA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1799591.2 $\pm$ 365971.8	1657121.6 $\pm$ 410068.5
Entire Inner Part (n=100)	587126.5 $\pm$ 122421.1	541008.8 $\pm$ 137457.9
Entire Middle Part (n=100)	615141.2 $\pm$ 122360.8	568411.8 $\pm$ 137228.9
Entire Outer Part (n=100)	592567.2 $\pm$ 121742.2	543947.1 $\pm$ 135597.5

4.3.5. LCA

LCA is measured for both vertical and horizontal scans for 100 eyes. I 3200 is the lowest value total region in vertical scans and the value is $20984.2 \pm 7235.7 \mu\text{m}^2$. V 0 is the highest value total region in vertical scans and the value is $26379.8 \pm 6956.5 \mu\text{m}^2$. I 3200 is the lowest value inner region in vertical scans and the value is $7000.7 \pm 2415 \mu\text{m}^2$. I 100 is the highest value inner region in vertical scans and the value is $8913.8 \pm 2345.9 \mu\text{m}^2$. I 3200 is the lowest value middle region in vertical scans and the value is $7120.7 \pm 2455.1 \mu\text{m}^2$. S 300 is the highest value middle region in vertical scans and the value is $8849.1 \pm 2392.3 \mu\text{m}^2$. I 3200 is the lowest value outer region in vertical scans and the value is $6890.1 \pm 2507.9 \mu\text{m}^2$. V 0 is the highest value outer region in vertical scans and the value is $8558.4 \pm 2491.8 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the inner I 100 (Table S.51.) (Figure 4.28.).

N 3200 is the lowest value total region in horizontal scans and the value is $13199.8 \pm 5650.5 \mu\text{m}^2$. T 200 is the highest value total region in horizontal scans and the value is $26555.2 \pm 7544.1 \mu\text{m}^2$. N 3200 is the lowest value inner region in horizontal scans and the value is $4513.6 \pm 2055.3 \mu\text{m}^2$. H 0 is the highest value inner region in horizontal scans and the value is $8984.6 \pm 2602.8 \mu\text{m}^2$. N 3200 is the lowest value middle region in horizontal scans and the value is $4349.5 \pm 2220.7 \mu\text{m}^2$. H 0 is the highest value middle region in horizontal scans and the value is $8800.8 \pm 2554.7 \mu\text{m}^2$. N 3200 is the lowest value outer region in horizontal scans and the value is $4370.8 \pm 1828.7 \mu\text{m}^2$. T 100 is the highest value outer region in horizontal scans and the value is $8712.1 \pm 2810.5 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle N 3200 and highest value region is the inner H 0 (Table S.52.) (Figure 4.28.). The mean vertical and horizontal values of all regions can be seen in Table 4.34.

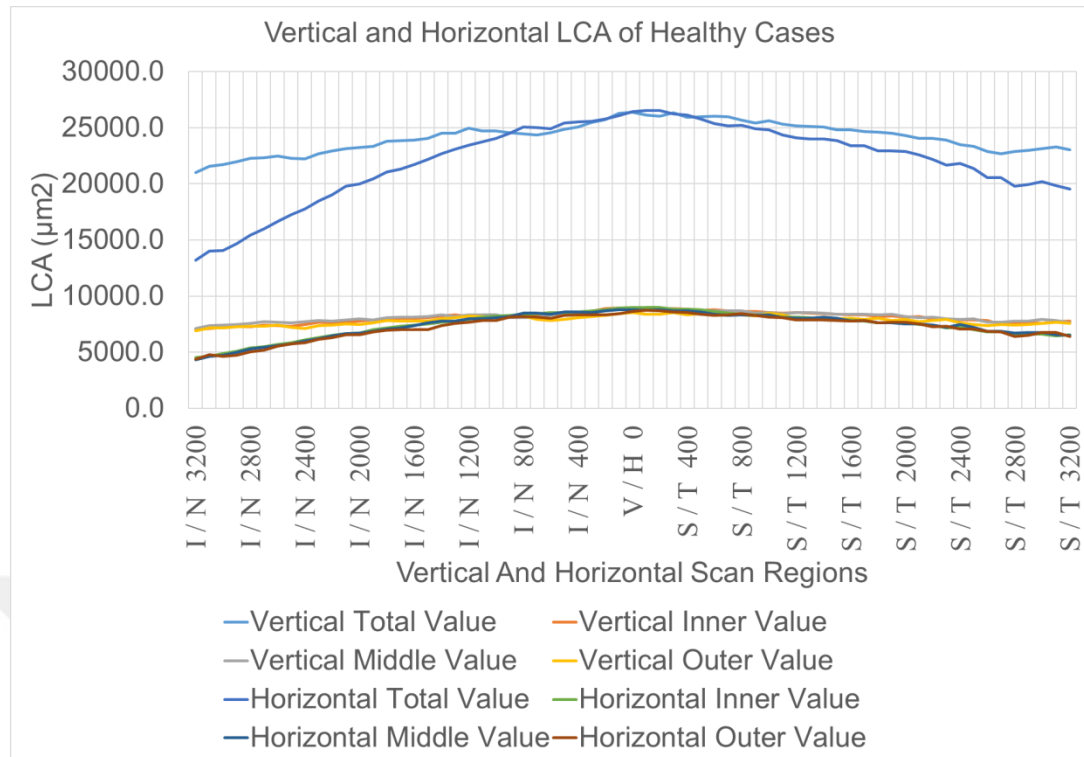


FIGURE 4.28. Vertical and Horizontal Choroidal LCA of Healthy Cases.

TABLE 4.34. Table of Entire ROI Vertical and Horizontal LCA of Healthy Cases.

Table of Entire ROI Vertical and Horizontal LCA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1569063.8 $\pm$ 360785.9	1434714.8 $\pm$ 404780.4
Entire Inner Part (n=100)	524698.8 $\pm$ 121271.7	479497.8 $\pm$ 135504.9
Entire Middle Part (n=100)	530803.3 $\pm$ 121372.5	481400.1 $\pm$ 136964.7
Entire Outer Part (n=100)	511224.5 $\pm$ 118786.5	472052.0 $\pm$ 132949.5

4.3.6. SCA

SCA is measured for both vertical and horizontal scans for 100 eyes. S 1600 is the lowest value total region in vertical scans and the value is $20117.6 \pm 1948.3 \mu\text{m}^2$. I 2700 is the highest value total region in vertical scans and the value is $29917.7 \pm 1502.3 \mu\text{m}^2$. S 1000 is the lowest value inner region in vertical scans and the value is $2017.1 \pm 667.1 \mu\text{m}^2$. S 3000 is the highest value inner region in vertical scans and the value is $29917.4 \pm 942.6 \mu\text{m}^2$. I 1400 is the lowest value middle region in vertical scans and the value is $2417.3 \pm 621.4 \mu\text{m}^2$. S 1300 is the highest value middle region in

vertical scans and the value is $29617.4 \pm 727.1 \mu\text{m}^2$. I 3100 is the lowest value outer region in vertical scans and the value is $2017.4 \pm 626.4 \mu\text{m}^2$. S 2200 is the highest value outer region in vertical scans and the value is $29817.9 \pm 1147.8 \mu\text{m}^2$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 1000 and highest value region is the inner S 3000 (Table S.53.) (Figure 4.29.).

N 3200 is the lowest value total region in horizontal scans and the value is $2678.7 \pm 1374.4 \mu\text{m}^2$. T 2800 is the highest value total region in horizontal scans and the value is $4252.8 \pm 2720.6 \mu\text{m}^2$. T 1200 is the lowest value inner region in horizontal scans and the value is $740.5 \pm 494.5 \mu\text{m}^2$. T 2600 is the highest value inner region in horizontal scans and the value is $1188.7 \pm 916.3 \mu\text{m}^2$. N 1400 is the lowest value middle region in horizontal scans and the value is $1001.8 \pm 785.5 \mu\text{m}^2$. T 2600 is the highest value middle region in horizontal scans and the value is $1668.5 \pm 1336.3 \mu\text{m}^2$. N 3100 is the lowest value outer region in horizontal scans and the value is $645.7 \pm 681.8 \mu\text{m}^2$. T 2800 is the highest value outer region in horizontal scans and the value is $1533.7 \pm 1566.5 \mu\text{m}^2$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3100 and highest value region is the middle T 2600 (Table S.54.) (Figure 4.29.). The mean vertical and horizontal values of all regions can be seen in Table 4.35.

TABLE 4.35. Table of Entire ROI Vertical and Horizontal SCA of Healthy Cases.

Table of Entire ROI Vertical and Horizontal SCA of Healthy Cases (μm^2)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	230527.4 $\pm$ 81191.0	222406.8 $\pm$ 77903.1
Entire Inner Part (n=100)	62427.6 $\pm$ 27504.9	61511.0 $\pm$ 27808.0
Entire Middle Part (n=100)	84337.9 $\pm$ 29062.7	87011.7 $\pm$ 29720.7
Entire Outer Part (n=100)	81342.7 $\pm$ 27556.1	71895.0 $\pm$ 24605.1

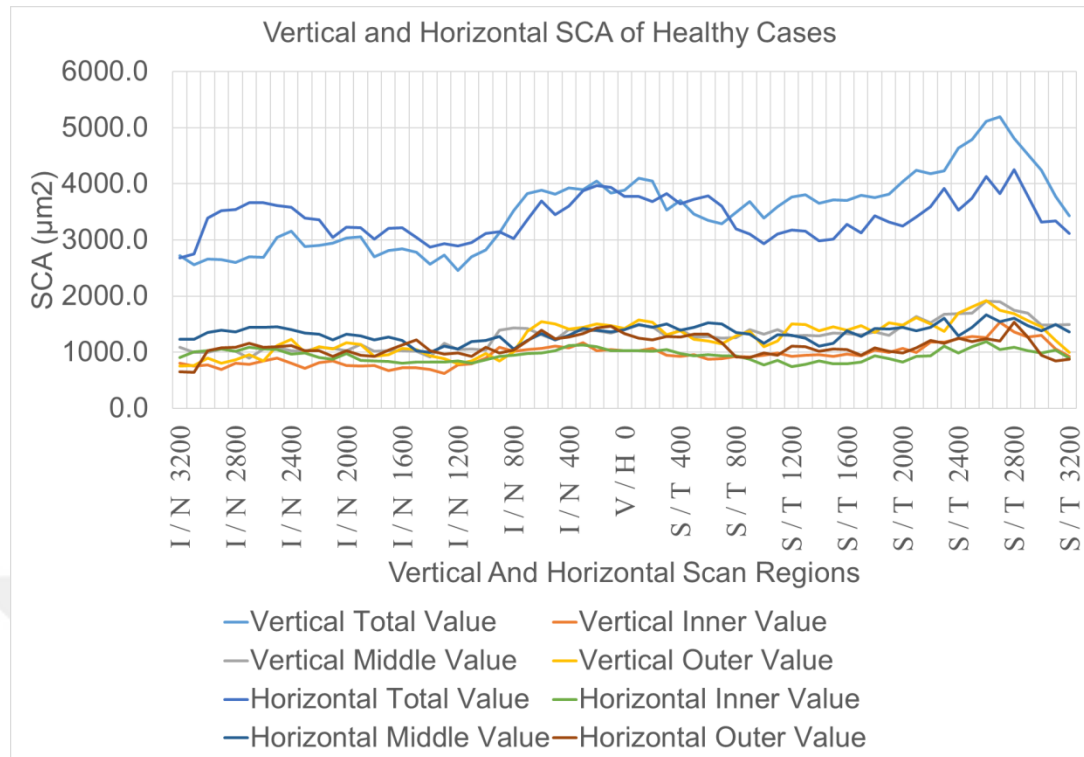


FIGURE 4.29. Vertical and Horizontal Choroidal SCA of Healthy Cases.

4.3.7. CVI

CVI is measured for both vertical and horizontal scans for 100 eyes. S 100 is the lowest value total region in vertical scans and the value is $66.4 \pm 8.9\%$. I 1200 is the highest value total region in vertical scans and the value is $71.7 \pm 8.4\%$. I 2500 is the lowest value inner region in vertical scans and the value is $71.4 \pm 14.7\%$. I 1300 is the highest value inner region in vertical scans and the value is $77.1 \pm 12.7\%$. S 3200 is the lowest value middle region in vertical scans and the value is $61.3 \pm 22.3\%$. I 500 is the highest value middle region in vertical scans and the value is $71.3 \pm 16.6\%$. S 100 is the lowest value outer region in vertical scans and the value is $61.7 \pm 20.8\%$. S 2300 is the highest value outer region in vertical scans and the value is $72.5 \pm 20.8\%$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 3200 and highest value region is the inner I 1300 (Table S.55.) (Figure 4.30.).

T 2800 is the lowest value total region in horizontal scans and the value is $65.9 \pm 12\%$. N 3100 is the highest value total region in horizontal scans and the value is $73.6 \pm 10.7\%$. N 200 is the lowest value inner region in horizontal scans and the value is $71.9 \pm 12.6\%$. T 1000 is the highest value inner region in horizontal scans and the value is $78.3 \pm 12.5\%$. T 3200 is the lowest value middle region in horizontal scans and the value is $59.4 \pm 20.9\%$. N 800 is the highest value middle region in horizontal scans and the value is $73.2 \pm 17.7\%$. T 2800 is the lowest value outer region in horizontal scans and the value is $63.9 \pm 27.8\%$. N 3100 is the highest value outer region in horizontal scans and the value is $78.1 \pm 22.1\%$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 3200 and highest value region is the inner T 1000 (Table S.56.) (Figure 4.30.). The mean vertical and horizontal values of all regions can be seen in Table 4.36.

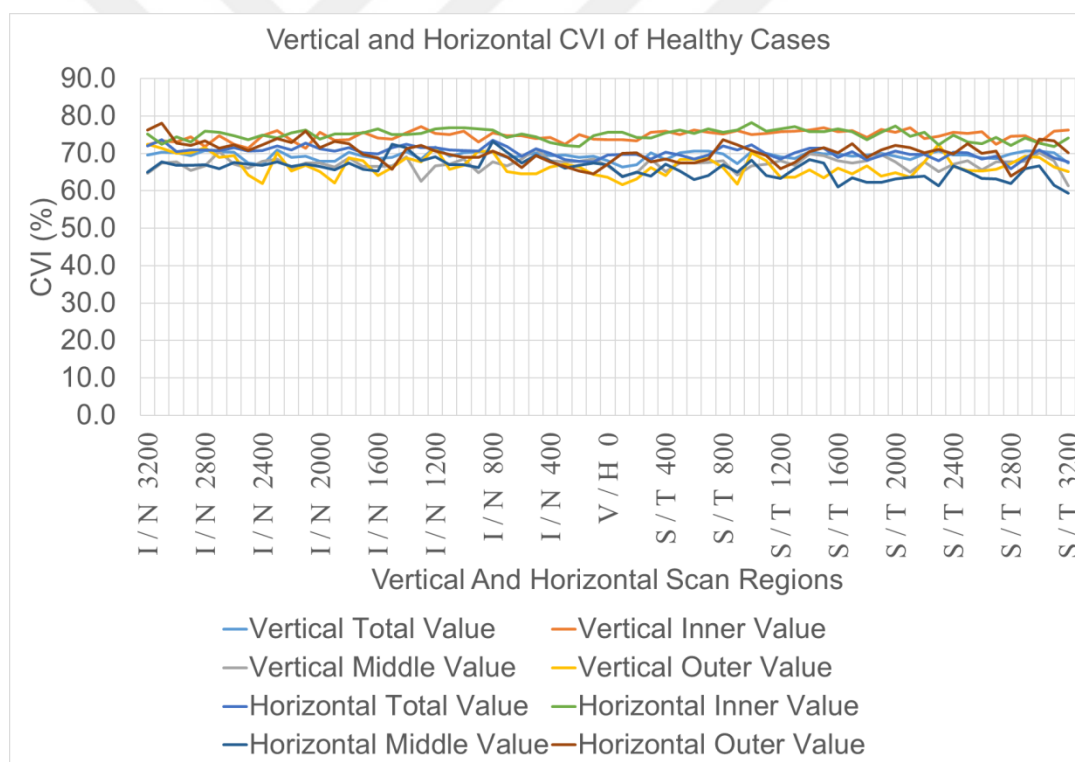


FIGURE 4.30. Vertical and Horizontal Choroidal CVI of Healthy Cases.

TABLE 4.36. Table of Entire ROI Vertical and Horizontal CVI of Healthy Cases.

Table of Entire ROI Vertical and Horizontal CVI of Healthy Cases (%)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	69.2$\pm$2.6	70.1$\pm$2.7
Entire Inner Part (n=100)	74.5$\pm$4.6	74.8$\pm$5.0
Entire Middle Part (n=100)	67.2$\pm$3.9	66.0$\pm$4.1
Entire Outer Part (n=100)	66.6$\pm$4.3	70.3$\pm$4.7

4.3.8. SAP

SAP is measured for both vertical and horizontal scans for 100 eyes. I 1200 is the lowest value total region in vertical scans and the value is $28.3 \pm 8.4\%$. S 100 is the highest value total region in vertical scans and the value is $33.6 \pm 8.9\%$. I 1300 is the lowest value inner region in vertical scans and the value is $22.9 \pm 12.7\%$. I 2100 is the highest value inner region in vertical scans and the value is $28.6 \pm 14.9\%$. I 500 is the lowest value middle region in vertical scans and the value is $28.7 \pm 16.6\%$. S 3200 is the highest value middle region in vertical scans and the value is $38.7 \pm 22.3\%$. S 2300 is the lowest value outer region in vertical scans and the value is $27.5 \pm 20.8\%$. S 100 is the highest value outer region in vertical scans and the value is $38.3 \pm 20.8\%$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 1300 and highest value region is the middle S 3200 (Table S.57.) (Figure 4.31.).

N 3100 is the lowest value total region in horizontal scans and the value is $26.4 \pm 10.7\%$. T 2800 is the highest value total region in horizontal scans and the value is $34.1 \pm 12\%$. T 1000 is the lowest value inner region in horizontal scans and the value is $21.7 \pm 12.5\%$. N 200 is the highest value inner region in horizontal scans and the value is $28.1 \pm 12.6\%$. N 800 is the lowest value middle region in horizontal scans and the value is $26.8 \pm 17.7\%$. T 3200 is the highest value middle region in horizontal scans and the value is $40.6 \pm 20.9\%$. N 3100 is the lowest value outer region in horizontal scans and the value is $21.9 \pm 22.1\%$. T 2800 is the highest value outer region in horizontal scans and the value is $36.1 \pm 27.8\%$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T

1000 and highest value region is the middle T 3200 (Table S.58.) (Figure 4.31.). The mean vertical and horizontal values of all regions can be seen in Table 4.37.

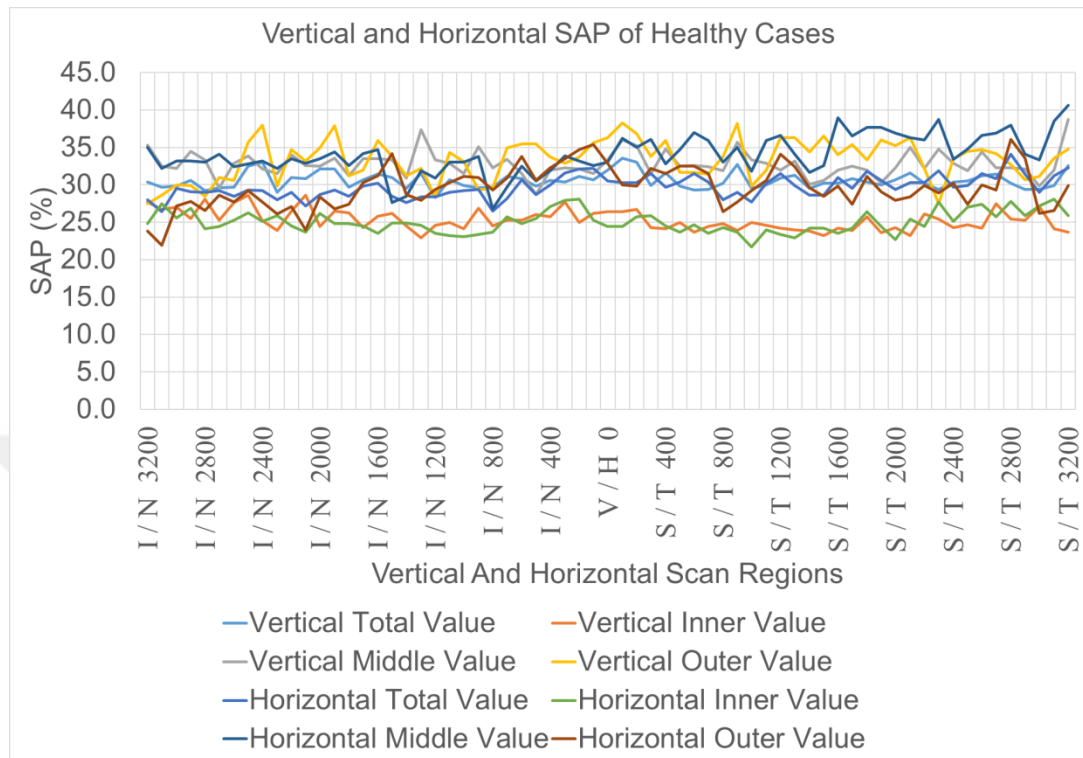


FIGURE 4.31. Vertical and Horizontal Choroidal SAP of Healthy Cases.

TABLE 4.37. Table of Entire ROI Vertical and Horizontal SAP of Healthy Cases.

Table of Entire ROI Vertical and Horizontal SAP of Healthy Cases (%)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	30.8±2.6	29.9±2.7
Entire Inner Part (n=100)	25.5±4.6	25.2±5.0
Entire Middle Part (n=100)	32.8±3.9	34.0±4.1
Entire Outer Part (n=100)	33.4±4.3	29.7±4.7

4.3.9. LSR

LSR is measured for both vertical and horizontal scans for 100 eyes. S 100 is the lowest value total region in vertical scans and the value is 2.22 ± 1.07 . S 2800 is the highest value total region in vertical scans and the value is 4.32 ± 10.74 . I 2600 is the lowest value inner region in vertical scans and the value is 4.02 ± 3.73 . S 1700 is the highest value inner region in vertical scans and the value is 9.12 ± 17.7 . S 100 is the lowest value middle region in vertical scans and the value is 3.11 ± 4.18 . I 100 is the highest value middle region in vertical scans and the value is 10.43 ± 31.46 . I 1700 is the lowest value outer region in vertical scans and the value is 3.79 ± 4.36 . I 2800 is the highest value outer region in vertical scans and the value is 15.46 ± 39.29 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 100 and highest value region is the outer I 2800 (Table S.59.) (Figure 4.32.).

N 200 is the lowest value total region in horizontal scans and the value is 2.39 ± 1.23 . N 2400 is the highest value total region in horizontal scans and the value is 5.41 ± 22.95 . N 200 is the lowest value inner region in horizontal scans and the value is 3.68 ± 3.01 . N 1000 is the highest value inner region in horizontal scans and the value is 10 ± 25.65 . T 1900 is the lowest value middle region in horizontal scans and the value is 2.79 ± 5.43 . N 1400 is the highest value middle region in horizontal scans and the value is 9.75 ± 25.06 . N 100 is the lowest value outer region in horizontal scans and the value is 2.95 ± 3.44 . T 1700 is the highest value outer region in horizontal scans and the value is 15.32 ± 34.32 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 1900 and highest value region is the outer T 1700 (Table S.60.) (Figure 4.32.). The mean vertical and horizontal values of all regions can be seen in Table 4.38.

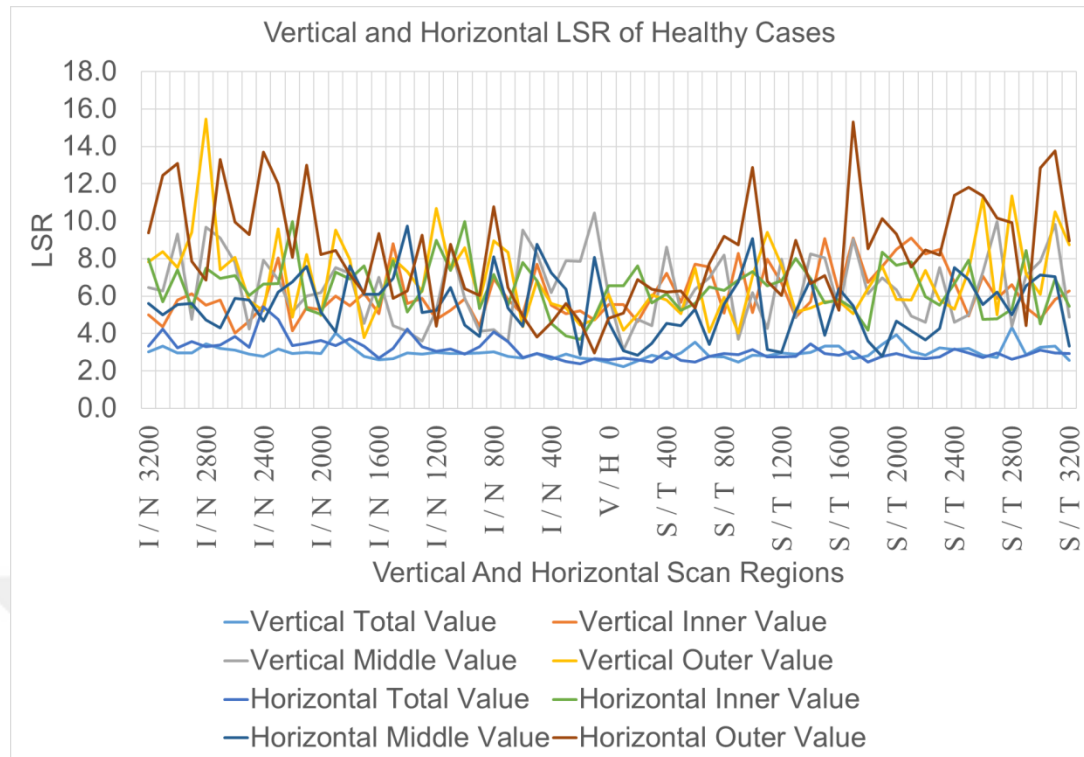


FIGURE 4.32. Vertical and Horizontal Choroidal LSR of Healthy Cases.

TABLE 4.38. Table of Entire ROI Vertical and Horizontal LSR of Healthy Cases.

Table of Entire ROI Vertical and Horizontal LSR of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	2.27±0.31	2.37±0.34
Entire Inner Part (n=100)	3.06±0.81	3.19±1.28
Entire Middle Part (n=100)	2.10±0.40	1.99±0.41
Entire Outer Part (n=100)	2.05±0.44	2.45±0.59

4.3.10. CHOROIDAL MEAN

Choroidal mean is measured for both vertical and horizontal scans for 100 eyes. I 1200 is the lowest value total region in vertical scans and the value is 72.1 ± 21.5 PV. S 100 is the highest value total region in vertical scans and the value is 85.8 ± 22.6 PV. I 1300 is the lowest value inner region in vertical scans and the value is 58.5 ± 32.4 PV. I 2500 is the highest value inner region in vertical scans and the value is 73 ± 37.4 PV. I 500 is the lowest value middle region in vertical scans and the value is 73.2 ± 42.4 PV. S 3200 is the highest value middle region in vertical scans and the value is

98.7 ± 56.8 PV. S 2300 is the lowest value outer region in vertical scans and the value is 70.2 ± 53 PV. S 100 is the highest value outer region in vertical scans and the value is 97.7 ± 53 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 1300 and highest value region is the middle S 3200 (Table S.61.) (Figure 4.33.).

N 3100 is the lowest value total region in horizontal scans and the value is 67.4 ± 27.3 PV. T 2800 is the highest value total region in horizontal scans and the value is 87 ± 30.6 PV. T 1000 is the lowest value inner region in horizontal scans and the value is 55.3 ± 32 PV. N 200 is the highest value inner region in horizontal scans and the value is 71.6 ± 32.3 PV. N 800 is the lowest value middle region in horizontal scans and the value is 68.3 ± 45.1 PV. T 3200 is the highest value middle region in horizontal scans and the value is 103.4 ± 53.4 PV. N 3100 is the lowest value outer region in horizontal scans and the value is 55.8 ± 56.4 PV. T 2800 is the highest value outer region in horizontal scans and the value is 92 ± 70.9 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 1000 and highest value region is the middle T 3200 (Table S.62.) (Figure 4.33.). The mean vertical and horizontal values of all regions can be seen in Table 4.39.

TABLE 4.39. Table of Entire ROI Vertical and Horizontal Choroidal Mean of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Mean of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	76.3±6.8	78.5±6.7
Entire Inner Part (n=100)	64.2±12.7	65.0±11.6
Entire Middle Part (n=100)	86.8±10.4	83.5±9.9
Entire Outer Part (n=100)	75.8±12.0	85.1±10.9

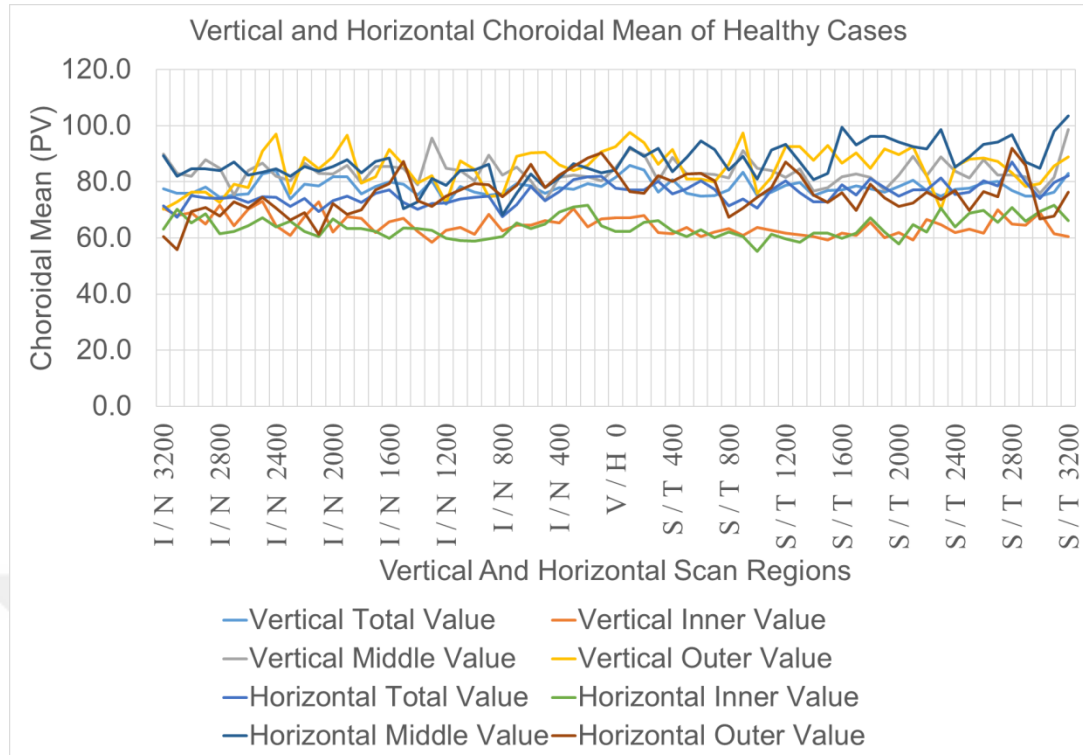


FIGURE 4.33. Vertical and Horizontal Choroidal Mean of Healthy Cases.

4.3.11. CHOROIDAL STANDARD DEVIATION

Choroidal standard deviation is measured for both vertical and horizontal scans for 100 eyes. S 2300 is the lowest value total region in vertical scans and the value is 111.3 ± 15.6 PV. S 100 is the highest value total region in vertical scans and the value is 118.1 ± 8.8 PV. I 1700 is the lowest value inner region in vertical scans and the value is 98.1 ± 31.9 PV. I 3200 is the highest value inner region in vertical scans and the value is 107.7 ± 20.6 PV. S 3000 is the lowest value middle region in vertical scans and the value is 97 ± 35.1 PV. S 900 is the highest value middle region in vertical scans and the value is 111.5 ± 19.7 PV. I 3200 is the lowest value outer region in vertical scans and the value is 92.8 ± 34.6 PV. S 100 is the highest value outer region in vertical scans and the value is 110.4 ± 21.4 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle S 900 (Table S.63.) (Figure 4.34.).

N 3100 is the lowest value total region in horizontal scans and the value is 107.9 ± 17.3 PV. N 200 is the highest value total region in horizontal scans and the value is 116.9 ± 9.6 PV. N 1000 is the lowest value inner region in horizontal scans and the value is 96.1 ± 30.4 PV. N 200 is the highest value inner region in horizontal scans and the value is 108.9 ± 17.5 PV. N 1400 is the lowest value middle region in horizontal scans and the value is 97.4 ± 37.3 PV. T 1100 is the highest value middle region in horizontal scans and the value is 112.5 ± 18 PV. N 3100 is the lowest value outer region in horizontal scans and the value is 77.1 ± 46.1 PV. N 100 is the highest value outer region in horizontal scans and the value is 111.8 ± 20.2 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3100 and highest value region is the middle T 1100 (Table S.64.) (Figure 4.34.). The mean vertical and horizontal values of all regions can be seen in Table 4.40.

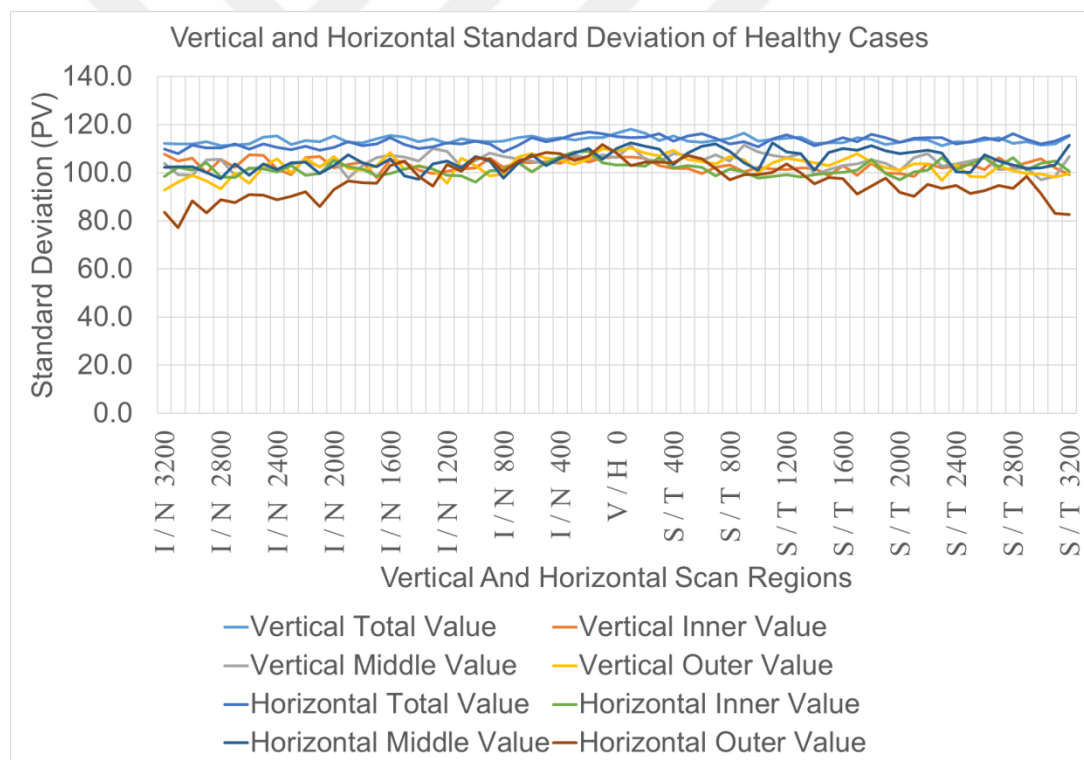


FIGURE 4.34. Vertical and Horizontal Choroidal Standard Deviation of Healthy Cases.

TABLE 4.40. Table of Entire ROI Vertical and Horizontal Choroidal Standard Deviation of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Standard Deviation of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	117.5 $\pm$ 3.0	116.5 $\pm$ 3.3
Entire Inner Part (n=100)	110.3 $\pm$ 6.8	109.7 $\pm$ 8.3
Entire Middle Part (n=100)	119.2 $\pm$ 3.8	120.3 $\pm$ 4.0
Entire Outer Part (n=100)	119.7 $\pm$ 4.2	115.8 $\pm$ 5.5

4.3.12. CHOROIDAL SKEWNESS

Choroidal skewness is measured for both vertical and horizontal scans for 100 eyes. S 100 is the lowest value total region in vertical scans and the value is 0.74 ± 0.46 . S 2800 is the highest value total region in vertical scans and the value is 1.09 ± 1.27 . I 2600 is the lowest value inner region in vertical scans and the value is 1.23 ± 0.97 . S 1700 is the highest value inner region in vertical scans and the value is 1.84 ± 2.04 . S 3200 is the lowest value middle region in vertical scans and the value is 0.74 ± 1.87 . I 100 is the highest value middle region in vertical scans and the value is 1.49 ± 2.62 . S 900 is the lowest value outer region in vertical scans and the value is 0.72 ± 1.65 . I 2800 is the highest value outer region in vertical scans and the value is 1.98 ± 3.24 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer S 900 and highest value region is the outer I 2800 (Table S.65.) (Figure 4.35.).

T 2800 is the lowest value total region in horizontal scans and the value is 0.79 ± 0.76 . N 3100 is the highest value total region in horizontal scans and the value is 1.27 ± 1.02 . N 200 is the lowest value inner region in horizontal scans and the value is 1.17 ± 0.87 . N 1000 is the highest value inner region in horizontal scans and the value is 1.89 ± 2.21 . T 1900 is the lowest value middle region in horizontal scans and the value is 0.57 ± 1.19 . N 1400 is the highest value middle region in horizontal scans and the value is 1.59 ± 2.44 . N 100 is the lowest value outer region in horizontal scans and the value is 0.77 ± 1.06 . N 2100 is the highest value outer region in horizontal scans and the value is 2.04 ± 2.76 . Thus combining inner, middle and outer horizontal scan

values together, lowest value region is the middle T 1900 and highest value region is the outer N 2100 (Table S.66.) (Figure 4.35.). The mean vertical and horizontal values of all regions can be seen in Table 4.41.

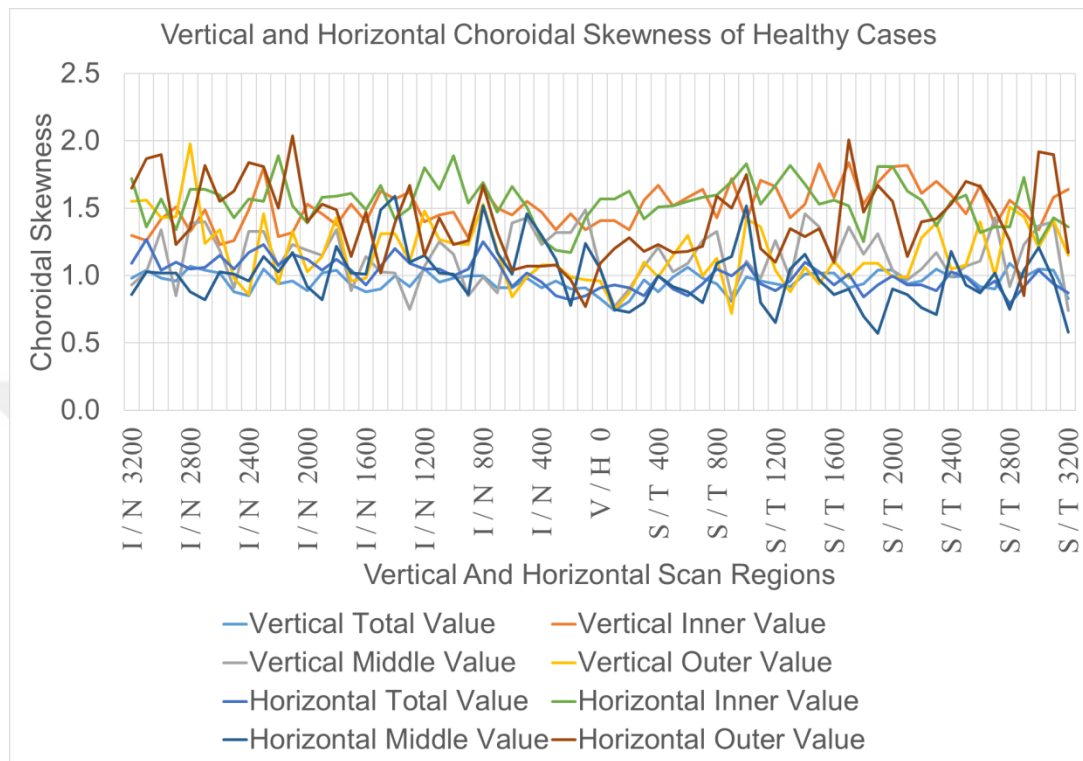


FIGURE 4.35. Vertical and Horizontal Choroidal Skewness of Healthy Cases.

TABLE 4.41. Table of Entire ROI Vertical and Horizontal Choroidal Skewness of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Skewness of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.84±0.14	0.88±0.15
Entire Inner Part (n=100)	1.15±0.29	1.18±0.37
Entire Middle Part (n=100)	0.74±0.19	0.68±0.20
Entire Outer Part (n=100)	0.72±0.21	0.90±0.25

4.3.13. CHOROIDAL KURTOSIS

Choroidal kurtosis is measured for both vertical and horizontal scans for 100 eyes. S 100 is the lowest value total region in vertical scans and the value is -1.24 ± 0.9 . S 2800 is the highest value total region in vertical scans and the value is 0.8 ± 10.67 . I 2600 is the lowest value inner region in vertical scans and the value is 0.45 ± 3.54 . S 1700 is the highest value inner region in vertical scans and the value is 5.52 ± 17.54 . S 100 is the lowest value middle region in vertical scans and the value is -0.12 ± 3.89 . I 100 is the highest value middle region in vertical scans and the value is 7.01 ± 31.4 . I 1700 is the lowest value outer region in vertical scans and the value is 0.65 ± 3.94 . I 2800 is the highest value outer region in vertical scans and the value is 12.38 ± 39.11 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle S 100 and highest value region is the outer I 2800 (Table S.67.) (Figure 4.36.).

N 200 is the lowest value total region in horizontal scans and the value is -1.11 ± 1.08 . N 2400 is the highest value total region in horizontal scans and the value is 1.85 ± 22.63 . N 200 is the lowest value inner region in horizontal scans and the value is 0.11 ± 2.81 . N 1000 is the highest value inner region in horizontal scans and the value is 6.44 ± 25.51 . T 200 is the lowest value middle region in horizontal scans and the value is -0.36 ± 3.28 . N 1400 is the highest value middle region in horizontal scans and the value is 6.51 ± 24.99 . N 100 is the lowest value outer region in horizontal scans and the value is -0.29 ± 3.15 . T 1700 is the highest value outer region in horizontal scans and the value is 12.39 ± 33.94 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region is the outer T 1700 (Table S.68.) (Figure 4.36.). The mean vertical and horizontal values of all regions can be seen in Table 4.42.

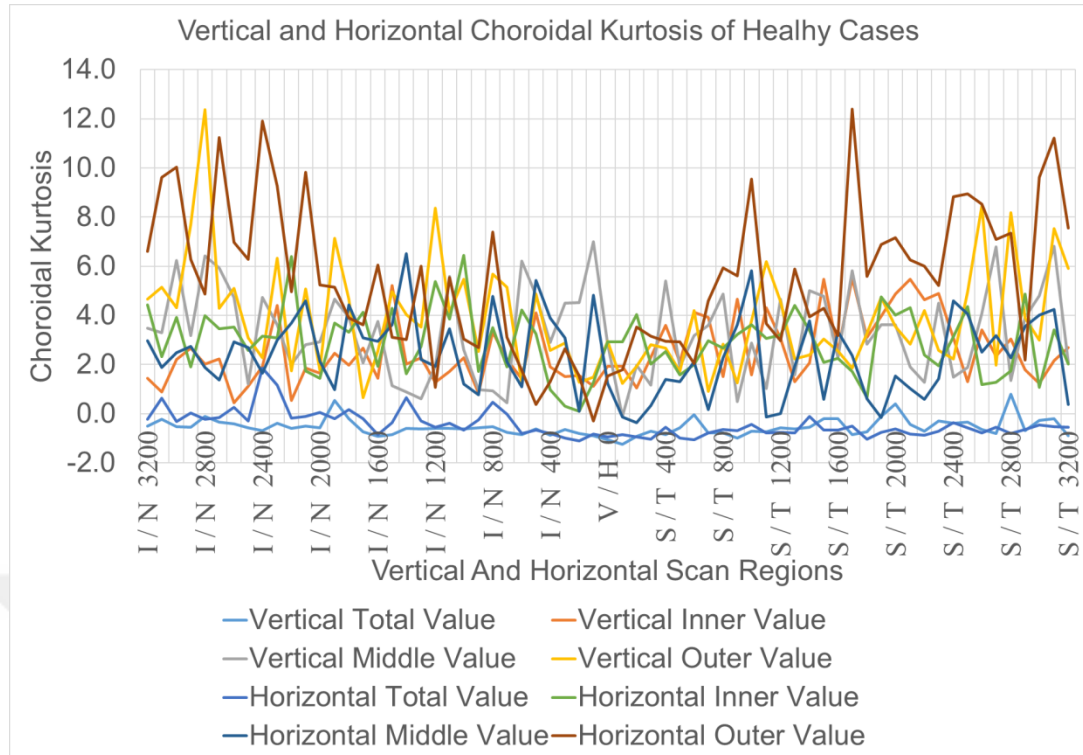


FIGURE 4.36. Vertical and Horizontal Choroidal Kurtosis of Healthy Cases.

TABLE 4.42. Table of Entire ROI Vertical and Horizontal Choroidal Kurtosis of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Kurtosis of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	-1.28±0.26	-1.20±0.29
Entire Inner Part (n=100)	-0.59±0.73	-0.47±1.21
Entire Middle Part (n=100)	-1.41±0.32	-1.49±0.33
Entire Outer Part (n=100)	-1.44±0.35	-1.12±0.49

4.3.14. CHOROIDAL PERIMETER

Choroidal Perimeter is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameters.

I 3200 is the lowest value total region in vertical scans and the value is 137.8 ± 36.9 pixel. V 0 is the highest value total region in vertical scans and the value is 170.1 ± 35 pixel. I 3200 is the lowest value inner region in vertical scans and the value is 57.6 ± 12.3 pixel. I 100 is the highest value inner region in vertical scans and the value is 67.9 ± 11.6 pixel. I 3200 is the lowest value middle region in vertical scans and the value is 57.9 ± 12.3 pixel. V 0 is the highest value middle region in vertical scans and the value is 68.1 ± 11.6 pixel. I 3200 is the lowest value outer region in vertical scans and the value is 54.7 ± 12.5 pixel. V 0 is the highest value outer region in vertical scans and the value is 66 ± 11.9 pixel. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle V 0 (Table S.69.) (Figure 4.37.).

N 3200 is the lowest value total region in horizontal scans and the value is 97.4 ± 27.5 pixel. T 100 is the highest value total region in horizontal scans and the value is 170 ± 38.9 pixel. N 3200 is the lowest value inner region in horizontal scans and the value is 45.2 ± 9.7 pixel. T 200 is the highest value inner region in horizontal scans and the value is 68 ± 12.9 pixel. N 3200 is the lowest value middle region in horizontal scans and the value is 44.5 ± 9.3 pixel. T 100 is the highest value middle region in horizontal scans and the value is 68.2 ± 12.8 pixel. N 3200 is the lowest value outer region in horizontal scans and the value is 40.9 ± 9.1 pixel. H 0 is the highest value outer region in horizontal scans and the value is 65.8 ± 13 pixel. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.70.) (Figure 4.37.). The mean vertical and horizontal values of all regions can be seen in Table 4.43.

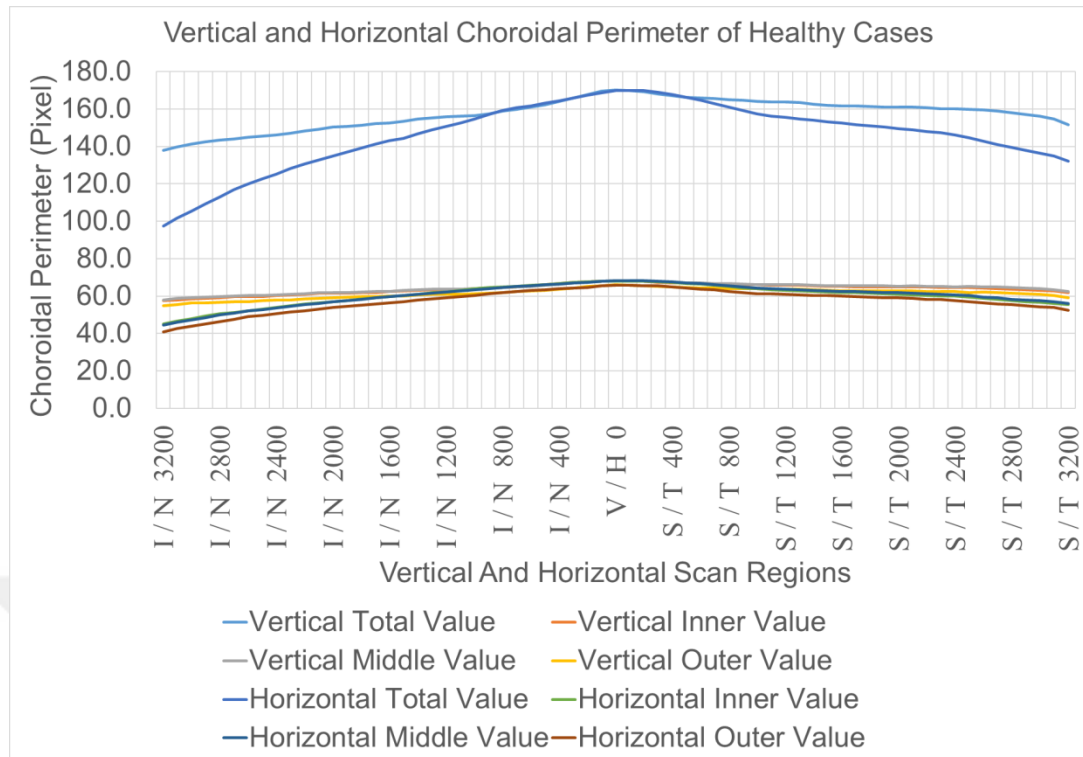


FIGURE 4.37. Vertical and Horizontal Choroidal Perimeter of Healthy Cases.

TABLE 4.43. Table of Entire ROI Vertical and Horizontal Choroidal Perimeter of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Perimeter of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	1188.0 $\pm$ 36.0	1160.1 $\pm$ 29.7
Entire Inner Part (n=100)	1073.4 $\pm$ 13.6	1062.8 $\pm$ 13.8
Entire Middle Part (n=100)	1082.6 $\pm$ 16.4	1073.9 $\pm$ 18.4
Entire Outer Part (n=100)	1090.7 $\pm$ 19.3	1086.0 $\pm$ 19.8

4.3.15. CHOROIDAL WIDTH

Choroidal width is 6500 μm for greater ROI and 100 μm for smaller ROIs. Because it is set by researchers bounding rectangle function gives the same result for all ROIs.

4.3.16. CHOROIDAL HEIGHT

Choroidal height is measured for both vertical and horizontal scans for 100 eyes. I 3200 is the lowest value total region in vertical scans and the value is $246.2 \pm 72.1 \mu\text{m}$. V 0 is the highest value total region in vertical scans and the value is $306.6 \pm 68.7 \mu\text{m}$. I 3200 is the lowest value inner region in vertical scans and the value is $83.8 \pm 24.1 \mu\text{m}$. I 100 is the highest value inner region in vertical scans and the value is $102.1 \pm 22.7 \mu\text{m}$. I 3200 is the lowest value middle region in vertical scans and the value is $82.1 \pm 24.1 \mu\text{m}$. S 100 is the highest value middle region in vertical scans and the value is $102.1 \pm 22.9 \mu\text{m}$. I 3200 is the lowest value outer region in vertical scans and the value is $80.6 \pm 24 \mu\text{m}$. V 0 is the highest value outer region in vertical scans and the value is $100.9 \pm 23 \mu\text{m}$. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle S 100 (Table S.71.) (Figure 4.38.).

N 3200 is the lowest value total region in horizontal scans and the value is $167.1 \pm 54.7 \mu\text{m}$. T 100 is the highest value total region in horizontal scans and the value is $307.1 \pm 76.4 \mu\text{m}$. N 3200 is the lowest value inner region in horizontal scans and the value is $58.6 \pm 19.2 \mu\text{m}$. H 0 is the highest value inner region in horizontal scans and the value is $102.4 \pm 25.2 \mu\text{m}$. N 3200 is the lowest value middle region in horizontal scans and the value is $55.8 \pm 18.2 \mu\text{m}$. T 100 is the highest value middle region in horizontal scans and the value is $102.4 \pm 25.2 \mu\text{m}$. N 3200 is the lowest value outer region in horizontal scans and the value is $54.2 \pm 18.4 \mu\text{m}$. T 100 is the highest value outer region in horizontal scans and the value is $101.1 \pm 25.6 \mu\text{m}$. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.72.) (Figure 4.38.). The mean vertical and horizontal values of all regions can be seen in Table 4.44.

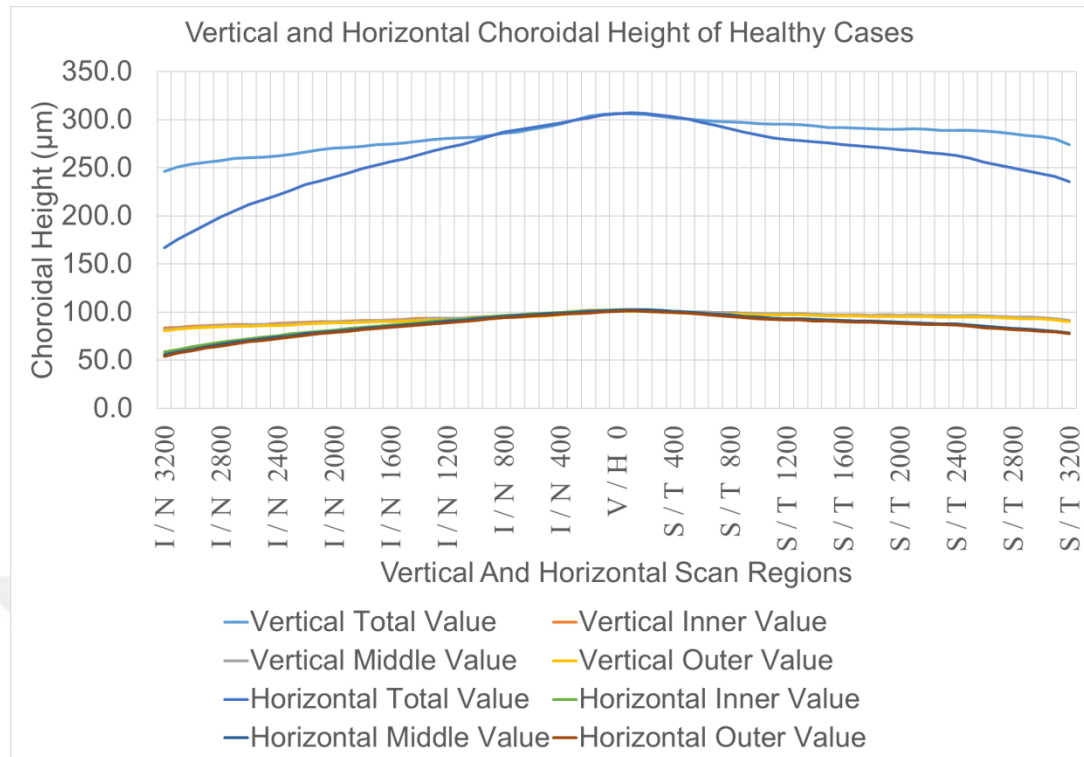


FIGURE 4.38. Vertical and Horizontal Choroidal Height of Healthy Cases.

TABLE 4.44. Table of Entire ROI Vertical and Horizontal Choroidal Height of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Height of Healthy Cases (μm)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	413.1 $\pm$ 73.3	397.0 $\pm$ 80.2
Entire Inner Part (n=100)	198.5 $\pm$ 49.9	186.9 $\pm$ 48.8
Entire Middle Part (n=100)	221.7 $\pm$ 52.4	224.6 $\pm$ 55.9
Entire Outer Part (n=100)	248.7 $\pm$ 61.2	269.6 $\pm$ 67.2

4.3.17. CHOROIDAL MAJOR

Choroidal Major is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameters.

I 3200 is the lowest value total region in vertical scans and the value is 68.3 ± 20.9 pixel. V 0 is the highest value total region in vertical scans and the value is 87.1 ± 19.8 pixel. I 3200 is the lowest value inner region in vertical scans and the value is 22.5 ± 7 pixel. I 100 is the highest value inner region in vertical scans and the value is 28.7 ± 6.5 pixel. I 3200 is the lowest value middle region in vertical scans and the value is 23.6 ± 6.9 pixel. S 100 is the highest value middle region in vertical scans and the value is 29.4 ± 6.6 pixel. I 3200 is the lowest value outer region in vertical scans and the value is 22.2 ± 7 pixel. V 0 is the highest value outer region in vertical scans and the value is 28.8 ± 6.7 pixel. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle S 100 (Table S.73.) (Figure 4.39.).

N 3200 is the lowest value total region in horizontal scans and the value is 45.8 ± 15.4 pixel. T 100 is the highest value total region in horizontal scans and the value is 87.2 ± 21.9 pixel. N 3200 is the lowest value inner region in horizontal scans and the value is 15.8 ± 5.3 pixel. H 0 is the highest value inner region in horizontal scans and the value is 28.8 ± 7.3 pixel. N 3200 is the lowest value middle region in horizontal scans and the value is 16.1 ± 5.2 pixel. T 100 is the highest value middle region in horizontal scans and the value is 29.5 ± 7.2 pixel. N 3200 is the lowest value outer region in horizontal scans and the value is 14.9 ± 4.8 pixel. T 100 is the highest value outer region in horizontal scans and the value is 28.7 ± 7.3 pixel. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.74.) (Figure 4.39.). The mean vertical and horizontal values of all regions can be seen in Table 4.45.

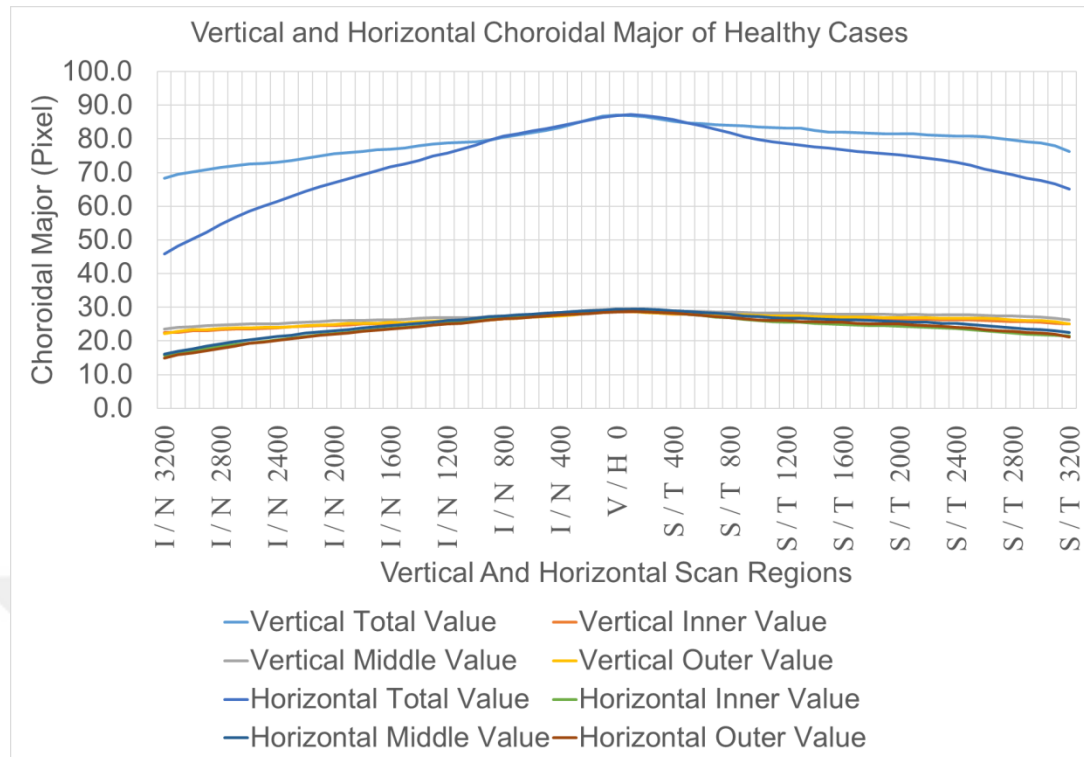


FIGURE 4.39. Vertical and Horizontal Choroidal Major of Healthy Cases.

TABLE 4.45. Table of Entire ROI Vertical and Horizontal Choroidal Major of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Major of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	555.3 $\pm$ 22.3	528.4 $\pm$ 23.5
Entire Inner Part (n=100)	502.3 $\pm$ 50.4	469.8 $\pm$ 54.6
Entire Middle Part (n=100)	489.7 $\pm$ 54.1	439.4 $\pm$ 51.6
Entire Outer Part (n=100)	461.5 $\pm$ 64.7	395.2 $\pm$ 53.8

4.3.18. CHOROIDAL MINOR

Choroidal minor is found to be 9.0 pixels in nearly all of the smaller ROIs because the width is set by researchers. Thus only the greater ROIs minor is given here (Table 4.46.).

TABLE 4.46. Table of Entire ROI Vertical and Horizontal Choroidal Minor of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Minor of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	84.1 $\pm$ 16.3	81.3 $\pm$ 18.9
Entire Inner Part (n=100)	30.4 $\pm$ 5.7	29.9 $\pm$ 6.6
Entire Middle Part (n=100)	32.8 $\pm$ 6.4	33.7 $\pm$ 7.3
Entire Outer Part (n=100)	33.8 $\pm$ 7.3	36.0 $\pm$ 8.1

4.3.19. CHOROIDAL ANGLE

Choroidal Angle is measured for both vertical and horizontal scans for 100 eyes and measured in degrees.

S 3200 is the lowest value total region in vertical scans and the value is 89.8 ± 0.3 degree. I 3100 is the highest value total region in vertical scans and the value is 90.3 ± 0.3 degree. S 3100 is the lowest value inner region in vertical scans and the value is 88.6 ± 9 degree. I 3200 is the highest value inner region in vertical scans and the value is 92.2 ± 5.3 degree. I 3200 is the lowest value middle region in vertical scans and the value is 89.1 ± 9 degree. S 100 is the highest value middle region in vertical scans and the value is 90 ± 0 degree. S 3200 is the lowest value outer region in vertical scans and the value is 87 ± 9.5 degree. I 3100 is the highest value outer region in vertical scans and the value is 92.3 ± 6 degree. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer S 3200 and highest value region is the outer I 3100 (Table S.75.) (Figure 4.40.).

T 3100 is the lowest value total region in horizontal scans and the value is 89.9 ± 0.4 degree. N 3200 is the highest value total region in horizontal scans and the value is 90.1 ± 0.8 degree. N 3200 is the lowest value inner region in horizontal scans and the value is 84.5 ± 25.8 degree. T 1600 is the highest value inner region in horizontal scans and the value is 90.6 ± 7.7 degree. N 3200 is the lowest value middle region in horizontal scans and the value is 82.8 ± 24.5 degree. T 100 is the highest value middle region in horizontal scans and the value is 90 ± 0 degree. N 3200 is the lowest value outer region in horizontal scans and the value is 85.5 ± 28.9 degree. N 2900 is the

highest value outer region in horizontal scans and the value is 91.1 ± 17.1 degree. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle N 3200 and highest value region is the outer N 2900 (Table S.76.) (Figure 4.40.). The mean vertical and horizontal values of all regions can be seen in Table 4.47.

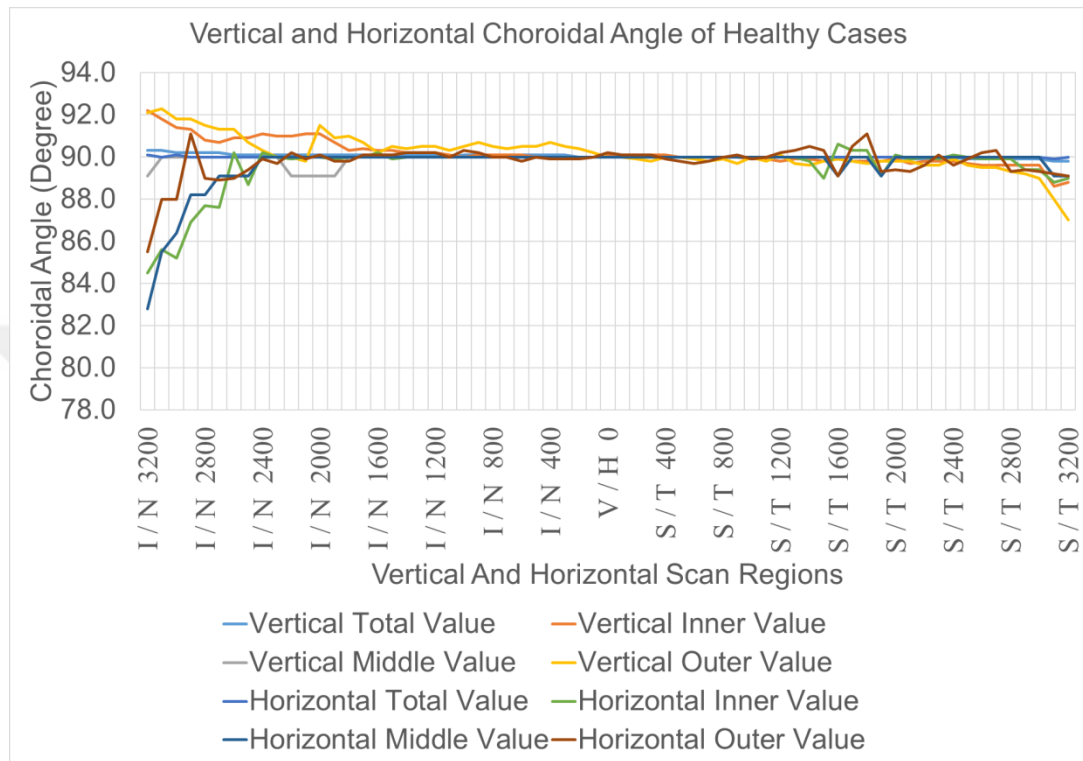


FIGURE 4.40. Vertical and Horizontal Choroidal Angle of Healthy Cases.

TABLE 4.47. Table of Entire ROI Vertical and Horizontal Choroidal Angle of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Angle of Healthy Cases (Degree)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	179.0 $\pm$ 2.1	180.1 $\pm$ 2.1
Entire Inner Part (n=100)	179.3 $\pm$ 1.9	180.1 $\pm$ 1.7
Entire Middle Part (n=100)	179.0 $\pm$ 2.1	180.1 $\pm$ 2.0
Entire Outer Part (n=100)	178.7 $\pm$ 2.4	180.1 $\pm$ 2.6

4.3.20. CHOROIDAL INTEGRATED DENSITY

Choroidal integrated density is measured for both vertical and horizontal scans for 100 eyes and measured in PV.

I 3200 is the lowest value total region in vertical scans and the value is 37694.1 ± 19813.3 PV. S 100 is the highest value total region in vertical scans and the value is 53091 ± 19046.9 PV. I 2300 is the lowest value inner region in vertical scans and the value is 10590.2 ± 7316.1 PV. I 300 is the highest value inner region in vertical scans and the value is 14280 ± 7963.2 PV. I 2700 is the lowest value middle region in vertical scans and the value is 12974.4 ± 9575.1 PV. S 100 is the highest value middle region in vertical scans and the value is 19441.2 ± 11208.5 PV. I 3200 is the lowest value outer region in vertical scans and the value is 10952.3 ± 9129.1 PV. S 100 is the highest value outer region in vertical scans and the value is 19890 ± 11385.9 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 2300 and highest value region is the outer S 100 (Table S.77.) (Figure 4.41.).

N 3200 is the lowest value total region in horizontal scans and the value is 22524.2 ± 10413.6 PV. N 100 is the highest value total region in horizontal scans and the value is 50408.4 ± 20067 PV. N 3200 is the lowest value inner region in horizontal scans and the value is 6987 ± 5036.1 PV. N 200 is the highest value inner region in horizontal scans and the value is 14529.9 ± 7528.1 PV. N 3200 is the lowest value middle region in horizontal scans and the value is 9598.2 ± 6115.5 PV. T 100 is the highest value middle region in horizontal scans and the value is 19188.8 ± 10136.4 PV. N 3100 is the lowest value outer region in horizontal scans and the value is 6048.6 ± 6418.5 PV. N 100 is the highest value outer region in horizontal scans and the value is 18105 ± 9580.6 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3100 and highest value region is the middle T 100 (Table S.78.) (Figure 4.41.). The mean vertical and horizontal values of all regions can be seen in Table 4.48.

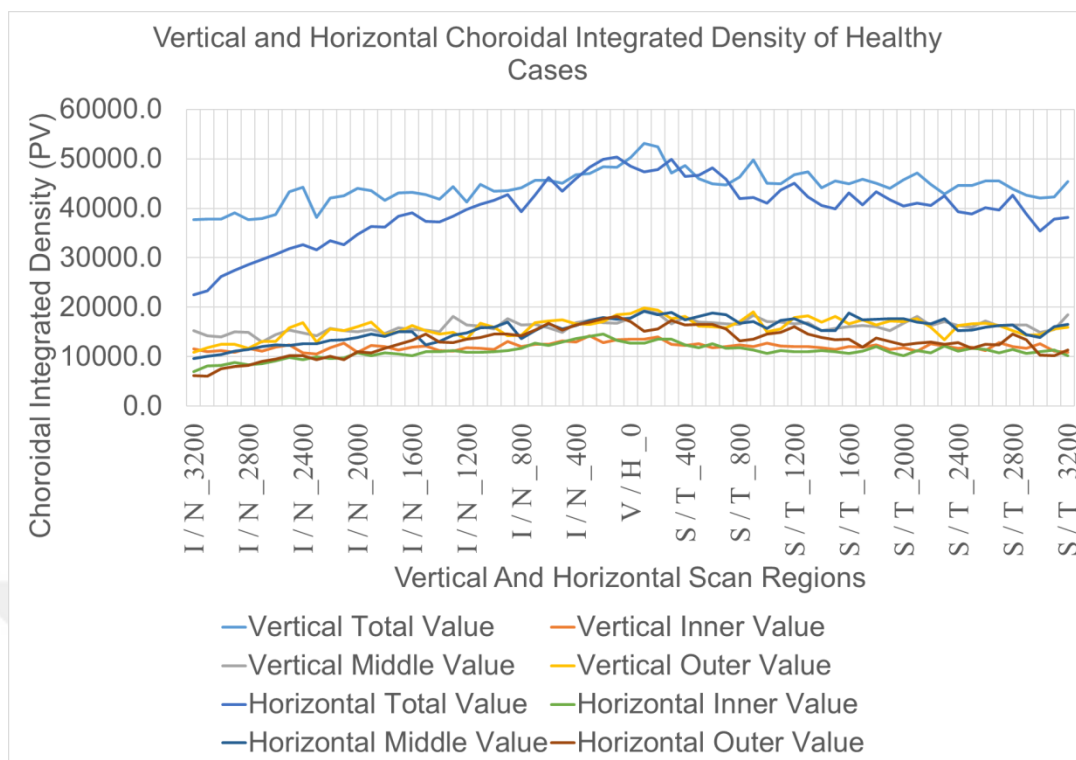


FIGURE 4.41. Vertical and Horizontal Choroidal Integrated Density of Healthy Cases

TABLE 4.48. Table of Entire ROI Vertical and Horizontal Choroidal Integrated Density of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Integrated Density of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	2897292.2 $\pm$ 698357.8	2592108.2 $\pm$ 736028.6
Entire Inner Part (n=100)	781524.0 $\pm$ 231010.9	715524.9 $\pm$ 251238.4
Entire Middle Part (n=100)	1053422.9 $\pm$ 265624.0	1007818.7 $\pm$ 277305.3
Entire Outer Part (n=100)	1035088.4 $\pm$ 268655.3	848311.1 $\pm$ 271085.0

4.3.21. CHOROIDAL RAW INTEGRATED DENSITY

Choroidal raw integrated density is measured for both vertical and horizontal scans for 100 eyes and measured in PV.

I 3200 is the lowest value total region in vertical scans and the value is 37694.1 ± 19813.3 PV. S 100 is the highest value total region in vertical scans and the value is 53091 ± 19046.9 PV. I 2300 is the lowest value inner region in vertical scans and the value is 10590.2 ± 7316.1 PV. I 300 is the highest value inner region in vertical scans and the value is 14280 ± 7963.2 PV. I 2700 is the lowest value middle region in vertical scans and the value is 12974.4 ± 9575.1 PV. S 100 is the highest value middle region in vertical scans and the value is 19441.2 ± 11208.5 PV. I 3200 is the lowest value outer region in vertical scans and the value is 10952.3 ± 9129.1 PV. S 100 is the highest value outer region in vertical scans and the value is 19890 ± 11385.9 PV. Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 2300 and highest value region is the outer S 100 (Table S.79.) (Figure 4.42.).

N 3200 is the lowest value total region in horizontal scans and the value is 22524.2 ± 10413.6 PV. N 100 is the highest value total region in horizontal scans and the value is 50408.4 ± 20067 PV. N 3200 is the lowest value inner region in horizontal scans and the value is 6987 ± 5036.1 PV. N 200 is the highest value inner region in horizontal scans and the value is 14529.9 ± 7528.1 PV. N 3200 is the lowest value middle region in horizontal scans and the value is 9598.2 ± 6115.5 PV. T 100 is the highest value middle region in horizontal scans and the value is 19188.8 ± 10136.4 PV. N 3100 is the lowest value outer region in horizontal scans and the value is 6048.6 ± 6418.5 PV. N 100 is the highest value outer region in horizontal scans and the value is 18105 ± 9580.6 PV. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3100 and highest value region is the middle T 100 (Table S.80.) (Figure 4.42.). The mean vertical and horizontal values of all regions can be seen in Table 4.49.

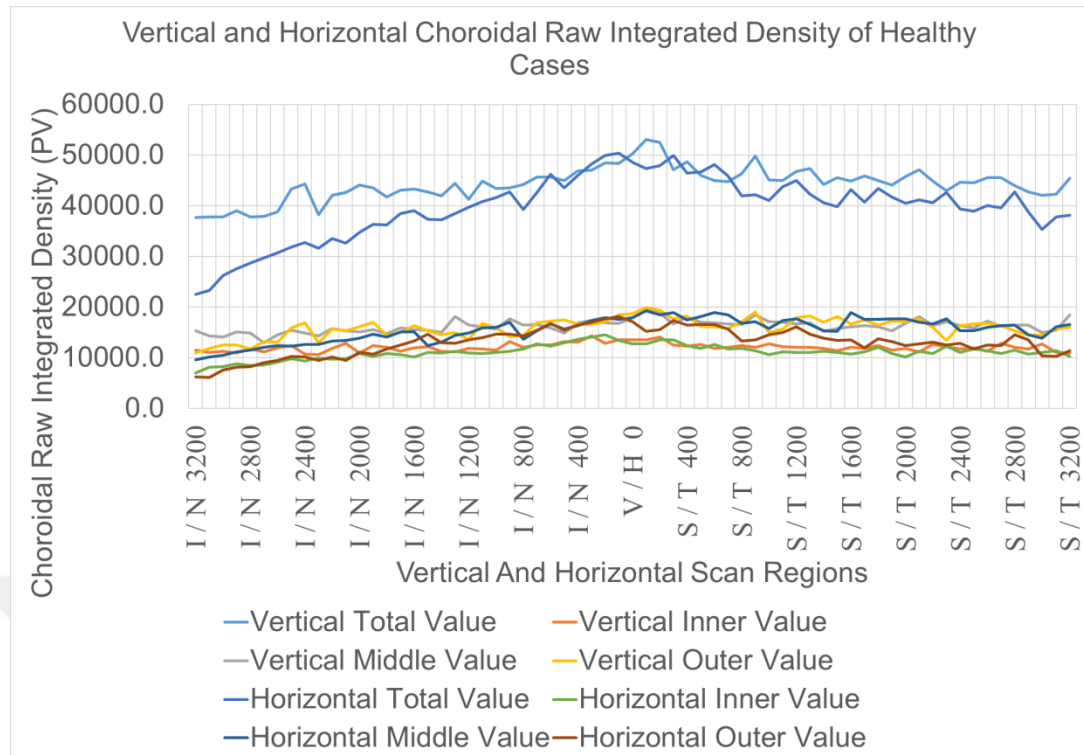


FIGURE 4.42. Vertical and Horizontal Choroidal Raw Integrated Density of Healthy Cases.

TABLE 4.49. Table of Entire ROI Vertical and Horizontal Choroidal Raw Integrated Density of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Raw Integrated Density of Healthy Cases (PV)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	2897292.2 $\pm$ 698357.8	2592108.2 $\pm$ 736028.6
Entire Inner Part (n=100)	781524.0 $\pm$ 231010.9	715524.9 $\pm$ 251238.4
Entire Middle Part (n=100)	1053422.9 $\pm$ 265624.0	1007818.7 $\pm$ 277305.3
Entire Outer Part (n=100)	1035088.4 $\pm$ 268655.3	848311.1 $\pm$ 271085.0

4.3.22. CHOROIDAL FERET

Choroidal feret is measured for both vertical and horizontal scans for 100 eyes and measured in pixel diameter.

I 3200 is the lowest value total region in vertical scans and the value is 62.7 ± 18.2 unit. V 0 is the highest value total region in vertical scans and the value is 78 ± 17.4 unit. I 3200 is the lowest value inner region in vertical scans and the value is 22.9 ± 5.7 unit. I 100 is the highest value inner region in vertical scans and the value is 27.3 ± 5.5 unit. I 3200 is the lowest value middle region in vertical scans and the value is 22.5 ± 5.7 unit. S 100 is the highest value middle region in vertical scans and the value is 27.3 ± 5.6 unit. I 3200 is the lowest value outer region in vertical scans and the value is 21.9 ± 5.6 unit. V 0 is the highest value outer region in vertical scans and the value is 26.7 ± 5.6 unit. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer I 3200 and highest value region is the middle S 100 (Table S.81.) (Figure 4.43.).

N 3200 is the lowest value total region in horizontal scans and the value is 42.6 ± 13.7 unit. T 100 is the highest value total region in horizontal scans and the value is 78.2 ± 19.3 unit. N 3200 is the lowest value inner region in horizontal scans and the value is 17.1 ± 4.3 unit. H 0 is the highest value inner region in horizontal scans and the value is 27.4 ± 6.1 unit. N 3200 is the lowest value middle region in horizontal scans and the value is 16.5 ± 4.1 unit. T 100 is the highest value middle region in horizontal scans and the value is 27.4 ± 6.1 unit. N 3200 is the lowest value outer region in horizontal scans and the value is 15.7 ± 4.1 unit. H 0 is the highest value outer region in horizontal scans and the value is 26.6 ± 6.2 unit. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.82.) (Figure 4.43.). The mean vertical and horizontal values of all regions can be seen in Table 4.50.

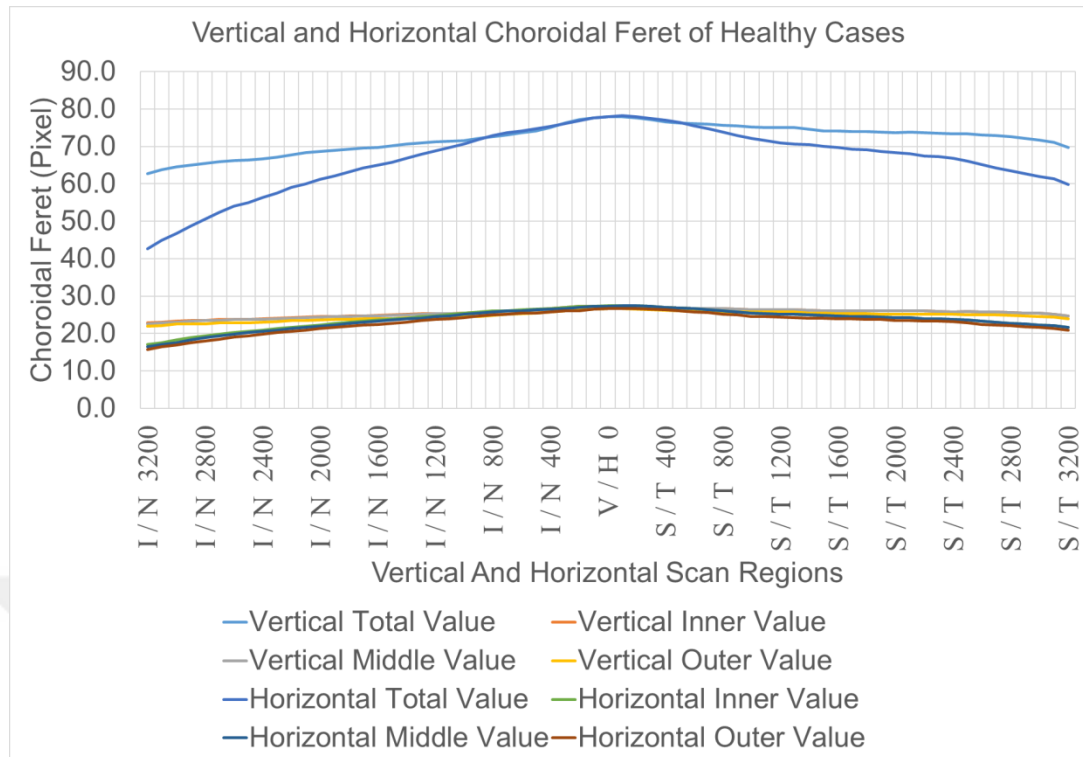


FIGURE 4.43. Vertical and Horizontal Choroidal Feret of Healthy Cases.

TABLE 4.50. Table of Entire ROI Vertical and Horizontal Choroidal Feret of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Feret of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	526.2 $\pm$ 3.1	523.9 $\pm$ 2.6
Entire Inner Part (n=100)	521.3 $\pm$ 1.3	520.9 $\pm$ 0.9
Entire Middle Part (n=100)	521.5 $\pm$ 1.2	521.1 $\pm$ 1.1
Entire Outer Part (n=100)	521.5 $\pm$ 1.2	521.2 $\pm$ 1.5

4.3.23. CHOROIDAL MINIMUM FERET

Choroidal minimum feret is found to be 8.0 pixels in nearly all of the smaller ROIs because the width is set by researchers. Thus only the greater ROIs minor is given here (Table 4.51.).

TABLE 4.51. Table of Entire ROI Vertical and Horizontal Choroidal Minimum Feret of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Minimum Feret of Healthy Cases (Pixel)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	98.7 $\pm$ 17.9	96.5 $\pm$ 19.9
Entire Inner Part (n=100)	43.9 $\pm$ 10.0	43.0 $\pm$ 10.5
Entire Middle Part (n=100)	48.9 $\pm$ 11.5	51.9 $\pm$ 12.2
Entire Outer Part (n=100)	54.3 $\pm$ 14.1	60.8 $\pm$ 14.8

4.3.24. CHOROIDAL FERET ANGLE

Choroidal ferret angle is measured for both vertical and horizontal scans for 100 eyes and measured in degrees.

S 3200 is the lowest value total region in vertical scans and the value is 85.3 ± 5 degree. I 3200 is the highest value total region in vertical scans and the value is 96.5 ± 5.4 degree. S 3100 is the lowest value inner region in vertical scans and the value is 82.6 ± 19 degree. I 3000 is the highest value inner region in vertical scans and the value is 111.1 ± 7.5 degree. V 0 is the lowest value middle region in vertical scans and the value is 107.8 ± 3.8 degree. I 3200 is the highest value middle region in vertical scans and the value is 112.5 ± 6.5 degree. S 3200 is the lowest value outer region in vertical scans and the value is 75.8 ± 16.1 degree. I 3100 is the highest value outer region in vertical scans and the value is 110.2 ± 12.8 degree. Thus combining inner, middle and outer vertical scan values together, lowest value region is the outer S 3200 and highest value region is the middle I 3200 (Table S.83.) (Figure 4.44.).

N 2100 is the lowest value total region in horizontal scans and the value is 89.6 ± 8.2 degree. H 0 is the highest value total region in horizontal scans and the value is 92.6 ± 5.8 degree. T 3100 is the lowest value inner region in horizontal scans and the value is 94.2 ± 23.2 degree. N 100 is the highest value inner region in horizontal scans and the value is 105.3 ± 10.3 degree. T 100 is the lowest value middle region in horizontal scans and the value is 107.9 ± 4 degree. N 3200 is the highest value middle region in horizontal scans and the value is 120.3 ± 10.6 degree. T 3100 is the lowest

value outer region in horizontal scans and the value is 91.7 ± 24.3 degree. T 100 is the highest value outer region in horizontal scans and the value is 99.7 ± 16.2 degree. Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer T 3100 and highest value region is the middle N 3200 (Table S.84.) (Figure 4.44.). The mean vertical and horizontal values of all regions can be seen in Table 4.52.

TABLE 4.52. Table of Entire ROI Vertical and Horizontal Choroidal Feret Angle of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Feret Angle of Healthy Cases (Degree)		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	175.4 $\pm$ 7.5	180.5 $\pm$ 7.0
Entire Inner Part (n=100)	178.0 $\pm$ 3.6	180.1 $\pm$ 3.3
Entire Middle Part (n=100)	177.6 $\pm$ 3.6	180.2 $\pm$ 3.7
Entire Outer Part (n=100)	177.7 $\pm$ 3.7	180.1 $\pm$ 4.0

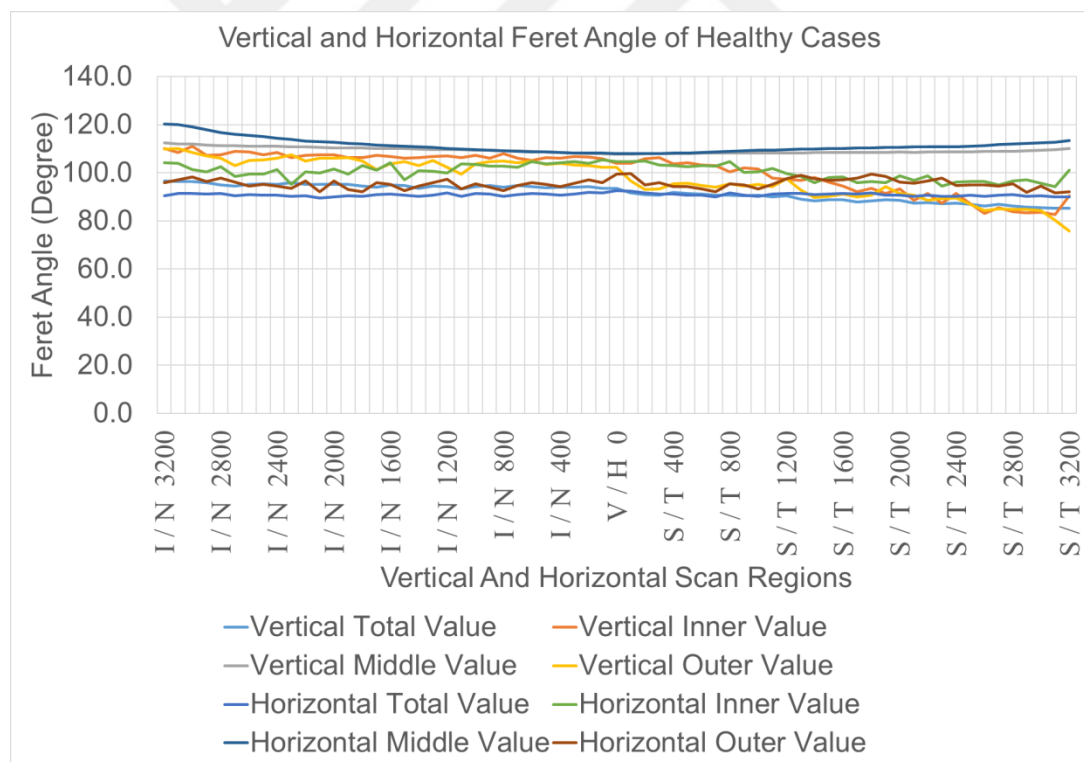


FIGURE 4.44. Vertical and Horizontal Choroidal Feret Angle of Healthy Cases.

4.3.25. CHOROIDAL CIRCULARITY

Choroidal circularity is measured for both vertical and horizontal scans for 100 eyes. S 1200 is the lowest value total region in vertical scans and the value is 0.28 ± 0.05 . I 3200 is the highest value total region in vertical scans and the value is 0.34 ± 0.08 . S 1900 is the lowest value inner region in vertical scans and the value is 0.56 ± 0.05 . I 3000 is the highest value inner region in vertical scans and the value is 0.6 ± 0.07 . I 100 is the lowest value middle region in vertical scans and the value is 0.57 ± 0.07 . I 3100 is the highest value middle region in vertical scans and the value is 0.63 ± 0.08 . V 0 is the lowest value outer region in vertical scans and the value is 0.59 ± 0.07 . I 2600 is the highest value outer region in vertical scans and the value is 0.66 ± 0.09 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner S 1900 and highest value region is the outer I 2600 (Table S.85.) (Figure 4.45.).

T 500 is the lowest value total region in horizontal scans and the value is 0.28 ± 0.05 . N 3200 is the highest value total region in horizontal scans and the value is 0.45 ± 0.09 . T 700 is the lowest value inner region in horizontal scans and the value is 0.56 ± 0.06 . N 3200 is the highest value inner region in horizontal scans and the value is 0.67 ± 0.05 . N 100 is the lowest value middle region in horizontal scans and the value is 0.57 ± 0.07 . N 3200 is the highest value middle region in horizontal scans and the value is 0.72 ± 0.06 . H 0 is the lowest value outer region in horizontal scans and the value is 0.6 ± 0.08 . N 3100 is the highest value outer region in horizontal scans and the value is 0.76 ± 0.07 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner T 700 and highest value region is the outer N 3100 (Table S.86.) (Figure 4.45.). The mean vertical and horizontal values of all regions can be seen in Table 4.53.

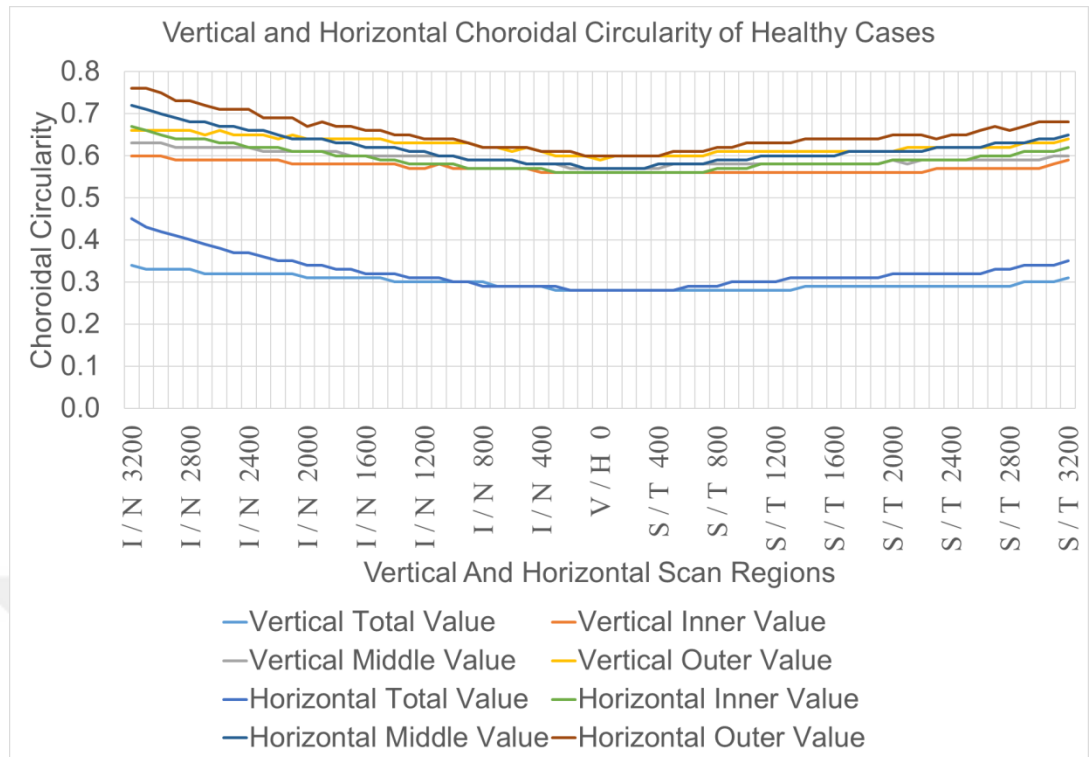


FIGURE 4.45. Vertical and Horizontal Choroidal Circularity of Healthy Cases.

TABLE 4.53. Table of Entire ROI Vertical and Horizontal Choroidal Circularity of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Circularity of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.32±0.05	0.31±0.06
Entire Inner Part (n=100)	0.13±0.03	0.12±0.03
Entire Middle Part (n=100)	0.13±0.02	0.13±0.03
Entire Outer Part (n=100)	0.13±0.02	0.12±0.03

4.3.26. CHOROIDAL ASPECT RATIO

Choroidal aspect ratio is measured for both vertical and horizontal scans for 100 eyes. I 3200 is the lowest value total region in vertical scans and the value is 7.6 ± 2.3 . I 100 is the highest value total region in vertical scans and the value is 9.6 ± 2.2 . I 3100 is the lowest value inner region in vertical scans and the value is 2.5 ± 0.8 . I 200 is the highest value inner region in vertical scans and the value is 3.2 ± 0.7 . I 3200 is the lowest value middle region in vertical scans and the value is 2.6 ± 0.8 . S 100 is the highest value middle region in vertical scans and the value is 3.3 ± 0.7 . I 3100 is the lowest value outer region in vertical scans and the value is 2.5 ± 0.8 . I 100 is the highest value outer region in vertical scans and the value is 3.2 ± 0.7 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 3100 and highest value region is the middle S 100 (Table S.87.) (Figure 4.46.).

N 3200 is the lowest value total region in horizontal scans and the value is 5.1 ± 1.7 . T 100 is the highest value total region in horizontal scans and the value is 9.7 ± 2.4 . N 3100 is the lowest value inner region in horizontal scans and the value is 1.8 ± 0.6 . N 200 is the highest value inner region in horizontal scans and the value is 3.2 ± 0.8 . N 3200 is the lowest value middle region in horizontal scans and the value is 1.8 ± 0.6 . T 100 is the highest value middle region in horizontal scans and the value is 3.3 ± 0.8 . N 3200 is the lowest value outer region in horizontal scans and the value is 1.7 ± 0.5 . N 100 is the highest value outer region in horizontal scans and the value is 3.2 ± 0.8 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the outer N 3200 and highest value region is the middle T 100 (Table S.88.) (Figure 4.46.). The mean vertical and horizontal values of all regions can be seen in Table 4.54.

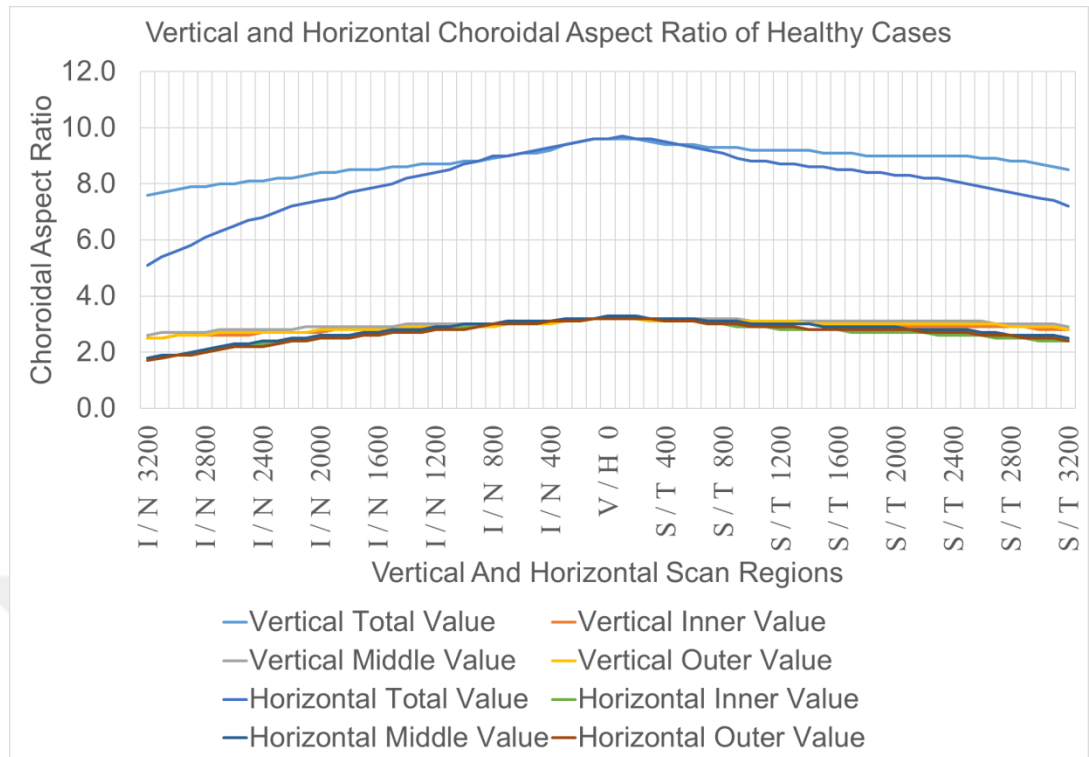


FIGURE 4.46. Vertical and Horizontal Choroidal Aspect Ratio of Healthy Cases.

TABLE 4.54. Table of Entire ROI Vertical and Horizontal Choroidal Aspect Ratio of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Aspect Ratio of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	6.9±1.4	6.8±1.5
Entire Inner Part (n=100)	17.2±4.1	16.5±4.4
Entire Middle Part (n=100)	15.6±4.0	13.7±3.9
Entire Outer Part (n=100)	14.5±4.4	11.7±3.6

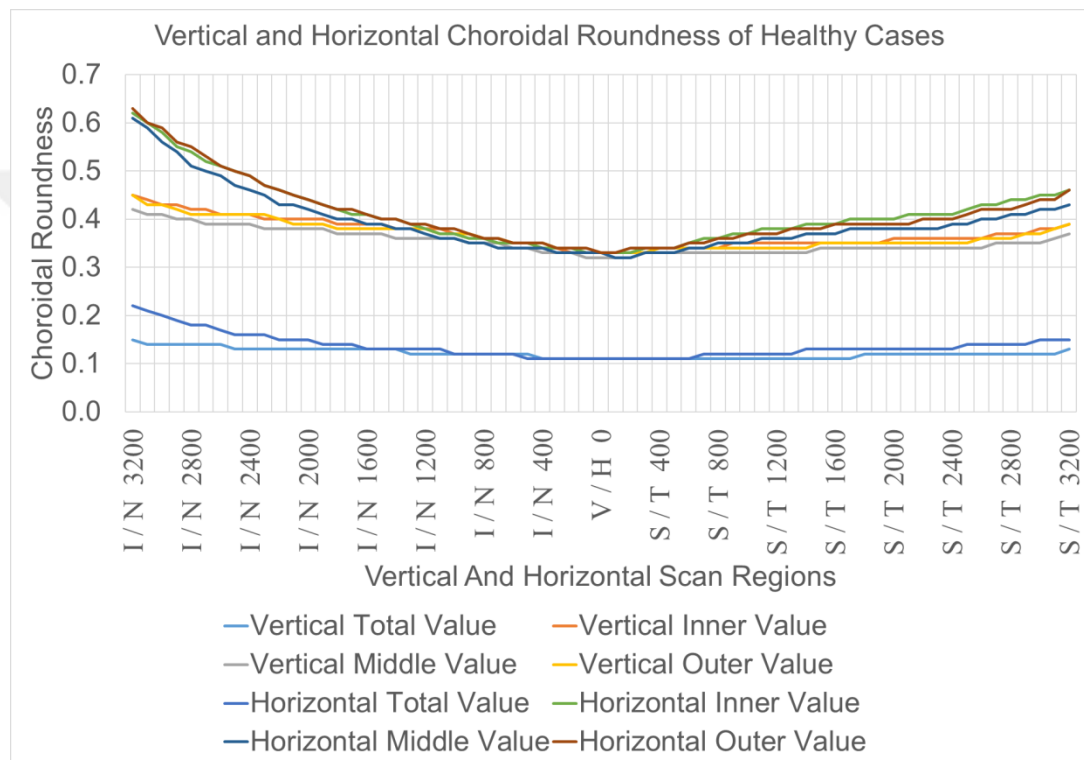
4.3.27. CHOROIDAL ROUNDNESS

Choroidal roundness is measured for both vertical and horizontal scans for 100 eyes. S 500 is the lowest value total region in vertical scans and the value is 0.11 ± 0.02 . I 3200 is the highest value total region in vertical scans and the value is 0.15 ± 0.05 . S 100 is the lowest value inner region in vertical scans and the value is 0.33 ± 0.08 . I 3200 is the highest value inner region in vertical scans and the value is 0.45 ± 0.16 . I 100 is the lowest value middle region in vertical scans and the value is 0.32 ± 0.07 . I 3200 is the highest value middle region in vertical scans and the value is 0.42 ± 0.14 . V 0 is the lowest value outer region in vertical scans and the value is 0.33 ± 0.08 . I 3200 is the highest value outer region in vertical scans and the value is 0.45 ± 0.15 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the middle I 100 and highest value region is the outer I 3200 (Table S.89.) (Figure 4.47.).

T 500 is the lowest value total region in horizontal scans and the value is 0.11 ± 0.03 . N 3200 is the highest value total region in horizontal scans and the value is 0.22 ± 0.07 . T 100 is the lowest value inner region in horizontal scans and the value is 0.33 ± 0.08 . N 3200 is the highest value inner region in horizontal scans and the value is 0.62 ± 0.18 . T 200 is the lowest value middle region in horizontal scans and the value is 0.32 ± 0.08 . N 3200 is the highest value middle region in horizontal scans and the value is 0.61 ± 0.18 . H 0 is the lowest value outer region in horizontal scans and the value is 0.33 ± 0.08 . N 3200 is the highest value outer region in horizontal scans and the value is 0.63 ± 0.17 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the middle T 200 and highest value region is the outer N 3200 (Table S.90.) (Figure 4.47.). The mean vertical and horizontal values of all regions can be seen in Table 4.55.

TABLE 4.55. Table of Entire ROI Vertical and Horizontal Choroidal Roundness of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Roundness of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.15 $\pm$ 0.03	0.15 $\pm$ 0.03
Entire Inner Part (n=100)	0.06 $\pm$ 0.01	0.06 $\pm$ 0.02
Entire Middle Part (n=100)	0.07 $\pm$ 0.02	0.08 $\pm$ 0.02
Entire Outer Part (n=100)	0.08 $\pm$ 0.02	0.09 $\pm$ 0.03

**FIGURE 4.47.** Vertical and Horizontal Choroidal Roundness of Healthy Cases.

4.3.28. CHOROIDAL SOLIDITY

Choroidal solidity is measured for both vertical and horizontal scans for 100 eyes. I 3000 is the lowest value total region in vertical scans and the value is 0.9939 ± 0.0074 . S 3200 is the highest value total region in vertical scans and the value is 1.0013 ± 0.0097 . I 3100 is the lowest value inner region in vertical scans and the value is 0.9521 ± 0.0207 . I 200 is the highest value inner region in vertical scans and the value is 0.9788 ± 0.0197 . S 200 is the lowest value middle region in vertical scans and the value is 1 ± 0 . S 3200 is the highest value middle region in vertical scans and the value

is 1.0014 ± 0.0143 . V 0 is the lowest value outer region in vertical scans and the value is 1.0172 ± 0.0177 . S 3200 is the highest value outer region in vertical scans and the value is 1.0328 ± 0.0233 . Thus combining inner, middle and outer vertical scan values together, lowest value region is the inner I 3100 and highest value region is the outer S 3200 (Table S.91.) (Figure 4.48.).

N 2900 is the lowest value total region in horizontal scans and the value is 0.992 ± 0.0159 . T 200 is the highest value total region in horizontal scans and the value is 1.0017 ± 0.0073 . N 3100 is the lowest value inner region in horizontal scans and the value is 0.9374 ± 0.0316 . H 0 is the highest value inner region in horizontal scans and the value is 0.98 ± 0.0209 . T 200 is the lowest value middle region in horizontal scans and the value is 1 ± 0 . T 3200 is the highest value middle region in horizontal scans and the value is 1.0014 ± 0.0143 . N 100 is the lowest value outer region in horizontal scans and the value is 1.0197 ± 0.017 . N 3200 is the highest value outer region in horizontal scans and the value is 1.0516 ± 0.0425 . Thus combining inner, middle and outer horizontal scan values together, lowest value region is the inner N 3100 and highest value region is the outer N 3200 (Table S.92.) (Figure 4.48.). The mean vertical and horizontal values of all regions can be seen in Table 4.56.

TABLE 4.56. Table of Entire ROI Vertical and Horizontal Choroidal Solidity of Healthy Cases.

Table of Entire ROI Vertical and Horizontal Choroidal Solidity of Healthy Cases		
Group	Vertical Value $\bar{x} \pm \sigma$	Horizontal Value $\bar{x} \pm \sigma$
Entire ROI (n=100)	0.8260±0.0680	0.8321±0.0687
Entire Inner Part (n=100)	0.6488±0.1110	0.6523±0.1229
Entire Middle Part (n=100)	0.6203±0.1001	0.5798±0.0965
Entire Outer Part (n=100)	0.5651±0.1035	0.4970±0.0878

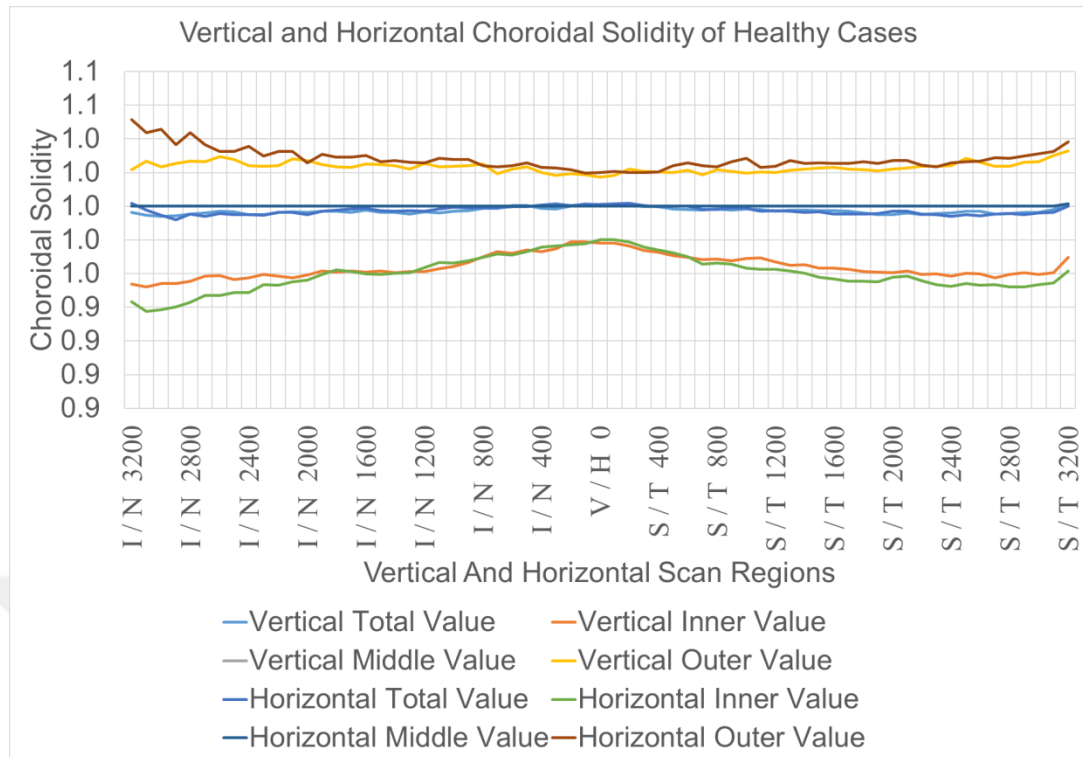


FIGURE 4.48. Vertical and Horizontal Choroidal Solidity of Healthy Cases.

4.4. RETINAL AND CHOROIDAL COMBINED RESULTS

Retinal and choroidal combined results are gathered together under the headlines of sRCTR results and mRCTR results.

4.4.1. sRCTR RESULTS

sRCTR is measured for both vertical and horizontal scans for 100 eyes. V 0 or central region is the lowest value region in vertical scans and the value is 0.78 ± 0.22 . I 1300 is the highest value region in vertical scans and the value is 1.41 ± 0.43 . H 0 or central region is the lowest region in horizontal scans and the value is 0.79 ± 0.22 . N 3200 is the highest value region in horizontal scans and the value is 2.11 ± 0.76 . Thus combining horizontal and vertical scans together, lowest value region is V 0 and highest value region is N 3200 (Table 4.57.) (Figure 4.49.).

TABLE 4.57. Table of Vertical and Horizontal sRCTR of Healthy Cases.

Table of Vertical and Horizontal sRCTR of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	1.25 $\pm$ 0.46	S 100	0.79 $\pm$ 0.23	N 3200	2.11 $\pm$ 0.76	T 100	0.80 $\pm$ 0.22
I 3100	1.23 $\pm$ 0.44	S 200	0.84 $\pm$ 0.23	N 3100	2.00 $\pm$ 0.69	T 200	0.83 $\pm$ 0.24
I 3000	1.23 $\pm$ 0.44	S 300	0.91 $\pm$ 0.25	N 3000	1.93 $\pm$ 0.67	T 300	0.89 $\pm$ 0.25
I 2900	1.22 $\pm$ 0.43	S 400	0.99 $\pm$ 0.26	N 2900	1.86 $\pm$ 0.64	T 400	0.96 $\pm$ 0.26
I 2800	1.22 $\pm$ 0.42	S 500	1.07 $\pm$ 0.27	N 2800	1.79 $\pm$ 0.63	T 500	1.04 $\pm$ 0.28
I 2700	1.22 $\pm$ 0.41	S 600	1.14 $\pm$ 0.27	N 2700	1.74 $\pm$ 0.60	T 600	1.10 $\pm$ 0.30
I 2600	1.23 $\pm$ 0.41	S 700	1.19 $\pm$ 0.28	N 2600	1.70 $\pm$ 0.59	T 700	1.16 $\pm$ 0.33
I 2500	1.24 $\pm$ 0.41	S 800	1.24 $\pm$ 0.29	N 2500	1.67 $\pm$ 0.56	T 800	1.21 $\pm$ 0.34
I 2400	1.25 $\pm$ 0.42	S 900	1.26 $\pm$ 0.30	N 2400	1.65 $\pm$ 0.53	T 900	1.25 $\pm$ 0.35
I 2300	1.27 $\pm$ 0.43	S 1000	1.29 $\pm$ 0.31	N 2300	1.63 $\pm$ 0.51	T 1000	1.29 $\pm$ 0.36
I 2200	1.28 $\pm$ 0.46	S 1100	1.30 $\pm$ 0.30	N 2200	1.60 $\pm$ 0.49	T 1100	1.32 $\pm$ 0.38
I 2100	1.29 $\pm$ 0.46	S 1200	1.29 $\pm$ 0.29	N 2100	1.58 $\pm$ 0.47	T 1200	1.33 $\pm$ 0.39
I 2000	1.31 $\pm$ 0.47	S 1300	1.29 $\pm$ 0.29	N 2000	1.57 $\pm$ 0.45	T 1300	1.34 $\pm$ 0.41
I 1900	1.33 $\pm$ 0.47	S 1400	1.29 $\pm$ 0.29	N 1900	1.56 $\pm$ 0.45	T 1400	1.34 $\pm$ 0.42
I 1800	1.34 $\pm$ 0.45	S 1500	1.28 $\pm$ 0.29	N 1800	1.55 $\pm$ 0.44	T 1500	1.34 $\pm$ 0.44
I 1700	1.36 $\pm$ 0.43	S 1600	1.27 $\pm$ 0.28	N 1700	1.53 $\pm$ 0.41	T 1600	1.34 $\pm$ 0.45
I 1600	1.37 $\pm$ 0.42	S 1700	1.25 $\pm$ 0.28	N 1600	1.52 $\pm$ 0.41	T 1700	1.34 $\pm$ 0.45
I 1500	1.39 $\pm$ 0.42	S 1800	1.23 $\pm$ 0.27	N 1500	1.52 $\pm$ 0.41	T 1800	1.32 $\pm$ 0.45
I 1400	1.40 $\pm$ 0.42	S 1900	1.22 $\pm$ 0.26	N 1400	1.50 $\pm$ 0.41	T 1900	1.31 $\pm$ 0.45
I 1300	1.41 $\pm$ 0.43	S 2000	1.20 $\pm$ 0.26	N 1300	1.47 $\pm$ 0.40	T 2000	1.29 $\pm$ 0.43
I 1200	1.40 $\pm$ 0.42	S 2100	1.18 $\pm$ 0.26	N 1200	1.44 $\pm$ 0.39	T 2100	1.28 $\pm$ 0.41
I 1100	1.39 $\pm$ 0.41	S 2200	1.18 $\pm$ 0.27	N 1100	1.40 $\pm$ 0.37	T 2200	1.26 $\pm$ 0.39
I 1000	1.38 $\pm$ 0.40	S 2300	1.16 $\pm$ 0.26	N 1000	1.36 $\pm$ 0.35	T 2300	1.25 $\pm$ 0.37
I 900	1.34 $\pm$ 0.38	S 2400	1.15 $\pm$ 0.27	N 900	1.30 $\pm$ 0.32	T 2400	1.24 $\pm$ 0.36
I 800	1.30 $\pm$ 0.36	S 2500	1.14 $\pm$ 0.28	N 800	1.25 $\pm$ 0.31	T 2500	1.23 $\pm$ 0.35
I 700	1.25 $\pm$ 0.35	S 2600	1.13 $\pm$ 0.29	N 700	1.19 $\pm$ 0.30	T 2600	1.23 $\pm$ 0.35
I 600	1.18 $\pm$ 0.33	S 2700	1.12 $\pm$ 0.28	N 600	1.13 $\pm$ 0.30	T 2700	1.23 $\pm$ 0.36
I 500	1.11 $\pm$ 0.30	S 2800	1.12 $\pm$ 0.29	N 500	1.07 $\pm$ 0.29	T 2800	1.23 $\pm$ 0.36
I 400	1.02 $\pm$ 0.27	S 2900	1.12 $\pm$ 0.31	N 400	1.00 $\pm$ 0.28	T 2900	1.23 $\pm$ 0.38
I 300	0.93 $\pm$ 0.25	S 3000	1.13 $\pm$ 0.36	N 300	0.92 $\pm$ 0.26	T 3000	1.23 $\pm$ 0.38
I 200	0.84 $\pm$ 0.24	S 3100	1.14 $\pm$ 0.38	N 200	0.86 $\pm$ 0.26	T 3100	1.24 $\pm$ 0.39
I 100	0.79 $\pm$ 0.22	S 3200	1.16 $\pm$ 0.42	N 100	0.81 $\pm$ 0.23	T 3200	1.26 $\pm$ 0.44
V 0	0.78 $\pm$ 0.22			H 0	0.79 $\pm$ 0.22		

4.4.2. mRCTR RESULTS

mRCTR is measured for both vertical and horizontal scans for 100 eyes. V 0 or central region is the lowest value region in vertical scans and the value is 0.78 ± 0.22 . I 1300 is the highest value region in vertical scans and the value is 1.42 ± 0.44 . S 100 or is the lowest region in horizontal scans and the value is 0.79 ± 0.22 . N 3200 is the highest value region in horizontal scans and the value is 2.04 ± 0.74 . Thus

combining horizontal and vertical scans together, lowest value region is V 0 and highest value region is N 3200 (Table 4.58.) (Figure 4.49.).

TABLE 4.58. Table of Vertical and Horizontal mRCTR of Healthy Cases.

Table of Vertical and Horizontal mRCTR of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	1.27 $\pm$ 0.49	S 100	0.79 $\pm$ 0.23	N 3200	2.04 $\pm$ 0.74	T 100	0.79 $\pm$ 0.22
I 3100	1.25 $\pm$ 0.47	S 200	0.83 $\pm$ 0.24	N 3100	1.97 $\pm$ 0.70	T 200	0.82 $\pm$ 0.24
I 3000	1.25 $\pm$ 0.46	S 300	0.90 $\pm$ 0.25	N 3000	1.90 $\pm$ 0.67	T 300	0.88 $\pm$ 0.25
I 2900	1.24 $\pm$ 0.44	S 400	0.98 $\pm$ 0.26	N 2900	1.82 $\pm$ 0.65	T 400	0.95 $\pm$ 0.27
I 2800	1.23 $\pm$ 0.43	S 500	1.06 $\pm$ 0.27	N 2800	1.77 $\pm$ 0.64	T 500	1.03 $\pm$ 0.29
I 2700	1.24 $\pm$ 0.43	S 600	1.13 $\pm$ 0.28	N 2700	1.73 $\pm$ 0.61	T 600	1.10 $\pm$ 0.31
I 2600	1.24 $\pm$ 0.43	S 700	1.19 $\pm$ 0.29	N 2600	1.70 $\pm$ 0.59	T 700	1.16 $\pm$ 0.33
I 2500	1.25 $\pm$ 0.43	S 800	1.23 $\pm$ 0.30	N 2500	1.67 $\pm$ 0.55	T 800	1.21 $\pm$ 0.35
I 2400	1.27 $\pm$ 0.43	S 900	1.27 $\pm$ 0.31	N 2400	1.65 $\pm$ 0.53	T 900	1.26 $\pm$ 0.36
I 2300	1.28 $\pm$ 0.45	S 1000	1.29 $\pm$ 0.31	N 2300	1.60 $\pm$ 0.53	T 1000	1.29 $\pm$ 0.37
I 2200	1.29 $\pm$ 0.46	S 1100	1.30 $\pm$ 0.31	N 2200	1.60 $\pm$ 0.48	T 1100	1.32 $\pm$ 0.38
I 2100	1.31 $\pm$ 0.47	S 1200	1.30 $\pm$ 0.30	N 2100	1.59 $\pm$ 0.47	T 1200	1.34 $\pm$ 0.40
I 2000	1.32 $\pm$ 0.48	S 1300	1.30 $\pm$ 0.30	N 2000	1.58 $\pm$ 0.45	T 1300	1.35 $\pm$ 0.42
I 1900	1.34 $\pm$ 0.48	S 1400	1.30 $\pm$ 0.30	N 1900	1.56 $\pm$ 0.44	T 1400	1.36 $\pm$ 0.44
I 1800	1.36 $\pm$ 0.47	S 1500	1.29 $\pm$ 0.30	N 1800	1.55 $\pm$ 0.42	T 1500	1.36 $\pm$ 0.46
I 1700	1.37 $\pm$ 0.44	S 1600	1.27 $\pm$ 0.29	N 1700	1.54 $\pm$ 0.42	T 1600	1.36 $\pm$ 0.47
I 1600	1.39 $\pm$ 0.43	S 1700	1.26 $\pm$ 0.29	N 1600	1.53 $\pm$ 0.42	T 1700	1.35 $\pm$ 0.47
I 1500	1.40 $\pm$ 0.43	S 1800	1.24 $\pm$ 0.28	N 1500	1.51 $\pm$ 0.42	T 1800	1.34 $\pm$ 0.47
I 1400	1.41 $\pm$ 0.43	S 1900	1.23 $\pm$ 0.27	N 1400	1.47 $\pm$ 0.43	T 1900	1.32 $\pm$ 0.46
I 1300	1.42 $\pm$ 0.44	S 2000	1.21 $\pm$ 0.27	N 1300	1.45 $\pm$ 0.39	T 2000	1.30 $\pm$ 0.44
I 1200	1.40 $\pm$ 0.46	S 2100	1.20 $\pm$ 0.27	N 1200	1.41 $\pm$ 0.38	T 2100	1.28 $\pm$ 0.42
I 1100	1.41 $\pm$ 0.42	S 2200	1.18 $\pm$ 0.27	N 1100	1.36 $\pm$ 0.35	T 2200	1.27 $\pm$ 0.40
I 1000	1.39 $\pm$ 0.41	S 2300	1.17 $\pm$ 0.27	N 1000	1.30 $\pm$ 0.33	T 2300	1.26 $\pm$ 0.38
I 900	1.35 $\pm$ 0.39	S 2400	1.16 $\pm$ 0.28	N 900	1.24 $\pm$ 0.32	T 2400	1.25 $\pm$ 0.37
I 800	1.30 $\pm$ 0.37	S 2500	1.15 $\pm$ 0.28	N 800	1.19 $\pm$ 0.31	T 2500	1.24 $\pm$ 0.36
I 700	1.25 $\pm$ 0.36	S 2600	1.14 $\pm$ 0.29	N 700	1.13 $\pm$ 0.30	T 2600	1.24 $\pm$ 0.36
I 600	1.18 $\pm$ 0.33	S 2700	1.13 $\pm$ 0.29	N 600	1.06 $\pm$ 0.29	T 2700	1.24 $\pm$ 0.37
I 500	1.10 $\pm$ 0.31	S 2800	1.13 $\pm$ 0.30	N 500	0.98 $\pm$ 0.28	T 2800	1.24 $\pm$ 0.37
I 400	1.01 $\pm$ 0.28	S 2900	1.13 $\pm$ 0.31	N 400	0.91 $\pm$ 0.26	T 2900	1.25 $\pm$ 0.39
I 300	0.92 $\pm$ 0.25	S 3000	1.14 $\pm$ 0.37	N 300	0.85 $\pm$ 0.25	T 3000	1.25 $\pm$ 0.39
I 200	0.84 $\pm$ 0.24	S 3100	1.15 $\pm$ 0.39	N 200	0.80 $\pm$ 0.24	T 3100	1.25 $\pm$ 0.41
I 100	0.79 $\pm$ 0.22	S 3200	1.17 $\pm$ 0.43	N 100	0.79 $\pm$ 0.23	T 3200	1.27 $\pm$ 0.47
V 0	0.78 $\pm$ 0.22			H 0	0.79 $\pm$ 0.22		

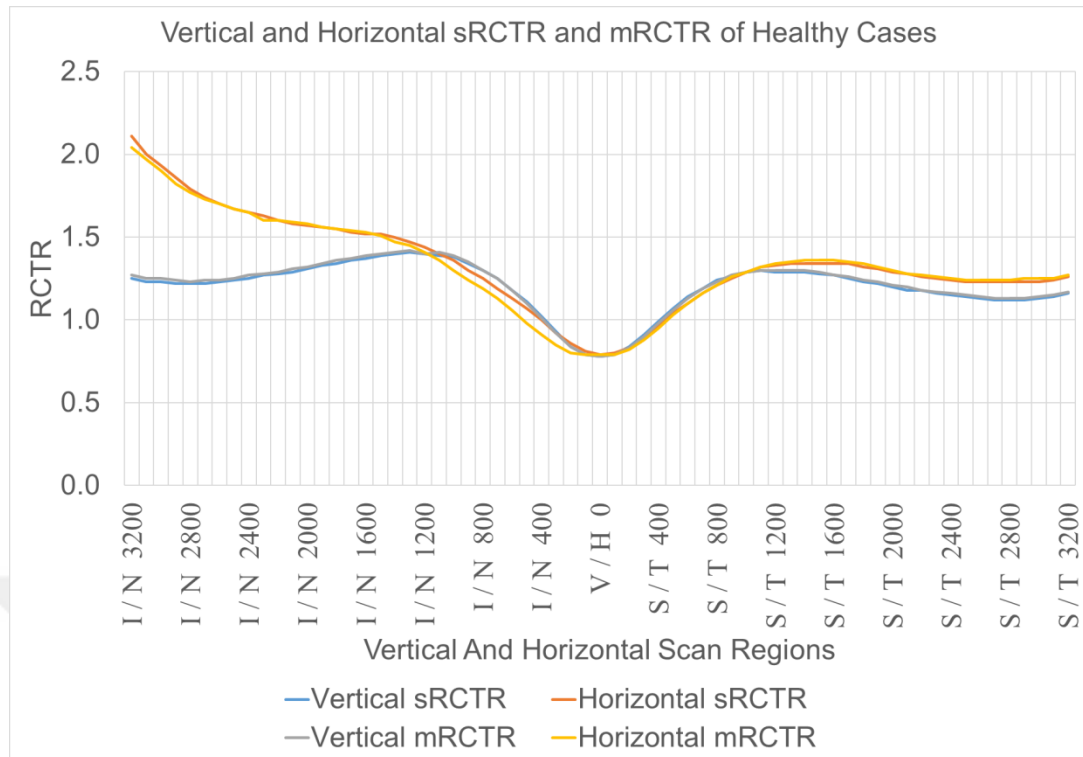


FIGURE 4.49. Vertical and Horizontal mRCTR and sRCTR of Healthy Cases.

4.4.3. sCRTR RESULTS

sCRTR is measured for both vertical and horizontal scans for 100 eyes. I 1200 is the lowest value region in vertical scans and the value is 0.77 ± 0.21 . V 0 is the highest value region in vertical scans and the value is 1.37 ± 0.35 . N 3200 is the lowest region in horizontal scans and the value is 0.56 ± 0.19 . N 100 is the highest value region in horizontal scans and the value is 1.36 ± 0.38 . Thus combining horizontal and vertical scans together, lowest value region is N 3200 and highest value region is V 0 (Table 4.59.) (Figure 4.50.).

TABLE 4.59. Table of Vertical and Horizontal sCRTR of Healthy Cases.

Table of Vertical and Horizontal sCRTR of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	0.89 $\pm$ 0.27	S 100	1.35 $\pm$ 0.35	N 3200	0.56 $\pm$ 0.19	T 100	1.35 $\pm$ 0.37
I 3100	0.90 $\pm$ 0.27	S 200	1.28 $\pm$ 0.33	N 3100	0.58 $\pm$ 0.20	T 200	1.30 $\pm$ 0.37
I 3000	0.90 $\pm$ 0.27	S 300	1.18 $\pm$ 0.30	N 3000	0.60 $\pm$ 0.20	T 300	1.21 $\pm$ 0.35
I 2900	0.90 $\pm$ 0.26	S 400	1.07 $\pm$ 0.26	N 2900	0.62 $\pm$ 0.21	T 400	1.12 $\pm$ 0.33
I 2800	0.90 $\pm$ 0.26	S 500	0.99 $\pm$ 0.23	N 2800	0.64 $\pm$ 0.21	T 500	1.04 $\pm$ 0.30
I 2700	0.90 $\pm$ 0.25	S 600	0.93 $\pm$ 0.21	N 2700	0.65 $\pm$ 0.21	T 600	0.98 $\pm$ 0.28
I 2600	0.89 $\pm$ 0.25	S 700	0.88 $\pm$ 0.20	N 2600	0.66 $\pm$ 0.20	T 700	0.93 $\pm$ 0.27
I 2500	0.88 $\pm$ 0.24	S 800	0.85 $\pm$ 0.19	N 2500	0.67 $\pm$ 0.20	T 800	0.89 $\pm$ 0.28
I 2400	0.87 $\pm$ 0.24	S 900	0.83 $\pm$ 0.18	N 2400	0.67 $\pm$ 0.20	T 900	0.86 $\pm$ 0.25
I 2300	0.86 $\pm$ 0.24	S 1000	0.81 $\pm$ 0.17	N 2300	0.68 $\pm$ 0.20	T 1000	0.84 $\pm$ 0.24
I 2200	0.85 $\pm$ 0.24	S 1100	0.81 $\pm$ 0.17	N 2200	0.68 $\pm$ 0.19	T 1100	0.82 $\pm$ 0.24
I 2100	0.85 $\pm$ 0.23	S 1200	0.81 $\pm$ 0.16	N 2100	0.69 $\pm$ 0.19	T 1200	0.81 $\pm$ 0.24
I 2000	0.84 $\pm$ 0.23	S 1300	0.81 $\pm$ 0.16	N 2000	0.69 $\pm$ 0.19	T 1300	0.81 $\pm$ 0.24
I 1900	0.82 $\pm$ 0.22	S 1400	0.81 $\pm$ 0.16	N 1900	0.69 $\pm$ 0.20	T 1400	0.81 $\pm$ 0.24
I 1800	0.81 $\pm$ 0.22	S 1500	0.81 $\pm$ 0.17	N 1800	0.70 $\pm$ 0.19	T 1500	0.81 $\pm$ 0.24
I 1700	0.80 $\pm$ 0.22	S 1600	0.82 $\pm$ 0.17	N 1700	0.70 $\pm$ 0.20	T 1600	0.81 $\pm$ 0.24
I 1600	0.79 $\pm$ 0.22	S 1700	0.83 $\pm$ 0.17	N 1600	0.71 $\pm$ 0.20	T 1700	0.82 $\pm$ 0.25
I 1500	0.78 $\pm$ 0.21	S 1800	0.85 $\pm$ 0.17	N 1500	0.72 $\pm$ 0.21	T 1800	0.83 $\pm$ 0.25
I 1400	0.77 $\pm$ 0.21	S 1900	0.86 $\pm$ 0.17	N 1400	0.73 $\pm$ 0.21	T 1900	0.84 $\pm$ 0.25
I 1300	0.77 $\pm$ 0.21	S 2000	0.87 $\pm$ 0.18	N 1300	0.74 $\pm$ 0.23	T 2000	0.85 $\pm$ 0.25
I 1200	0.77 $\pm$ 0.21	S 2100	0.88 $\pm$ 0.18	N 1200	0.77 $\pm$ 0.22	T 2100	0.86 $\pm$ 0.25
I 1100	0.78 $\pm$ 0.21	S 2200	0.89 $\pm$ 0.19	N 1100	0.79 $\pm$ 0.23	T 2200	0.86 $\pm$ 0.25
I 1000	0.78 $\pm$ 0.21	S 2300	0.91 $\pm$ 0.20	N 1000	0.82 $\pm$ 0.24	T 2300	0.87 $\pm$ 0.26
I 900	0.80 $\pm$ 0.21	S 2400	0.92 $\pm$ 0.20	N 900	0.86 $\pm$ 0.25	T 2400	0.88 $\pm$ 0.26
I 800	0.83 $\pm$ 0.22	S 2500	0.93 $\pm$ 0.20	N 800	0.90 $\pm$ 0.26	T 2500	0.88 $\pm$ 0.26
I 700	0.86 $\pm$ 0.23	S 2600	0.94 $\pm$ 0.21	N 700	0.95 $\pm$ 0.28	T 2600	0.88 $\pm$ 0.26
I 600	0.91 $\pm$ 0.24	S 2700	0.94 $\pm$ 0.22	N 600	1.01 $\pm$ 0.30	T 2700	0.88 $\pm$ 0.26
I 500	0.97 $\pm$ 0.25	S 2800	0.95 $\pm$ 0.22	N 500	1.09 $\pm$ 0.33	T 2800	0.87 $\pm$ 0.28
I 400	1.05 $\pm$ 0.27	S 2900	0.95 $\pm$ 0.23	N 400	1.18 $\pm$ 0.35	T 2900	0.89 $\pm$ 0.27
I 300	1.16 $\pm$ 0.30	S 3000	0.95 $\pm$ 0.25	N 300	1.25 $\pm$ 0.39	T 3000	0.89 $\pm$ 0.27
I 200	1.27 $\pm$ 0.33	S 3100	0.95 $\pm$ 0.25	N 200	1.34 $\pm$ 0.38	T 3100	0.89 $\pm$ 0.28
I 100	1.35 $\pm$ 0.35	S 3200	0.95 $\pm$ 0.26	N 100	1.36 $\pm$ 0.38	T 3200	0.88 $\pm$ 0.28
V 0	1.37 $\pm$ 0.35			H 0	1.35 $\pm$ 0.37		

4.4.4. mCRTR RESULTS

mCRTR is measured for both vertical and horizontal scans for 100 eyes. I 1200 is the lowest value region in vertical scans and the value is 0.76 ± 0.23 . V 0 is the highest value region in vertical scans and the value is 1.37 ± 0.35 . N 3200 or is the lowest region in horizontal scans and the value is 0.55 ± 0.19 . H 0 is the highest value region in horizontal scans and the value is 1.36 ± 0.38 . Thus combining horizontal and

vertical scans together, lowest value region is N 3200 and highest value region is V 0 (Table 4.60.) (Figure 4.50.).

TABLE 4.60. Table of Vertical and Horizontal mCRTR of Healthy Cases.

Table of Vertical and Horizontal mCRTR of Healthy Cases (μm)							
Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$	Region	Value $\bar{x} \pm \sigma$
I 3200	0.88 $\pm$ 0.27	S 100	1.36 $\pm$ 0.35	N 3200	0.55 $\pm$ 0.19	T 100	1.36 $\pm$ 0.38
I 3100	0.89 $\pm$ 0.27	S 200	1.30 $\pm$ 0.34	N 3100	0.57 $\pm$ 0.20	T 200	1.31 $\pm$ 0.37
I 3000	0.89 $\pm$ 0.27	S 300	1.20 $\pm$ 0.31	N 3000	0.59 $\pm$ 0.21	T 300	1.23 $\pm$ 0.36
I 2900	0.90 $\pm$ 0.27	S 400	1.09 $\pm$ 0.27	N 2900	0.61 $\pm$ 0.21	T 400	1.13 $\pm$ 0.34
I 2800	0.89 $\pm$ 0.26	S 500	1.00 $\pm$ 0.24	N 2800	0.63 $\pm$ 0.21	T 500	1.05 $\pm$ 0.31
I 2700	0.89 $\pm$ 0.25	S 600	0.94 $\pm$ 0.21	N 2700	0.64 $\pm$ 0.21	T 600	0.98 $\pm$ 0.29
I 2600	0.88 $\pm$ 0.25	S 700	0.89 $\pm$ 0.20	N 2600	0.65 $\pm$ 0.21	T 700	0.93 $\pm$ 0.28
I 2500	0.87 $\pm$ 0.24	S 800	0.86 $\pm$ 0.19	N 2500	0.66 $\pm$ 0.21	T 800	0.89 $\pm$ 0.27
I 2400	0.86 $\pm$ 0.24	S 900	0.83 $\pm$ 0.18	N 2400	0.67 $\pm$ 0.20	T 900	0.86 $\pm$ 0.26
I 2300	0.85 $\pm$ 0.24	S 1000	0.82 $\pm$ 0.18	N 2300	0.67 $\pm$ 0.21	T 1000	0.84 $\pm$ 0.25
I 2200	0.85 $\pm$ 0.24	S 1100	0.81 $\pm$ 0.17	N 2200	0.68 $\pm$ 0.19	T 1100	0.82 $\pm$ 0.24
I 2100	0.84 $\pm$ 0.24	S 1200	0.80 $\pm$ 0.16	N 2100	0.68 $\pm$ 0.19	T 1200	0.81 $\pm$ 0.24
I 2000	0.83 $\pm$ 0.23	S 1300	0.81 $\pm$ 0.16	N 2000	0.68 $\pm$ 0.19	T 1300	0.80 $\pm$ 0.24
I 1900	0.82 $\pm$ 0.23	S 1400	0.81 $\pm$ 0.16	N 1900	0.69 $\pm$ 0.19	T 1400	0.80 $\pm$ 0.24
I 1800	0.81 $\pm$ 0.22	S 1500	0.81 $\pm$ 0.17	N 1800	0.69 $\pm$ 0.19	T 1500	0.81 $\pm$ 0.24
I 1700	0.80 $\pm$ 0.22	S 1600	0.82 $\pm$ 0.17	N 1700	0.70 $\pm$ 0.20	T 1600	0.81 $\pm$ 0.24
I 1600	0.78 $\pm$ 0.22	S 1700	0.83 $\pm$ 0.17	N 1600	0.70 $\pm$ 0.20	T 1700	0.82 $\pm$ 0.25
I 1500	0.78 $\pm$ 0.22	S 1800	0.84 $\pm$ 0.17	N 1500	0.71 $\pm$ 0.21	T 1800	0.82 $\pm$ 0.25
I 1400	0.77 $\pm$ 0.21	S 1900	0.85 $\pm$ 0.17	N 1400	0.72 $\pm$ 0.23	T 1900	0.83 $\pm$ 0.25
I 1300	0.77 $\pm$ 0.21	S 2000	0.86 $\pm$ 0.18	N 1300	0.75 $\pm$ 0.22	T 2000	0.84 $\pm$ 0.25
I 1200	0.76 $\pm$ 0.23	S 2100	0.88 $\pm$ 0.18	N 1200	0.77 $\pm$ 0.22	T 2100	0.85 $\pm$ 0.25
I 1100	0.77 $\pm$ 0.21	S 2200	0.89 $\pm$ 0.19	N 1100	0.79 $\pm$ 0.23	T 2200	0.86 $\pm$ 0.26
I 1000	0.78 $\pm$ 0.22	S 2300	0.90 $\pm$ 0.20	N 1000	0.83 $\pm$ 0.24	T 2300	0.87 $\pm$ 0.26
I 900	0.80 $\pm$ 0.22	S 2400	0.91 $\pm$ 0.20	N 900	0.86 $\pm$ 0.25	T 2400	0.87 $\pm$ 0.26
I 800	0.83 $\pm$ 0.22	S 2500	0.92 $\pm$ 0.21	N 800	0.90 $\pm$ 0.27	T 2500	0.88 $\pm$ 0.26
I 700	0.86 $\pm$ 0.23	S 2600	0.93 $\pm$ 0.21	N 700	0.96 $\pm$ 0.29	T 2600	0.88 $\pm$ 0.26
I 600	0.91 $\pm$ 0.24	S 2700	0.94 $\pm$ 0.22	N 600	1.02 $\pm$ 0.31	T 2700	0.88 $\pm$ 0.27
I 500	0.97 $\pm$ 0.25	S 2800	0.94 $\pm$ 0.22	N 500	1.10 $\pm$ 0.33	T 2800	0.88 $\pm$ 0.27
I 400	1.06 $\pm$ 0.28	S 2900	0.94 $\pm$ 0.23	N 400	1.19 $\pm$ 0.35	T 2900	0.88 $\pm$ 0.27
I 300	1.17 $\pm$ 0.31	S 3000	0.95 $\pm$ 0.25	N 300	1.28 $\pm$ 0.38	T 3000	0.88 $\pm$ 0.27
I 200	1.28 $\pm$ 0.34	S 3100	0.95 $\pm$ 0.25	N 200	1.34 $\pm$ 0.38	T 3100	0.88 $\pm$ 0.28
I 100	1.36 $\pm$ 0.35	S 3200	0.93 $\pm$ 0.26	N 100	1.36 $\pm$ 0.38	T 3200	0.86 $\pm$ 0.30
V 0	1.37 $\pm$ 0.35			H 0	1.36 $\pm$ 0.38		

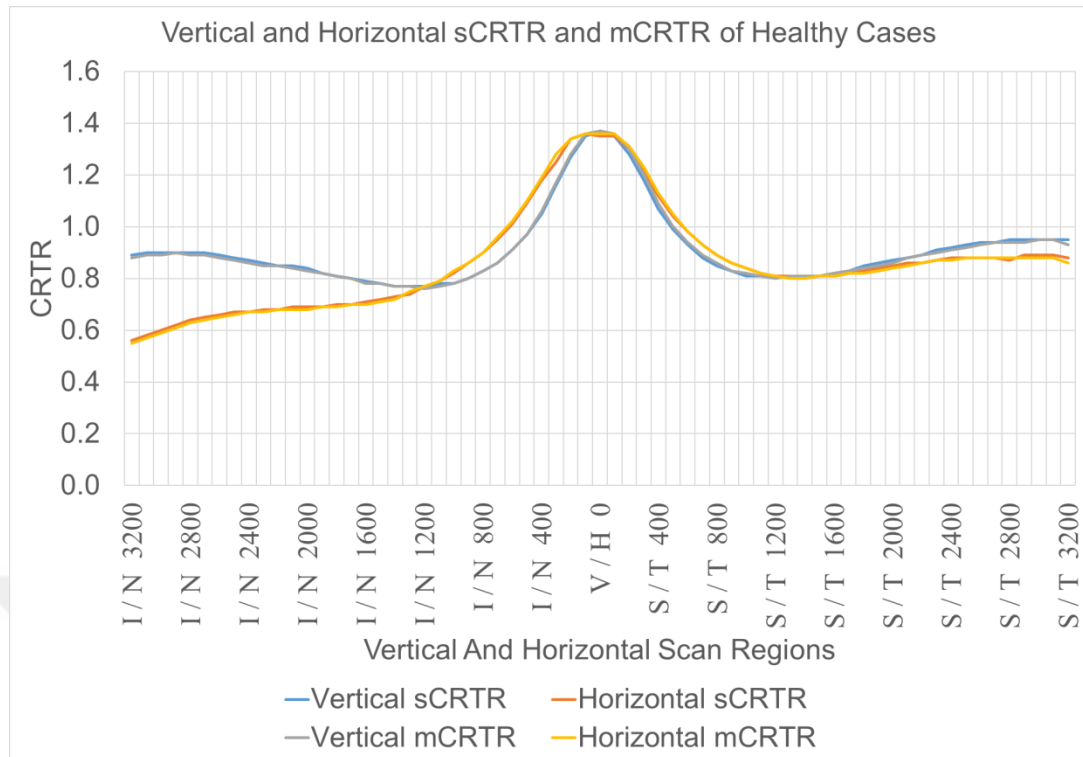


FIGURE 4.50. Vertical and Horizontal mCRTR and sCRTR of Healthy Cases.

4.4.5. BETWEEN VERTICAL AND HORIZONTAL RESULTS

Retinal and choroidal parameters were further investigated and compared between vertical and horizontal scans for total, inner, middle and outer regions (Table 4.61., Table 4.62.)

RETINAL BETWEEN VERTICAL AND HORIZONTAL RESULTS

TABLE 4.61. Table of Retinal Between Vertical and Horizontal p Values.

Table of Retinal Between Vertical and Horizontal p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Retinal RFI	0.534	0.595	0.961	0.567
TRA	0.386	0.422	0.309	0.352
DRA	0.008	0.021	0.43	<0.001
LRA	0.013	0.238	0.033	<0.001
DAP	<0.001	0.003	0.048	<0.001
LAP	<0.001	0.003	0.048	<0.001
DLR	<0.001	0.008	0.048	<0.001
Retinal Mean	<0.001	0.003	0.048	<0.001
Retinal Standard Deviation	<0.001	<0.001	0.047	0.671
Retinal Skewness	<0.001	0.002	0.047	<0.001
Retinal Kurtosis	<0.001	<0.001	0.05	0.777
Retinal Perimeter	0.258	<0.001	0.019	0.151
Retinal Height	0.957	0.867	0.807	0.478
Retinal Major	0.442	0.271	0.175	0.571
Retinal Minor	0.269	0.829	0.695	0.983
Retinal Angle	0.173	0.507	0.173	0.04
Retinal Integrated Density	0.013	0.238	0.033	<0.001
Retinal Raw Integrated Density	0.013	0.238	0.033	<0.001
Retinal Feret	0.979	0.862	0.48	0.523
Retinal Minimum Feret	0.523	0.598	0.625	0.577
Retinal Feret Angle	<0.001	0.015	0.001	0.002
Retinal Circularity	0.527	0.372	0.942	0.644
Retinal Aspect Ratio	0.173	0.472	0.423	0.956
Retinal Roundness	0.2	0.541	0.376	0.687
Retinal Solidity	0.317	0.663	0.286	0.648

CHOROIDAL BETWEEN VERTICAL AND HORIZONTAL RESULTS

TABLE 4.62. Table of Choroidal Between Vertical and Horizontal p Values.

Table of Choroidal Between Vertical and Horizontal p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Choroidal RFI	0.015	0.576	0.004	<0.001
TCA	0.01	0.013	0.012	0.008
LCA	0.014	0.014	0.008	0.029
SCA	0.471	0.815	0.521	0.011
CVI	0.019	0.678	0.025	<0.001
SAP	0.019	0.678	0.025	<0.001
LSR	0.032	0.411	0.054	<0.001
Choroidal Mean	0.019	0.678	0.025	<0.001
Choroidal Standard Deviation	0.029	0.556	0.049	<0.001
Choroidal Skewness	0.024	0.53	0.033	<0.001
Choroidal Kurtosis	0.037	0.395	0.074	<0.001
Choroidal Perimeter	<0.001	<0.001	0.001	0.094
Choroidal Height	0.141	0.098	0.701	0.023
Choroidal Major	<0.001	<0.001	<0.001	<0.001
Choroidal Minor	0.266	0.584	0.359	0.045
Choroidal Angle	<0.001	0.005	<0.001	<0.001
Choroidal Integrated Density	0.003	0.055	0.236	<0.001
Choroidal Raw Integrated Density	0.003	0.055	0.236	<0.001
Choroidal Feret	<0.001	0.002	0.017	0.226
Choroidal Minimum Feret	0.402	0.534	0.073	0.002
Choroidal Feret Angle	<0.001	<0.001	<0.001	<0.001
Choroidal Circularity	0.153	0.043	0.027	0.009
Choroidal Aspect Ratio	0.877	0.261	0.001	<0.001
Choroidal Roundness	0.606	0.12	<0.001	<0.001
Choroidal Solidity	0.533	0.832	0.004	<0.001

4.4.6. SCAN REGIONS AND SEX

Sex effect was analyzed for 4 major structure regions as: vertical retinal regions, horizontal retinal regions, vertical choroidal regions, horizontal choroidal regions (Table 4.63., Table 4.64., Table 4.65., Table 4.66.).

VERTICAL RETINAL REGIONS AND SEX

TABLE 4.63. Table of Vertical Retinal Regions and Sex p Values.

Table of Vertical Retinal Regions and Sex p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Retinal RFI	0.425	0.738	0.769	0.88
TRA	0.025	0.035	0.028	0.022
DRA	0.105	0.022	0.362	0.245
LRA	0.01	0.146	0.103	0.187
DAP	0.704	0.302	0.435	0.93
LAP	0.704	0.302	0.435	0.93
DLR	0.632	0.308	0.343	0.792
Retinal Mean	0.704	0.302	0.435	0.93
Retinal Standard Deviation	0.339	0.284	0.297	0.34
Retinal Skewness	0.698	0.298	0.401	0.983
Retinal Kurtosis	0.339	0.28	0.292	0.319
Retinal Perimeter	0.182	0.18	0.007	0.165
Retinal Height	0.05	0.361	0.513	0.396
Retinal Major	0.341	0.138	0.214	0.284
Retinal Minor	0.03	0.591	0.528	0.593
Retinal Angle	0.399	0.465	0.406	0.348
Retinal Integrated Density	0.01	0.146	0.103	0.187
Retinal Raw Integrated Density	0.01	0.146	0.103	0.187
Retinal Feret	0.047	0.06	0.068	0.078
Retinal Minimum Feret	0.368	0.42	0.358	0.434
Retinal Feret Angle	0.175	0.189	0.17	0.127
Retinal Circularity	0.031	0.016	0.004	0.011
Retinal Aspect Ratio	0.084	0.579	0.865	0.946
Retinal Roundness	0.055	0.627	0.641	0.566
Retinal Solidity	0.083	0.119	0.064	0.092

HORIZONTAL RETINAL REGIONS AND SEX

TABLE 4.64. Table of Horizontal Retinal Regions and Sex p Values.

Table of Horizontal Retinal Regions and Sex p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Retinal RFI	0.496	0.039	0.166	0.615
TRA	0.007	0.007	0.007	0.008
DRA	0.047	0.024	0.408	0.073
LRA	0.007	0.147	0.011	0.389
DAP	0.812	0.266	0.132	0.415
LAP	0.812	0.266	0.132	0.415
DLR	0.831	0.352	0.193	0.538
Retinal Mean	0.812	0.266	0.132	0.415
Retinal Standard Deviation	0.974	0.081	0.19	0.334
Retinal Skewness	0.812	0.246	0.152	0.426
Retinal Kurtosis	0.976	0.075	0.23	0.33
Retinal Perimeter	0.291	0.647	0.264	0.118
Retinal Height	0.582	0.384	0.578	0.953
Retinal Major	0.781	0.094	0.404	0.743
Retinal Minor	0.007	0.368	0.222	0.196
Retinal Angle	0.184	0.218	0.178	0.17
Retinal Integrated Density	0.007	0.147	0.011	0.389
Retinal Raw Integrated Density	0.007	0.147	0.011	0.389
Retinal Feret	0.757	0.178	0.425	0.837
Retinal Minimum Feret	0.063	0.897	0.88	0.589
Retinal Feret Angle	0.056	0.22	0.048	0.079
Retinal Circularity	0.002	0.012	0.042	0.041
Retinal Aspect Ratio	0.016	0.82	0.648	0.477
Retinal Roundness	0.013	0.782	0.774	0.612
Retinal Solidity	0.655	0.196	0.49	0.719

VERTICAL CHOROIDAL REGIONS AND SEX

TABLE 4.65. Table of Vertical Choroidal Regions and Sex p Values.

Table of Vertical Choroidal Regions and Sex p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Choroidal RFI	0.436	0.483	0.242	0.307
TCA	0.994	0.996	0.979	0.966
LCA	0.765	0.675	0.771	0.859
SCA	0.172	0.059	0.268	0.338
CVI	0.053	0.002	0.465	0.852
SAP	0.053	0.002	0.465	0.852
LSR	0.064	0.001	0.327	0.567
Choroidal Mean	0.053	0.002	0.465	0.852
Choroidal Standard Deviation	0.063	0.001	0.342	0.578
Choroidal Skewness	0.057	0.001	0.403	0.732
Choroidal Kurtosis	0.069	0.001	0.291	0.475
Choroidal Perimeter	0.518	0.551	0.374	0.637
Choroidal Height	0.47	0.601	0.172	0.135
Choroidal Major	0.013	0.091	0.013	0.012
Choroidal Minor	0.558	0.242	0.084	0.05
Choroidal Angle	0.303	0.321	0.311	0.369
Choroidal Integrated Density	0.394	0.045	0.637	0.923
Choroidal Raw Integrated Density	0.394	0.045	0.637	0.923
Choroidal Feret	0.049	0.064	0.091	0.082
Choroidal Minimum Feret	0.162	0.078	0.019	0.025
Choroidal Feret Angle	0.767	0.109	0.31	0.552
Choroidal Circularity	0.772	0.933	0.896	0.869
Choroidal Aspect Ratio	0.335	0.249	0.078	0.058
Choroidal Roundness	0.228	0.042	0.007	0.005
Choroidal Solidity	0.409	0.266	0.055	0.063

HORIZONTAL CHOROIDAL REGIONS AND SEX

TABLE 4.66. Table of Horizontal Choroidal Regions and Sex p Values.

Table of Horizontal Choroidal Regions and Sex p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Choroidal RFI	0.822	0.562	0.345	0.375
TCA	0.097	0.098	0.093	0.099
LCA	0.051	0.04	0.07	0.048
SCA	0.173	0.071	0.553	0.116
CVI	0.13	0.01	0.516	0.551
SAP	0.13	0.01	0.516	0.551
LSR	0.146	0.029	0.789	0.692
Choroidal Mean	0.13	0.01	0.516	0.551
Choroidal Standard Deviation	0.145	0.013	0.776	0.62
Choroidal Skewness	0.135	0.014	0.616	0.608
Choroidal Kurtosis	0.152	0.033	0.909	0.726
Choroidal Perimeter	0.016	0.052	0.016	0.028
Choroidal Height	0.033	0.054	0.017	0.013
Choroidal Major	0.345	0.515	0.677	0.526
Choroidal Minor	0.103	0.098	0.089	0.122
Choroidal Angle	0.155	0.14	0.168	0.222
Choroidal Integrated Density	0.379	0.807	0.098	0.39
Choroidal Raw Integrated Density	0.379	0.807	0.098	0.39
Choroidal Feret	0.002	0.156	0.013	0.003
Choroidal Minimum Feret	0.102	0.107	0.085	0.142
Choroidal Feret Angle	0.028	0.096	0.092	0.333
Choroidal Circularity	0.179	0.143	0.177	0.175
Choroidal Aspect Ratio	0.257	0.63	0.539	0.761
Choroidal Roundness	0.125	0.288	0.255	0.352
Choroidal Solidity	0.743	0.831	0.812	0.791

4.4.7. SCAN REGIONS AND AGE GROUPS

The age effect was analyzed for 4 major structure regions as vertical retinal regions, horizontal retinal regions, vertical choroidal regions, horizontal choroidal regions (Table 4.67., Table 4.68., Table 4.69., Table 4.70.).

VERTICAL RETINAL REGIONS AND AGE

TABLE 4.67. Table of Vertical Retinal Regions and Age p Values.

Table of Vertical Retinal Regions and Age p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Retinal RFI	0.198	0.489	0.399	0.348
TRA	0.044	0.038	0.052	0.052
DRA	0.147	0.018	0.32	0.154
LRA	0.035	0.278	0.027	0.173
DAP	0.729	0.58	0.076	0.244
LAP	0.729	0.58	0.076	0.244
DLR	0.772	0.595	0.059	0.27
Retinal Mean	0.729	0.58	0.076	0.244
Retinal Standard Deviation	0.919	0.512	0.054	0.207
Retinal Skewness	0.734	0.572	0.071	0.253
Retinal Kurtosis	0.921	0.498	0.049	0.196
Retinal Perimeter	0.237	0.097	0.041	0.03
Retinal Height	0.114	0.66	0.384	0.381
Retinal Major	0.085	0.048	0.106	0.321
Retinal Minor	0.048	0.1	0.055	0.097
Retinal Angle	0.381	0.403	0.375	0.353
Retinal Integrated Density	0.035	0.278	0.027	0.173
Retinal Raw Integrated Density	0.035	0.278	0.027	0.173
Retinal Feret	0.193	0.357	0.376	0.354
Retinal Minimum Feret	0.019	0.313	0.219	0.173
Retinal Feret Angle	0.346	0.418	0.275	0.151
Retinal Circularity	0.019	0.015	0.031	0.044
Retinal Aspect Ratio	0.059	0.101	0.095	0.281
Retinal Roundness	0.062	0.086	0.069	0.159
Retinal Solidity	0.01	0.061	0.098	0.195

HORIZONTAL RETINAL REGIONS AND AGE

TABLE 4.68. Table of Horizontal Retinal Regions and Age p Values.

Table of Horizontal Retinal Regions and Age p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Retinal RFI	0.069	0.005	0.031	0.084
TRA	0.081	0.07	0.083	0.086
DRA	0.113	0.002	0.134	0.108
LRA	0.417	0.011	0.211	0.031
DAP	0.494	<0.001	0.219	0.096
LAP	0.494	<0.001	0.219	0.096
DLR	0.555	<0.001	0.238	0.118
Retinal Mean	0.494	<0.001	0.219	0.096
Retinal Standard Deviation	0.802	<0.001	0.242	0.678
Retinal Skewness	0.499	<0.001	0.226	0.101
Retinal Kurtosis	0.8	0.001	0.249	0.666
Retinal Perimeter	0.144	0.012	0.093	0.075
Retinal Height	0.051	0.013	0.03	0.052
Retinal Major	0.046	0.008	0.021	0.048
Retinal Minor	0.062	0.024	0.023	0.028
Retinal Angle	0.868	0.895	0.871	0.874
Retinal Integrated Density	0.417	0.011	0.211	0.031
Retinal Raw Integrated Density	0.417	0.011	0.211	0.031
Retinal Feret	0.22	0.056	0.106	0.192
Retinal Minimum Feret	0.107	0.007	0.019	0.044
Retinal Feret Angle	0.468	0.8	0.754	0.375
Retinal Circularity	0.02	0.011	0.096	0.092
Retinal Aspect Ratio	0.039	0.011	0.014	0.025
Retinal Roundness	0.045	0.011	0.021	0.041
Retinal Solidity	0.048	0.021	0.064	0.043

VERTICAL CHOROIDAL REGIONS AND AGE

TABLE 4.69. Table of Vertical Choroidal Regions and Age p Values.

Table of Vertical Choroidal Regions and Age p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Choroidal RFI	0.01	0.008	0.007	0.014
TCA	<0.001	<0.001	<0.001	<0.001
LCA	<0.001	<0.001	<0.001	<0.001
SCA	0.086	0.046	0.046	0.281
CVI	0.003	0.013	0.022	0.275
SAP	0.003	0.013	0.022	0.275
LSR	0.011	0.047	0.045	0.197
Choroidal Mean	0.003	0.013	0.022	0.275
Choroidal Standard Deviation	0.009	0.034	0.045	0.208
Choroidal Skewness	0.006	0.025	0.028	0.237
Choroidal Kurtosis	0.016	0.059	0.063	0.18
Choroidal Perimeter	0.061	0.303	0.502	0.613
Choroidal Height	0.082	0.862	0.563	0.465
Choroidal Major	0.257	0.181	0.651	0.714
Choroidal Minor	<0.001	0.002	0.003	0.003
Choroidal Angle	0.561	0.484	0.556	0.547
Choroidal Integrated Density	<0.001	<0.001	<0.001	<0.001
Choroidal Raw Integrated Density	<0.001	<0.001	<0.001	<0.001
Choroidal Feret	0.632	0.81	0.859	0.9
Choroidal Minimum Feret	0.027	0.901	0.696	0.455
Choroidal Feret Angle	0.071	0.182	0.035	0.257
Choroidal Circularity	<0.001	<0.001	<0.001	<0.001
Choroidal Aspect Ratio	<0.001	0.187	0.137	0.134
Choroidal Roundness	<0.001	0.464	0.349	0.274
Choroidal Solidity	0.005	0.026	0.181	0.258

HORIZONTAL CHOROIDAL REGIONS AND AGE

TABLE 4.70. Table of Horizontal Choroidal Regions and Age p Values.

Table of Horizontal Choroidal Regions and Age p Values				
Region	Total p Value	Inner p Value	Middle p Value	Outer p Value
Choroidal RFI	0.002	0.003	0.002	0.002
TCA	0.039	0.086	0.016	0.014
LCA	0.002	0.003	0.002	0.002
SCA	0.005	0.007	0.005	0.004
CVI	0.066	0.032	0.078	0.137
SAP	0.002	0.004	0.192	0.365
LSR	0.002	0.004	0.192	0.365
Choroidal Mean	0.005	0.041	0.173	0.205
Choroidal Standard Deviation	0.002	0.004	0.192	0.365
Choroidal Skewness	0.004	0.012	0.169	0.229
Choroidal Kurtosis	0.003	0.011	0.181	0.291
Choroidal Perimeter	0.006	0.051	0.173	0.17
Choroidal Height	0.005	0.025	0.064	0.272
Choroidal Major	<0.001	0.003	0.002	0.006
Choroidal Minor	0.025	0.016	0.003	0.002
Choroidal Angle	0.004	0.002	0.006	0.018
Choroidal Integrated Density	0.95	0.952	0.95	0.909
Choroidal Raw Integrated Density	0.001	<0.001	0.01	0.007
Choroidal Feret	0.001	<0.001	0.01	0.007
Choroidal Minimum Feret	<0.001	0.071	0.029	0.008
Choroidal Feret Angle	0.002	0.002	0.004	0.021
Choroidal Circularity	0.824	0.689	0.896	0.834
Choroidal Aspect Ratio	0.003	0.003	0.001	0.001
Choroidal Roundness	0.008	0.011	0.028	0.104
Choroidal Solidity	0.008	0.004	0.006	0.02

4.4.8. CORRECTION CALCULATION RESULTS

Correction calculation results are performed because of the nature of pixel measurements. It can be basically defined as whether greater ROI is equal to the sum of the smaller ROIs of the corresponding region. Thus a parameter of correction of the whole process.

For the vertical retinal regions mean greater ROI area is $2016004.9 \pm 115693.8 \mu\text{m}^2$. For the corresponding 65 smaller ROI the area is $2016234.3 \pm 114424.1 \mu\text{m}^2$ ($100.015 \pm 0.162 \%$). For the corresponding 195 smaller ROI the area is $2010442.2 \pm 115455.4 \mu\text{m}^2$ ($99.724 \pm 0.145 \%$).

For the horizontal retinal regions mean greater ROI area is $2002003.9 \pm 112419.9 \mu\text{m}^2$. For the corresponding 65 smaller ROI the area is $2002048.5 \pm 112186.6 \mu\text{m}^2$ ($100.003 \pm 0.092 \%$). For the corresponding 195 smaller ROI the area is $1995590.2 \pm 112296.0 \mu\text{m}^2$ ($99.679 \pm 0.140 \%$).

For the vertical choroidal regions mean greater ROI area is $1799591.2 \pm 365971.8 \mu\text{m}^2$. For the corresponding 65 smaller ROI the area is $1799602.0 \pm 366241.0 \mu\text{m}^2$ ($99.998 \pm 0.102 \%$). For the corresponding 195 smaller ROI the area is $1794877.4 \pm 366377.1 \mu\text{m}^2$ ($99.723 \pm 0.166 \%$).

For the horizontal choroidal regions mean greater ROI area is $1657121.6 \pm 410068.5 \mu\text{m}^2$. For the corresponding 65 smaller ROI the area is $1657702.4 \pm 410193.5 \mu\text{m}^2$ ($100.035 \pm 0.114 \%$). For the corresponding 195 smaller ROI the area is $1653408.8 \pm 410146.2 \mu\text{m}^2$ ($99.763 \pm 0.159 \%$).

Thus combining all the values, correction of calculations is possible with a 99.679 % to 100.035 % limit which means an error nearly less than 3 in a thousand.

5. DISCUSSION

OCT is a novel technique which becomes very important in the last two decades in many research and clinical fields. Thus it is inevitable that the image processing of the output of the OCT is a new area of interest for researchers. Image processing of the healthy eyes and to analyze new indexes and parameters in healthy subjects are the main topics of this study. For clinicians, it can be difficult to interpret the results at the beginning. But these parameters should be assessed in diseased eyes in order to compare the diagnostic ability and evaluation capacity.

In this study, we used SD-OCT and EDI-OCT images in order to visualize and analyze both retinal and choroidal structures of better quality. The images were randomized not to have a systematic bias and researchers are blind for all of the measurements. All of the processes described in previous studies for the calculation of CVI value was a set point for this study (8). Although calculations were in the basis of a basic approach of image processing, it was a novelty for the ophthalmologists and ophthalmological field. Not more than 3 years past from the first CVI measurements were performed, researchers were interested in this new technique because it is reliable, fast, and in some degree, bias protected (195).

In this area, ophthalmologists were new and non-experienced. Thus computer sciences come to an aid for this problem. Specifically, image processing branch of computer sciences and biophysics is a sine qua non for CVI kind measurements and studies. This is the last but not the least finding. CVI comes with some other new parameters to that date like SAP, TCA, LCA, SCA and LSR (7, 8). These are the other parameters came with the image processing of OCT. Some other researches focused on different parts of the choroid like inferior, superior, nasal and temporal (196).

The CVI measurements which can be accepted as the initiative of the area of research, assessed in many diseases up to now and found to be useful as a diagnostic and evaluative tool.

CVI measurements were performed for many areas since it is introduced in a few years (6-8). Agrawal et al. found that CVI is a useful tool for detecting the choroidal structures and monitoring the progression of panuveitis (190). CSCR is one other disease investigated via CVI and acute CSCR was found to have higher CVI values compared to the control group which means higher vascular component (187). Thus researchers suggested CVI can be used for early diagnosis and treatment response after PDT or laser photocoagulation in CSCR patients (187). VKH is also investigated and CVI was found to be significantly reduced over time (189).

AMD patients demonstrated to have significantly reduced CVI values despite there is not such a difference in choroidal thickness measurements (188). The opposite was seen in myopic CNV patients who are treated with anti-VEGF which choroidal thickness reduced but CVI did not change significantly (197). Patients with diabetes mellitus have CVI values lower than healthy controls despite there is no difference in choroidal thickness (186). In a study which compares polypoidal choroidal vasculopathy (PCV), neovascular AMD and healthy subjects revealed that both PCV and neovascular AMD has a lower CVI than the control subjects although the subfoveal choroidal thicknesses are not significantly different (198). Similarly, Koh et al. found the decreased CVI in AMD patients despite having no difference in choroidal thickness (199). Besides the normal fellow eyes of the AMD patients showed a decrease of CVI in this study which is suggestive for an underlying change (199). Another study on AMD found that presence of pachyvessels is correlated with increased CVI (200). Ting et al. conducted a research in AMD and PCV patients treated over 12 months and found that patients with higher baseline CVI show a significant reduction, whereas average to low baseline CVI show an increase (201).

In myopia patients, subfoveal choroidal thinning is found to be associated with the decreased stromal region, not the vascular components (202). SS-OCT images were also used to measure CVI (203). CVI was found to be increased after treatment in VKH patients (203). Liu et al. investigated the VKH patients during recurrent anterior uveitis attack and revealed a decrease in CVI (204). Another SS-OCT based CVI measurement was done in diabetes mellitus patients (205). In this research, they

found that increased subfoveal choroidal thickness and decreased central retinal thickness are associated with increased CVI values which are suggested to be a key point in diabetic retinal damage even there is no sign of diabetic retinopathy (205). In another research Okamoto et al. found that intravitreal ranibizumab injection for the treatment of DME in a group that is not previously treated by panretinal photocoagulation (PRP), reduced the CVI, but this effect is not seen in previously PRP treated group (206).

Ratra et al. found that CVI could be a useful tool for disease monitoring in Stargardt's disease (207). They found a decreased CVI in the case group compared to control, despite having no difference in choroidal thickness (207). Agrawal et al. showed a significantly higher CVI and subfoveal choroidal thickness in tubercular multifocal serpiginoid choroiditis (TMSC) patients (208). In the same study, CVI was significantly reduced at 3rd month follow up (208). Patients with RP is also in the spectrum of CVI (209). Tan et al. found that a significant reduction in CVI whereas an increase in choroidal thickness (209).

Some researchers investigate CVI in surgeries (210, 211). Chen et al. investigated CVI in phacoemulsification surgery and found that CVI is increased after surgery which is suggestive for the choroidal pathologies seen after cataract surgery (210). Rizzo et al. showed that CVI decreasing after vitreoretinal surgery for ERM using SS-OCT (211).

Recently Rasheed et al. studied CSCR with CVI in two groups as laser photocoagulation and sham laser groups (212). They found no choroidal changes comparing both groups thus suggesting there is no benefit of early laser photocoagulation for CSCR (212). Ambiya et al. investigated the steroid-associated and idiopathic CSCR and found that steroid associated CSCR has a higher CVI compared to those who are idiopathic (213).

Our CVI measurements for choroidal region revealed that with centered to the fovea and a 6500 μm range of macula region of vertical scans have 69.2 ± 2.6 and horizontal scans have a slightly increased value of 70.1 ± 2.7 . These measurements were increased to 74.5 ± 4.6 and 74.8 ± 5.0 in the inner 1/3 and decreased to 66.6 ± 4.3 and 70.3 ± 4.7 for the vertical and horizontal scans respectively. This inner and outer region difference could be due to the anatomical nature of the choroid itself. Choroid has choriocapillaris and SL in the inner regions and HL and choroidoscleral junction in the outer regions (4). Choriocapillaris is mainly responsible for the nourishment of PR layer which the luminal area should be increased as we found in our study. The interesting thing is horizontal choroid is an increased CVI in the outer regions compared to those in vertical ones which suggests a nourishment need in the horizontal area. SAP measurements can be defined as the other % part of the CVI.

LSR in inner vertical choroid is found to be 3.06 ± 0.81 and in outer parts 2.05 ± 0.44 . consistent with this results, in inner horizontal choroid it is found to be 3.19 ± 1.28 and in outer parts 2.45 ± 0.59 . It can be clearly seen that inner choroid has more luminal ratio compared to the outer choroid and horizontal choroid has more luminal ratio compared to the vertical choroid.

Retinal vertical and horizontal central spot thicknesses (V 0 and H 0) are $225.6 \pm 24.1 \mu\text{m}$ and $226.8 \pm 22.1 \mu\text{m}$ which the difference is $1.2 \mu\text{m}$. Retinal vertical and horizontal central mean thicknesses (V 0 and H 0) are $223.8 \pm 23.7 \mu\text{m}$ and $225.0 \pm 22.0 \mu\text{m}$ which the difference is $1.2 \mu\text{m}$. Choroidal vertical and horizontal central spot thicknesses (V 0 and H 0) are $305.5 \pm 69.0 \mu\text{m}$ and $305.1 \pm 76.9 \mu\text{m}$ which the difference is $0.4 \mu\text{m}$. Choroidal vertical and horizontal central mean thicknesses (V 0 and H 0) are $302.6 \pm 68.7 \mu\text{m}$ and $302.1 \pm 76.6 \mu\text{m}$ which the difference is $0.5 \mu\text{m}$.

These findings reveal that the corresponding regions of vertical and horizontal scans are measured in a consistency by the RET-INAM. Only 1.2 μm difference in retinal and 0.5 μm difference in choroidal measurements were present which is sufficient to be accepted as the same spot. Mean thickness is calculated by us and it shows the mean thickness in an area of 100 μm thus giving a more area result than a spot result. We argue that area results could be more appropriate than the spot result in some condition that the retinal or choroidal structures are more shapeless as such disease conditions like CSCR and wet AMD. Thus calculations show that mean thickness results are very similar in healthy subjects for those corresponding spot results with a slight decrease. Thus it could be used for certain disease conditions to measure the real thickness of the retinal and choroidal structures.

Also, retinal mean and spot thickness measurements revealed that vertical retina is thicker in superior to inferior and horizontal retina is thicker in nasal than temporal regions.

Choroidal mean and spot thickness showed that both nasal and temporal ends of the horizontal choroid are thinner than the inferior and superior ends of the vertical choroid. Thus vertical choroid is more like an elongated parabolic shape whereas the slope of the horizontal choroid is more convex. This finding is consistent in some degree with the previous studies, but in a more detailed way which the sample size in our study is 65 instead of 11 (214).

RFI is a fill index that we defined for this study and it can be seen the major RFI changes in the retina are found in the paracentral regions where the slope is greater than anywhere. Inner, middle and outer regions follow the same trace with a minor difference. Thus any disease or effect that changes the normal slope of the retina can be demonstrated and quantified with this index. RFI in choroid was also calculated and a noisier graph appeared. Although inner and outer values are lower generally compared to other parts which are a natural consequence of the shape. Vertical total RFI is found to be 0.674 ± 0.090 and horizontal total RFI is found to be 0.643 ± 0.085 .

the difference is probably caused by the more convex shape of the horizontal choroid compared to the vertical one.

TRA, DRA and LRA graphs are very similar to the thickness graph. Although in the inner central region there is an increased area for DRA and in the middle central region there is an increased area for LRA. This is probably because of the anatomical merging and disappearing of some layers at the center of the fovea. The reflection of this disappearing results in mentioned graphical changes. Same can be applied to the results of DAP and LAP. In the DLR graph, a paracentral region of middle values was found to be prominent compared to other regions.

Retinal mean values of the middle regions of both vertical and horizontal scans are found to be prominently decreased compared to other parts. Vertical and horizontal inner and outer values are found to be 144.5 ± 4.0 , 147.1 ± 7.8 , 124.8 ± 11.9 , 133.6 ± 11.5 PV whereas outer values are 84.8 ± 10.2 and 82.0 ± 9.3 PV. Retinal standard deviation follows the same trace as the retinal mean. Choroidal mean has a noisier pattern. Inner values are slightly decreased compared to other regions, like a choroidal standard deviation. Skewness and kurtosis have the similar graphs with the mean and standard deviation graphs.

Retinal and choroidal aspect ratio perimeter, height and feret graphs are similar to those corresponding thickness graphs with differences in the y-axis values. In the retinal angle and feret angle graphs, there can be seen a characteristic “s” shaped curvature in the center of inner regions due to the change of axis of slope in this area.

Retinal circularity is seeming to be increased in the central and peripheral regions where the slope is found to be increased. This graph is very similar to the retinal roundness graph. Retinal solidity is decreased in the inner retinal regions where the convex area is maximum and the outcome value is minimum. Middle and outer solidity values for vertical and horizontal scans are 0.7051 ± 0.0623 , 0.6958 ± 0.614 , 0.7623 ± 0.0973 , 0.7560 ± 0.0951 whereas in the inner parts solidity are 0.5889 ± 0.0463 and 0.5861 ± 0.0450 .

Choroidal circularity and roundness are found to be increased towards the peripheral ends of the vertical and horizontal scans, despite choroidal aspect ratio decreased. Choroidal solidity is found to be decreased at the outer parts opposite to the finding in the retina, because the convex area in choroid is in the outer part.

RCTR and CRTR values are calculated for this study in vertical and horizontal parts. sRCTR and mRCTR results basically show how much retina is nourished for a one-unit thickness of choroid. Our finding showed that RCTR is prominently increased, over 2.0, at the nasal part which means at the nasal part choroid nourish double of its thickness. Similarly, sCRTR and mCRTR show how much choroid is present for the one-unit thickness of the retina. CRTR values are found to be nearly half percent of those in nasal part.

To date, according to our literature researches, no such an image processing study was performed for the retinal area in SD-OCT and EDI-OCT images. Besides parameters that we investigated such as perimeter, height, major, minor, angle, integrated density, raw integrated density, feret, minimum feret, feret angle, circularity, aspect ratio, roundness, solidity, TRA, DRA, LRA, DAP, LAP, and DLR are novel for both retinal and choroidal structures. Parameters such as RIF, sRCTR, mRCTR, sCRTR, mCRTR are calculated for this study. These parameters are a candidate for becoming and diagnostic evaluative tool for ophthalmological pathologies that can be easily accessed via OCT examinations.

Besides one of the other novelties of this study is the sampling rate. We sample the 65 smaller ROIs with a 100 μm interval. Furthermore, divide it into inner, middle and outer regions which makes it 195 even smaller ROIs. This is the sampling rate of nearly above the calculation limit of a human being. With nearly more than 30 parameters for both retinal and choroidal structures, above 3,000,000 single measurements was obtained and analyzed in this study. With the help of this sampling rate, any bias caused by the aliasing factor diminished and intended to be eliminated. Thus it is possible for us to get the more realistic graphs of retinal and choroidal structures for all of the parameters without any significant information loss.

To achieve the burden of this highly complicated study, we write our own code for Fiji/ImageJ and called it RET-INAM. RET-INAM is a semi-automated program which does all the measurements studied on its own, only by giving it the selected ROI drawings. Thus it is possible for us to quantify the data more accurately and more bias protected with all the measurements were performed in a standardized pathway of the algorithm.

One other advantage of RET-INAM is, it is a time-saving process. Even researchers were able to perform the complicated processes of measuring of all 65 and 195 smaller ROIs for more than 30 parameters, it would be days and days to perform such a time-consuming task. RET-INAM is a computer-based algorithm and with the power of the computer, it takes seconds to calculate such complicated measurements. Thus it is a time-saving way and makes it possible for researchers to conduct more sophisticated studies in image processing of OCT.

Correction calculations revealed that RET-INAM ROI measurements for smaller ROIs, thus the power of determining the exact ROI is reliable. We have calculated that it is possible to determine the 65 smaller ROI for the retinal structure with 100.003 ± 0.162 to 100.015 ± 0.162 % certainty. It is possible to determine the 195 smaller ROI for the retinal structure with 99.679 ± 0.140 to 99.724 ± 0.145 % certainty. It is possible to determine the 65 smaller ROI for the choroidal structure with 99.998 ± 0.102 to 100.035 ± 0.114 % certainty. It is possible to determine the 195 smaller ROI for the choroidal structure with 99.723 ± 0.166 to 99.763 ± 0.159 % certainty. By summarizing these findings, the program can be said to determine the smaller ROIs in a range of 99.679 % to 100.035 % certainty which is sufficient enough for our purposes.

We performed our study with OCT in the field of ophthalmology. But OCT has a broad spectrum of use such as cardiology, gastroenterology, dermatology, oncology, dentistry, gynecology, urology and ear nose and throat diseases (68, 69, 76, 83, 95-98, 100, 102). Because of that reason we do not see our study to be limited for only

ophthalmology. Our study can be a demonstrative study for those who seek to find new parameters and semi-automated methods in their area of research with OCT. OCT has nearly the same output on its basis, thus it is possible to modify the image processing methods from one field to another. Ophthalmology is the leading OCT field from its beginning because of the optical nature of eyeball itself, but other fields can obtain the image processing methodology used in ophthalmology as well.

The major strength aspects of this study are the novel calculations and parameters that are not measured before for retinal and choroidal structures; the novel tool of RET-INAM program for semi-automated calculations; the vertical and horizontal measurements were compared together; the increased sampling rate which is in every 100 μm ; and the correction calculations.

The major limitations of this study are the retrospective nature of the study; not every OCT scans performed in the same date and time; it is mainly focused on healthy subjects; not diseased subjects are included.

Future directions after this study should be the quest for coding the fully-automated version of the program which defines the intended ROI itself with an acceptable border. The new parameters and calculations which index healthy and diseased subjects could be investigated better. The normality limits for healthy eyes and border for diseased eyes for every parameter could be assessed. Not only the macular region but also other structures such as optic disk, peripheral retina and vessels could be included for further research. And finally, the methodology can be applied to recently introduced OCT modalities such as SS-OCT and OCT-A.

We performed the healthy subjects image processing in this study. In a total, we manage to map the digital version of retinal and choroidal structures in nearly 30 different ways. Human retinal and choroidal structures remain its secrecy even with our power tools and modalities such as OCT. OCT is only a tool that gives us the image. The one who must data mine it and interpret the results are researchers. Thus researchers have big duties to take this methodology further away. Alongside the previous methods with ours, should be performed for different diseases of ophthalmology and even for different field of clinics such as gastroenterology, dermatology, cardiology, and oncology.



6. CONCLUSION

OCT is an emerging new technique equal to the optical biopsy in the last two decades. It is the first use area was ophthalmology. In the last two decades more and more novel techniques added to the original one in order to improve the image quality. SD-OCT is one of the latest introduced technique which allows clinicians to visualize retinal and choroidal structures better. In the last 3 years, CVI measurements become available for research. With this new area of research image processing became a more important factor for OCT scans. By improving the original methodology nearly 30 parameters were investigated in this study. Vertical and horizontal scans, retinal and choroidal structures were analyzed in a total for all of the parameters. Calculations like RFI, RCTR, CRTR were performed for this study. In order to overcome the burden of such data and to find a timesaving way, we introduce a new program that we called RET-INAM. It is a semi-automated program that calculates all of the parameters for a given ROI just in seconds with an acceptable repeatability reproducibility range. Emerging new techniques allow researchers to find better analysis methods and allow clinicians to find better diagnostic and evaluative tools.

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8. APPENDIX

APPENDIX-1: SUPPLEMENT

TABLE S.1. Table of Vertical Retinal RFI of Healthy Cases.

Table of Vertical Retinal RFI of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
I 3200	0.980±0.014	0.950±0.031	1.000±0.000	0.986±0.023
I 3100	0.976±0.015	0.952±0.031	1.000±0.000	0.984±0.020
I 3000	0.977±0.014	0.955±0.029	1.000±0.000	0.986±0.017
I 2900	0.976±0.013	0.958±0.028	1.000±0.000	0.984±0.018
I 2800	0.978±0.012	0.959±0.029	1.000±0.000	0.983±0.019
I 2700	0.979±0.011	0.959±0.029	1.000±0.000	0.982±0.020
I 2600	0.980±0.010	0.961±0.027	1.000±0.000	0.986±0.017
I 2500	0.980±0.010	0.958±0.029	1.000±0.000	0.985±0.018
I 2400	0.980±0.010	0.958±0.031	1.000±0.000	0.987±0.015
I 2300	0.980±0.011	0.955±0.030	1.000±0.000	0.987±0.018
I 2200	0.980±0.010	0.953±0.030	1.000±0.000	0.988±0.015
I 2100	0.980±0.010	0.947±0.029	1.000±0.000	0.992±0.012
I 2000	0.979±0.010	0.948±0.026	1.000±0.000	0.991±0.015
I 1900	0.979±0.009	0.952±0.023	1.000±0.000	0.994±0.011
I 1800	0.980±0.008	0.950±0.023	1.000±0.000	0.990±0.014
I 1700	0.979±0.008	0.953±0.022	1.000±0.000	0.991±0.014
I 1600	0.981±0.008	0.956±0.022	1.000±0.000	0.992±0.013
I 1500	0.982±0.009	0.962±0.022	1.000±0.000	0.994±0.011
I 1400	0.985±0.008	0.968±0.021	1.000±0.000	0.993±0.013
I 1300	0.987±0.008	0.969±0.020	1.000±0.000	0.995±0.009
I 1200	0.987±0.008	0.962±0.020	1.000±0.000	0.995±0.011
I 1100	0.985±0.007	0.951±0.021	1.000±0.000	0.995±0.010
I 1000	0.981±0.008	0.941±0.019	1.000±0.000	0.994±0.010
I 900	0.978±0.008	0.928±0.021	1.000±0.000	0.996±0.009
I 800	0.974±0.008	0.914±0.022	1.000±0.000	0.996±0.011
I 700	0.970±0.008	0.896±0.027	1.000±0.000	0.996±0.009
I 600	0.964±0.009	0.881±0.030	1.000±0.000	0.996±0.008
I 500	0.959±0.010	0.858±0.032	1.000±0.000	0.996±0.010
I 400	0.951±0.010	0.848±0.035	1.000±0.000	0.997±0.009

Table of Vertical Retinal RFI of Healthy Cases

I 300	0.948±0.012	0.868±0.036	1.000±0.000	0.997±0.010
I 200	0.954±0.012	0.915±0.045	1.000±0.000	0.997±0.009
I 100	0.969±0.016	0.971±0.028	1.000±0.000	0.996±0.012
V 0	0.988±0.011	0.923±0.041	1.000±0.000	0.996±0.011
S 100	0.973±0.015	0.923±0.041	1.000±0.000	0.997±0.011
S 200	0.948±0.015	0.851±0.044	1.000±0.000	0.996±0.012
S 300	0.942±0.013	0.832±0.041	1.000±0.000	0.997±0.010
S 400	0.944±0.012	0.837±0.038	1.000±0.000	0.997±0.008
S 500	0.952±0.013	0.859±0.039	1.000±0.000	0.998±0.006
S 600	0.961±0.010	0.888±0.030	1.000±0.000	0.996±0.009
S 700	0.967±0.008	0.907±0.025	1.000±0.000	0.997±0.008
S 800	0.974±0.007	0.926±0.022	1.000±0.000	0.997±0.007
S 900	0.978±0.007	0.938±0.019	1.000±0.001	0.997±0.007
S 1000	0.983±0.007	0.952±0.020	1.000±0.000	0.997±0.007
S 1100	0.987±0.007	0.964±0.022	1.000±0.000	0.998±0.006
S 1200	0.988±0.007	0.969±0.020	1.000±0.000	0.997±0.006
S 1300	0.988±0.007	0.969±0.020	1.000±0.000	0.997±0.008
S 1400	0.986±0.008	0.964±0.021	1.000±0.000	0.996±0.008
S 1500	0.984±0.006	0.959±0.018	1.000±0.003	0.996±0.008
S 1600	0.984±0.006	0.958±0.017	1.000±0.000	0.996±0.008
S 1700	0.983±0.006	0.957±0.017	1.000±0.000	0.995±0.009
S 1800	0.983±0.007	0.956±0.019	1.000±0.002	0.993±0.010
S 1900	0.983±0.007	0.958±0.022	1.000±0.000	0.993±0.011
S 2000	0.983±0.008	0.959±0.022	1.000±0.003	0.995±0.010
S 2100	0.983±0.009	0.958±0.024	1.000±0.000	0.993±0.010
S 2200	0.983±0.009	0.961±0.025	1.000±0.000	0.994±0.011
S 2300	0.983±0.009	0.961±0.026	1.000±0.000	0.992±0.012
S 2400	0.984±0.009	0.964±0.025	1.000±0.000	0.990±0.013
S 2500	0.983±0.010	0.963±0.027	1.000±0.000	0.991±0.013
S 2600	0.983±0.010	0.963±0.025	1.000±0.000	0.991±0.013
S 2700	0.982±0.010	0.963±0.026	1.000±0.000	0.989±0.014
S 2800	0.982±0.011	0.960±0.028	1.000±0.000	0.990±0.014
S 2900	0.982±0.011	0.962±0.026	1.000±0.000	0.988±0.014
S 3000	0.981±0.011	0.961±0.029	1.000±0.000	0.989±0.015
S 3100	0.980±0.010	0.959±0.026	1.000±0.000	0.986±0.016
S 3200	0.984±0.011	0.968±0.025	1.000±0.000	0.988±0.016

TABLE S.2. Table of Horizontal Retinal RFI of Healthy Cases.

Table of Horizontal Retinal RFI of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	0.987±0.010	0.962±0.027	1.000±0.000	0.996±0.009
N 3100	0.984±0.011	0.956±0.027	1.000±0.000	0.994±0.011
N 3000	0.981±0.012	0.961±0.026	1.000±0.000	0.992±0.013
N 2900	0.983±0.011	0.961±0.026	1.000±0.000	0.992±0.013
N 2800	0.982±0.011	0.957±0.025	1.000±0.000	0.990±0.015
N 2700	0.981±0.010	0.958±0.023	1.000±0.000	0.989±0.014
N 2600	0.982±0.009	0.958±0.024	1.000±0.000	0.993±0.012
N 2500	0.982±0.009	0.957±0.024	1.000±0.000	0.992±0.012
N 2400	0.982±0.008	0.956±0.019	1.000±0.000	0.993±0.011
N 2300	0.981±0.008	0.958±0.022	1.000±0.000	0.991±0.012
N 2200	0.983±0.007	0.959±0.022	1.000±0.000	0.994±0.010
N 2100	0.983±0.008	0.961±0.021	1.000±0.000	0.993±0.011
N 2000	0.984±0.008	0.959±0.021	1.000±0.000	0.994±0.009
N 1900	0.983±0.008	0.964±0.019	1.000±0.000	0.993±0.012
N 1800	0.985±0.007	0.965±0.020	1.000±0.000	0.995±0.011
N 1700	0.985±0.007	0.964±0.021	1.000±0.000	0.994±0.010
N 1600	0.985±0.008	0.966±0.021	1.000±0.000	0.993±0.010
N 1500	0.985±0.007	0.962±0.021	1.000±0.000	0.995±0.009
N 1400	0.985±0.008	0.958±0.018	1.000±0.000	0.993±0.011
N 1300	0.984±0.006	0.952±0.017	1.000±0.000	0.996±0.008
N 1200	0.982±0.007	0.945±0.017	1.000±0.000	0.996±0.008
N 1100	0.980±0.006	0.937±0.018	1.000±0.000	0.996±0.009
N 1000	0.977±0.007	0.929±0.019	1.000±0.000	0.996±0.009
N 900	0.974±0.007	0.919±0.020	1.000±0.000	0.996±0.010
N 800	0.972±0.007	0.909±0.024	1.000±0.000	0.997±0.008
N 700	0.968±0.008	0.892±0.028	1.000±0.000	0.997±0.008
N 600	0.963±0.010	0.877±0.029	1.000±0.000	0.998±0.008
N 500	0.958±0.010	0.858±0.034	1.000±0.000	0.997±0.009
N 400	0.951±0.012	0.858±0.041	1.000±0.000	0.997±0.009
N 300	0.951±0.014	0.874±0.050	1.000±0.000	0.996±0.010
N 200	0.957±0.017	0.924±0.046	1.000±0.000	0.998±0.009
N 100	0.974±0.015	0.972±0.027	1.000±0.000	0.999±0.006
H 0	0.989±0.010	0.933±0.044	1.000±0.000	0.997±0.010
T 100	0.976±0.015	0.933±0.044	1.000±0.000	0.997±0.011
T 200	0.962±0.018	0.887±0.054	1.000±0.000	0.998±0.007

Table of Horizontal Retinal RFI of Healthy Cases

T 300	0.950±0.014	0.853±0.039	1.000±0.000	0.998±0.008
T 400	0.952±0.012	0.858±0.037	1.000±0.000	0.998±0.008
T 500	0.958±0.012	0.876±0.032	1.000±0.000	0.999±0.006
T 600	0.965±0.009	0.898±0.027	1.000±0.000	0.999±0.005
T 700	0.970±0.008	0.915±0.022	1.000±0.000	0.998±0.007
T 800	0.973±0.007	0.925±0.020	1.000±0.000	0.996±0.008
T 900	0.977±0.007	0.936±0.019	1.000±0.000	0.996±0.009
T 1000	0.980±0.007	0.946±0.018	1.000±0.000	0.996±0.008
T 1100	0.982±0.008	0.954±0.021	1.000±0.000	0.995±0.010
T 1200	0.985±0.009	0.964±0.021	1.000±0.000	0.995±0.010
T 1300	0.987±0.007	0.969±0.018	1.000±0.000	0.994±0.010
T 1400	0.986±0.007	0.969±0.019	1.000±0.000	0.993±0.011
T 1500	0.986±0.009	0.967±0.021	1.000±0.000	0.993±0.011
T 1600	0.984±0.008	0.963±0.020	1.000±0.000	0.992±0.011
T 1700	0.981±0.007	0.955±0.019	1.000±0.000	0.992±0.012
T 1800	0.981±0.007	0.957±0.019	1.000±0.000	0.991±0.012
T 1900	0.982±0.008	0.957±0.021	1.000±0.000	0.992±0.013
T 2000	0.980±0.008	0.954±0.021	1.000±0.000	0.990±0.015
T 2100	0.981±0.007	0.958±0.021	1.000±0.000	0.990±0.014
T 2200	0.980±0.008	0.956±0.024	1.000±0.000	0.990±0.015
T 2300	0.981±0.010	0.958±0.028	1.000±0.000	0.989±0.014
T 2400	0.981±0.010	0.957±0.026	1.000±0.000	0.990±0.014
T 2500	0.981±0.009	0.958±0.024	1.000±0.000	0.991±0.014
T 2600	0.979±0.010	0.954±0.024	1.000±0.000	0.986±0.017
T 2700	0.979±0.010	0.954±0.024	1.000±0.000	0.987±0.017
T 2800	0.979±0.011	0.954±0.028	1.000±0.000	0.987±0.017
T 2900	0.978±0.011	0.954±0.028	1.000±0.000	0.985±0.018
T 3000	0.979±0.012	0.953±0.029	1.000±0.000	0.988±0.016
T 3100	0.979±0.013	0.953±0.031	1.000±0.000	0.985±0.017
T 3200	0.982±0.013	0.962±0.031	1.000±0.000	0.987±0.018

TABLE S.3. Table of Vertical TRA of Healthy Cases.

Table of Vertical TRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	27056.9 $\pm$ 1931.6	8838.7 $\pm$ 674.2	9223.5 $\pm$ 727.8	8955.9 $\pm$ 718.5
I 3100	27229.4 $\pm$ 1888.7	8816.2 $\pm$ 668.0	9298.0 $\pm$ 707.9	9053.9 $\pm$ 689.1
I 3000	27441.7 $\pm$ 1905.7	8903.9 $\pm$ 672.0	9372.5 $\pm$ 723.5	9107.8 $\pm$ 696.0
I 2900	27644.1 $\pm$ 1960.2	9009.8 $\pm$ 712.7	9454.9 $\pm$ 741.3	9156.4 $\pm$ 668.3
I 2800	27959.3 $\pm$ 1984.1	9140.2 $\pm$ 700.5	9560.8 $\pm$ 726.3	9218.6 $\pm$ 688.7
I 2700	28295.6 $\pm$ 1980.7	9245.6 $\pm$ 672.3	9654.9 $\pm$ 722.0	9321.6 $\pm$ 681.2
I 2600	28681.9 $\pm$ 2033.7	9366.7 $\pm$ 690.0	9780.4 $\pm$ 726.4	9475.0 $\pm$ 704.0
I 2500	29114.2 $\pm$ 2061.1	9515.2 $\pm$ 681.1	9913.7 $\pm$ 707.4	9622.1 $\pm$ 726.0
I 2400	29555.4 $\pm$ 2057.0	9615.2 $\pm$ 710.5	10051.0 $\pm$ 749.2	9828.9 $\pm$ 747.3
I 2300	30082.8 $\pm$ 2015.1	9799.5 $\pm$ 671.7	10239.2 $\pm$ 709.2	9970.1 $\pm$ 790.8
I 2200	30593.6 $\pm$ 2086.3	9950.5 $\pm$ 704.4	10431.4 $\pm$ 754.0	10165.2 $\pm$ 777.9
I 2100	31127.9 $\pm$ 2141.4	10072.1 $\pm$ 719.0	10568.6 $\pm$ 738.1	10394.1 $\pm$ 772.8
I 2000	31709.8 $\pm$ 2136.1	10243.1 $\pm$ 708.4	10815.7 $\pm$ 718.5	10551.5 $\pm$ 729.5
I 1900	32367.6 $\pm$ 2145.6	10403.9 $\pm$ 720.5	10976.5 $\pm$ 725.7	10849.5 $\pm$ 726.7
I 1800	32990.7 $\pm$ 2130.3	10697.5 $\pm$ 717.1	11227.5 $\pm$ 730.3	10957.8 $\pm$ 722.9
I 1700	33583.3 $\pm$ 2151.9	10852.9 $\pm$ 703.5	11415.7 $\pm$ 707.0	11196.1 $\pm$ 740.1
I 1600	34217.2 $\pm$ 2150.4	11088.2 $\pm$ 734.0	11619.6 $\pm$ 713.1	11402.0 $\pm$ 744.1
I 1500	34769.6 $\pm$ 2133.8	11287.3 $\pm$ 761.3	11772.5 $\pm$ 709.4	11576.0 $\pm$ 705.1
I 1400	35261.8 $\pm$ 2060.5	11488.2 $\pm$ 727.7	11905.9 $\pm$ 710.6	11712.3 $\pm$ 680.2
I 1300	35602.5 $\pm$ 2008.1	11633.3 $\pm$ 693.8	11992.2 $\pm$ 655.2	11855.4 $\pm$ 683.2
I 1200	35743.1 $\pm$ 1962.4	11689.7 $\pm$ 664.6	12043.1 $\pm$ 645.9	11873.0 $\pm$ 679.4
I 1100	35682.4 $\pm$ 1945.7	11615.7 $\pm$ 662.3	12082.4 $\pm$ 665.8	11867.6 $\pm$ 673.7
I 1000	35365.7 $\pm$ 1987.9	11430.4 $\pm$ 720.3	12023.5 $\pm$ 678.6	11808.3 $\pm$ 651.6
I 900	34824.5 $\pm$ 2035.6	11169.1 $\pm$ 739.2	11862.7 $\pm$ 678.9	11676.5 $\pm$ 697.6
I 800	33986.8 $\pm$ 2136.6	10804.4 $\pm$ 796.7	11635.3 $\pm$ 707.4	11449.5 $\pm$ 681.6
I 700	32868.6 $\pm$ 2282.8	10323.0 $\pm$ 840.3	11286.3 $\pm$ 746.9	11144.1 $\pm$ 752.4
I 600	31449.0 $\pm$ 2465.3	9761.8 $\pm$ 915.1	10878.4 $\pm$ 807.0	10698.5 $\pm$ 799.7
I 500	29730.4 $\pm$ 2669.4	9126.0 $\pm$ 1004.3	10341.2 $\pm$ 877.2	10146.6 $\pm$ 865.9
I 400	27697.5 $\pm$ 2825.5	8337.7 $\pm$ 1017.7	9702.0 $\pm$ 956.7	9552.5 $\pm$ 980.0
I 300	25512.7 $\pm$ 2830.9	7616.7 $\pm$ 990.1	8980.4 $\pm$ 1014.8	8819.1 $\pm$ 1013.0
I 200	23651.0 $\pm$ 2702.7	7190.2 $\pm$ 899.7	8298.0 $\pm$ 990.4	8108.3 $\pm$ 997.3
I 100	22528.9 $\pm$ 2508.0	7092.2 $\pm$ 810.1	7780.4 $\pm$ 961.7	7613.2 $\pm$ 1007.1
V 0	22379.4 $\pm$ 2365.2	7329.9 $\pm$ 777.6	7572.5 $\pm$ 894.8	7434.8 $\pm$ 981.7
S 100	22546.6 $\pm$ 2416.9	7127.0 $\pm$ 726.1	7752.9 $\pm$ 942.4	7595.1 $\pm$ 1001.3
S 200	23484.8 $\pm$ 2720.8	7029.9 $\pm$ 864.3	8270.6 $\pm$ 989.4	8099.5 $\pm$ 1068.2

Table of Vertical TRA of Healthy Cases (μm^2)

S 300	25300.5±2928.4	7471.1±1131.4	8937.3±977.1	8807.4±1050.8
S 400	27493.1±2860.6	8157.8±1078.1	9705.9±925.0	9557.4±958.5
S 500	29673.0±2689.8	8932.4±1059.6	10364.7±842.1	10254.4±878.3
S 600	31599.5±2479.4	9753.9±968.2	10945.1±784.5	10763.7±806.5
S 700	33111.3±2256.3	10349.0±853.9	11380.4±698.4	11251.0±736.0
S 800	34281.4±2100.6	10863.2±798.4	11705.9±676.7	11572.1±696.4
S 900	35122.1±1987.5	11222.5±694.6	11939.7±658.0	11807.4±688.1
S 1000	35707.8±1931.7	11518.1±685.1	12082.4±632.3	11969.1±633.1
S 1100	36031.9±1861.8	11736.3±671.0	12164.7±605.4	12019.1±628.5
S 1200	36095.1±1844.9	11808.8±647.5	12180.4±610.1	12009.3±642.1
S 1300	35954.4±1877.0	11752.9±645.8	12129.4±626.3	11954.4±654.4
S 1400	35651.0±1935.3	11598.5±668.0	12035.3±639.6	11902.5±670.2
S 1500	35260.3±1966.9	11434.8±651.0	11926.0±638.4	11778.4±671.2
S 1600	34793.1±1999.7	11268.6±661.0	11772.5±666.5	11601.0±688.4
S 1700	34313.2±1988.5	11098.0±609.9	11607.8±647.6	11471.1±717.1
S 1800	33835.8±1999.1	10986.3±671.6	11496.1±666.9	11261.3±698.3
S 1900	33396.1±1990.5	10844.6±644.7	11337.3±659.7	11100.0±714.2
S 2000	32941.2±1999.0	10701.5±660.5	11176.5±665.4	10965.2±706.0
S 2100	32446.1±2029.2	10523.5±658.9	11007.8±699.0	10807.8±700.6
S 2200	31962.3±2063.6	10394.1±676.2	10843.1±754.8	10619.6±695.4
S 2300	31485.8±1985.5	10230.4±616.1	10666.7±713.8	10481.9±710.5
S 2400	31064.2±1944.0	10153.9±642.7	10549.0±683.8	10292.2±678.8
S 2500	30664.2±1927.2	10004.9±677.1	10403.9±665.3	10156.9±668.8
S 2600	30299.0±1935.9	9882.4±677.7	10274.5±680.4	10057.4±657.7
S 2700	29930.4±1944.7	9771.6±731.3	10156.9±699.5	9905.4±660.4
S 2800	29624.5±1941.9	9659.8±740.4	10066.7±694.1	9832.8±652.1
S 2900	29377.9±1918.1	9616.2±707.2	10000.0±714.9	9730.4±658.8
S 3000	29075.0±1867.0	9502.0±719.3	9886.3±685.6	9633.8±637.3
S 3100	28802.9±1887.2	9412.7±739.6	9807.8±681.5	9531.9±641.6
S 3200	28533.8±1892.4	9383.3±717.5	9686.3±651.2	9425.0±672.2

TABLE S.4. Table of Horizontal TRA of Healthy Cases.

Table of Horizontal TRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	30619.1 $\pm$ 2369.9	10006.4 $\pm$ 803.1	10333.3 $\pm$ 798.8	10172.5 $\pm$ 801.7
N 3100	30703.9 $\pm$ 2313.2	10004.4 $\pm$ 794.1	10403.9 $\pm$ 781.2	10201.0 $\pm$ 791.3
N 3000	30802.5 $\pm$ 2273.1	10089.2 $\pm$ 781.7	10462.7 $\pm$ 772.1	10242.6 $\pm$ 763.9
N 2900	30962.3 $\pm$ 2275.8	10179.4 $\pm$ 779.8	10498.0 $\pm$ 766.0	10288.2 $\pm$ 805.0
N 2800	31182.4 $\pm$ 2310.7	10227.0 $\pm$ 814.1	10592.2 $\pm$ 759.1	10335.8 $\pm$ 812.1
N 2700	31442.2 $\pm$ 2315.6	10310.3 $\pm$ 809.0	10682.4 $\pm$ 794.4	10451.5 $\pm$ 760.4
N 2600	31782.4 $\pm$ 2327.1	10427.5 $\pm$ 817.6	10764.7 $\pm$ 773.1	10601.5 $\pm$ 783.7
N 2500	32127.9 $\pm$ 2309.9	10568.1 $\pm$ 807.5	10878.4 $\pm$ 797.3	10678.9 $\pm$ 773.1
N 2400	32544.1 $\pm$ 2307.4	10736.8 $\pm$ 816.9	11043.1 $\pm$ 771.8	10842.2 $\pm$ 789.8
N 2300	32969.6 $\pm$ 2280.4	10849.5 $\pm$ 798.5	11223.5 $\pm$ 789.8	10945.6 $\pm$ 743.5
N 2200	33421.1 $\pm$ 2244.5	11026.5 $\pm$ 781.5	11325.5 $\pm$ 768.9	11153.9 $\pm$ 761.3
N 2100	33868.1 $\pm$ 2189.5	11168.1 $\pm$ 753.1	11498.0 $\pm$ 747.6	11260.8 $\pm$ 755.0
N 2000	34283.3 $\pm$ 2145.2	11272.5 $\pm$ 763.7	11619.6 $\pm$ 690.9	11424.0 $\pm$ 737.7
N 1900	34696.1 $\pm$ 2093.7	11438.2 $\pm$ 692.7	11752.9 $\pm$ 710.4	11565.7 $\pm$ 689.8
N 1800	35099.5 $\pm$ 2017.7	11569.6 $\pm$ 707.6	11862.7 $\pm$ 655.7	11676.0 $\pm$ 697.9
N 1700	35436.8 $\pm$ 1920.6	11669.6 $\pm$ 660.9	11992.2 $\pm$ 655.2	11767.2 $\pm$ 635.0
N 1600	35737.7 $\pm$ 1871.3	11741.2 $\pm$ 650.6	12102.0 $\pm$ 615.7	11875.5 $\pm$ 641.9
N 1500	35947.1 $\pm$ 1776.3	11718.1 $\pm$ 648.7	12156.9 $\pm$ 620.7	11945.1 $\pm$ 582.5
N 1400	35958.8 $\pm$ 1777.7	11623.5 $\pm$ 644.0	12176.5 $\pm$ 593.5	11970.1 $\pm$ 606.0
N 1300	35824.0 $\pm$ 1788.6	11499.5 $\pm$ 676.2	12129.4 $\pm$ 590.6	11952.9 $\pm$ 603.8
N 1200	35545.6 $\pm$ 1830.1	11308.8 $\pm$ 688.8	12070.6 $\pm$ 627.1	11877.5 $\pm$ 604.2
N 1100	35129.9 $\pm$ 1903.3	11044.6 $\pm$ 743.1	11960.8 $\pm$ 644.0	11756.4 $\pm$ 637.1
N 1000	34557.4 $\pm$ 2003.9	10744.6 $\pm$ 785.9	11776.5 $\pm$ 667.6	11611.8 $\pm$ 647.4
N 900	33774.5 $\pm$ 2124.3	10377.0 $\pm$ 816.6	11556.9 $\pm$ 706.0	11374.5 $\pm$ 702.3
N 800	32841.7 $\pm$ 2275.2	9939.2 $\pm$ 930.0	11286.3 $\pm$ 755.2	11084.8 $\pm$ 750.7
N 700	31725.5 $\pm$ 2459.6	9387.7 $\pm$ 1001.2	10925.5 $\pm$ 823.0	10763.7 $\pm$ 779.8
N 600	30362.7 $\pm$ 2699.4	8792.2 $\pm$ 1064.5	10505.9 $\pm$ 883.6	10342.6 $\pm$ 856.6
N 500	28743.6 $\pm$ 2915.7	8106.4 $\pm$ 1066.2	10003.9 $\pm$ 961.4	9833.3 $\pm$ 952.6
N 400	26959.8 $\pm$ 3028.0	7538.2 $\pm$ 892.8	9431.4 $\pm$ 1016.2	9293.1 $\pm$ 1001.9
N 300	25124.5 $\pm$ 2867.0	7142.6 $\pm$ 789.4	8796.1 $\pm$ 988.1	8652.9 $\pm$ 1040.1
N 200	23555.9 $\pm$ 2573.5	7129.4 $\pm$ 757.2	8192.2 $\pm$ 935.8	8074.5 $\pm$ 930.3
N 100	22610.8 $\pm$ 2320.6	7367.6 $\pm$ 755.0	7729.4 $\pm$ 836.6	7600.5 $\pm$ 807.8
H 0	22501.5 $\pm$ 2198.2	7191.2 $\pm$ 733.8	7580.4 $\pm$ 772.4	7435.8 $\pm$ 744.4
T 100	22593.1 $\pm$ 2243.6	7191.2 $\pm$ 733.8	7717.6 $\pm$ 786.1	7568.1 $\pm$ 814.3
T 200	23308.3 $\pm$ 2436.9	7169.1 $\pm$ 814.1	8090.2 $\pm$ 855.6	7939.7 $\pm$ 871.8

Table of Horizontal TRA of Healthy Cases (μm^2)

T 300	24752.9±2603.8	7413.2±878.0	8690.2±880.8	8539.7±910.7
T 400	26601.0±2589.8	8010.3±970.5	9317.6±861.9	9158.3±823.4
T 500	28383.3±2412.2	8664.2±879.8	9878.4±781.7	9723.0±799.1
T 600	29910.8±2224.9	9284.8±849.4	10325.5±745.8	10178.4±700.7
T 700	31111.3±2013.3	9801.5±741.5	10705.9±663.0	10527.0±659.2
T 800	32071.1±1885.5	10163.2±693.8	10976.5±604.2	10811.8±611.1
T 900	32798.0±1820.4	10481.4±650.3	11196.1±601.3	10999.0±644.5
T 1000	33317.2±1790.1	10728.4±634.0	11337.3±600.6	11155.9±602.4
T 1100	33686.8±1751.7	10904.9±643.9	11431.4±585.6	11244.6±600.4
T 1200	33894.1±1733.7	11037.3±619.1	11451.0±602.9	11290.7±583.9
T 1300	33920.1±1742.4	11105.4±615.1	11454.9±577.4	11257.8±601.0
T 1400	33750.0±1778.1	11072.5±627.3	11427.5±592.6	11175.5±626.3
T 1500	33472.1±1828.4	10957.8±659.5	11325.5±613.8	11102.5±642.3
T 1600	33089.7±1854.9	10786.8±671.8	11203.9±641.0	11011.3±611.0
T 1700	32601.5±1881.7	10586.8±666.7	11082.4±656.3	10842.2±634.8
T 1800	32124.5±1870.6	10437.3±636.3	10902.0±613.1	10684.3±659.5
T 1900	31666.7±1884.5	10290.7±635.5	10749.0±643.0	10526.5±656.2
T 2000	31150.5±1915.6	10103.4±617.7	10588.2±642.8	10369.6±681.5
T 2100	30643.6±1929.8	9966.2±612.1	10411.8±658.0	10184.3±704.1
T 2200	30160.3±1899.2	9797.1±626.2	10254.9±665.1	10029.4±682.3
T 2300	29668.1±1900.2	9666.7±636.7	10094.1±653.9	9836.8±672.4
T 2400	29199.0±1894.0	9513.2±649.0	9941.2±660.4	9672.1±662.4
T 2500	28751.5±1871.9	9341.7±608.6	9756.9±633.8	9559.3±674.2
T 2600	28331.4±1852.9	9209.8±626.1	9654.9±627.6	9395.6±657.9
T 2700	27939.2±1857.5	9085.3±616.2	9525.5±638.7	9252.9±675.5
T 2800	27548.5±1834.1	8948.0±623.3	9380.4±632.3	9141.2±644.5
T 2900	27181.4±1824.5	8824.0±637.1	9247.1±626.1	9021.1±650.0
T 3000	26843.6±1821.5	8717.2±649.6	9145.1±615.4	8897.1±619.7
T 3100	26506.4±1809.6	8626.5±649.4	9047.1±616.3	8776.0±632.5
T 3200	26230.4±1835.4	8593.6±644.0	8929.4±622.8	8634.3±654.7

TABLE S.5. Table of Vertical DRA of Healthy Cases.

Table of Vertical DRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	13826.0 $\pm$ 1581.1	3554.9 $\pm$ 689.2	6298.5 $\pm$ 845.1	3965.2 $\pm$ 1149.9
I 3100	14021.6 $\pm$ 1466.0	3739.2 $\pm$ 735.0	6354.9 $\pm$ 687.4	4152.0 $\pm$ 1214.9
I 3000	14324.5 $\pm$ 1744.1	3789.2 $\pm$ 601.1	6342.6 $\pm$ 732.3	4229.9 $\pm$ 1287.9
I 2900	14260.3 $\pm$ 1712.5	3724.0 $\pm$ 699.9	6308.8 $\pm$ 730.5	4137.3 $\pm$ 1141.3
I 2800	14492.6 $\pm$ 1662.8	3982.4 $\pm$ 779.7	6366.7 $\pm$ 832.8	4392.6 $\pm$ 1364.2
I 2700	14691.2 $\pm$ 1642.9	3956.4 $\pm$ 692.5	6364.2 $\pm$ 818.5	4328.4 $\pm$ 1138.8
I 2600	14630.4 $\pm$ 1435.6	4016.2 $\pm$ 695.4	6319.1 $\pm$ 831.9	4334.8 $\pm$ 1032.6
I 2500	15096.6 $\pm$ 1741.0	4219.1 $\pm$ 672.7	6432.8 $\pm$ 785.3	4629.9 $\pm$ 1314.3
I 2400	15314.7 $\pm$ 1640.7	4071.6 $\pm$ 900.9	6357.4 $\pm$ 797.8	4749.0 $\pm$ 1207.4
I 2300	16102.0 $\pm$ 1790.8	4279.4 $\pm$ 972.4	6723.5 $\pm$ 897.5	5299.5 $\pm$ 1502.5
I 2200	15953.4 $\pm$ 1729.3	4527.0 $\pm$ 760.2	6547.5 $\pm$ 1008.2	5125.5 $\pm$ 1253.4
I 2100	16430.9 $\pm$ 1727.5	4535.8 $\pm$ 902.8	6464.2 $\pm$ 1036.5	5428.9 $\pm$ 1313.7
I 2000	16827.9 $\pm$ 1817.4	4547.1 $\pm$ 880.3	6661.8 $\pm$ 1166.5	5573.0 $\pm$ 1301.9
I 1900	17290.7 $\pm$ 2196.0	4689.2 $\pm$ 993.1	6621.1 $\pm$ 1210.4	6123.5 $\pm$ 1493.4
I 1800	17585.8 $\pm$ 2041.5	5096.1 $\pm$ 936.3	6786.3 $\pm$ 1290.7	6079.4 $\pm$ 1333.0
I 1700	17766.7 $\pm$ 1740.6	5190.2 $\pm$ 831.4	6627.5 $\pm$ 952.4	5964.2 $\pm$ 998.5
I 1600	18203.4 $\pm$ 1875.4	5404.9 $\pm$ 984.7	6728.4 $\pm$ 1035.2	6283.8 $\pm$ 1184.4
I 1500	18673.5 $\pm$ 1689.4	5699.5 $\pm$ 835.0	6787.3 $\pm$ 1095.0	6464.7 $\pm$ 1008.3
I 1400	18999.0 $\pm$ 1595.1	5684.8 $\pm$ 771.9	6733.3 $\pm$ 962.6	6507.8 $\pm$ 871.7
I 1300	19269.1 $\pm$ 1632.8	5771.1 $\pm$ 796.9	6835.8 $\pm$ 1049.6	6738.7 $\pm$ 868.0
I 1200	19461.3 $\pm$ 1644.5	5789.2 $\pm$ 931.6	6887.3 $\pm$ 1053.2	6762.7 $\pm$ 847.8
I 1100	19612.7 $\pm$ 1699.6	5550.0 $\pm$ 952.5	7120.1 $\pm$ 1093.4	6659.3 $\pm$ 862.7
I 1000	19272.1 $\pm$ 1774.0	5226.5 $\pm$ 1114.1	7090.7 $\pm$ 1069.1	6594.1 $\pm$ 764.5
I 900	19162.7 $\pm$ 1875.1	4565.2 $\pm$ 1011.9	7526.0 $\pm$ 1119.1	6400.0 $\pm$ 828.1
I 800	18502.9 $\pm$ 1942.5	3922.5 $\pm$ 1090.0	7727.5 $\pm$ 1034.7	6187.3 $\pm$ 798.7
I 700	17329.4 $\pm$ 2180.6	3239.7 $\pm$ 1094.2	7507.4 $\pm$ 1094.4	5900.5 $\pm$ 885.0
I 600	16275.5 $\pm$ 2184.4	2657.4 $\pm$ 889.1	7610.8 $\pm$ 994.7	5421.1 $\pm$ 925.1
I 500	15062.7 $\pm$ 2127.0	2285.8 $\pm$ 844.0	7541.2 $\pm$ 1053.2	4841.2 $\pm$ 970.5
I 400	14571.1 $\pm$ 1922.3	2582.8 $\pm$ 774.1	7943.1 $\pm$ 937.2	4357.4 $\pm$ 1131.6
I 300	14456.4 $\pm$ 1684.6	3516.7 $\pm$ 824.0	8106.9 $\pm$ 818.0	3763.2 $\pm$ 1077.6
I 200	14287.7 $\pm$ 1526.4	4340.2 $\pm$ 819.4	7585.3 $\pm$ 859.5	3190.7 $\pm$ 1043.6
I 100	14061.8 $\pm$ 1709.2	4481.4 $\pm$ 665.5	6803.4 $\pm$ 963.4	2962.3 $\pm$ 1148.5
V 0	13731.4 $\pm$ 1688.9	4314.2 $\pm$ 773.9	6128.4 $\pm$ 947.1	3132.4 $\pm$ 839.1
S 100	14012.7 $\pm$ 1536.4	4314.2 $\pm$ 773.9	6755.9 $\pm$ 920.4	2941.2 $\pm$ 852.7
S 200	14268.1 $\pm$ 1567.7	3496.6 $\pm$ 789.5	7564.7 $\pm$ 808.9	3230.9 $\pm$ 1269.2

Table of Vertical DRA of Healthy Cases (μm^2)

S 300	14266.2±1710.4	2430.4±819.6	8057.8±812.2	3773.0±1141.7
S 400	14472.1±1945.3	2202.9±839.4	7927.9±927.3	4340.2±1006.2
S 500	14955.4±2047.1	2557.4±825.7	7345.1±1118.0	5057.8±1047.2
S 600	15997.5±2362.3	3156.4±1002.2	7315.2±1154.2	5526.5±941.9
S 700	17250.0±2047.4	3725.0±1131.3	7502.9±979.8	5968.6±844.3
S 800	18680.4±1961.2	4461.3±1009.1	7818.6±1067.1	6374.0±898.9
S 900	19210.3±1799.5	4954.9±899.6	7567.2±1187.1	6616.7±856.9
S 1000	19755.9±1742.9	5535.3±994.5	7394.1±980.7	6752.5±685.0
S 1100	19997.5±1579.6	5675.5±842.9	7495.1±953.1	6780.4±794.3
S 1200	19779.4±1558.3	5668.6±725.4	7301.0±967.2	6762.3±802.4
S 1300	19773.5±1668.5	5678.4±700.9	7298.0±977.2	6728.4±843.9
S 1400	19514.7±1781.0	5390.7±635.1	7375.0±931.6	6727.5±955.8
S 1500	19302.5±1715.9	5391.2±675.4	7349.0±1037.3	6507.4±845.3
S 1600	18749.5±1667.5	4970.6±798.7	7305.4±946.9	6415.2±918.5
S 1700	18712.3±1661.2	5046.1±771.4	7270.1±1028.7	6364.7±1049.5
S 1800	18307.4±1606.9	4794.1±883.0	7400.0±941.9	6076.0±1040.5
S 1900	18021.6±1729.8	4663.2±778.8	7313.2±959.4	6004.9±1245.3
S 2000	17820.1±1596.2	4543.6±938.9	7309.3±895.1	5950.5±1184.7
S 2100	17297.5±1644.3	4530.4±823.6	7133.8±977.1	5629.9±1065.4
S 2200	17378.9±1802.7	4477.9±766.0	7258.8±956.7	5644.6±1299.1
S 2300	17058.8±1878.8	4394.6±840.5	7168.1±871.9	5498.5±1309.0
S 2400	16444.6±1447.5	4323.0±818.3	7099.5±820.7	5055.4±1138.3
S 2500	16450.0±1690.6	4286.3±841.0	7053.4±830.8	5123.0±1239.5
S 2600	16254.9±1601.5	4194.6±763.6	7027.9±759.2	5038.7±1279.6
S 2700	15810.8±1567.7	4161.3±907.8	6881.9±793.5	4789.7±1087.0
S 2800	15835.8±1777.9	4044.6±859.1	6882.4±765.6	4914.7±1431.0
S 2900	15633.8±1838.2	4019.1±831.9	6957.4±784.8	4674.0±1308.4
S 3000	15227.5±1554.1	3835.3±944.8	6840.2±646.9	4569.1±1064.3
S 3100	15163.7±1498.4	4054.4±786.8	6783.3±662.0	4362.3±1142.4
S 3200	15085.3±1495.2	3944.1±903.0	6859.8±648.1	4289.2±1184.2

TABLE S.6. Table of Horizontal DRA of Healthy Cases.

Table of Horizontal DRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	15001.5 $\pm$ 1721.4	3902.5 $\pm$ 861.3	6002.9 $\pm$ 856.9	5147.5 $\pm$ 1194.6
N 3100	15172.1 $\pm$ 1945.9	4098.5 $\pm$ 724.1	6169.1 $\pm$ 881.5	5088.7 $\pm$ 1197.1
N 3000	15183.3 $\pm$ 1712.8	4262.3 $\pm$ 768.6	6036.8 $\pm$ 782.2	5035.8 $\pm$ 1101.0
N 2900	15325.0 $\pm$ 1806.7	4382.4 $\pm$ 639.7	5997.5 $\pm$ 829.2	5050.5 $\pm$ 1168.8
N 2800	15577.5 $\pm$ 1934.2	4533.3 $\pm$ 688.6	6138.7 $\pm$ 834.2	5049.5 $\pm$ 1311.1
N 2700	15838.2 $\pm$ 1920.1	4486.3 $\pm$ 732.6	6155.4 $\pm$ 978.1	5131.4 $\pm$ 1108.9
N 2600	16011.8 $\pm$ 1904.9	4616.2 $\pm$ 772.5	6138.7 $\pm$ 1000.0	5356.4 $\pm$ 1195.6
N 2500	16421.6 $\pm$ 2118.2	4789.2 $\pm$ 671.3	6303.4 $\pm$ 1077.5	5485.8 $\pm$ 1142.4
N 2400	16669.6 $\pm$ 1963.0	4857.8 $\pm$ 628.4	6394.1 $\pm$ 1040.6	5466.7 $\pm$ 1098.4
N 2300	16916.2 $\pm$ 1893.0	4968.6 $\pm$ 757.1	6488.2 $\pm$ 980.2	5547.1 $\pm$ 1044.5
N 2200	17358.3 $\pm$ 1989.1	5142.6 $\pm$ 783.2	6579.9 $\pm$ 947.0	5779.4 $\pm$ 1065.2
N 2100	17719.1 $\pm$ 1865.7	5247.1 $\pm$ 903.1	6655.4 $\pm$ 1044.9	5903.9 $\pm$ 995.0
N 2000	18190.7 $\pm$ 1907.2	5459.3 $\pm$ 923.5	6817.2 $\pm$ 973.6	6103.9 $\pm$ 999.4
N 1900	18592.6 $\pm$ 1873.4	5613.2 $\pm$ 726.2	6881.4 $\pm$ 1030.8	6224.0 $\pm$ 896.4
N 1800	18951.5 $\pm$ 1875.8	5791.7 $\pm$ 953.0	6975.0 $\pm$ 1096.7	6324.5 $\pm$ 945.1
N 1700	19289.2 $\pm$ 1796.1	5779.4 $\pm$ 686.9	7067.2 $\pm$ 988.4	6406.4 $\pm$ 857.0
N 1600	19512.7 $\pm$ 1701.8	5897.1 $\pm$ 754.5	7285.3 $\pm$ 1162.6	6433.8 $\pm$ 830.1
N 1500	19739.7 $\pm$ 1757.1	5888.7 $\pm$ 848.7	7335.8 $\pm$ 1107.9	6478.9 $\pm$ 823.2
N 1400	19977.5 $\pm$ 1566.1	5537.7 $\pm$ 839.7	7596.1 $\pm$ 988.8	6464.2 $\pm$ 785.4
N 1300	19752.9 $\pm$ 1901.2	5319.6 $\pm$ 1072.6	7698.5 $\pm$ 1200.6	6483.3 $\pm$ 831.9
N 1200	19530.4 $\pm$ 1919.5	5070.1 $\pm$ 970.7	7767.6 $\pm$ 1154.9	6418.1 $\pm$ 851.5
N 1100	19430.9 $\pm$ 1820.9	4699.0 $\pm$ 997.7	8095.6 $\pm$ 1010.2	6244.1 $\pm$ 801.4
N 1000	18785.3 $\pm$ 2001.3	4379.9 $\pm$ 1005.2	7932.8 $\pm$ 1081.1	6127.0 $\pm$ 808.0
N 900	18098.0 $\pm$ 2195.0	3969.6 $\pm$ 1060.4	7833.8 $\pm$ 1186.7	5860.8 $\pm$ 855.2
N 800	17314.7 $\pm$ 2164.2	3535.3 $\pm$ 1090.7	7847.1 $\pm$ 987.9	5486.3 $\pm$ 893.7
N 700	16442.2 $\pm$ 2228.6	2956.9 $\pm$ 1091.4	7733.3 $\pm$ 1123.4	5167.6 $\pm$ 873.5
N 600	15485.8 $\pm$ 2083.6	2476.0 $\pm$ 1011.8	7691.7 $\pm$ 1007.1	4817.6 $\pm$ 946.6
N 500	14766.2 $\pm$ 1967.9	2235.8 $\pm$ 852.0	7863.7 $\pm$ 1062.2	4410.8 $\pm$ 978.5
N 400	14182.4 $\pm$ 1864.1	2713.7 $\pm$ 992.4	7918.1 $\pm$ 1122.4	4017.2 $\pm$ 1026.4
N 300	14187.3 $\pm$ 1744.9	3715.7 $\pm$ 909.8	7926.0 $\pm$ 985.0	3543.1 $\pm$ 1085.4
N 200	14154.9 $\pm$ 1363.1	4443.6 $\pm$ 797.7	7378.9 $\pm$ 873.7	3049.0 $\pm$ 924.2
N 100	14139.7 $\pm$ 1522.5	4583.8 $\pm$ 609.3	6753.9 $\pm$ 927.7	2940.2 $\pm$ 730.6
H 0	14021.6 $\pm$ 1511.3	4381.9 $\pm$ 690.5	6505.9 $\pm$ 924.4	2931.4 $\pm$ 705.9
T 100	14057.8 $\pm$ 1468.1	4381.9 $\pm$ 690.5	6889.7 $\pm$ 857.8	2772.5 $\pm$ 780.2
T 200	14050.0 $\pm$ 1565.2	3727.0 $\pm$ 937.2	7390.2 $\pm$ 872.0	2931.9 $\pm$ 962.1

Table of Horizontal DRA of Healthy Cases (μm^2)

T 300	13756.4±1717.2	2419.6±879.0	7946.1±900.1	3377.0±997.2
T 400	13742.2±1763.1	1915.7±792.7	7952.9±1045.3	3866.2±900.9
T 500	14520.1±1813.5	2418.1±840.1	7764.2±952.0	4324.0±945.9
T 600	15122.5±1988.6	2895.6±1004.0	7463.7±1097.3	4753.9±856.3
T 700	16120.6±2100.7	3553.9±1020.6	7487.3±956.2	5067.6±827.2
T 800	17027.5±2073.4	3913.2±1050.2	7700.5±1009.7	5394.1±736.3
T 900	17608.8±1963.5	4239.7±986.4	7797.5±992.9	5544.1±760.2
T 1000	17898.0±1950.2	4450.5±1054.4	7752.5±1040.8	5673.5±774.8
T 1100	18185.8±1769.0	4657.4±997.7	7658.3±948.1	5836.8±752.5
T 1200	18513.2±1661.6	4860.8±979.5	7764.2±967.4	5859.3±700.7
T 1300	18737.7±1751.3	5020.1±961.9	7868.6±883.3	5821.1±711.6
T 1400	18401.5±1766.1	4988.7±979.6	7695.1±855.1	5688.7±709.5
T 1500	18128.4±1750.3	4802.9±1139.0	7651.0±877.4	5644.6±785.4
T 1600	17672.5±1793.0	4656.9±1009.1	7489.2±895.7	5498.0±729.5
T 1700	17227.5±1912.3	4484.8±1116.0	7396.1±895.8	5317.2±805.3
T 1800	16800.0±1775.1	4284.3±998.8	7362.3±742.3	5122.1±822.5
T 1900	16370.6±2064.8	4045.1±1117.1	7327.5±849.6	4948.0±789.9
T 2000	15968.6±1841.4	3887.3±1068.8	7245.1±658.3	4806.4±802.3
T 2100	15402.0±1855.0	3933.8±1032.5	6901.0±797.0	4545.1±797.8
T 2200	15200.5±1970.0	3653.9±1167.4	7018.1±751.9	4494.6±811.4
T 2300	14956.4±1984.0	3790.7±1115.0	6892.2±687.9	4245.1±829.1
T 2400	14650.0±2015.0	3712.3±1152.6	6847.1±728.9	4056.9±820.2
T 2500	14237.7±1926.4	3640.7±1178.4	6625.5±713.9	3946.6±778.7
T 2600	14169.6±1868.2	3692.6±1246.6	6684.3±677.9	3768.1±818.3
T 2700	13913.2±1876.5	3678.4±1216.1	6559.3±689.5	3655.9±783.2
T 2800	13790.7±1879.3	3715.2±1184.5	6517.2±693.1	3537.3±791.9
T 2900	13581.4±1878.2	3678.9±1305.6	6448.0±641.8	3427.0±734.1
T 3000	13103.9±1845.3	3414.2±1282.9	6282.4±614.3	3391.7±809.0
T 3100	13013.7±1962.3	3425.0±1316.1	6305.4±651.0	3267.6±817.1
T 3200	12789.7±1967.4	3444.1±1335.1	6241.7±585.4	3081.4±785.5

TABLE S.7. Table of Vertical LRA of Healthy Cases.

Table of Vertical LRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	13230.9 $\pm$ 1341.3	5261.3 $\pm$ 783.7	2925.0 $\pm$ 831.7	4990.7 $\pm$ 890.6
I 3100	13207.8 $\pm$ 1305.4	5164.7 $\pm$ 724.9	2943.1 $\pm$ 632.0	4902.0 $\pm$ 968.0
I 3000	13117.2 $\pm$ 1379.7	5220.6 $\pm$ 708.0	3029.9 $\pm$ 774.9	4877.9 $\pm$ 1027.0
I 2900	13383.8 $\pm$ 1327.9	5416.2 $\pm$ 863.3	3146.1 $\pm$ 793.7	5019.1 $\pm$ 823.9
I 2800	13466.7 $\pm$ 1384.8	5263.2 $\pm$ 741.9	3194.1 $\pm$ 864.3	4826.0 $\pm$ 1044.3
I 2700	13604.4 $\pm$ 1346.9	5410.3 $\pm$ 813.5	3290.7 $\pm$ 808.1	4993.1 $\pm$ 930.3
I 2600	14051.5 $\pm$ 1339.9	5499.0 $\pm$ 790.0	3461.3 $\pm$ 864.5	5140.2 $\pm$ 764.1
I 2500	14017.6 $\pm$ 1361.6	5396.1 $\pm$ 786.3	3480.9 $\pm$ 857.5	4992.2 $\pm$ 966.0
I 2400	14240.7 $\pm$ 1258.3	5727.9 $\pm$ 911.5	3693.6 $\pm$ 835.1	5079.9 $\pm$ 814.4
I 2300	13980.9 $\pm$ 1367.2	5671.1 $\pm$ 999.3	3515.7 $\pm$ 890.8	4670.6 $\pm$ 1232.9
I 2200	14640.2 $\pm$ 1403.0	5545.1 $\pm$ 974.7	3883.8 $\pm$ 970.8	5039.7 $\pm$ 992.8
I 2100	14697.1 $\pm$ 1496.8	5707.4 $\pm$ 1014.0	4104.4 $\pm$ 1008.3	4965.2 $\pm$ 1022.4
I 2000	14881.9 $\pm$ 1609.4	5856.9 $\pm$ 935.7	4153.9 $\pm$ 1219.6	4978.4 $\pm$ 1099.9
I 1900	15077.0 $\pm$ 1697.5	6008.3 $\pm$ 1008.6	4355.4 $\pm$ 1177.3	4726.0 $\pm$ 1209.3
I 1800	15404.9 $\pm$ 1690.3	5756.9 $\pm$ 843.5	4441.2 $\pm$ 1318.8	4878.4 $\pm$ 1141.2
I 1700	15816.7 $\pm$ 1290.4	5898.0 $\pm$ 839.5	4788.2 $\pm$ 1091.0	5231.9 $\pm$ 785.4
I 1600	16013.7 $\pm$ 1254.7	5882.4 $\pm$ 967.6	4891.2 $\pm$ 1098.3	5118.1 $\pm$ 861.3
I 1500	16096.1 $\pm$ 1444.6	5788.7 $\pm$ 846.9	4985.3 $\pm$ 1186.0	5111.3 $\pm$ 748.9
I 1400	16262.7 $\pm$ 1258.3	5948.5 $\pm$ 703.8	5172.5 $\pm$ 1021.7	5204.4 $\pm$ 711.8
I 1300	16333.3 $\pm$ 1327.5	5918.6 $\pm$ 809.6	5156.4 $\pm$ 1137.4	5116.7 $\pm$ 669.5
I 1200	16281.9 $\pm$ 1267.2	5826.5 $\pm$ 866.6	5155.9 $\pm$ 1065.7	5110.3 $\pm$ 662.0
I 1100	16069.6 $\pm$ 1252.1	5880.4 $\pm$ 744.7	4962.3 $\pm$ 1036.1	5208.3 $\pm$ 711.0
I 1000	16093.6 $\pm$ 1185.6	5942.6 $\pm$ 884.0	4932.8 $\pm$ 1053.7	5214.2 $\pm$ 561.8
I 900	15661.8 $\pm$ 1241.2	6239.2 $\pm$ 769.2	4336.8 $\pm$ 1134.7	5276.5 $\pm$ 608.3
I 800	15483.8 $\pm$ 996.5	6400.5 $\pm$ 757.4	3907.8 $\pm$ 905.5	5262.3 $\pm$ 544.5
I 700	15539.2 $\pm$ 1314.6	6522.1 $\pm$ 709.5	3778.9 $\pm$ 1064.6	5243.6 $\pm$ 534.5
I 600	15173.5 $\pm$ 1372.4	6468.6 $\pm$ 572.0	3267.6 $\pm$ 1056.4	5277.5 $\pm$ 504.1
I 500	14667.6 $\pm$ 1491.8	6052.0 $\pm$ 764.4	2800.0 $\pm$ 1180.9	5305.4 $\pm$ 539.3
I 400	13126.5 $\pm$ 1694.2	5033.8 $\pm$ 1113.2	1758.8 $\pm$ 1239.6	5195.1 $\pm$ 507.5
I 300	11056.4 $\pm$ 1784.7	3673.5 $\pm$ 1284.9	873.5 $\pm$ 954.1	5055.9 $\pm$ 509.4
I 200	9363.2 $\pm$ 1628.1	2752.0 $\pm$ 1105.9	712.7 $\pm$ 699.1	4917.6 $\pm$ 523.1
I 100	8467.2 $\pm$ 1408.5	2848.5 $\pm$ 884.4	977.0 $\pm$ 670.7	4651.0 $\pm$ 586.4
V 0	8648.0 $\pm$ 1223.9	2812.7 $\pm$ 1077.6	1444.1 $\pm$ 583.3	4302.5 $\pm$ 569.7
S 100	8533.8 $\pm$ 1477.9	2812.7 $\pm$ 1077.6	997.1 $\pm$ 663.4	4653.9 $\pm$ 592.9
S 200	9216.7 $\pm$ 1723.9	3533.3 $\pm$ 1274.8	705.9 $\pm$ 704.0	4868.6 $\pm$ 582.7

Table of Vertical LRA of Healthy Cases (μm^2)

S 300	11034.3±1794.6	5040.7±1204.9	879.4±957.3	5034.3±520.1
S 400	13021.1±1592.3	5954.9±725.3	1777.9±1178.1	5217.2±520.0
S 500	14717.6±1541.4	6375.0±716.6	3019.6±1232.7	5196.6±502.1
S 600	15602.0±1379.7	6597.5±726.2	3629.9±1063.2	5237.3±487.1
S 700	15861.3±1323.0	6624.0±827.6	3877.5±1022.8	5282.4±554.3
S 800	15601.0±1067.0	6402.0±751.6	3887.3±967.8	5198.0±650.8
S 900	15911.8±1300.2	6267.6±870.5	4372.5±1125.6	5190.7±629.5
S 1000	15952.0±1158.4	5982.8±823.4	4688.2±972.3	5216.7±611.0
S 1100	16034.3±1119.2	6060.8±815.8	4669.6±917.5	5238.7±570.0
S 1200	16315.7±1090.5	6140.2±749.9	4879.4±916.5	5247.1±607.4
S 1300	16180.9±1200.5	6074.5±680.6	4831.4±901.1	5226.0±730.9
S 1400	16136.3±1309.9	6207.8±622.1	4660.3±844.9	5175.0±736.4
S 1500	15957.8±1326.7	6043.6±592.6	4577.0±1054.7	5271.1±660.5
S 1600	16043.6±1220.8	6298.0±731.8	4467.2±950.5	5185.8±764.9
S 1700	15601.0±1386.9	6052.0±766.7	4337.7±1060.6	5106.4±771.9
S 1800	15528.4±1281.5	6192.2±948.5	4096.1±942.0	5185.3±826.2
S 1900	15374.5±1306.2	6181.4±856.3	4024.0±909.4	5095.1±1102.7
S 2000	15121.1±1475.7	6157.8±939.4	3867.2±932.6	5014.7±1097.3
S 2100	15148.5±1360.4	5993.1±837.1	3874.0±967.2	5177.9±854.6
S 2200	14583.3±1321.4	5916.2±896.0	3584.3±959.2	4975.0±959.7
S 2300	14427.0±1430.5	5835.8±773.2	3498.5±901.8	4983.3±1019.8
S 2400	14619.6±1447.7	5830.9±829.3	3449.5±892.1	5236.8±937.8
S 2500	14214.2±1326.4	5718.6±793.0	3350.5±873.6	5033.8±1012.2
S 2600	14044.1±1250.9	5687.7±835.2	3246.6±737.0	5018.6±1034.8
S 2700	14119.6±1318.1	5610.3±768.7	3275.0±839.7	5115.7±870.8
S 2800	13788.7±1354.3	5615.2±816.4	3184.3±781.7	4918.1±1221.2
S 2900	13744.1±1336.4	5597.1±827.2	3042.6±762.4	5056.4±1082.0
S 3000	13847.5±1328.2	5666.7±897.2	3046.1±764.8	5064.7±882.9
S 3100	13639.2±1318.7	5358.3±747.6	3024.5±754.0	5169.6±892.3
S 3200	13448.5±1361.6	5439.2±982.5	2826.5±695.2	5135.8±912.0

TABLE S.8. Table of Horizontal LRA of Healthy Cases.

Table of Horizontal LRA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	15617.6 $\pm$ 1725.5	6103.9 $\pm$ 991.9	4330.4 $\pm$ 1000.9	5025.0 $\pm$ 907.4
N 3100	15531.9 $\pm$ 1665.1	5905.9 $\pm$ 795.1	4234.8 $\pm$ 938.0	5112.3 $\pm$ 831.4
N 3000	15619.1 $\pm$ 1322.3	5827.0 $\pm$ 798.8	4426.0 $\pm$ 817.0	5206.9 $\pm$ 714.2
N 2900	15637.3 $\pm$ 1396.3	5797.1 $\pm$ 652.4	4500.5 $\pm$ 917.2	5237.7 $\pm$ 788.6
N 2800	15604.9 $\pm$ 1516.9	5693.6 $\pm$ 735.3	4453.4 $\pm$ 959.0	5286.3 $\pm$ 920.7
N 2700	15603.9 $\pm$ 1280.3	5824.0 $\pm$ 805.1	4527.0 $\pm$ 891.4	5320.1 $\pm$ 777.2
N 2600	15770.6 $\pm$ 1280.9	5811.3 $\pm$ 679.4	4626.0 $\pm$ 936.7	5245.1 $\pm$ 819.6
N 2500	15706.4 $\pm$ 1250.3	5778.9 $\pm$ 692.4	4575.0 $\pm$ 946.6	5193.1 $\pm$ 800.8
N 2400	15874.5 $\pm$ 1296.3	5878.9 $\pm$ 699.8	4649.0 $\pm$ 969.0	5375.5 $\pm$ 743.6
N 2300	16053.4 $\pm$ 1225.6	5880.9 $\pm$ 644.6	4735.3 $\pm$ 884.7	5398.5 $\pm$ 716.1
N 2200	16062.7 $\pm$ 1209.8	5883.8 $\pm$ 745.5	4745.6 $\pm$ 849.9	5374.5 $\pm$ 782.7
N 2100	16149.0 $\pm$ 1253.0	5921.1 $\pm$ 755.6	4842.6 $\pm$ 993.6	5356.9 $\pm$ 672.8
N 2000	16092.6 $\pm$ 1137.1	5813.2 $\pm$ 802.1	4802.5 $\pm$ 939.9	5320.1 $\pm$ 685.2
N 1900	16103.4 $\pm$ 1220.9	5825.0 $\pm$ 737.1	4871.6 $\pm$ 995.7	5341.7 $\pm$ 638.2
N 1800	16148.0 $\pm$ 1093.1	5777.9 $\pm$ 911.9	4887.7 $\pm$ 976.9	5351.5 $\pm$ 626.4
N 1700	16147.5 $\pm$ 1309.0	5890.2 $\pm$ 749.8	4925.0 $\pm$ 913.1	5360.8 $\pm$ 643.0
N 1600	16225.0 $\pm$ 1280.2	5844.1 $\pm$ 733.7	4816.7 $\pm$ 1059.0	5441.7 $\pm$ 626.0
N 1500	16207.4 $\pm$ 1128.2	5829.4 $\pm$ 835.2	4821.1 $\pm$ 915.6	5466.2 $\pm$ 610.2
N 1400	15981.4 $\pm$ 1169.6	6085.8 $\pm$ 832.4	4580.4 $\pm$ 949.1	5505.9 $\pm$ 637.1
N 1300	16071.1 $\pm$ 1359.5	6179.9 $\pm$ 994.2	4430.9 $\pm$ 1089.8	5469.6 $\pm$ 625.6
N 1200	16015.2 $\pm$ 1244.4	6238.7 $\pm$ 704.1	4302.9 $\pm$ 1016.4	5459.3 $\pm$ 628.7
N 1100	15699.0 $\pm$ 1143.6	6345.6 $\pm$ 792.2	3865.2 $\pm$ 1032.9	5512.3 $\pm$ 574.4
N 1000	15772.1 $\pm$ 1350.3	6364.7 $\pm$ 826.8	3843.6 $\pm$ 1017.8	5484.8 $\pm$ 549.5
N 900	15676.5 $\pm$ 1308.6	6407.4 $\pm$ 795.8	3723.0 $\pm$ 1022.9	5513.7 $\pm$ 592.0
N 800	15527.0 $\pm$ 1178.1	6403.9 $\pm$ 832.7	3439.2 $\pm$ 879.1	5598.5 $\pm$ 540.1
N 700	15283.3 $\pm$ 1368.8	6430.9 $\pm$ 651.6	3192.2 $\pm$ 1079.8	5596.1 $\pm$ 499.5
N 600	14877.0 $\pm$ 1403.3	6316.2 $\pm$ 740.9	2814.2 $\pm$ 1231.3	5525.0 $\pm$ 486.3
N 500	13977.5 $\pm$ 1656.0	5870.6 $\pm$ 969.1	2140.2 $\pm$ 1369.4	5422.5 $\pm$ 497.3
N 400	12777.5 $\pm$ 2012.2	4824.5 $\pm$ 1327.9	1513.2 $\pm$ 1375.7	5276.0 $\pm$ 511.9
N 300	10937.3 $\pm$ 1952.5	3427.0 $\pm$ 1331.5	870.1 $\pm$ 946.3	5109.8 $\pm$ 514.5
N 200	9401.0 $\pm$ 1812.3	2685.8 $\pm$ 1086.5	813.2 $\pm$ 762.2	5025.5 $\pm$ 517.8
N 100	8471.1 $\pm$ 1687.6	2783.8 $\pm$ 826.2	975.5 $\pm$ 768.8	4660.3 $\pm$ 540.3
H 0	8479.9 $\pm$ 1310.9	2809.3 $\pm$ 969.7	1074.5 $\pm$ 714.7	4504.4 $\pm$ 562.7
T 100	8535.3 $\pm$ 1445.8	2809.3 $\pm$ 969.7	827.9 $\pm$ 695.3	4795.6 $\pm$ 518.9
T 200	9258.3 $\pm$ 1752.5	3442.2 $\pm$ 1249.2	700.0 $\pm$ 788.5	5007.8 $\pm$ 512.0

Table of Horizontal LRA of Healthy Cases (μm^2)

T 300	10996.6±1706.0	4993.6±1206.6	744.1±809.3	5162.7±492.7
T 400	12858.8±1658.3	6094.6±806.6	1364.7±1205.3	5292.2±482.6
T 500	13863.2±1409.1	6246.1±542.3	2114.2±1190.7	5399.0±518.9
T 600	14788.2±1286.3	6389.2±738.2	2861.8±1140.5	5424.5±475.2
T 700	14990.7±1250.5	6247.5±768.0	3218.6±883.5	5459.3±477.9
T 800	15043.6±1245.3	6250.0±816.6	3276.0±865.4	5417.6±477.6
T 900	15189.2±1225.3	6241.7±842.4	3398.5±828.1	5454.9±535.4
T 1000	15419.1±1225.5	6277.9±890.0	3584.8±934.5	5482.4±530.3
T 1100	15501.0±1100.5	6247.5±864.8	3773.0±801.0	5407.8±575.5
T 1200	15380.9±1095.2	6176.5±863.1	3686.8±864.8	5431.4±516.1
T 1300	15182.4±1251.5	6085.3±881.6	3586.3±793.0	5436.8±510.3
T 1400	15348.5±1226.5	6083.8±831.1	3732.4±763.9	5486.8±510.5
T 1500	15343.6±1282.2	6154.9±1087.2	3674.5±823.6	5457.8±547.7
T 1600	15417.2±1297.1	6129.9±920.9	3714.7±763.3	5513.2±539.4
T 1700	15374.0±1245.2	6102.0±1004.7	3686.3±751.8	5525.0±528.9
T 1800	15324.5±1288.8	6152.9±940.1	3539.7±694.5	5562.3±511.4
T 1900	15296.1±1318.5	6245.6±882.8	3421.6±751.7	5578.4±544.5
T 2000	15181.9±1227.3	6216.2±971.0	3343.1±585.8	5563.2±470.2
T 2100	15241.7±1378.3	6032.4±884.7	3510.8±766.0	5639.2±525.7
T 2200	14959.8±1274.0	6143.1±1007.9	3236.8±618.3	5534.8±507.0
T 2300	14711.8±1188.9	5876.0±957.5	3202.0±565.3	5591.7±523.7
T 2400	14549.0±1282.0	5801.0±954.9	3094.1±585.2	5615.2±529.8
T 2500	14513.7±1381.3	5701.0±1072.8	3131.4±606.7	5612.7±508.5
T 2600	14161.8±1320.4	5517.2±1154.6	2970.6±574.2	5627.5±550.4
T 2700	14026.0±1188.8	5406.9±1087.5	2966.2±533.2	5597.1±490.0
T 2800	13757.8±1342.1	5232.8±1057.7	2863.2±542.5	5603.9±552.4
T 2900	13600.0±1308.2	5145.1±1197.0	2799.0±490.4	5594.1±503.5
T 3000	13739.7±1281.9	5302.9±1149.3	2862.7±526.9	5505.4±621.2
T 3100	13492.6±1317.3	5201.5±1093.5	2741.7±506.9	5508.3±660.9
T 3200	13440.7±1342.5	5149.5±1128.2	2687.7±499.6	5552.9±572.0

TABLE S.9. Table of Vertical DAP of Healthy Cases.

Table of Vertical DAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	51.1±4.0	40.4±7.4	68.4±8.4	43.9±10.8
I 3100	51.5±3.7	41.9±7.0	68.4±5.8	45.5±11.5
I 3000	52.1±4.3	42.1±6.1	67.8±7.2	46.1±11.9
I 2900	51.5±4.1	40.8±7.4	66.9±7.1	44.8±10.0
I 2800	51.8±4.0	43.0±7.1	66.7±8.0	47.2±12.4
I 2700	51.9±3.9	42.3±6.9	66.0±7.6	46.2±10.7
I 2600	51.0±3.2	42.2±6.9	64.7±7.8	45.5±9.0
I 2500	51.8±3.9	43.9±6.8	65.0±7.5	47.7±11.2
I 2400	51.8±3.5	41.5±8.6	63.4±7.2	47.9±9.7
I 2300	53.5±4.0	43.0±9.4	65.7±7.9	52.8±13.1
I 2200	52.1±3.8	45.1±7.9	62.8±8.6	50.2±10.2
I 2100	52.8±3.7	44.4±8.7	61.2±8.8	51.9±10.6
I 2000	53.1±4.1	43.7±8.2	61.7±10.3	52.6±10.8
I 1900	53.3±4.9	43.8±8.8	60.3±10.2	56.1±11.8
I 1800	53.3±4.6	46.9±7.8	60.5±11.1	55.3±10.8
I 1700	52.9±3.1	46.8±6.6	58.2±8.5	53.1±7.3
I 1600	53.1±3.2	47.9±8.0	58.0±8.6	54.9±8.1
I 1500	53.7±3.2	49.6±6.6	57.8±9.3	55.7±6.9
I 1400	53.9±2.7	48.8±5.7	56.6±8.1	55.5±6.1
I 1300	54.1±3.0	49.4±6.3	57.1±8.9	56.8±5.8
I 1200	54.4±3.0	49.8±7.3	57.2±8.4	56.9±5.6
I 1100	54.9±3.1	48.4±7.1	58.9±8.3	56.1±6.0
I 1000	54.4±3.1	46.6±8.5	59.0±8.4	55.8±4.9
I 900	55.0±3.5	42.0±7.7	63.5±9.0	54.7±5.4
I 800	54.3±3.2	37.6±8.6	66.4±7.6	53.9±5.2
I 700	52.6±4.1	32.7±8.8	66.6±8.9	52.8±5.6
I 600	51.6±4.2	28.6±7.3	70.1±9.0	50.4±6.0
I 500	50.6±4.3	27.0±8.0	73.2±10.8	47.4±6.7
I 400	52.6±4.1	34.2±10.5	82.5±11.5	45.1±7.5
I 300	56.8±4.0	49.7±12.7	90.8±8.9	42.1±8.1
I 200	60.5±3.5	61.7±12.0	91.7±7.3	38.6±8.9
I 100	62.4±4.2	61.5±9.4	87.5±7.7	38.2±8.5
V 0	61.3±3.9	61.1±11.5	80.8±7.3	41.8±6.7
S 100	62.2±4.0	61.1±11.5	87.3±7.6	38.3±7.4
S 200	60.9±4.0	50.6±12.5	91.9±7.2	39.0±9.9

Table of Vertical DAP of Healthy Cases (%)

S 300	56.5±3.9	32.8±11.2	90.7±8.9	42.1±8.7
S 400	52.6±3.9	26.5±7.8	82.2±11.0	45.0±7.0
S 500	50.3±4.1	28.2±6.9	71.1±11.1	48.9±6.8
S 600	50.4±4.7	31.9±8.2	66.8±9.5	51.1±5.7
S 700	52.0±3.9	35.6±9.3	66.0±8.2	52.9±5.4
S 800	54.4±3.3	40.8±7.6	66.8±8.1	55.0±5.9
S 900	54.7±3.3	44.1±7.3	63.4±9.3	55.9±5.6
S 1000	55.3±3.1	47.9±7.4	61.2±7.7	56.4±4.7
S 1100	55.5±2.7	48.3±6.4	61.6±7.4	56.3±5.0
S 1200	54.8±2.6	48.0±5.6	59.9±7.4	56.2±5.2
S 1300	55.0±3.0	48.3±5.2	60.1±7.2	56.2±5.9
S 1400	54.7±3.3	46.5±4.6	61.3±6.8	56.4±6.4
S 1500	54.7±3.2	47.1±4.8	61.7±8.4	55.2±5.7
S 1600	53.9±3.0	44.0±6.2	62.1±7.6	55.2±6.6
S 1700	54.5±3.3	45.5±6.4	62.7±8.5	55.3±7.1
S 1800	54.1±3.1	43.7±7.7	64.4±7.8	53.8±7.6
S 1900	53.9±3.4	43.0±6.9	64.5±7.7	54.0±9.9
S 2000	54.1±3.6	42.4±8.4	65.5±7.7	54.2±10.2
S 2100	53.3±3.4	43.0±7.3	64.9±8.4	51.9±8.4
S 2200	54.3±3.6	43.2±7.2	67.0±8.1	52.8±10.0
S 2300	54.1±4.1	42.9±7.3	67.3±7.6	52.2±10.4
S 2400	52.9±3.4	42.6±7.3	67.4±7.5	48.9±9.5
S 2500	53.6±3.8	42.8±7.4	67.9±7.7	50.2±10.6
S 2600	53.6±3.4	42.5±7.0	68.5±6.4	49.8±11.0
S 2700	52.8±3.5	42.4±7.5	67.9±7.3	48.1±9.3
S 2800	53.4±4.0	41.8±7.7	68.5±6.9	49.7±12.8
S 2900	53.1±4.3	41.8±7.6	69.7±6.9	47.8±11.6
S 3000	52.3±3.8	40.3±8.6	69.4±6.5	47.2±9.6
S 3100	52.6±3.6	43.0±7.0	69.3±6.6	45.5±10.0
S 3200	52.9±3.7	42.1±8.8	70.9±6.2	45.2±10.6

TABLE S.10. Table of Horizontal DAP of Healthy Cases.

Table of Horizontal DAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	49.0±4.0	39.1±8.1	58.3±8.2	50.3±9.8
N 3100	49.4±4.4	41.0±6.5	59.4±8.0	49.5±9.3
N 3000	49.2±3.3	42.2±6.7	57.8±6.9	48.8±8.2
N 2900	49.4±3.6	43.0±5.1	57.2±7.5	48.8±8.7
N 2800	49.9±4.1	44.3±5.8	58.1±7.9	48.5±10.1
N 2700	50.3±3.6	43.5±6.3	57.6±7.8	48.8±8.4
N 2600	50.3±3.5	44.2±6.0	57.0±8.2	50.2±8.9
N 2500	51.0±3.9	45.3±5.1	57.9±8.4	51.1±8.4
N 2400	51.1±3.6	45.3±4.8	57.9±8.3	50.2±7.6
N 2300	51.2±3.3	45.7±5.3	57.8±7.4	50.5±7.3
N 2200	51.8±3.5	46.6±5.9	58.1±7.2	51.6±7.6
N 2100	52.2±3.4	46.9±6.7	57.9±8.2	52.2±6.7
N 2000	53.0±3.2	48.3±6.9	58.7±7.7	53.3±6.6
N 1900	53.5±3.3	49.1±5.6	58.6±8.1	53.7±6.0
N 1800	53.9±3.2	50.0±7.5	58.7±8.2	54.0±6.2
N 1700	54.4±3.4	49.6±5.5	58.9±7.4	54.3±5.8
N 1600	54.6±3.2	50.2±5.6	60.2±8.7	54.1±5.5
N 1500	54.9±3.2	50.2±6.6	60.2±7.8	54.1±5.5
N 1400	55.5±2.9	47.6±6.6	62.4±7.6	53.9±5.4
N 1300	55.1±3.8	46.2±8.5	63.4±9.0	54.1±5.5
N 1200	54.9±3.7	44.6±6.9	64.3±8.4	53.9±5.8
N 1100	55.2±3.3	42.4±7.6	67.8±8.2	53.0±5.3
N 1000	54.3±3.9	40.6±8.1	67.4±8.3	52.6±5.3
N 900	53.5±4.3	38.0±8.5	67.7±8.8	51.4±5.8
N 800	52.6±3.9	35.2±8.8	69.5±7.5	49.3±5.8
N 700	51.7±4.3	30.9±8.9	70.9±9.5	47.8±5.6
N 600	50.9±3.7	27.6±9.0	73.6±10.5	46.3±6.2
N 500	51.3±3.7	27.4±9.7	79.2±12.3	44.5±6.6
N 400	52.7±4.5	36.4±14.2	84.6±13.1	42.7±7.1
N 300	56.6±4.8	52.8±14.1	90.5±9.8	40.3±8.3
N 200	60.3±4.3	62.8±11.9	90.4±8.4	37.2±7.9
N 100	62.7±4.9	62.5±8.1	87.5±9.2	38.4±7.0
H 0	62.3±3.7	61.4±10.2	85.9±9.2	39.2±7.3
T 100	62.3±4.0	61.4±10.2	89.4±8.3	36.3±7.2
T 200	60.4±4.9	52.5±13.6	91.7±8.8	36.3±8.7

Table of Horizontal DAP of Healthy Cases (%)

T 300	55.6±4.5	33.0±12.6	91.7±8.5	38.9±8.3
T 400	51.7±4.2	23.6±8.5	85.8±11.9	41.8±7.0
T 500	51.1±3.8	27.4±7.5	79.0±11.2	44.1±7.0
T 600	50.4±4.1	30.8±8.9	72.5±10.6	46.4±6.1
T 700	51.7±4.4	36.0±8.7	70.0±8.0	47.9±5.8
T 800	53.0±4.3	38.2±8.9	70.1±7.9	49.8±5.1
T 900	53.6±4.1	40.3±8.4	69.6±7.6	50.3±5.3
T 1000	53.6±4.0	41.3±8.8	68.4±8.3	50.7±5.3
T 1100	53.9±3.5	42.6±8.1	66.9±7.2	51.8±5.4
T 1200	54.6±3.2	43.9±8.0	67.8±7.4	51.8±4.8
T 1300	55.2±3.6	45.1±8.0	68.7±6.8	51.6±4.8
T 1400	54.5±3.6	44.9±7.8	67.3±6.5	50.8±4.8
T 1500	54.1±3.7	43.8±9.9	67.6±6.9	50.7±5.4
T 1600	53.4±3.8	43.1±8.7	66.8±6.7	49.8±5.2
T 1700	52.8±4.0	42.2±9.9	66.7±6.7	48.9±5.7
T 1800	52.2±3.9	41.0±9.1	67.6±5.9	47.8±5.8
T 1900	51.6±4.5	39.1±9.7	68.2±6.6	46.9±5.7
T 2000	51.2±3.9	38.3±9.8	68.5±5.0	46.1±5.6
T 2100	50.2±4.3	39.3±9.5	66.3±6.7	44.4±5.8
T 2200	50.3±4.5	37.1±11.0	68.4±5.8	44.6±5.9
T 2300	50.3±4.5	39.0±10.6	68.3±5.2	42.9±6.3
T 2400	50.0±4.8	38.8±10.9	68.9±5.6	41.7±6.5
T 2500	49.4±4.9	38.8±11.8	67.9±5.8	41.1±6.1
T 2600	49.9±4.7	39.9±12.8	69.2±5.5	39.9±6.7
T 2700	49.7±4.5	40.3±12.5	68.8±5.3	39.2±6.4
T 2800	49.9±4.9	41.3±12.3	69.5±5.5	38.5±6.8
T 2900	49.8±4.9	41.5±13.9	69.7±5.0	37.8±6.4
T 3000	48.7±4.9	38.9±13.9	68.7±5.3	37.9±7.6
T 3100	48.9±5.3	39.3±13.9	69.7±5.3	37.0±7.9
T 3200	48.6±5.5	39.7±14.2	69.9±5.0	35.4±7.4

TABLE S.11. Table of Vertical LAP of Healthy Cases.

Table of Vertical LAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	48.9±4.0	59.6±7.4	31.6±8.4	56.1±10.8
I 3100	48.5±3.7	58.1±7.0	31.6±5.8	54.5±11.5
I 3000	47.9±4.3	57.9±6.1	32.2±7.2	53.9±11.9
I 2900	48.5±4.1	59.2±7.4	33.1±7.1	55.2±10.0
I 2800	48.2±4.0	57.0±7.1	33.3±8.0	52.8±12.4
I 2700	48.1±3.9	57.7±6.9	34.0±7.6	53.8±10.7
I 2600	49.0±3.2	57.8±6.9	35.3±7.8	54.5±9.0
I 2500	48.2±3.9	56.1±6.8	35.0±7.5	52.3±11.2
I 2400	48.2±3.5	58.5±8.6	36.6±7.2	52.1±9.7
I 2300	46.5±4.0	57.0±9.4	34.3±7.9	47.2±13.1
I 2200	47.9±3.8	54.9±7.9	37.2±8.6	49.8±10.2
I 2100	47.2±3.7	55.6±8.7	38.8±8.8	48.1±10.6
I 2000	46.9±4.1	56.3±8.2	38.3±10.3	47.4±10.8
I 1900	46.7±4.9	56.2±8.8	39.7±10.2	43.9±11.8
I 1800	46.7±4.6	53.1±7.8	39.5±11.1	44.7±10.8
I 1700	47.1±3.1	53.2±6.6	41.8±8.5	46.9±7.3
I 1600	46.9±3.2	52.1±8.0	42.0±8.6	45.1±8.1
I 1500	46.3±3.2	50.4±6.6	42.2±9.3	44.3±6.9
I 1400	46.1±2.7	51.2±5.7	43.4±8.1	44.5±6.1
I 1300	45.9±3.0	50.6±6.3	42.9±8.9	43.2±5.8
I 1200	45.6±3.0	50.2±7.3	42.8±8.4	43.1±5.6
I 1100	45.1±3.1	51.6±7.1	41.1±8.3	43.9±6.0
I 1000	45.6±3.1	53.4±8.5	41.0±8.4	44.2±4.9
I 900	45.0±3.5	58.0±7.7	36.5±9.0	45.3±5.4
I 800	45.7±3.2	62.4±8.6	33.6±7.6	46.1±5.2
I 700	47.4±4.1	67.3±8.8	33.4±8.9	47.2±5.6
I 600	48.4±4.2	71.4±7.3	29.9±9.0	49.6±6.0
I 500	49.4±4.3	73.0±8.0	26.8±10.8	52.6±6.7
I 400	47.4±4.1	65.8±10.5	17.5±11.5	54.9±7.5
I 300	43.2±4.0	50.3±12.7	9.2±8.9	57.9±8.1
I 200	39.5±3.5	38.3±12.0	8.3±7.3	61.4±8.9
I 100	37.6±4.2	38.5±9.4	12.5±7.7	61.8±8.5
V 0	38.7±3.9	38.9±11.5	19.2±7.3	58.2±6.7
S 100	37.8±4.0	38.9±11.5	12.7±7.6	61.7±7.4
S 200	39.1±4.0	49.4±12.5	8.1±7.2	61.0±9.9

Table of Vertical LAP of Healthy Cases (%)

S 300	43.5±3.9	67.2±11.2	9.3±8.9	57.9±8.7
S 400	47.4±3.9	73.5±7.8	17.8±11.0	55.0±7.0
S 500	49.7±4.1	71.8±6.9	28.9±11.1	51.1±6.8
S 600	49.6±4.7	68.1±8.2	33.2±9.5	48.9±5.7
S 700	48.0±3.9	64.4±9.3	34.0±8.2	47.1±5.4
S 800	45.6±3.3	59.2±7.6	33.2±8.1	45.0±5.9
S 900	45.3±3.3	55.9±7.3	36.6±9.3	44.1±5.6
S 1000	44.7±3.1	52.1±7.4	38.8±7.7	43.6±4.7
S 1100	44.5±2.7	51.7±6.4	38.4±7.4	43.7±5.0
S 1200	45.2±2.6	52.0±5.6	40.1±7.4	43.8±5.2
S 1300	45.0±3.0	51.7±5.2	39.9±7.2	43.8±5.9
S 1400	45.3±3.3	53.5±4.6	38.7±6.8	43.6±6.4
S 1500	45.3±3.2	52.9±4.8	38.3±8.4	44.8±5.7
S 1600	46.1±3.0	56.0±6.2	37.9±7.6	44.8±6.6
S 1700	45.5±3.3	54.5±6.4	37.3±8.5	44.7±7.1
S 1800	45.9±3.1	56.3±7.7	35.6±7.8	46.2±7.6
S 1900	46.1±3.4	57.0±6.9	35.5±7.7	46.0±9.9
S 2000	45.9±3.6	57.6±8.4	34.5±7.7	45.8±10.2
S 2100	46.7±3.4	57.0±7.3	35.1±8.4	48.1±8.4
S 2200	45.7±3.6	56.8±7.2	33.0±8.1	47.2±10.0
S 2300	45.9±4.1	57.1±7.3	32.7±7.6	47.8±10.4
S 2400	47.1±3.4	57.4±7.3	32.6±7.5	51.1±9.5
S 2500	46.4±3.8	57.2±7.4	32.1±7.7	49.8±10.6
S 2600	46.4±3.4	57.5±7.0	31.5±6.4	50.2±11.0
S 2700	47.2±3.5	57.6±7.5	32.1±7.3	51.9±9.3
S 2800	46.6±4.0	58.2±7.7	31.5±6.9	50.3±12.8
S 2900	46.9±4.3	58.2±7.6	30.3±6.9	52.2±11.6
S 3000	47.7±3.8	59.7±8.6	30.6±6.5	52.8±9.6
S 3100	47.4±3.6	57.0±7.0	30.7±6.6	54.5±10.0
S 3200	47.1±3.7	57.9±8.8	29.1±6.2	54.8±10.6

TABLE S.12. Table of Horizontal LAP of Healthy Cases.

Table of Horizontal LAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	51.0 $\pm$ 4.0	60.9 $\pm$ 8.1	41.7 $\pm$ 8.2	49.7 $\pm$ 9.8
N 3100	50.6 $\pm$ 4.4	59.0 $\pm$ 6.5	40.6 $\pm$ 8.0	50.5 $\pm$ 9.3
N 3000	50.8 $\pm$ 3.3	57.8 $\pm$ 6.7	42.2 $\pm$ 6.9	51.2 $\pm$ 8.2
N 2900	50.6 $\pm$ 3.6	57.0 $\pm$ 5.1	42.8 $\pm$ 7.5	51.2 $\pm$ 8.7
N 2800	50.1 $\pm$ 4.1	55.7 $\pm$ 5.8	41.9 $\pm$ 7.9	51.5 $\pm$ 10.1
N 2700	49.7 $\pm$ 3.6	56.5 $\pm$ 6.3	42.4 $\pm$ 7.8	51.2 $\pm$ 8.4
N 2600	49.7 $\pm$ 3.5	55.8 $\pm$ 6.0	43.0 $\pm$ 8.2	49.8 $\pm$ 8.9
N 2500	49.0 $\pm$ 3.9	54.7 $\pm$ 5.1	42.1 $\pm$ 8.4	48.9 $\pm$ 8.4
N 2400	48.9 $\pm$ 3.6	54.7 $\pm$ 4.8	42.1 $\pm$ 8.3	49.8 $\pm$ 7.6
N 2300	48.8 $\pm$ 3.3	54.3 $\pm$ 5.3	42.2 $\pm$ 7.4	49.5 $\pm$ 7.3
N 2200	48.2 $\pm$ 3.5	53.4 $\pm$ 5.9	41.9 $\pm$ 7.2	48.4 $\pm$ 7.6
N 2100	47.8 $\pm$ 3.4	53.1 $\pm$ 6.7	42.1 $\pm$ 8.2	47.8 $\pm$ 6.7
N 2000	47.0 $\pm$ 3.2	51.7 $\pm$ 6.9	41.3 $\pm$ 7.7	46.7 $\pm$ 6.6
N 1900	46.5 $\pm$ 3.3	50.9 $\pm$ 5.6	41.4 $\pm$ 8.1	46.3 $\pm$ 6.0
N 1800	46.1 $\pm$ 3.2	50.0 $\pm$ 7.5	41.3 $\pm$ 8.2	46.0 $\pm$ 6.2
N 1700	45.6 $\pm$ 3.4	50.4 $\pm$ 5.5	41.1 $\pm$ 7.4	45.7 $\pm$ 5.8
N 1600	45.4 $\pm$ 3.2	49.8 $\pm$ 5.6	39.8 $\pm$ 8.7	45.9 $\pm$ 5.5
N 1500	45.1 $\pm$ 3.2	49.8 $\pm$ 6.6	39.8 $\pm$ 7.8	45.9 $\pm$ 5.5
N 1400	44.5 $\pm$ 2.9	52.4 $\pm$ 6.6	37.6 $\pm$ 7.6	46.1 $\pm$ 5.4
N 1300	44.9 $\pm$ 3.8	53.8 $\pm$ 8.5	36.6 $\pm$ 9.0	45.9 $\pm$ 5.5
N 1200	45.1 $\pm$ 3.7	55.4 $\pm$ 6.9	35.7 $\pm$ 8.4	46.1 $\pm$ 5.8
N 1100	44.8 $\pm$ 3.3	57.6 $\pm$ 7.6	32.2 $\pm$ 8.2	47.0 $\pm$ 5.3
N 1000	45.7 $\pm$ 3.9	59.4 $\pm$ 8.1	32.6 $\pm$ 8.3	47.4 $\pm$ 5.3
N 900	46.5 $\pm$ 4.3	62.0 $\pm$ 8.5	32.3 $\pm$ 8.8	48.6 $\pm$ 5.8
N 800	47.4 $\pm$ 3.9	64.8 $\pm$ 8.8	30.5 $\pm$ 7.5	50.7 $\pm$ 5.8
N 700	48.3 $\pm$ 4.3	69.1 $\pm$ 8.9	29.1 $\pm$ 9.5	52.2 $\pm$ 5.6
N 600	49.1 $\pm$ 3.7	72.4 $\pm$ 9.0	26.4 $\pm$ 10.5	53.7 $\pm$ 6.2
N 500	48.7 $\pm$ 3.7	72.6 $\pm$ 9.7	20.8 $\pm$ 12.3	55.5 $\pm$ 6.6
N 400	47.3 $\pm$ 4.5	63.6 $\pm$ 14.2	15.4 $\pm$ 13.1	57.3 $\pm$ 7.1
N 300	43.4 $\pm$ 4.8	47.2 $\pm$ 14.1	9.5 $\pm$ 9.8	59.7 $\pm$ 8.3
N 200	39.7 $\pm$ 4.3	37.2 $\pm$ 11.9	9.6 $\pm$ 8.4	62.8 $\pm$ 7.9
N 100	37.3 $\pm$ 4.9	37.5 $\pm$ 8.1	12.5 $\pm$ 9.2	61.6 $\pm$ 7.0
H 0	37.7 $\pm$ 3.7	38.6 $\pm$ 10.2	14.1 $\pm$ 9.2	60.8 $\pm$ 7.3
T 100	37.7 $\pm$ 4.0	38.6 $\pm$ 10.2	10.6 $\pm$ 8.3	63.7 $\pm$ 7.2
T 200	39.6 $\pm$ 4.9	47.5 $\pm$ 13.6	8.3 $\pm$ 8.8	63.7 $\pm$ 8.7

Table of Horizontal LAP of Healthy Cases (%)

T 300	44.4±4.5	67.0±12.6	8.3±8.5	61.1±8.3
T 400	48.3±4.2	76.4±8.5	14.2±11.9	58.2±7.0
T 500	48.9±3.8	72.6±7.5	21.0±11.2	55.9±7.0
T 600	49.6±4.1	69.2±8.9	27.5±10.6	53.6±6.1
T 700	48.3±4.4	64.0±8.7	30.0±8.0	52.1±5.8
T 800	47.0±4.3	61.8±8.9	29.9±7.9	50.2±5.1
T 900	46.4±4.1	59.7±8.4	30.4±7.6	49.7±5.3
T 1000	46.4±4.0	58.7±8.8	31.6±8.3	49.3±5.3
T 1100	46.1±3.5	57.4±8.1	33.1±7.2	48.2±5.4
T 1200	45.4±3.2	56.1±8.0	32.2±7.4	48.2±4.8
T 1300	44.8±3.6	54.9±8.0	31.3±6.8	48.4±4.8
T 1400	45.5±3.6	55.1±7.8	32.7±6.5	49.2±4.8
T 1500	45.9±3.7	56.2±9.9	32.4±6.9	49.3±5.4
T 1600	46.6±3.8	56.9±8.7	33.2±6.7	50.2±5.2
T 1700	47.2±4.0	57.8±9.9	33.3±6.7	51.1±5.7
T 1800	47.8±3.9	59.0±9.1	32.4±5.9	52.2±5.8
T 1900	48.4±4.5	60.9±9.7	31.8±6.6	53.1±5.7
T 2000	48.8±3.9	61.7±9.8	31.5±5.0	53.9±5.6
T 2100	49.8±4.3	60.7±9.5	33.7±6.7	55.6±5.8
T 2200	49.7±4.5	62.9±11.0	31.6±5.8	55.4±5.9
T 2300	49.7±4.5	61.0±10.6	31.7±5.2	57.1±6.3
T 2400	50.0±4.8	61.2±10.9	31.1±5.6	58.3±6.5
T 2500	50.6±4.9	61.2±11.8	32.1±5.8	58.9±6.1
T 2600	50.1±4.7	60.1±12.8	30.8±5.5	60.1±6.7
T 2700	50.3±4.5	59.7±12.5	31.2±5.3	60.8±6.4
T 2800	50.1±4.9	58.7±12.3	30.5±5.5	61.5±6.8
T 2900	50.2±4.9	58.5±13.9	30.3±5.0	62.2±6.4
T 3000	51.3±4.9	61.1±13.9	31.3±5.3	62.1±7.6
T 3100	51.1±5.3	60.7±13.9	30.3±5.3	63.0±7.9
T 3200	51.4±5.5	60.3±14.2	30.1±5.0	64.6±7.4

TABLE S.13. Table of Vertical DLR of Healthy Cases.

Table of Vertical DLR of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	1.06±0.17	0.70±0.22	2.37±0.84	0.88±0.57
I 3100	1.07±0.17	0.76±0.32	2.28±0.62	1.37±4.54
I 3000	1.11±0.22	0.75±0.19	2.26±0.74	0.93±0.58
I 2900	1.08±0.19	0.71±0.20	2.16±0.69	0.91±0.63
I 2800	1.09±0.19	0.79±0.28	2.18±0.76	1.17±1.63
I 2700	1.09±0.18	0.75±0.19	2.10±0.74	0.98±0.72
I 2600	1.05±0.14	0.76±0.21	1.99±0.71	0.92±0.60
I 2500	1.09±0.19	0.81±0.22	1.99±0.63	1.11±1.26
I 2400	1.08±0.15	0.75±0.25	1.84±0.57	1.01±0.49
I 2300	1.17±0.20	0.80±0.28	2.07±0.71	1.42±1.29
I 2200	1.10±0.17	0.86±0.30	1.84±0.69	1.16±0.86
I 2100	1.13±0.19	0.84±0.28	1.72±0.68	1.29±1.24
I 2000	1.15±0.21	0.81±0.26	1.86±1.06	1.30±0.94
I 1900	1.17±0.30	0.82±0.26	1.86±1.89	1.78±2.71
I 1800	1.16±0.24	0.92±0.27	1.84±1.35	1.54±1.55
I 1700	1.13±0.15	0.91±0.22	1.51±0.60	1.19±0.41
I 1600	1.14±0.17	0.96±0.28	1.52±0.76	1.40±1.34
I 1500	1.17±0.17	1.02±0.27	1.55±0.97	1.34±0.59
I 1400	1.18±0.13	0.98±0.21	1.44±0.91	1.30±0.40
I 1300	1.19±0.15	1.01±0.26	1.50±1.08	1.36±0.35
I 1200	1.20±0.15	1.03±0.28	1.44±0.55	1.37±0.37
I 1100	1.23±0.15	0.97±0.25	1.54±0.56	1.32±0.35
I 1000	1.20±0.15	0.92±0.30	1.55±0.59	1.29±0.28
I 900	1.23±0.17	0.75±0.23	1.90±0.70	1.24±0.32
I 800	1.20±0.15	0.63±0.23	2.16±0.86	1.20±0.27
I 700	1.13±0.19	0.51±0.21	2.21±0.86	1.15±0.29
I 600	1.08±0.19	0.42±0.15	2.74±1.61	1.05±0.26
I 500	1.04±0.17	0.39±0.16	4.40±8.74	0.93±0.25
I 400	1.12±0.18	0.56±0.27	12.65±27.65	0.86±0.30
I 300	1.33±0.22	1.12±0.55	22.19±32.29	0.76±0.26
I 200	1.55±0.21	1.85±0.80	23.84±29.56	0.67±0.27
I 100	1.69±0.28	1.73±0.59	11.88±12.55	0.68±0.54
V 0	1.61±0.23	1.77±0.73	5.37±3.63	0.74±0.21
S 100	1.68±0.27	1.77±0.73	10.63±9.05	0.64±0.21
S 200	1.58±0.27	1.15±0.54	26.09±37.25	0.69±0.37

Table of Vertical DLR of Healthy Cases

S 300	1.32±0.21	0.54±0.30	21.53±31.50	0.77±0.30
S 400	1.12±0.17	0.38±0.16	10.21±19.20	0.85±0.25
S 500	1.03±0.16	0.41±0.14	3.75±5.37	0.99±0.28
S 600	1.04±0.19	0.49±0.19	2.26±0.90	1.07±0.27
S 700	1.10±0.18	0.59±0.23	2.13±0.82	1.15±0.29
S 800	1.20±0.16	0.72±0.22	2.19±0.79	1.27±0.39
S 900	1.22±0.16	0.82±0.24	1.90±0.72	1.31±0.36
S 1000	1.25±0.15	0.96±0.28	1.69±0.56	1.32±0.28
S 1100	1.25±0.14	0.96±0.23	1.70±0.53	1.32±0.31
S 1200	1.22±0.13	0.94±0.20	1.58±0.50	1.32±0.32
S 1300	1.23±0.16	0.95±0.20	1.60±0.55	1.33±0.37
S 1400	1.22±0.19	0.88±0.16	1.70±0.85	1.37±0.59
S 1500	1.22±0.17	0.91±0.19	1.74±0.63	1.27±0.34
S 1600	1.18±0.14	0.81±0.20	1.75±0.57	1.30±0.46
S 1700	1.21±0.18	0.86±0.23	1.83±0.68	1.31±0.50
S 1800	1.19±0.15	0.81±0.26	1.96±0.74	1.25±0.55
S 1900	1.18±0.17	0.78±0.22	1.95±0.66	1.36±0.96
S 2000	1.19±0.18	0.77±0.25	2.06±0.79	1.38±0.99
S 2100	1.15±0.17	0.79±0.25	2.05±1.04	1.18±0.64
S 2200	1.20±0.18	0.79±0.25	2.21±0.77	1.26±0.70
S 2300	1.20±0.23	0.78±0.26	2.24±0.85	1.28±0.97
S 2400	1.14±0.16	0.77±0.26	2.23±0.73	1.10±1.00
S 2500	1.17±0.19	0.78±0.25	2.32±1.04	1.15±0.74
S 2600	1.17±0.17	0.77±0.23	2.30±0.67	1.20±1.24
S 2700	1.13±0.17	0.77±0.28	2.28±0.79	1.02±0.58
S 2800	1.16±0.20	0.75±0.25	2.32±0.71	1.17±1.09
S 2900	1.15±0.21	0.75±0.23	2.46±0.78	1.13±1.15
S 3000	1.11±0.17	0.71±0.29	2.41±0.75	0.99±0.53
S 3100	1.12±0.17	0.79±0.27	2.40±0.68	0.94±0.64
S 3200	1.14±0.18	0.77±0.29	2.59±0.74	0.93±0.60

TABLE S.14. Table of Horizontal DLR of Healthy Cases.

Table of Horizontal DLR of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
N 3200	0.97±0.17	0.67±0.21	1.49±0.53	1.11±0.53
N 3100	1.00±0.25	0.71±0.19	1.60±0.83	1.07±0.51
N 3000	0.98±0.13	0.75±0.19	1.44±0.47	1.01±0.39
N 2900	0.99±0.15	0.77±0.15	1.41±0.45	1.02±0.44
N 2800	1.01±0.21	0.81±0.18	1.49±0.57	1.06±0.71
N 2700	1.02±0.15	0.79±0.19	1.45±0.51	1.02±0.44
N 2600	1.02±0.15	0.81±0.19	1.42±0.49	1.09±0.48
N 2500	1.05±0.18	0.85±0.19	1.48±0.55	1.12±0.48
N 2400	1.06±0.16	0.84±0.17	1.47±0.50	1.08±0.48
N 2300	1.06±0.14	0.86±0.18	1.45±0.45	1.08±0.42
N 2200	1.09±0.16	0.89±0.21	1.46±0.46	1.14±0.48
N 2100	1.10±0.15	0.91±0.25	1.47±0.51	1.14±0.39
N 2000	1.14±0.15	0.97±0.25	1.51±0.53	1.19±0.40
N 1900	1.16±0.16	0.99±0.23	1.51±0.51	1.20±0.36
N 1800	1.18±0.15	1.05±0.31	1.52±0.51	1.22±0.35
N 1700	1.20±0.17	1.01±0.23	1.51±0.47	1.24±0.39
N 1600	1.21±0.15	1.03±0.24	1.63±0.58	1.22±0.38
N 1500	1.23±0.16	1.04±0.26	1.62±0.55	1.22±0.30
N 1400	1.26±0.15	0.94±0.25	1.77±0.58	1.21±0.33
N 1300	1.24±0.20	0.90±0.29	1.91±0.74	1.22±0.33
N 1200	1.23±0.18	0.83±0.23	1.95±0.69	1.21±0.30
N 1100	1.25±0.16	0.76±0.23	2.28±0.76	1.16±0.27
N 1000	1.20±0.19	0.71±0.23	2.25±0.78	1.14±0.27
N 900	1.17±0.19	0.64±0.24	2.32±0.90	1.09±0.27
N 800	1.12±0.18	0.57±0.23	2.49±0.89	1.00±0.23
N 700	1.09±0.19	0.47±0.20	2.86±1.57	0.94±0.21
N 600	1.05±0.16	0.40±0.19	3.74±3.14	0.89±0.23
N 500	1.07±0.16	0.41±0.21	8.77±13.10	0.83±0.23
N 400	1.13±0.20	0.67±0.44	14.34±20.71	0.78±0.25
N 300	1.33±0.25	1.30±0.64	24.26±38.79	0.71±0.28
N 200	1.55±0.26	1.94±0.85	25.28±42.89	0.62±0.22
N 100	1.72±0.31	1.77±0.48	13.79±15.96	0.64±0.20
H 0	1.68±0.24	1.74±0.62	13.22±21.55	0.67±0.20
T 100	1.68±0.26	1.74±0.62	14.19±14.56	0.59±0.19
T 200	1.56±0.30	1.28±0.63	21.04±30.08	0.60±0.24

Table of Horizontal DLR of Healthy Cases

T 300	1.28±0.24	0.56±0.38	25.74±35.05	0.67±0.24
T 400	1.08±0.18	0.33±0.16	16.55±29.34	0.74±0.22
T 500	1.06±0.16	0.39±0.15	10.42±27.87	0.82±0.24
T 600	1.03±0.17	0.47±0.21	4.77±12.17	0.89±0.22
T 700	1.09±0.20	0.59±0.24	2.65±1.41	0.94±0.23
T 800	1.14±0.20	0.66±0.25	2.58±0.92	1.01±0.22
T 900	1.17±0.20	0.71±0.24	2.49±0.89	1.04±0.26
T 1000	1.17±0.19	0.74±0.25	2.36±0.80	1.05±0.23
T 1100	1.18±0.17	0.78±0.26	2.17±0.69	1.11±0.28
T 1200	1.21±0.15	0.82±0.26	2.27±0.75	1.10±0.22
T 1300	1.25±0.18	0.86±0.27	2.34±0.69	1.09±0.22
T 1400	1.21±0.18	0.86±0.29	2.19±0.70	1.06±0.25
T 1500	1.19±0.18	0.83±0.33	2.22±0.67	1.06±0.25
T 1600	1.16±0.17	0.80±0.33	2.12±0.56	1.02±0.25
T 1700	1.13±0.18	0.79±0.36	2.12±0.60	0.98±0.23
T 1800	1.11±0.17	0.74±0.30	2.17±0.53	0.94±0.22
T 1900	1.08±0.20	0.68±0.26	2.27±0.67	0.91±0.25
T 2000	1.06±0.17	0.66±0.28	2.24±0.49	0.88±0.21
T 2100	1.02±0.18	0.69±0.28	2.09±0.61	0.82±0.23
T 2200	1.03±0.18	0.64±0.29	2.27±0.57	0.83±0.23
T 2300	1.03±0.19	0.69±0.32	2.24±0.55	0.78±0.23
T 2400	1.02±0.19	0.69±0.31	2.31±0.59	0.74±0.21
T 2500	0.99±0.19	0.70±0.35	2.21±0.55	0.72±0.20
T 2600	1.01±0.18	0.74±0.38	2.35±0.58	0.69±0.23
T 2700	1.00±0.18	0.75±0.38	2.30±0.57	0.67±0.20
T 2800	1.02±0.21	0.79±0.42	2.38±0.63	0.65±0.21
T 2900	1.01±0.20	0.81±0.47	2.39±0.54	0.62±0.18
T 3000	0.97±0.19	0.73±0.43	2.29±0.55	0.64±0.22
T 3100	0.98±0.21	0.74±0.43	2.39±0.57	0.62±0.23
T 3200	0.97±0.22	0.77±0.49	2.43±0.69	0.57±0.19

TABLE S.15. Table of Vertical Retinal Mean of Healthy Cases.

Table of Vertical Retinal Mean of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	124.8±10.3	152.3±18.7	80.6±21.3	143.0±27.5
I 3100	123.7±9.4	152.1±18.8	80.5±14.9	138.9±29.4
I 3000	122.0±11.0	148.0±18.0	82.1±18.5	137.5±30.3
I 2900	123.6±10.4	147.7±15.5	84.5±18.2	140.7±25.5
I 2800	122.9±10.3	150.9±18.8	84.9±20.4	134.6±31.6
I 2700	122.7±10.0	145.3±18.2	86.7±19.3	137.3±27.2
I 2600	125.0±8.2	147.2±17.7	90.0±20.0	139.1±22.8
I 2500	122.9±10.0	147.3±17.7	89.2±19.1	133.4±28.6
I 2400	123.0±8.8	143.0±17.4	93.4±18.5	132.8±24.7
I 2300	118.7±10.3	149.1±22.0	87.4±20.3	120.3±33.5
I 2200	122.1±9.8	145.4±24.0	94.8±21.9	127.1±25.9
I 2100	120.4±9.5	140.0±20.1	98.9±22.5	122.6±27.1
I 2000	119.7±10.6	141.9±22.1	97.7±26.4	120.8±27.6
I 1900	119.0±12.5	143.5±20.9	101.1±25.9	111.8±30.0
I 1800	119.2±11.7	143.3±22.3	100.7±28.2	113.9±27.4
I 1700	120.2±8.0	135.5±19.8	106.6±21.8	119.5±18.5
I 1600	119.5±8.3	135.7±16.9	107.1±21.9	115.0±20.6
I 1500	118.1±8.3	132.9±20.3	107.7±23.7	113.0±17.6
I 1400	117.7±7.0	128.5±16.8	110.6±20.6	113.5±15.5
I 1300	117.0±7.7	130.5±14.4	109.4±22.7	110.3±14.8
I 1200	116.2±7.6	129.1±16.0	109.1±21.5	109.9±14.3
I 1100	114.9±7.9	128.0±18.5	104.8±21.1	112.1±15.3
I 1000	116.2±7.8	131.6±18.1	104.6±21.5	112.8±12.5
I 900	114.8±8.8	136.2±21.6	93.1±23.0	115.5±13.8
I 800	116.4±8.1	147.8±19.6	85.7±19.5	117.5±13.2
I 700	120.9±10.5	159.0±22.0	85.3±22.8	120.5±14.3
I 600	123.4±10.6	171.6±22.3	76.2±22.9	126.5±15.3
I 500	126.1±10.9	182.1±18.7	68.2±27.6	134.2±17.0
I 400	120.9±10.4	186.1±20.4	44.6±29.3	140.1±19.2
I 300	110.3±10.3	167.8±26.8	23.4±22.7	147.8±20.6
I 200	100.7±8.9	128.4±32.3	21.1±18.5	156.5±22.6
I 100	95.8±10.7	97.6±30.6	31.8±19.7	157.6±21.8
V 0	98.6±9.8	98.2±23.9	49.0±18.7	148.4±17.2
S 100	96.3±10.1	99.3±29.3	32.4±19.4	157.4±18.9
S 200	99.7±10.2	126.1±31.9	20.8±18.4	155.7±25.3

Table of Vertical Retinal Mean of Healthy Cases (PV)

S 300	111.0±10.0	171.3±28.5	23.7±22.8	147.6±22.3
S 400	120.9±9.9	187.4±19.8	45.3±28.1	140.3±17.9
S 500	126.7±10.4	183.0±17.7	73.6±28.3	130.2±17.4
S 600	126.4±12.0	173.5±20.9	84.6±24.2	124.8±14.6
S 700	122.4±9.8	164.2±23.6	86.6±21.0	120.1±13.8
S 800	116.3±8.5	150.9±19.4	84.7±20.7	114.9±15.2
S 900	115.6±8.5	142.5±18.6	93.4±23.6	112.4±14.2
S 1000	114.0±7.8	132.8±18.9	98.9±19.7	111.2±12.1
S 1100	113.6±6.9	131.7±16.4	97.9±18.8	111.4±12.6
S 1200	115.3±6.7	132.6±14.2	102.2±18.8	111.6±13.3
S 1300	114.9±7.6	131.8±13.3	101.6±18.3	111.6±15.0
S 1400	115.5±8.4	136.5±11.7	98.8±17.4	111.1±16.3
S 1500	115.5±8.2	134.9±12.2	97.7±21.4	114.3±14.5
S 1600	117.7±7.6	142.7±15.9	96.7±19.3	114.2±16.8
S 1700	116.0±8.5	139.1±16.3	95.1±21.8	113.9±18.2
S 1800	117.1±7.9	143.7±19.6	90.7±19.8	117.8±19.5
S 1900	117.5±8.7	145.3±17.7	90.5±19.5	117.4±25.3
S 2000	117.1±9.1	146.8±21.4	88.0±19.8	116.8±25.9
S 2100	119.1±8.7	145.3±18.5	89.6±21.3	122.6±21.4
S 2200	116.5±9.1	144.9±18.4	84.1±20.6	120.3±25.4
S 2300	117.0±10.4	145.7±18.6	83.4±19.4	122.0±26.4
S 2400	120.0±8.7	146.5±18.6	83.1±19.1	130.3±24.2
S 2500	118.3±9.6	145.9±18.8	81.9±19.6	127.0±27.1
S 2600	118.3±8.7	146.7±18.0	80.4±16.4	128.0±28.1
S 2700	120.4±9.0	146.8±19.1	81.9±18.6	132.2±23.7
S 2800	118.8±10.3	148.4±19.6	80.4±17.7	128.2±32.6
S 2900	119.5±10.9	148.5±19.3	77.4±17.7	133.2±29.6
S 3000	121.5±9.6	152.2±22.0	78.2±16.5	134.6±24.5
S 3100	120.8±9.2	145.3±18.0	78.3±16.8	139.0±25.4
S 3200	120.2±9.5	147.7±22.4	74.1±15.7	139.8±27.0

TABLE S.16. Table of Horizontal Retinal Mean of Healthy Cases.

Table of Horizontal Retinal Mean of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	130.1±10.2	155.4±20.8	106.4±21.0	126.7±25.0
N 3100	129.1±11.3	150.5±16.6	103.5±20.3	128.7±23.8
N 3000	129.5±8.3	147.4±17.1	107.7±17.5	130.5±20.9
N 2900	129.0±9.3	145.3±13.0	109.0±19.1	130.7±22.2
N 2800	127.8±10.5	142.0±14.7	106.9±20.1	131.4±25.8
N 2700	126.8±9.2	144.0±16.0	108.1±19.8	130.5±21.4
N 2600	126.8±8.9	142.4±15.3	109.6±20.9	127.0±22.7
N 2500	125.0±10.0	139.5±13.1	107.4±21.5	124.7±21.4
N 2400	124.6±9.2	139.6±12.3	107.4±21.1	127.1±19.5
N 2300	124.4±8.4	138.4±13.6	107.6±19.0	126.3±18.6
N 2200	122.8±9.0	136.2±14.9	106.9±18.5	123.4±19.3
N 2100	121.8±8.5	135.5±17.1	107.4±20.9	121.8±17.0
N 2000	119.9±8.3	131.7±17.5	105.4±19.7	119.2±16.8
N 1900	118.5±8.4	129.9±14.4	105.7±20.5	118.1±15.2
N 1800	117.5±8.1	127.4±19.0	105.2±20.8	117.3±15.7
N 1700	116.3±8.8	128.6±14.1	104.8±18.9	116.4±14.8
N 1600	115.9±8.3	126.9±14.4	101.6±22.3	117.1±14.0
N 1500	115.1±8.1	126.9±16.9	101.4±20.0	116.9±14.0
N 1400	113.4±7.3	133.5±16.9	95.9±19.3	117.5±13.8
N 1300	114.5±9.6	137.2±21.7	93.3±23.0	116.9±14.1
N 1200	115.1±9.4	141.2±17.7	91.1±21.5	117.5±14.7
N 1100	114.1±8.4	147.0±19.4	82.2±20.9	119.8±13.4
N 1000	116.6±10.0	151.6±20.7	83.2±21.2	120.8±13.5
N 900	118.7±10.9	158.2±21.7	82.3±22.6	124.0±14.8
N 800	120.9±10.0	165.2±22.4	77.7±19.2	129.3±14.9
N 700	123.2±10.9	176.2±22.7	74.3±24.2	133.2±14.4
N 600	125.2±9.5	184.6±23.0	67.3±26.7	137.0±15.7
N 500	124.1±9.5	185.0±24.7	53.0±31.4	141.6±16.7
N 400	120.7±11.6	162.1±36.2	39.2±33.4	146.1±18.2
N 300	110.7±12.2	120.3±36.0	24.2±25.1	152.3±21.1
N 200	101.2±10.9	94.8±30.2	24.4±21.4	160.1±20.0
N 100	95.2±12.4	95.6±20.7	31.8±23.5	157.1±17.9
H 0	96.0±9.4	98.5±26.1	36.1±23.4	155.1±18.6
T 100	96.1±10.2	98.5±26.1	27.0±21.1	162.5±18.5
T 200	100.9±12.5	121.1±34.8	21.3±22.4	162.4±22.3

Table of Horizontal Retinal Mean of Healthy Cases (PV)

T 300	113.2±11.5	170.8±32.1	21.1±21.7	155.7±21.1
T 400	123.3±10.7	194.8±21.7	36.1±30.4	148.4±17.9
T 500	124.7±9.7	185.1±19.2	53.4±28.5	142.5±17.8
T 600	126.4±10.6	176.6±22.6	70.3±27.1	136.6±15.5
T 700	123.2±11.2	163.3±22.1	76.6±20.4	132.8±14.7
T 800	119.9±11.1	157.5±22.7	76.2±20.2	128.1±13.0
T 900	118.3±10.4	152.2±21.3	77.6±19.5	126.8±13.6
T 1000	118.2±10.2	149.6±22.5	80.7±21.2	125.6±13.6
T 1100	117.5±8.8	146.4±20.8	84.3±18.3	122.9±13.7
T 1200	115.9±8.1	143.0±20.3	82.2±18.9	122.9±12.3
T 1300	114.3±9.2	139.9±20.4	79.9±17.2	123.4±12.3
T 1400	116.1±9.1	140.4±19.9	83.3±16.5	125.4±12.2
T 1500	117.0±9.4	143.4±25.2	82.7±17.7	125.7±13.8
T 1600	119.0±9.6	145.1±22.3	84.6±17.0	127.9±13.1
T 1700	120.5±10.2	147.3±25.2	84.9±17.0	130.4±14.4
T 1800	121.8±9.8	150.5±23.1	82.7±15.0	133.2±14.7
T 1900	123.5±11.6	155.4±24.6	81.2±16.9	135.5±14.5
T 2000	124.5±10.0	157.2±25.1	80.4±12.6	137.3±14.3
T 2100	127.0±11.0	154.8±24.1	85.9±17.1	141.7±14.9
T 2200	126.8±11.6	160.5±28.0	80.5±14.7	141.3±15.1
T 2300	126.8±11.4	155.6±27.1	80.9±13.3	145.5±16.0
T 2400	127.4±12.2	156.2±27.8	79.4±14.3	148.7±16.6
T 2500	129.0±12.5	156.1±30.1	81.8±14.7	150.3±15.6
T 2600	127.7±11.9	153.2±32.7	78.4±14.0	153.3±17.1
T 2700	128.3±11.5	152.3±31.8	79.5±13.6	154.9±16.3
T 2800	127.6±12.6	149.7±31.4	77.9±14.1	156.9±17.4
T 2900	127.9±12.6	149.2±35.5	77.2±12.8	158.7±16.4
T 3000	130.8±12.6	155.8±35.5	79.8±13.5	158.3±19.3
T 3100	130.2±13.5	154.9±35.5	77.3±13.5	160.5±20.1
T 3200	131.0±13.9	153.8±36.3	76.7±12.8	164.7±19.0

TABLE S.17. Table of Vertical Retinal Standard Deviation of Healthy Cases.

Table of Vertical Retinal Standard Deviation of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	127.2±0.6	123.9±5.6	116.7±7.4	123.8±4.5
I 3100	127.2±0.7	124.9±3.7	117.8±5.8	123.5±9.7
I 3000	127.0±1.4	125.3±3.0	117.8±6.7	123.1±13.1
I 2900	127.1±1.0	124.1±6.1	118.8±6.4	124.5±4.7
I 2800	127.1±1.0	125.2±3.9	118.6±6.7	123.4±8.5
I 2700	127.1±0.8	124.9±6.2	119.4±6.7	124.4±5.2
I 2600	127.3±0.5	125.0±4.4	120.3±6.4	125.2±4.5
I 2500	127.1±1.0	125.6±4.6	120.3±5.8	124.3±7.1
I 2400	127.2±0.5	123.9±6.6	121.7±5.2	125.3±3.6
I 2300	126.9±1.2	124.0±7.8	119.5±6.3	122.9±8.7
I 2200	127.1±0.6	125.5±4.1	121.4±6.0	125.0±5.9
I 2100	127.0±1.0	124.9±6.2	122.4±5.6	124.6±7.6
I 2000	126.9±1.2	124.9±5.7	121.1±8.3	124.4±7.0
I 1900	126.7±2.3	124.6±7.2	122.0±9.7	122.7±11.6
I 1800	126.8±1.6	125.9±4.5	121.3±9.4	123.7±9.7
I 1700	127.1±0.8	126.3±4.9	124.1±4.8	126.2±2.9
I 1600	127.1±1.0	126.0±3.8	124.1±6.0	125.3±7.4
I 1500	127.0±1.0	126.7±2.2	123.8±7.0	125.6±4.7
I 1400	127.0±0.7	126.9±1.8	124.8±5.8	126.0±3.1
I 1300	126.9±0.8	126.7±1.6	124.2±6.6	125.7±2.7
I 1200	126.9±0.8	126.4±2.0	124.5±4.2	125.7±3.0
I 1100	126.7±0.8	126.4±4.1	123.9±4.5	125.9±2.6
I 1000	126.8±0.8	125.6±4.4	123.7±4.8	126.3±2.0
I 900	126.7±0.9	124.6±4.5	120.7±5.9	126.4±2.4
I 800	126.9±0.7	121.7±7.1	118.9±7.5	126.7±1.7
I 700	127.0±0.8	117.5±8.5	118.2±7.6	126.8±1.8
I 600	127.1±0.7	113.6±9.9	114.2±11.0	126.9±1.7
I 500	127.1±0.8	111.1±11.6	108.3±17.7	126.5±1.9
I 400	127.0±0.8	117.9±10.1	87.3±31.1	125.7±2.7
I 300	126.0±1.5	123.6±6.3	63.3±30.7	124.5±4.4
I 200	124.4±1.7	120.4±6.1	63.0±25.6	122.4±5.2
I 100	123.1±2.4	122.1±4.9	78.9±23.3	122.3±5.5
V 0	123.9±1.8	121.2±5.4	97.7±16.0	125.0±3.8
S 100	123.3±2.4	121.2±5.4	79.9±22.4	122.8±5.9
S 200	124.1±2.3	123.8±6.2	61.0±29.0	122.0±5.8

Table of Vertical Retinal Standard Deviation of Healthy Cases (PV)

S 300	126.2±1.3	116.2±11.2	63.2±31.8	124.1±6.6
S 400	127.1±0.6	110.6±11.2	88.7±30.2	125.9±2.9
S 500	127.2±0.6	113.4±9.1	111.0±17.1	126.6±2.0
S 600	127.0±0.8	117.0±9.2	117.6±7.9	126.9±1.4
S 700	127.1±0.7	119.8±9.0	119.0±7.2	126.8±1.8
S 800	126.8±0.7	124.0±4.8	118.4±7.2	126.2±3.1
S 900	126.8±0.9	125.5±2.9	120.7±6.1	126.0±2.8
S 1000	126.6±0.8	126.2±2.7	122.8±4.7	126.1±2.1
S 1100	126.6±0.7	126.6±2.4	122.8±4.5	126.1±2.4
S 1200	126.8±0.7	126.9±1.4	123.7±4.2	126.0±2.5
S 1300	126.7±1.1	127.0±1.0	123.7±4.5	125.8±2.8
S 1400	126.7±1.3	126.9±1.6	123.1±6.1	125.6±4.7
S 1500	126.8±1.0	127.0±1.0	122.3±5.4	126.2±2.6
S 1600	127.0±0.7	125.8±2.7	122.4±4.9	125.9±3.8
S 1700	126.8±1.1	126.2±2.8	121.5±5.9	125.7±4.1
S 1800	126.9±0.8	125.2±4.9	120.6±6.6	125.8±4.4
S 1900	126.9±1.0	125.2±4.0	120.6±5.8	124.7±7.3
S 2000	126.8±1.1	124.3±6.5	119.7±6.9	124.5±7.2
S 2100	127.0±0.9	125.1±4.8	119.9±7.9	125.8±4.7
S 2200	126.8±1.0	125.2±3.1	118.2±6.8	124.9±5.4
S 2300	126.7±1.6	125.1±4.3	118.1±7.4	124.7±7.2
S 2400	127.1±0.7	125.0±4.0	118.1±6.6	125.3±6.3
S 2500	126.9±1.1	125.0±4.2	117.5±7.8	124.8±5.4
S 2600	127.0±0.9	125.0±4.0	117.5±6.3	124.5±7.1
S 2700	127.1±0.7	124.9±3.9	117.7±7.0	125.4±4.4
S 2800	126.9±1.0	124.5±5.3	117.3±6.6	122.8±14.3
S 2900	126.9±1.1	124.5±5.5	116.0±7.0	124.0±7.8
S 3000	127.1±0.7	123.3±6.0	116.5±6.8	125.2±3.9
S 3100	127.1±0.7	125.3±3.5	116.5±6.3	124.7±4.9
S 3200	127.0±0.9	124.0±7.4	114.8±6.8	124.3±4.4

TABLE S.18. Table of Horizontal Retinal Standard Deviation of Healthy Cases.

Table of Horizontal Retinal Standard Deviation of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	127.2 $\pm$ 0.7	122.7 $\pm$ 9.1	124.2 $\pm$ 4.2	125.3 $\pm$ 4.4
N 3100	127.1 $\pm$ 1.8	124.5 $\pm$ 4.3	123.7 $\pm$ 6.3	125.5 $\pm$ 4.2
N 3000	127.3 $\pm$ 0.4	125.0 $\pm$ 5.7	125.0 $\pm$ 3.8	126.0 $\pm$ 3.0
N 2900	127.3 $\pm$ 0.4	125.9 $\pm$ 2.6	125.0 $\pm$ 3.3	125.8 $\pm$ 3.1
N 2800	127.2 $\pm$ 1.3	126.1 $\pm$ 2.8	124.4 $\pm$ 4.7	125.0 $\pm$ 5.5
N 2700	127.3 $\pm$ 0.5	125.6 $\pm$ 5.2	124.7 $\pm$ 4.2	125.9 $\pm$ 3.4
N 2600	127.3 $\pm$ 0.4	126.0 $\pm$ 3.3	124.7 $\pm$ 3.6	125.7 $\pm$ 3.3
N 2500	127.2 $\pm$ 0.7	126.6 $\pm$ 1.6	124.3 $\pm$ 4.3	125.9 $\pm$ 3.4
N 2400	127.2 $\pm$ 0.5	126.6 $\pm$ 1.5	124.4 $\pm$ 3.7	126.2 $\pm$ 3.7
N 2300	127.3 $\pm$ 0.4	126.6 $\pm$ 2.3	124.7 $\pm$ 3.3	126.4 $\pm$ 3.0
N 2200	127.2 $\pm$ 0.7	126.6 $\pm$ 1.9	124.7 $\pm$ 3.5	126.2 $\pm$ 3.5
N 2100	127.2 $\pm$ 0.6	126.4 $\pm$ 2.7	124.4 $\pm$ 3.9	126.5 $\pm$ 2.9
N 2000	127.1 $\pm$ 0.7	126.5 $\pm$ 3.6	124.2 $\pm$ 4.2	126.4 $\pm$ 2.9
N 1900	127.0 $\pm$ 0.8	126.9 $\pm$ 1.7	124.1 $\pm$ 4.1	126.5 $\pm$ 2.7
N 1800	126.9 $\pm$ 0.7	126.3 $\pm$ 2.4	124.0 $\pm$ 4.0	126.4 $\pm$ 2.6
N 1700	126.8 $\pm$ 0.9	127.0 $\pm$ 1.2	124.2 $\pm$ 3.7	126.4 $\pm$ 3.1
N 1600	126.8 $\pm$ 0.7	127.0 $\pm$ 1.2	123.0 $\pm$ 4.8	126.5 $\pm$ 3.0
N 1500	126.7 $\pm$ 0.8	126.6 $\pm$ 2.6	123.4 $\pm$ 4.5	126.5 $\pm$ 2.1
N 1400	126.6 $\pm$ 0.8	126.5 $\pm$ 2.9	122.2 $\pm$ 4.9	126.6 $\pm$ 2.5
N 1300	126.6 $\pm$ 1.3	125.4 $\pm$ 5.3	120.7 $\pm$ 6.5	126.5 $\pm$ 2.4
N 1200	126.6 $\pm$ 0.9	125.8 $\pm$ 3.0	120.4 $\pm$ 6.0	126.5 $\pm$ 1.9
N 1100	126.6 $\pm$ 0.8	124.7 $\pm$ 4.6	117.4 $\pm$ 6.8	126.8 $\pm$ 1.6
N 1000	126.7 $\pm$ 1.0	123.7 $\pm$ 5.4	117.7 $\pm$ 6.9	126.9 $\pm$ 1.9
N 900	126.8 $\pm$ 0.8	122.0 $\pm$ 6.5	117.1 $\pm$ 7.7	126.9 $\pm$ 1.7
N 800	127.0 $\pm$ 0.7	119.8 $\pm$ 7.2	115.8 $\pm$ 8.0	126.9 $\pm$ 1.7
N 700	127.1 $\pm$ 0.7	115.5 $\pm$ 10.3	113.0 $\pm$ 11.3	126.9 $\pm$ 1.2
N 600	127.2 $\pm$ 0.5	111.3 $\pm$ 12.5	108.3 $\pm$ 15.9	126.5 $\pm$ 1.8
N 500	127.2 $\pm$ 0.6	110.6 $\pm$ 13.5	95.2 $\pm$ 26.8	125.9 $\pm$ 2.4
N 400	126.9 $\pm$ 0.8	117.1 $\pm$ 12.2	78.9 $\pm$ 34.3	125.1 $\pm$ 2.9
N 300	125.9 $\pm$ 1.6	122.5 $\pm$ 5.7	61.1 $\pm$ 35.7	123.6 $\pm$ 4.3
N 200	124.4 $\pm$ 2.1	119.7 $\pm$ 6.5	65.8 $\pm$ 29.9	121.9 $\pm$ 5.3
N 100	122.8 $\pm$ 2.6	122.1 $\pm$ 3.7	76.1 $\pm$ 28.3	123.0 $\pm$ 4.8
H 0	123.3 $\pm$ 2.0	121.8 $\pm$ 4.4	81.1 $\pm$ 28.9	123.4 $\pm$ 5.2
T 100	123.3 $\pm$ 2.2	121.8 $\pm$ 4.4	70.5 $\pm$ 28.0	121.5 $\pm$ 5.4
T 200	124.2 $\pm$ 2.4	122.8 $\pm$ 5.4	59.2 $\pm$ 31.6	120.8 $\pm$ 6.3

Table of Horizontal Retinal Standard Deviation of Healthy Cases (PV)

T 300	126.3±1.5	115.4±11.6	58.7±32.5	122.7±6.3
T 400	127.1±0.7	105.5±14.6	76.4±34.6	124.8±3.9
T 500	127.2±0.5	112.0±10.3	96.4±26.9	125.7±2.6
T 600	127.2±0.6	115.4±10.0	109.6±17.1	126.5±1.8
T 700	127.0±0.8	120.5±6.7	115.0±10.1	126.8±1.4
T 800	126.9±1.0	122.0±6.1	114.9±8.4	127.1±1.1
T 900	126.8±1.1	123.4±5.3	115.7±7.8	127.1±1.7
T 1000	126.8±0.8	123.7±6.3	116.8±7.0	127.0±1.0
T 1100	126.9±0.9	124.6±4.3	118.7±6.3	127.0±1.8
T 1200	126.8±0.7	125.2±3.8	117.7±6.7	127.1±1.0
T 1300	126.6±0.9	125.5±3.8	117.1±6.4	127.1±1.0
T 1400	126.8±1.0	125.5±3.0	118.6±6.3	127.2±1.6
T 1500	126.8±0.9	124.2±5.5	118.2±6.1	127.0±1.5
T 1600	126.9±0.8	124.5±5.0	119.0±5.0	127.1±1.4
T 1700	127.0±0.8	123.6±5.7	119.1±5.5	126.9±1.2
T 1800	127.1±0.6	123.4±6.4	118.6±5.0	126.8±1.3
T 1900	127.0±0.7	122.0±8.0	117.7±6.1	126.7±1.6
T 2000	127.2±0.6	121.5±7.2	118.0±4.7	126.6±1.7
T 2100	127.1±0.7	122.3±6.9	119.5±5.6	126.1±2.1
T 2200	127.1±0.6	119.9±9.5	117.8±5.4	126.2±1.9
T 2300	127.1±0.7	121.4±8.8	118.1±5.2	125.5±2.1
T 2400	127.0±0.9	121.1±8.4	117.4±5.4	124.9±3.0
T 2500	127.0±0.7	120.6±8.9	118.3±5.2	124.8±2.7
T 2600	127.1±0.7	120.4±11.5	117.0±5.5	124.0±3.4
T 2700	127.1±0.7	120.9±10.7	117.5±5.4	123.8±3.3
T 2800	127.0±0.8	121.7±7.2	116.8±5.9	123.1±4.0
T 2900	127.0±0.8	120.4±10.6	116.7±5.1	122.8±4.4
T 3000	127.0±0.9	118.9±11.8	117.7±5.3	122.5±4.7
T 3100	126.9±0.8	119.1±12.5	116.6±5.4	121.8±4.9
T 3200	126.8±0.8	119.3±10.5	116.4±6.0	120.7±6.1

TABLE S.19. Table of Vertical Retinal Skewness of Healthy Cases.

Table of Vertical Retinal Skewness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.04±0.16	-0.41±0.36	0.83±0.41	-0.25±0.47
I 3100	0.06±0.15	-0.33±0.31	0.81±0.30	-0.13±0.82
I 3000	0.09±0.18	-0.33±0.26	0.79±0.36	-0.18±0.46
I 2900	0.06±0.17	-0.39±0.36	0.74±0.35	-0.21±0.45
I 2800	0.07±0.16	-0.29±0.32	0.74±0.39	-0.09±0.64
I 2700	0.08±0.16	-0.33±0.36	0.71±0.37	-0.15±0.48
I 2600	0.04±0.13	-0.33±0.31	0.64±0.37	-0.18±0.40
I 2500	0.07±0.16	-0.26±0.32	0.65±0.35	-0.08±0.56
I 2400	0.07±0.14	-0.37±0.41	0.58±0.33	-0.08±0.41
I 2300	0.14±0.17	-0.32±0.48	0.69±0.38	0.15±0.64
I 2200	0.08±0.15	-0.21±0.35	0.56±0.40	0.02±0.47
I 2100	0.11±0.15	-0.25±0.42	0.48±0.40	0.10±0.53
I 2000	0.12±0.17	-0.27±0.39	0.53±0.51	0.13±0.51
I 1900	0.14±0.21	-0.28±0.44	0.48±0.58	0.32±0.73
I 1800	0.13±0.19	-0.14±0.35	0.48±0.57	0.26±0.58
I 1700	0.12±0.13	-0.14±0.33	0.35±0.38	0.13±0.31
I 1600	0.13±0.13	-0.09±0.35	0.35±0.40	0.22±0.45
I 1500	0.15±0.13	-0.02±0.28	0.34±0.46	0.24±0.32
I 1400	0.16±0.11	-0.05±0.24	0.29±0.40	0.23±0.26
I 1300	0.17±0.12	-0.03±0.26	0.31±0.45	0.28±0.25
I 1200	0.18±0.12	-0.01±0.30	0.31±0.37	0.29±0.24
I 1100	0.20±0.13	-0.07±0.32	0.38±0.36	0.25±0.25
I 1000	0.18±0.12	-0.15±0.37	0.38±0.37	0.24±0.21
I 900	0.20±0.14	-0.34±0.34	0.59±0.41	0.19±0.23
I 800	0.18±0.13	-0.54±0.41	0.73±0.39	0.16±0.21
I 700	0.10±0.17	-0.78±0.45	0.74±0.43	0.11±0.23
I 600	0.07±0.17	-1.00±0.45	0.95±0.54	0.02±0.25
I 500	0.02±0.17	-1.11±0.54	1.26±1.10	-0.11±0.28
I 400	0.10±0.16	-0.73±0.56	2.37±2.32	-0.20±0.32
I 300	0.28±0.17	-0.03±0.57	3.63±2.71	-0.34±0.36
I 200	0.43±0.15	0.52±0.54	4.02±2.43	-0.49±0.39
I 100	0.52±0.18	0.49±0.42	2.77±1.55	-0.50±0.40
V 0	0.47±0.16	0.48±0.51	1.74±0.78	-0.34±0.30
S 100	0.51±0.17	0.48±0.51	2.66±1.33	-0.50±0.36
S 200	0.45±0.17	0.01±0.56	3.98±2.93	-0.48±0.45

Table of Vertical Retinal Skewness of Healthy Cases

S 300	0.26±0.16	-0.81±0.61	3.55±2.70	-0.34±0.43
S 400	0.10±0.16	-1.14±0.52	2.20±1.92	-0.21±0.30
S 500	0.01±0.17	-1.01±0.42	1.12±0.98	-0.04±0.28
S 600	0.02±0.19	-0.82±0.45	0.76±0.46	0.04±0.23
S 700	0.08±0.16	-0.65±0.48	0.71±0.41	0.12±0.22
S 800	0.18±0.14	-0.39±0.34	0.75±0.40	0.21±0.26
S 900	0.19±0.14	-0.25±0.31	0.59±0.42	0.25±0.24
S 1000	0.21±0.12	-0.09±0.31	0.48±0.34	0.26±0.20
S 1100	0.22±0.11	-0.07±0.27	0.49±0.33	0.26±0.21
S 1200	0.19±0.11	-0.08±0.23	0.42±0.32	0.26±0.22
S 1300	0.20±0.12	-0.07±0.21	0.43±0.32	0.26±0.25
S 1400	0.19±0.14	-0.14±0.19	0.48±0.35	0.27±0.30
S 1500	0.19±0.13	-0.12±0.19	0.50±0.38	0.21±0.24
S 1600	0.16±0.12	-0.25±0.26	0.52±0.34	0.22±0.29
S 1700	0.18±0.14	-0.19±0.27	0.55±0.39	0.23±0.32
S 1800	0.16±0.13	-0.27±0.35	0.63±0.38	0.16±0.34
S 1900	0.16±0.14	-0.29±0.31	0.63±0.36	0.19±0.48
S 2000	0.17±0.15	-0.33±0.41	0.68±0.38	0.20±0.49
S 2100	0.13±0.14	-0.29±0.33	0.66±0.44	0.09±0.38
S 2200	0.17±0.15	-0.28±0.31	0.76±0.39	0.13±0.45
S 2300	0.17±0.17	-0.30±0.33	0.77±0.39	0.11±0.50
S 2400	0.12±0.14	-0.31±0.32	0.77±0.37	-0.03±0.47
S 2500	0.15±0.15	-0.30±0.33	0.81±0.41	0.02±0.48
S 2600	0.15±0.14	-0.32±0.31	0.82±0.32	0.01±0.54
S 2700	0.11±0.14	-0.32±0.33	0.80±0.37	-0.07±0.41
S 2800	0.14±0.16	-0.35±0.36	0.82±0.35	-0.01±0.56
S 2900	0.13±0.17	-0.35±0.36	0.89±0.36	-0.07±0.57
S 3000	0.09±0.15	-0.42±0.40	0.87±0.34	-0.11±0.42
S 3100	0.11±0.15	-0.29±0.31	0.86±0.33	-0.18±0.45
S 3200	0.12±0.15	-0.35±0.46	0.95±0.33	-0.20±0.46

TABLE S.20. Table of Horizontal Retinal Skewness of Healthy Cases.

Table of Horizontal Retinal Skewness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	-0.04±0.16	-0.49±0.49	0.35±0.36	0.02±0.43
N 3100	-0.02±0.19	-0.38±0.29	0.41±0.39	-0.01±0.41
N 3000	-0.03±0.13	-0.33±0.34	0.33±0.30	-0.05±0.35
N 2900	-0.02±0.15	-0.29±0.22	0.30±0.32	-0.05±0.37
N 2800	0.00±0.17	-0.24±0.25	0.34±0.35	-0.05±0.46
N 2700	0.01±0.14	-0.28±0.32	0.32±0.34	-0.05±0.36
N 2600	0.01±0.14	-0.24±0.26	0.30±0.35	0.01±0.38
N 2500	0.04±0.16	-0.19±0.21	0.34±0.37	0.05±0.36
N 2400	0.05±0.15	-0.19±0.20	0.33±0.35	0.01±0.33
N 2300	0.05±0.13	-0.18±0.23	0.33±0.32	0.02±0.31
N 2200	0.07±0.14	-0.14±0.24	0.34±0.31	0.07±0.33
N 2100	0.09±0.14	-0.13±0.28	0.33±0.35	0.09±0.28
N 2000	0.12±0.13	-0.07±0.30	0.37±0.34	0.14±0.28
N 1900	0.14±0.13	-0.04±0.23	0.36±0.35	0.15±0.25
N 1800	0.16±0.13	0.00±0.31	0.37±0.35	0.17±0.26
N 1700	0.18±0.14	-0.02±0.23	0.37±0.32	0.18±0.25
N 1600	0.18±0.13	0.01±0.23	0.43±0.39	0.17±0.24
N 1500	0.20±0.13	0.01±0.28	0.44±0.35	0.17±0.23
N 1400	0.22±0.12	-0.10±0.28	0.53±0.34	0.16±0.23
N 1300	0.21±0.16	-0.17±0.39	0.59±0.42	0.17±0.23
N 1200	0.20±0.15	-0.22±0.29	0.62±0.39	0.16±0.24
N 1100	0.21±0.13	-0.32±0.34	0.79±0.39	0.12±0.22
N 1000	0.17±0.16	-0.40±0.37	0.78±0.40	0.11±0.22
N 900	0.14±0.17	-0.52±0.40	0.80±0.44	0.06±0.24
N 800	0.10±0.16	-0.66±0.42	0.89±0.40	-0.03±0.24
N 700	0.07±0.17	-0.89±0.51	1.00±0.56	-0.09±0.23
N 600	0.04±0.15	-1.09±0.59	1.23±0.79	-0.15±0.25
N 500	0.05±0.15	-1.12±0.66	2.03±1.72	-0.23±0.27
N 400	0.11±0.18	-0.66±0.74	2.71±2.32	-0.30±0.30
N 300	0.27±0.20	0.11±0.62	3.57±3.17	-0.41±0.36
N 200	0.43±0.18	0.57±0.54	3.75±3.08	-0.55±0.36
N 100	0.53±0.21	0.53±0.36	2.90±1.91	-0.49±0.32
H 0	0.51±0.16	0.49±0.44	2.67±2.10	-0.46±0.33
T 100	0.51±0.17	0.49±0.44	3.03±1.81	-0.59±0.34
T 200	0.43±0.21	0.10±0.60	3.52±2.66	-0.60±0.40

Table of Horizontal Retinal Skewness of Healthy Cases

T 300	0.23±0.19	-0.82±0.67	3.87±3.04	-0.48±0.40
T 400	0.07±0.17	-1.37±0.69	2.86±2.60	-0.34±0.31
T 500	0.04±0.15	-1.07±0.47	1.99±2.19	-0.24±0.29
T 600	0.02±0.17	-0.89±0.50	1.23±1.30	-0.15±0.25
T 700	0.07±0.18	-0.62±0.41	0.93±0.48	-0.08±0.24
T 800	0.12±0.18	-0.51±0.41	0.92±0.42	-0.01±0.21
T 900	0.15±0.17	-0.42±0.38	0.89±0.40	0.01±0.22
T 1000	0.15±0.16	-0.38±0.42	0.83±0.40	0.03±0.22
T 1100	0.16±0.14	-0.31±0.36	0.75±0.35	0.08±0.22
T 1200	0.18±0.13	-0.26±0.34	0.79±0.37	0.07±0.20
T 1300	0.21±0.15	-0.21±0.34	0.83±0.34	0.07±0.20
T 1400	0.18±0.15	-0.21±0.33	0.76±0.33	0.03±0.20
T 1500	0.17±0.15	-0.27±0.44	0.78±0.34	0.03±0.22
T 1600	0.14±0.15	-0.29±0.39	0.73±0.31	-0.01±0.21
T 1700	0.11±0.16	-0.34±0.44	0.73±0.32	-0.05±0.23
T 1800	0.09±0.16	-0.39±0.43	0.77±0.28	-0.09±0.24
T 1900	0.06±0.18	-0.49±0.47	0.80±0.33	-0.13±0.24
T 2000	0.05±0.16	-0.52±0.46	0.81±0.24	-0.16±0.23
T 2100	0.01±0.18	-0.47±0.44	0.71±0.32	-0.23±0.24
T 2200	0.01±0.18	-0.59±0.55	0.81±0.28	-0.22±0.25
T 2300	0.01±0.18	-0.50±0.53	0.80±0.26	-0.29±0.26
T 2400	0.00±0.19	-0.51±0.53	0.83±0.28	-0.34±0.28
T 2500	-0.02±0.20	-0.51±0.57	0.79±0.28	-0.37±0.26
T 2600	0.00±0.19	-0.49±0.70	0.85±0.28	-0.42±0.29
T 2700	-0.01±0.18	-0.47±0.67	0.83±0.27	-0.45±0.28
T 2800	0.00±0.20	-0.39±0.56	0.87±0.29	-0.49±0.30
T 2900	-0.01±0.20	-0.41±0.70	0.88±0.26	-0.52±0.29
T 3000	-0.05±0.20	-0.54±0.72	0.82±0.27	-0.52±0.34
T 3100	-0.04±0.21	-0.53±0.78	0.88±0.27	-0.56±0.35
T 3200	-0.06±0.22	-0.49±0.71	0.89±0.28	-0.63±0.36

TABLE S.21. Table of Vertical Retinal Kurtosis of Healthy Cases.

Table of Vertical Retinal Kurtosis of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	-1.97±0.04	-1.70±0.60	-1.14±0.66	-1.72±0.36
I 3100	-1.97±0.04	-1.79±0.29	-1.25±0.50	-1.32±4.39
I 3000	-1.96±0.09	-1.82±0.22	-1.24±0.58	-1.74±0.37
I 2900	-1.97±0.06	-1.72±0.56	-1.33±0.54	-1.76±0.43
I 2800	-1.97±0.06	-1.82±0.33	-1.30±0.58	-1.58±1.42
I 2700	-1.97±0.06	-1.76±0.67	-1.37±0.57	-1.75±0.48
I 2600	-1.98±0.03	-1.80±0.37	-1.45±0.53	-1.81±0.43
I 2500	-1.97±0.07	-1.83±0.48	-1.45±0.46	-1.69±1.07
I 2400	-1.98±0.04	-1.69±0.62	-1.56±0.40	-1.82±0.27
I 2300	-1.95±0.08	-1.68±0.88	-1.38±0.52	-1.58±1.00
I 2200	-1.97±0.04	-1.84±0.31	-1.54±0.49	-1.78±0.64
I 2100	-1.96±0.07	-1.77±0.66	-1.61±0.47	-1.71±1.04
I 2000	-1.96±0.08	-1.78±0.59	-1.47±0.85	-1.73±0.70
I 1900	-1.94±0.17	-1.73±0.79	-1.44±1.75	-1.37±2.54
I 1800	-1.95±0.11	-1.86±0.48	-1.45±1.14	-1.59±1.35
I 1700	-1.97±0.05	-1.87±0.61	-1.74±0.38	-1.89±0.21
I 1600	-1.97±0.07	-1.87±0.30	-1.72±0.58	-1.75±1.20
I 1500	-1.96±0.07	-1.92±0.16	-1.68±0.79	-1.84±0.44
I 1400	-1.96±0.04	-1.94±0.13	-1.76±0.76	-1.88±0.23
I 1300	-1.96±0.05	-1.93±0.11	-1.71±0.93	-1.86±0.19
I 1200	-1.95±0.05	-1.91±0.14	-1.77±0.33	-1.86±0.22
I 1100	-1.94±0.05	-1.89±0.42	-1.73±0.34	-1.87±0.19
I 1000	-1.95±0.05	-1.84±0.36	-1.71±0.38	-1.90±0.14
I 900	-1.94±0.06	-1.77±0.34	-1.49±0.48	-1.91±0.17
I 800	-1.95±0.05	-1.54±0.62	-1.32±0.71	-1.93±0.12
I 700	-1.96±0.05	-1.18±0.82	-1.26±0.66	-1.93±0.13
I 600	-1.97±0.05	-0.79±1.13	-0.81±1.47	-1.94±0.12
I 500	-1.97±0.05	-0.48±1.58	0.80±8.68	-1.91±0.13
I 400	-1.96±0.05	-1.16±1.17	9.01±27.50	-1.86±0.19
I 300	-1.90±0.10	-1.67±0.59	18.60±32.11	-1.76±0.35
I 200	-1.79±0.11	-1.45±0.50	20.04±29.57	-1.61±0.40
I 100	-1.70±0.17	-1.59±0.37	8.07±12.45	-1.59±0.50
V 0	-1.75±0.13	-1.51±0.43	1.62±3.54	-1.80±0.30
S 100	-1.71±0.17	-1.51±0.43	6.83±8.94	-1.62±0.59
S 200	-1.77±0.16	-1.69±0.53	22.46±37.13	-1.57±0.48

Table of Vertical Retinal Kurtosis of Healthy Cases

S 300	-1.90±0.09	-0.98±1.33	17.99±31.38	-1.70±0.84
S 400	-1.96±0.04	-0.43±1.66	6.58±19.18	-1.87±0.22
S 500	-1.97±0.04	-0.80±1.04	0.19±5.25	-1.92±0.14
S 600	-1.96±0.05	-1.12±0.94	-1.21±0.69	-1.94±0.09
S 700	-1.97±0.05	-1.35±0.87	-1.33±0.65	-1.94±0.13
S 800	-1.95±0.05	-1.73±0.38	-1.28±0.62	-1.89±0.24
S 900	-1.95±0.06	-1.85±0.21	-1.48±0.50	-1.88±0.21
S 1000	-1.94±0.05	-1.90±0.19	-1.65±0.36	-1.89±0.15
S 1100	-1.94±0.05	-1.92±0.18	-1.65±0.34	-1.89±0.17
S 1200	-1.95±0.05	-1.94±0.10	-1.72±0.31	-1.89±0.18
S 1300	-1.94±0.07	-1.95±0.07	-1.71±0.38	-1.87±0.21
S 1400	-1.94±0.09	-1.94±0.11	-1.64±0.73	-1.84±0.45
S 1500	-1.95±0.07	-1.95±0.07	-1.61±0.43	-1.90±0.19
S 1600	-1.96±0.05	-1.87±0.20	-1.62±0.39	-1.87±0.30
S 1700	-1.95±0.07	-1.89±0.23	-1.54±0.48	-1.85±0.32
S 1800	-1.96±0.05	-1.81±0.43	-1.46±0.57	-1.86±0.36
S 1900	-1.96±0.07	-1.82±0.32	-1.47±0.49	-1.74±0.74
S 2000	-1.95±0.07	-1.73±0.65	-1.39±0.63	-1.72±0.77
S 2100	-1.96±0.06	-1.80±0.40	-1.38±0.88	-1.85±0.45
S 2200	-1.95±0.06	-1.83±0.22	-1.27±0.59	-1.79±0.45
S 2300	-1.94±0.11	-1.81±0.34	-1.25±0.70	-1.74±0.73
S 2400	-1.97±0.05	-1.80±0.32	-1.27±0.57	-1.78±0.82
S 2500	-1.96±0.07	-1.80±0.35	-1.18±0.91	-1.77±0.48
S 2600	-1.96±0.06	-1.81±0.31	-1.22±0.53	-1.71±1.04
S 2700	-1.97±0.05	-1.79±0.33	-1.23±0.64	-1.83±0.37
S 2800	-1.95±0.07	-1.75±0.49	-1.20±0.56	-1.67±0.85
S 2900	-1.95±0.07	-1.75±0.54	-1.09±0.64	-1.67±0.91
S 3000	-1.97±0.04	-1.66±0.57	-1.13±0.62	-1.82±0.29
S 3100	-1.97±0.05	-1.82±0.28	-1.14±0.55	-1.77±0.42
S 3200	-1.96±0.06	-1.67±1.02	-0.99±0.62	-1.75±0.37

TABLE S.22. Table of Horizontal Retinal Kurtosis of Healthy Cases.

Table of Horizontal Retinal Kurtosis of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	-1.97±0.05	-1.52±1.47	-1.75±0.31	-1.82±0.33
N 3100	-1.96±0.14	-1.77±0.34	-1.69±0.68	-1.84±0.32
N 3000	-1.98±0.02	-1.77±0.67	-1.80±0.30	-1.88±0.22
N 2900	-1.98±0.03	-1.87±0.19	-1.81±0.24	-1.86±0.22
N 2800	-1.97±0.10	-1.88±0.21	-1.76±0.37	-1.79±0.50
N 2700	-1.98±0.03	-1.82±0.63	-1.78±0.31	-1.87±0.25
N 2600	-1.98±0.03	-1.87±0.26	-1.79±0.26	-1.86±0.25
N 2500	-1.97±0.05	-1.92±0.11	-1.75±0.33	-1.87±0.26
N 2400	-1.98±0.03	-1.92±0.10	-1.76±0.27	-1.89±0.29
N 2300	-1.98±0.03	-1.92±0.17	-1.79±0.24	-1.90±0.23
N 2200	-1.97±0.05	-1.92±0.13	-1.79±0.26	-1.89±0.28
N 2100	-1.97±0.04	-1.90±0.20	-1.77±0.29	-1.91±0.22
N 2000	-1.97±0.04	-1.90±0.33	-1.75±0.33	-1.90±0.22
N 1900	-1.96±0.05	-1.94±0.12	-1.75±0.30	-1.91±0.20
N 1800	-1.96±0.04	-1.90±0.17	-1.74±0.30	-1.91±0.19
N 1700	-1.95±0.06	-1.95±0.08	-1.76±0.27	-1.90±0.24
N 1600	-1.95±0.05	-1.95±0.08	-1.67±0.36	-1.91±0.24
N 1500	-1.95±0.05	-1.92±0.21	-1.69±0.35	-1.92±0.14
N 1400	-1.94±0.05	-1.91±0.22	-1.60±0.39	-1.92±0.18
N 1300	-1.93±0.09	-1.82±0.51	-1.48±0.53	-1.92±0.18
N 1200	-1.94±0.06	-1.86±0.21	-1.46±0.48	-1.92±0.13
N 1100	-1.94±0.05	-1.78±0.38	-1.22±0.58	-1.94±0.11
N 1000	-1.94±0.07	-1.70±0.45	-1.24±0.59	-1.94±0.13
N 900	-1.95±0.05	-1.56±0.56	-1.17±0.71	-1.94±0.12
N 800	-1.96±0.04	-1.39±0.63	-1.05±0.74	-1.94±0.12
N 700	-1.97±0.04	-0.94±1.27	-0.70±1.41	-1.94±0.08
N 600	-1.98±0.03	-0.46±1.73	0.13±2.99	-1.91±0.12
N 500	-1.97±0.04	-0.32±2.08	5.06±12.99	-1.87±0.17
N 400	-1.95±0.05	-1.01±1.50	10.76±20.49	-1.82±0.21
N 300	-1.89±0.11	-1.60±0.48	20.89±38.55	-1.70±0.33
N 200	-1.79±0.14	-1.39±0.57	21.61±42.76	-1.57±0.42
N 100	-1.67±0.18	-1.59±0.28	10.07±15.81	-1.66±0.36
H 0	-1.71±0.14	-1.57±0.34	9.54±21.52	-1.68±0.41
T 100	-1.71±0.15	-1.57±0.34	10.52±14.33	-1.54±0.43
T 200	-1.77±0.16	-1.63±0.44	17.62±29.90	-1.48±0.52

Table of Horizontal Retinal Kurtosis of Healthy Cases

T 300	-1.91±0.10	-0.89±1.44	22.29±34.89	-1.61±0.63
T 400	-1.97±0.04	0.36±2.64	12.98±29.14	-1.79±0.31
T 500	-1.97±0.03	-0.63±1.24	6.73±27.70	-1.86±0.18
T 600	-1.97±0.04	-0.96±1.09	1.18±12.13	-1.92±0.13
T 700	-1.96±0.05	-1.45±0.59	-0.91±1.28	-1.94±0.10
T 800	-1.95±0.06	-1.57±0.50	-0.98±0.76	-1.96±0.07
T 900	-1.95±0.07	-1.69±0.41	-1.05±0.73	-1.95±0.12
T 1000	-1.95±0.05	-1.69±0.62	-1.16±0.61	-1.95±0.07
T 1100	-1.96±0.06	-1.78±0.33	-1.32±0.53	-1.95±0.13
T 1200	-1.95±0.05	-1.82±0.28	-1.24±0.59	-1.96±0.06
T 1300	-1.93±0.06	-1.84±0.28	-1.19±0.55	-1.96±0.07
T 1400	-1.95±0.06	-1.85±0.21	-1.31±0.56	-1.96±0.12
T 1500	-1.95±0.06	-1.73±0.44	-1.28±0.52	-1.95±0.10
T 1600	-1.96±0.05	-1.76±0.40	-1.37±0.41	-1.96±0.10
T 1700	-1.96±0.05	-1.69±0.47	-1.37±0.45	-1.95±0.08
T 1800	-1.97±0.04	-1.66±0.63	-1.33±0.40	-1.94±0.08
T 1900	-1.96±0.05	-1.54±0.77	-1.25±0.53	-1.93±0.11
T 2000	-1.97±0.04	-1.52±0.62	-1.29±0.38	-1.92±0.12
T 2100	-1.97±0.05	-1.58±0.61	-1.39±0.46	-1.89±0.14
T 2200	-1.97±0.04	-1.35±0.92	-1.26±0.45	-1.89±0.13
T 2300	-1.97±0.04	-1.47±0.96	-1.29±0.44	-1.85±0.14
T 2400	-1.96±0.06	-1.47±0.78	-1.23±0.47	-1.80±0.21
T 2500	-1.96±0.05	-1.41±0.87	-1.30±0.42	-1.80±0.19
T 2600	-1.96±0.05	-1.28±1.74	-1.20±0.47	-1.74±0.24
T 2700	-1.97±0.04	-1.34±1.60	-1.24±0.46	-1.72±0.24
T 2800	-1.96±0.05	-1.53±0.65	-1.17±0.52	-1.67±0.31
T 2900	-1.96±0.06	-1.34±1.22	-1.17±0.44	-1.65±0.33
T 3000	-1.96±0.06	-1.20±1.32	-1.25±0.44	-1.62±0.36
T 3100	-1.95±0.05	-1.12±2.06	-1.16±0.46	-1.57±0.37
T 3200	-1.95±0.05	-1.25±1.28	-1.13±0.60	-1.47±0.52

TABLE S.23. Table of Vertical Retinal Perimeter of Healthy Cases.

Table of Vertical Retinal Perimeter of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	153.8±9.7	62.6±3.2	63.0±3.7	60.5±3.7
I 3100	154.7±9.6	62.9±3.3	63.4±3.6	60.9±3.6
I 3000	155.8±9.7	63.5±3.4	63.8±3.7	61.1±3.6
I 2900	156.9±9.9	64.0±3.3	64.2±3.8	61.3±3.5
I 2800	158.3±10.0	64.6±3.3	64.8±3.7	61.6±3.6
I 2700	160.1±10.1	65.3±3.4	65.2±3.7	62.2±3.6
I 2600	162.1±10.3	66.0±3.3	65.9±3.7	62.9±3.7
I 2500	164.2±10.5	66.6±3.5	66.6±3.6	63.7±3.9
I 2400	166.6±10.5	67.5±3.4	67.3±3.8	64.8±3.9
I 2300	169.2±10.5	68.4±3.5	68.2±3.6	65.6±4.1
I 2200	172.0±10.7	69.1±3.6	69.2±3.8	66.4±4.0
I 2100	174.7±11.0	70.1±3.6	69.9±3.8	67.7±4.1
I 2000	177.8±11.0	71.0±3.6	71.2±3.7	68.4±4.0
I 1900	181.2±11.0	72.4±3.7	72.0±3.7	70.1±3.8
I 1800	184.4±11.0	73.4±3.6	73.3±3.7	70.6±3.7
I 1700	187.6±11.0	74.4±3.7	74.2±3.6	71.9±3.9
I 1600	190.7±11.0	75.4±3.7	75.3±3.6	72.9±3.9
I 1500	193.5±10.8	76.2±3.6	76.0±3.6	73.8±3.7
I 1400	195.8±10.5	76.8±3.4	76.7±3.6	74.6±3.6
I 1300	197.3±10.2	77.0±3.3	77.2±3.3	75.1±3.7
I 1200	198.0±10.0	76.8±3.4	77.4±3.3	75.4±3.6
I 1100	197.9±10.0	76.1±3.6	77.6±3.4	75.3±3.6
I 1000	196.5±10.1	74.8±3.7	77.3±3.5	75.1±3.5
I 900	193.8±10.3	73.2±3.9	76.5±3.5	74.3±3.5
I 800	189.7±10.8	70.9±4.1	75.3±3.6	73.2±3.6
I 700	184.3±11.5	68.4±4.4	73.6±3.8	71.7±4.0
I 600	177.4±12.4	65.3±4.8	71.5±4.1	69.5±4.3
I 500	168.8±13.3	61.7±4.9	68.7±4.5	66.6±4.6
I 400	158.9±14.1	58.2±4.9	65.5±4.9	63.7±5.1
I 300	148.0±14.3	55.5±4.6	61.8±5.2	59.9±5.0
I 200	137.5±14.2	54.2±4.1	58.3±5.1	56.2±5.2
I 100	130.8±13.3	54.1±4.1	55.7±4.9	53.9±5.2
V 0	128.9±12.5	54.4±4.1	54.6±4.6	53.0±5.1
S 100	131.1±13.4	54.4±4.1	55.5±4.8	53.9±5.4
S 200	138.0±14.4	55.4±4.5	58.2±5.0	56.5±5.6

Table of Vertical Retinal Perimeter of Healthy Cases (Pixel)

S 300	147.8±15.0	58.2±5.4	61.6±5.0	60.1±5.3
S 400	159.2±14.3	61.9±5.2	65.5±4.7	63.8±5.1
S 500	169.9±13.2	65.4±4.9	68.9±4.3	67.4±4.6
S 600	178.8±12.1	68.9±4.5	71.8±4.0	70.0±4.0
S 700	186.2±11.1	71.6±4.1	74.0±3.6	72.3±3.9
S 800	191.8±10.4	73.8±3.8	75.7±3.5	74.0±3.6
S 900	195.9±10.0	75.4±3.5	76.9±3.4	75.2±3.5
S 1000	198.5±9.7	76.7±3.4	77.6±3.2	76.0±3.4
S 1100	199.9±9.4	77.4±3.2	78.0±3.1	76.3±3.4
S 1200	200.1±9.4	77.7±3.1	78.1±3.1	76.0±3.4
S 1300	199.2±9.6	77.3±3.2	77.9±3.2	75.9±3.5
S 1400	197.8±9.8	76.7±3.2	77.4±3.3	75.5±3.5
S 1500	195.8±10.0	76.0±3.3	76.8±3.3	74.7±3.5
S 1600	193.4±10.1	75.2±3.3	76.0±3.4	74.0±3.6
S 1700	191.0±10.2	74.4±3.1	75.2±3.3	73.3±3.8
S 1800	188.6±10.2	73.8±3.3	74.6±3.4	72.0±3.6
S 1900	186.4±10.2	73.0±3.1	73.8±3.4	71.3±3.8
S 2000	183.9±10.2	72.2±3.2	73.0±3.4	70.5±3.7
S 2100	181.4±10.5	71.3±3.3	72.1±3.5	69.8±3.7
S 2200	178.7±10.7	70.5±3.5	71.3±3.8	68.9±3.7
S 2300	176.3±10.4	69.7±3.2	70.4±3.6	68.1±3.8
S 2400	174.1±10.1	69.2±3.2	69.8±3.5	67.1±3.7
S 2500	172.1±9.8	68.5±3.2	69.1±3.4	66.5±3.6
S 2600	170.2±9.8	67.8±3.2	68.4±3.4	65.9±3.5
S 2700	168.4±9.8	67.3±3.4	67.8±3.5	65.2±3.5
S 2800	166.8±9.7	66.8±3.5	67.3±3.5	64.7±3.4
S 2900	165.5±9.7	66.4±3.4	67.0±3.6	64.1±3.5
S 3000	164.1±9.7	65.9±3.5	66.4±3.4	63.8±3.4
S 3100	162.7±9.7	65.4±3.5	66.0±3.4	63.3±3.5
S 3200	161.3±9.7	65.0±3.5	65.4±3.3	62.9±3.6

TABLE S.24. Table of Horizontal Retinal Perimeter of Healthy Cases.

Table of Horizontal Retinal Perimeter of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	172.0±12.1	68.4±4.0	68.7±4.1	67.0±4.2
N 3100	172.3±11.7	68.6±3.9	69.1±4.0	66.8±4.1
N 3000	173.1±11.5	69.0±3.8	69.4±3.9	67.0±3.9
N 2900	173.9±11.5	69.5±3.9	69.5±3.9	67.3±4.1
N 2800	175.0±11.8	69.8±4.1	70.0±3.9	67.5±4.3
N 2700	176.4±11.9	70.2±4.0	70.5±4.1	68.0±4.0
N 2600	178.1±11.8	70.8±4.1	70.9±3.9	68.9±4.2
N 2500	179.9±11.7	71.5±3.9	71.5±4.1	69.4±4.0
N 2400	182.0±11.6	72.5±4.1	72.3±3.9	70.1±4.1
N 2300	184.3±11.6	73.1±4.0	73.2±4.0	70.5±3.9
N 2200	186.5±11.5	73.9±3.9	73.8±3.9	71.6±3.9
N 2100	188.7±11.1	74.7±3.7	74.6±3.8	72.1±3.7
N 2000	190.8±10.8	75.2±3.7	75.3±3.5	72.9±3.9
N 1900	193.0±10.5	76.0±3.3	75.9±3.6	73.8±3.5
N 1800	195.0±10.1	76.7±3.4	76.5±3.3	74.4±3.8
N 1700	196.7±9.7	77.2±3.2	77.2±3.3	74.8±3.3
N 1600	198.3±9.4	77.5±3.2	77.7±3.1	75.2±3.4
N 1500	199.2±9.0	77.4±3.1	78.0±3.2	75.7±3.1
N 1400	199.3±8.9	77.0±3.2	78.1±3.0	75.8±3.1
N 1300	198.7±9.0	76.6±3.4	77.9±3.0	75.7±3.2
N 1200	197.5±9.2	75.7±3.4	77.6±3.2	75.3±3.1
N 1100	195.6±9.6	74.4±3.6	77.0±3.3	74.8±3.3
N 1000	192.7±9.9	73.0±3.9	76.1±3.4	74.1±3.2
N 900	189.0±10.7	71.3±4.1	74.9±3.6	73.0±3.6
N 800	184.3±11.5	69.2±4.5	73.6±3.9	71.4±3.8
N 700	178.8±12.4	66.6±4.8	71.7±4.2	69.8±3.9
N 600	172.3±13.4	63.9±5.1	69.6±4.5	67.9±4.3
N 500	164.3±14.6	60.7±5.2	67.0±4.9	65.2±4.9
N 400	155.4±15.4	57.7±4.7	64.1±5.2	62.6±5.1
N 300	146.1±14.9	55.3±4.3	60.9±5.0	59.2±5.3
N 200	137.4±13.8	54.4±3.9	57.8±4.8	56.4±4.8
N 100	131.5±12.4	54.4±4.0	55.4±4.3	54.0±4.1
H 0	130.0±11.7	54.5±3.8	54.7±3.9	53.1±3.8
T 100	131.2±12.1	54.5±3.8	55.4±4.0	53.9±4.4
T 200	136.4±12.8	55.2±4.0	57.3±4.4	55.6±4.6

Table of Horizontal Retinal Perimeter of Healthy Cases (Pixel)

T 300	144.1±13.8	57.2±4.3	60.3±4.5	58.7±4.8
T 400	153.8±12.9	60.2±4.6	63.5±4.4	61.8±4.3
T 500	162.5±12.2	63.2±4.2	66.4±4.0	64.7±4.2
T 600	169.7±11.2	66.0±4.1	68.7±3.8	66.9±3.6
T 700	175.4±10.3	68.3±3.7	70.6±3.4	68.4±3.5
T 800	180.1±9.5	70.0±3.3	72.0±3.1	70.0±3.3
T 900	183.6±9.2	71.5±3.1	73.1±3.1	71.0±3.5
T 1000	186.1±9.1	72.6±3.1	73.8±3.1	71.6±3.2
T 1100	187.8±8.9	73.4±3.1	74.3±3.0	72.1±3.1
T 1200	188.6±8.9	73.8±3.0	74.4±3.1	72.4±3.1
T 1300	188.5±8.8	74.0±3.0	74.4±2.9	72.1±3.2
T 1400	187.8±9.0	73.9±3.0	74.3±3.0	71.6±3.3
T 1500	186.4±9.2	73.3±3.2	73.8±3.1	71.3±3.3
T 1600	184.6±9.4	72.6±3.3	73.1±3.3	70.8±3.2
T 1700	182.3±9.5	71.8±3.2	72.5±3.3	70.0±3.3
T 1800	179.9±9.5	71.0±3.1	71.6±3.1	69.2±3.7
T 1900	177.5±9.7	70.2±3.2	70.8±3.3	68.4±3.6
T 2000	174.9±9.9	69.3±3.2	70.0±3.3	67.6±3.7
T 2100	172.3±10.0	68.6±3.2	69.1±3.4	66.6±3.8
T 2200	169.7±10.0	67.6±3.3	68.3±3.4	65.8±3.6
T 2300	167.1±9.9	66.8±3.2	67.5±3.3	64.8±3.7
T 2400	164.8±9.8	66.2±3.3	66.7±3.4	63.9±3.5
T 2500	162.6±9.7	65.3±3.1	65.8±3.2	63.5±3.7
T 2600	160.5±9.6	64.7±3.2	65.2±3.2	62.5±3.5
T 2700	158.5±9.6	64.0±3.2	64.6±3.3	61.8±3.5
T 2800	156.4±9.5	63.3±3.2	63.8±3.2	61.3±3.5
T 2900	154.6±9.5	62.6±3.2	63.2±3.2	60.8±3.4
T 3000	152.9±9.4	62.1±3.2	62.6±3.1	60.0±3.4
T 3100	151.0±9.5	61.6±3.2	62.1±3.1	59.3±3.4
T 3200	149.4±9.3	60.9±3.1	61.5±3.2	58.9±3.4

TABLE S.25. Table of Vertical Retinal Height of Healthy Cases.

Table of Vertical Retinal Height of Healthy Cases (μm)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	275.9 $\pm$ 18.4	92.7 $\pm$ 6.0	92.2 $\pm$ 7.3	90.8 $\pm$ 6.6
I 3100	278.9 $\pm$ 18.0	93.5 $\pm$ 6.2	93.0 $\pm$ 7.1	92.0 $\pm$ 6.5
I 3000	280.9 $\pm$ 18.5	94.4 $\pm$ 6.6	93.7 $\pm$ 7.2	92.4 $\pm$ 6.6
I 2900	283.1 $\pm$ 19.2	95.4 $\pm$ 6.5	94.5 $\pm$ 7.4	93.0 $\pm$ 6.3
I 2800	285.7 $\pm$ 19.3	96.4 $\pm$ 6.6	95.6 $\pm$ 7.3	93.8 $\pm$ 6.3
I 2700	289.1 $\pm$ 19.8	97.7 $\pm$ 6.8	96.5 $\pm$ 7.2	94.9 $\pm$ 6.3
I 2600	292.7 $\pm$ 20.2	99.0 $\pm$ 6.6	97.8 $\pm$ 7.3	96.1 $\pm$ 6.6
I 2500	296.9 $\pm$ 20.3	100.4 $\pm$ 7.2	99.1 $\pm$ 7.1	97.7 $\pm$ 6.7
I 2400	301.5 $\pm$ 20.8	102.3 $\pm$ 6.8	100.5 $\pm$ 7.5	99.5 $\pm$ 7.2
I 2300	306.9 $\pm$ 20.4	104.2 $\pm$ 7.3	102.4 $\pm$ 7.1	100.9 $\pm$ 7.3
I 2200	312.3 $\pm$ 21.5	105.7 $\pm$ 7.4	104.3 $\pm$ 7.5	102.9 $\pm$ 7.6
I 2100	317.6 $\pm$ 21.9	108.2 $\pm$ 7.2	105.7 $\pm$ 7.4	104.8 $\pm$ 7.5
I 2000	324.0 $\pm$ 21.7	109.8 $\pm$ 7.4	108.2 $\pm$ 7.2	106.5 $\pm$ 7.1
I 1900	330.7 $\pm$ 21.7	112.4 $\pm$ 7.6	109.8 $\pm$ 7.3	109.2 $\pm$ 7.0
I 1800	336.7 $\pm$ 21.9	114.3 $\pm$ 7.3	112.3 $\pm$ 7.3	110.7 $\pm$ 7.0
I 1700	343.1 $\pm$ 21.7	116.4 $\pm$ 7.3	114.2 $\pm$ 7.1	113.0 $\pm$ 7.1
I 1600	348.9 $\pm$ 21.7	118.0 $\pm$ 7.2	116.2 $\pm$ 7.1	114.9 $\pm$ 7.3
I 1500	354.0 $\pm$ 21.3	119.4 $\pm$ 7.1	117.7 $\pm$ 7.1	116.5 $\pm$ 7.0
I 1400	358.0 $\pm$ 20.7	120.2 $\pm$ 6.5	119.1 $\pm$ 7.1	118.0 $\pm$ 6.9
I 1300	360.9 $\pm$ 20.0	120.6 $\pm$ 6.6	119.9 $\pm$ 6.6	119.2 $\pm$ 6.7
I 1200	362.2 $\pm$ 19.7	120.8 $\pm$ 6.6	120.4 $\pm$ 6.5	119.4 $\pm$ 6.6
I 1100	362.2 $\pm$ 19.6	120.2 $\pm$ 6.8	120.8 $\pm$ 6.7	119.3 $\pm$ 6.6
I 1000	360.5 $\pm$ 19.8	118.6 $\pm$ 6.8	120.2 $\pm$ 6.8	118.7 $\pm$ 6.6
I 900	355.9 $\pm$ 19.9	116.4 $\pm$ 7.1	118.6 $\pm$ 6.8	117.3 $\pm$ 6.8
I 800	348.7 $\pm$ 20.6	112.8 $\pm$ 7.4	116.4 $\pm$ 7.1	115.0 $\pm$ 7.0
I 700	338.9 $\pm$ 22.0	108.8 $\pm$ 8.0	112.9 $\pm$ 7.5	111.9 $\pm$ 7.5
I 600	326.2 $\pm$ 23.7	103.4 $\pm$ 8.7	108.8 $\pm$ 8.1	107.4 $\pm$ 8.0
I 500	309.8 $\pm$ 25.5	96.9 $\pm$ 9.3	103.4 $\pm$ 8.8	101.8 $\pm$ 8.9
I 400	291.0 $\pm$ 27.9	89.7 $\pm$ 9.7	97.0 $\pm$ 9.6	95.8 $\pm$ 9.9
I 300	269.0 $\pm$ 28.8	82.9 $\pm$ 9.5	89.8 $\pm$ 10.1	88.5 $\pm$ 10.3
I 200	247.8 $\pm$ 28.1	77.6 $\pm$ 8.8	83.0 $\pm$ 9.9	81.4 $\pm$ 10.4
I 100	232.5 $\pm$ 26.4	75.5 $\pm$ 8.1	77.8 $\pm$ 9.6	76.4 $\pm$ 10.0
V 0	226.5 $\pm$ 24.5	77.4 $\pm$ 8.8	75.7 $\pm$ 8.9	74.7 $\pm$ 9.9
S 100	231.9 $\pm$ 26.4	77.4 $\pm$ 8.8	77.5 $\pm$ 9.4	76.2 $\pm$ 10.5
S 200	247.8 $\pm$ 29.2	82.7 $\pm$ 9.8	82.7 $\pm$ 9.9	81.4 $\pm$ 10.9

Table of Vertical Retinal Height of Healthy Cases (μm)

S 300	268.4 $\pm$ 29.3	89.6 $\pm$ 10.5	89.4 $\pm$ 9.8	88.4 $\pm$ 10.5
S 400	291.1 $\pm$ 28.2	97.2 $\pm$ 9.7	97.1 $\pm$ 9.2	95.8 $\pm$ 9.8
S 500	311.6 $\pm$ 25.7	103.8 $\pm$ 8.8	103.6 $\pm$ 8.4	102.7 $\pm$ 8.8
S 600	328.6 $\pm$ 23.7	109.7 $\pm$ 8.2	109.5 $\pm$ 7.8	108.0 $\pm$ 8.1
S 700	342.2 $\pm$ 21.9	114.0 $\pm$ 7.2	113.8 $\pm$ 7.0	112.9 $\pm$ 7.6
S 800	351.8 $\pm$ 20.3	117.3 $\pm$ 6.9	117.1 $\pm$ 6.8	116.0 $\pm$ 7.1
S 900	359.1 $\pm$ 19.8	119.6 $\pm$ 6.6	119.4 $\pm$ 6.6	118.4 $\pm$ 7.0
S 1000	363.3 $\pm$ 19.1	121.0 $\pm$ 6.4	120.8 $\pm$ 6.3	120.1 $\pm$ 6.4
S 1100	365.2 $\pm$ 18.3	121.7 $\pm$ 6.1	121.6 $\pm$ 6.1	120.4 $\pm$ 6.3
S 1200	365.4 $\pm$ 18.6	121.9 $\pm$ 6.1	121.8 $\pm$ 6.1	120.4 $\pm$ 6.5
S 1300	364.0 $\pm$ 18.9	121.3 $\pm$ 6.3	121.3 $\pm$ 6.3	120.0 $\pm$ 6.6
S 1400	361.6 $\pm$ 19.2	120.4 $\pm$ 6.4	120.4 $\pm$ 6.4	119.5 $\pm$ 6.7
S 1500	358.2 $\pm$ 19.7	119.2 $\pm$ 6.4	119.3 $\pm$ 6.4	118.3 $\pm$ 6.7
S 1600	353.6 $\pm$ 20.0	117.6 $\pm$ 6.6	117.7 $\pm$ 6.7	116.5 $\pm$ 6.8
S 1700	349.1 $\pm$ 20.2	116.0 $\pm$ 6.4	116.1 $\pm$ 6.5	115.3 $\pm$ 6.9
S 1800	344.3 $\pm$ 19.9	114.9 $\pm$ 6.6	115.0 $\pm$ 6.7	113.4 $\pm$ 6.9
S 1900	339.6 $\pm$ 20.2	113.2 $\pm$ 6.4	113.4 $\pm$ 6.6	111.8 $\pm$ 6.9
S 2000	335.1 $\pm$ 19.8	111.6 $\pm$ 6.4	111.8 $\pm$ 6.8	110.2 $\pm$ 6.7
S 2100	330.1 $\pm$ 20.5	109.8 $\pm$ 6.6	110.1 $\pm$ 7.0	108.8 $\pm$ 6.9
S 2200	325.0 $\pm$ 21.3	108.2 $\pm$ 7.1	108.4 $\pm$ 7.5	106.8 $\pm$ 6.9
S 2300	320.3 $\pm$ 20.7	106.5 $\pm$ 6.7	106.7 $\pm$ 7.1	105.6 $\pm$ 6.8
S 2400	315.8 $\pm$ 19.6	105.3 $\pm$ 6.4	105.5 $\pm$ 6.8	103.9 $\pm$ 6.6
S 2500	311.9 $\pm$ 19.0	103.9 $\pm$ 6.2	104.0 $\pm$ 6.7	102.5 $\pm$ 6.5
S 2600	308.1 $\pm$ 19.1	102.6 $\pm$ 6.4	102.7 $\pm$ 6.8	101.5 $\pm$ 6.4
S 2700	304.6 $\pm$ 19.0	101.5 $\pm$ 6.7	101.6 $\pm$ 7.0	100.1 $\pm$ 6.4
S 2800	301.8 $\pm$ 18.6	100.6 $\pm$ 6.6	100.7 $\pm$ 6.9	99.3 $\pm$ 6.3
S 2900	299.2 $\pm$ 19.1	99.9 $\pm$ 6.8	100.0 $\pm$ 7.1	98.4 $\pm$ 6.4
S 3000	296.4 $\pm$ 18.8	98.9 $\pm$ 6.9	98.9 $\pm$ 6.9	97.5 $\pm$ 6.2
S 3100	293.8 $\pm$ 18.7	98.1 $\pm$ 6.8	98.1 $\pm$ 6.8	96.7 $\pm$ 6.2
S 3200	290.0 $\pm$ 18.6	96.9 $\pm$ 6.7	96.9 $\pm$ 6.5	95.4 $\pm$ 6.3

TABLE S.26. Table of Horizontal Retinal Height of Healthy Cases.

Table of Horizontal Retinal Height of Healthy Cases (μm)				
Region	Total Value $\bar{X}\pm\sigma$	Inner Value $\bar{X}\pm\sigma$	Middle Value $\bar{X}\pm\sigma$	Outer Value $\bar{X}\pm\sigma$
N 3200	310.2 $\pm$ 23.7	104.0 $\pm$ 7.8	103.3 $\pm$ 8.0	102.1 $\pm$ 7.9
N 3100	312.0 $\pm$ 23.2	104.6 $\pm$ 7.7	104.0 $\pm$ 7.8	102.6 $\pm$ 7.8
N 3000	314.0 $\pm$ 22.7	105.0 $\pm$ 7.7	104.6 $\pm$ 7.7	103.3 $\pm$ 7.6
N 2900	315.1 $\pm$ 22.9	105.9 $\pm$ 7.6	105.0 $\pm$ 7.7	103.7 $\pm$ 7.8
N 2800	317.4 $\pm$ 23.2	106.8 $\pm$ 7.9	105.9 $\pm$ 7.6	104.4 $\pm$ 7.7
N 2700	320.4 $\pm$ 23.3	107.6 $\pm$ 7.7	106.8 $\pm$ 7.9	105.6 $\pm$ 7.7
N 2600	323.7 $\pm$ 23.1	108.8 $\pm$ 8.0	107.6 $\pm$ 7.7	106.8 $\pm$ 7.8
N 2500	327.2 $\pm$ 23.0	110.5 $\pm$ 7.8	108.8 $\pm$ 8.0	107.6 $\pm$ 7.8
N 2400	331.3 $\pm$ 22.9	112.2 $\pm$ 7.9	110.4 $\pm$ 7.7	109.2 $\pm$ 7.7
N 2300	335.9 $\pm$ 22.9	113.3 $\pm$ 7.7	112.2 $\pm$ 7.9	110.5 $\pm$ 7.6
N 2200	340.1 $\pm$ 22.4	115.0 $\pm$ 7.5	113.3 $\pm$ 7.7	112.3 $\pm$ 7.7
N 2100	344.5 $\pm$ 21.9	116.2 $\pm$ 6.9	115.0 $\pm$ 7.5	113.4 $\pm$ 7.5
N 2000	348.5 $\pm$ 21.0	117.5 $\pm$ 7.1	116.2 $\pm$ 6.9	114.9 $\pm$ 7.2
N 1900	352.9 $\pm$ 20.6	118.6 $\pm$ 6.6	117.5 $\pm$ 7.1	116.5 $\pm$ 6.8
N 1800	356.2 $\pm$ 19.8	119.9 $\pm$ 6.6	118.6 $\pm$ 6.6	117.4 $\pm$ 6.6
N 1700	359.6 $\pm$ 19.0	121.1 $\pm$ 6.2	119.9 $\pm$ 6.6	118.4 $\pm$ 6.2
N 1600	362.7 $\pm$ 18.4	121.6 $\pm$ 6.2	121.0 $\pm$ 6.2	119.5 $\pm$ 6.2
N 1500	364.8 $\pm$ 17.9	121.8 $\pm$ 5.9	121.6 $\pm$ 6.2	120.1 $\pm$ 6.0
N 1400	365.2 $\pm$ 17.6	121.3 $\pm$ 5.9	121.8 $\pm$ 5.9	120.5 $\pm$ 5.9
N 1300	364.0 $\pm$ 17.5	120.7 $\pm$ 6.3	121.3 $\pm$ 5.9	120.0 $\pm$ 5.8
N 1200	362.0 $\pm$ 18.3	119.6 $\pm$ 6.4	120.7 $\pm$ 6.3	119.3 $\pm$ 6.1
N 1100	358.5 $\pm$ 18.9	117.8 $\pm$ 6.7	119.6 $\pm$ 6.4	118.0 $\pm$ 6.4
N 1000	353.5 $\pm$ 19.4	115.6 $\pm$ 7.1	117.8 $\pm$ 6.7	116.6 $\pm$ 6.4
N 900	346.7 $\pm$ 21.0	112.9 $\pm$ 7.6	115.6 $\pm$ 7.1	114.2 $\pm$ 7.3
N 800	338.0 $\pm$ 22.3	109.3 $\pm$ 8.2	112.9 $\pm$ 7.6	111.2 $\pm$ 7.6
N 700	327.6 $\pm$ 24.0	105.1 $\pm$ 8.8	109.3 $\pm$ 8.2	108.0 $\pm$ 8.0
N 600	315.3 $\pm$ 26.0	100.0 $\pm$ 9.6	105.1 $\pm$ 8.8	103.7 $\pm$ 8.6
N 500	300.0 $\pm$ 28.4	94.3 $\pm$ 10.2	100.0 $\pm$ 9.6	98.6 $\pm$ 9.6
N 400	283.3 $\pm$ 29.8	88.0 $\pm$ 9.9	94.3 $\pm$ 10.2	93.2 $\pm$ 9.9
N 300	264.2 $\pm$ 30.1	81.9 $\pm$ 9.4	88.0 $\pm$ 9.9	86.8 $\pm$ 10.3
N 200	246.4 $\pm$ 27.9	77.3 $\pm$ 8.4	81.9 $\pm$ 9.4	80.9 $\pm$ 9.4
N 100	232.4 $\pm$ 24.7	75.8 $\pm$ 7.7	77.3 $\pm$ 8.4	76.1 $\pm$ 8.1
H 0	227.6 $\pm$ 22.4	77.2 $\pm$ 7.9	75.8 $\pm$ 7.7	74.6 $\pm$ 7.4
T 100	231.6 $\pm$ 23.5	77.2 $\pm$ 7.9	77.2 $\pm$ 7.9	75.9 $\pm$ 8.0
T 200	242.5 $\pm$ 25.7	80.9 $\pm$ 8.6	80.9 $\pm$ 8.6	79.5 $\pm$ 8.8

Table of Horizontal Retinal Height of Healthy Cases (μm)

T 300	260.6 $\pm$ 26.4	86.9 $\pm$ 8.8	86.9 $\pm$ 8.8	85.6 $\pm$ 9.1
T 400	279.3 $\pm$ 25.1	93.2 $\pm$ 8.6	93.2 $\pm$ 8.6	91.8 $\pm$ 8.3
T 500	296.3 $\pm$ 23.5	98.8 $\pm$ 7.8	98.8 $\pm$ 7.8	97.4 $\pm$ 8.0
T 600	309.8 $\pm$ 21.5	103.3 $\pm$ 7.5	103.3 $\pm$ 7.5	101.9 $\pm$ 7.1
T 700	320.5 $\pm$ 19.5	107.1 $\pm$ 6.6	107.1 $\pm$ 6.6	105.5 $\pm$ 6.6
T 800	329.5 $\pm$ 18.3	109.8 $\pm$ 6.0	109.8 $\pm$ 6.0	108.5 $\pm$ 6.2
T 900	335.8 $\pm$ 18.0	112.0 $\pm$ 6.0	112.0 $\pm$ 6.0	110.4 $\pm$ 6.3
T 1000	339.9 $\pm$ 17.9	113.4 $\pm$ 6.0	113.4 $\pm$ 6.0	112.0 $\pm$ 6.0
T 1100	343.0 $\pm$ 17.3	114.3 $\pm$ 5.9	114.3 $\pm$ 5.9	113.1 $\pm$ 6.0
T 1200	344.0 $\pm$ 17.5	114.5 $\pm$ 6.0	114.5 $\pm$ 6.0	113.5 $\pm$ 5.8
T 1300	343.6 $\pm$ 17.2	114.5 $\pm$ 5.8	114.5 $\pm$ 5.8	113.3 $\pm$ 5.8
T 1400	342.2 $\pm$ 17.6	114.3 $\pm$ 5.9	114.3 $\pm$ 5.9	112.5 $\pm$ 6.1
T 1500	339.5 $\pm$ 18.0	113.3 $\pm$ 6.1	113.3 $\pm$ 6.1	111.8 $\pm$ 6.1
T 1600	336.3 $\pm$ 18.3	112.0 $\pm$ 6.4	112.0 $\pm$ 6.4	111.0 $\pm$ 6.1
T 1700	332.2 $\pm$ 19.2	110.8 $\pm$ 6.6	110.8 $\pm$ 6.6	109.3 $\pm$ 6.5
T 1800	327.4 $\pm$ 18.6	109.0 $\pm$ 6.1	109.0 $\pm$ 6.1	107.8 $\pm$ 6.4
T 1900	322.5 $\pm$ 19.0	107.5 $\pm$ 6.5	107.5 $\pm$ 6.4	106.2 $\pm$ 6.4
T 2000	317.8 $\pm$ 19.4	105.9 $\pm$ 6.4	105.9 $\pm$ 6.4	104.8 $\pm$ 6.5
T 2100	312.4 $\pm$ 19.9	104.1 $\pm$ 6.6	104.1 $\pm$ 6.6	102.8 $\pm$ 6.8
T 2200	307.7 $\pm$ 19.5	102.5 $\pm$ 6.7	102.5 $\pm$ 6.7	101.3 $\pm$ 6.6
T 2300	302.5 $\pm$ 19.4	100.9 $\pm$ 6.5	100.9 $\pm$ 6.5	99.5 $\pm$ 6.4
T 2400	297.8 $\pm$ 19.3	99.4 $\pm$ 6.6	99.4 $\pm$ 6.6	97.7 $\pm$ 6.5
T 2500	293.1 $\pm$ 19.0	97.6 $\pm$ 6.3	97.6 $\pm$ 6.3	96.5 $\pm$ 6.4
T 2600	289.5 $\pm$ 18.7	96.5 $\pm$ 6.3	96.5 $\pm$ 6.3	95.3 $\pm$ 6.2
T 2700	285.5 $\pm$ 18.8	95.3 $\pm$ 6.4	95.3 $\pm$ 6.4	93.7 $\pm$ 6.5
T 2800	281.5 $\pm$ 18.5	93.8 $\pm$ 6.3	93.8 $\pm$ 6.3	92.6 $\pm$ 6.1
T 2900	277.9 $\pm$ 18.4	92.5 $\pm$ 6.3	92.5 $\pm$ 6.3	91.5 $\pm$ 6.2
T 3000	274.3 $\pm$ 18.0	91.5 $\pm$ 6.2	91.5 $\pm$ 6.2	90.1 $\pm$ 6.0
T 3100	270.8 $\pm$ 18.1	90.5 $\pm$ 6.2	90.5 $\pm$ 6.2	89.1 $\pm$ 6.2
T 3200	267.0 $\pm$ 18.2	89.3 $\pm$ 6.2	89.3 $\pm$ 6.2	87.4 $\pm$ 6.1

TABLE S.27. Table of Vertical Retinal Major of Healthy Cases.

Table of Vertical Retinal Major of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	77.9±5.6	25.4±1.9	26.5±2.1	25.8±2.1
I 3100	78.4±5.4	25.6±1.9	26.8±2.0	26.1±2.0
I 3000	79.0±5.5	25.9±2.0	27.0±2.1	26.2±2.0
I 2900	79.5±5.6	26.3±2.0	27.2±2.1	26.4±1.9
I 2800	80.5±5.7	26.6±1.9	27.5±2.1	26.5±2.0
I 2700	81.4±5.7	27.0±2.0	27.8±2.1	26.8±2.0
I 2600	82.5±5.9	27.4±2.0	28.1±2.1	27.3±2.0
I 2500	83.8±5.9	27.7±2.0	28.5±2.0	27.7±2.1
I 2400	85.0±5.9	28.2±1.9	28.9±2.2	28.3±2.2
I 2300	86.6±5.8	28.7±2.0	29.5±2.0	28.7±2.3
I 2200	88.0±6.0	29.0±2.1	30.0±2.2	29.3±2.2
I 2100	89.6±6.2	29.5±2.0	30.4±2.1	29.9±2.2
I 2000	91.3±6.1	30.0±2.1	31.1±2.1	30.4±2.1
I 1900	93.1±6.2	30.8±2.1	31.6±2.1	31.2±2.1
I 1800	94.9±6.1	31.3±2.0	32.3±2.1	31.5±2.1
I 1700	96.6±6.2	31.9±2.1	32.8±2.0	32.2±2.1
I 1600	98.5±6.2	32.5±2.2	33.4±2.1	32.8±2.1
I 1500	100.1±6.1	33.1±2.1	33.9±2.0	33.3±2.0
I 1400	101.5±5.9	33.5±2.0	34.3±2.0	33.7±2.0
I 1300	102.5±5.8	33.7±1.9	34.5±1.9	34.1±2.0
I 1200	102.9±5.7	33.4±1.9	34.7±1.9	34.2±2.0
I 1100	102.7±5.6	32.9±2.1	34.8±1.9	34.2±1.9
I 1000	101.8±5.7	32.2±2.1	34.6±2.0	34.0±1.9
I 900	100.2±5.9	31.2±2.3	34.1±2.0	33.6±2.0
I 800	97.8±6.1	29.8±2.4	33.5±2.0	32.9±2.0
I 700	94.6±6.6	28.3±2.6	32.5±2.1	32.1±2.2
I 600	90.6±7.1	26.6±2.8	31.3±2.3	30.8±2.3
I 500	85.6±7.7	24.4±2.8	29.8±2.5	29.2±2.5
I 400	79.8±8.1	22.3±2.8	27.9±2.8	27.5±2.8
I 300	73.5±8.1	21.0±2.6	25.8±2.9	25.4±2.9
I 200	68.1±7.8	20.5±2.3	23.9±2.8	23.3±2.9
I 100	64.8±7.2	21.1±2.2	22.4±2.8	21.9±2.9
V 0	64.4±6.8	20.5±2.1	21.8±2.6	21.4±2.8
S 100	64.9±7.0	20.5±2.1	22.3±2.7	21.9±2.9
S 200	67.6±7.8	20.5±2.5	23.8±2.8	23.3±3.1

Table of Vertical Retinal Major of Healthy Cases (Pixel)

S 300	72.9±8.4	21.9±3.2	25.7±2.8	25.3±3.0
S 400	79.2±8.2	23.9±3.0	27.9±2.7	27.5±2.8
S 500	85.5±7.7	26.0±2.9	29.8±2.4	29.5±2.5
S 600	91.0±7.1	28.3±2.7	31.5±2.3	31.0±2.3
S 700	95.3±6.5	29.9±2.4	32.7±2.0	32.4±2.1
S 800	98.7±6.0	31.3±2.3	33.7±1.9	33.3±2.0
S 900	101.1±5.7	32.3±2.0	34.4±1.9	34.0±2.0
S 1000	102.8±5.6	33.2±2.0	34.8±1.8	34.4±1.8
S 1100	103.7±5.4	33.8±1.9	35.0±1.7	34.6±1.8
S 1200	103.9±5.3	34.0±1.9	35.0±1.8	34.6±1.8
S 1300	103.5±5.4	33.8±1.9	34.9±1.8	34.4±1.9
S 1400	102.6±5.6	33.4±1.9	34.6±1.8	34.3±1.9
S 1500	101.5±5.7	32.9±1.9	34.3±1.8	33.9±1.9
S 1600	100.1±5.8	32.4±1.9	33.9±1.9	33.4±2.0
S 1700	98.7±5.7	32.0±1.8	33.4±1.9	33.0±2.1
S 1800	97.4±5.8	31.6±1.9	33.1±1.9	32.4±2.0
S 1900	96.1±5.7	31.2±1.9	32.6±1.9	31.9±2.1
S 2000	94.8±5.8	30.8±1.9	32.2±1.9	31.6±2.0
S 2100	93.4±5.8	30.3±1.9	31.7±2.0	31.1±2.0
S 2200	92.0±5.9	29.9±2.0	31.2±2.2	30.6±2.0
S 2300	90.6±5.7	29.5±1.8	30.7±2.1	30.2±2.0
S 2400	89.4±5.6	29.2±1.9	30.4±2.0	29.6±2.0
S 2500	88.2±5.5	28.8±1.9	29.9±1.9	29.2±1.9
S 2600	87.2±5.6	28.5±1.9	29.6±2.0	28.9±1.9
S 2700	86.1±5.6	28.1±2.1	29.2±2.0	28.5±1.9
S 2800	85.2±5.6	27.8±2.1	29.0±2.0	28.3±1.9
S 2900	84.5±5.5	27.7±2.0	28.8±2.1	28.0±1.9
S 3000	83.7±5.4	27.4±2.1	28.4±2.0	27.7±1.8
S 3100	82.9±5.4	27.1±2.1	28.2±2.0	27.4±1.8
S 3200	82.1±5.4	27.0±2.1	27.9±1.9	27.1±1.9

TABLE S.28. Table of Horizontal Retinal Major of Healthy Cases.

Table of Horizontal Retinal Major of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	88.1±6.8	28.8±2.3	29.7±2.3	29.3±2.3
N 3100	88.4±6.7	28.8±2.3	29.9±2.2	29.4±2.3
N 3000	88.6±6.5	29.0±2.3	30.1±2.2	29.5±2.2
N 2900	89.1±6.6	29.3±2.2	30.2±2.2	29.6±2.3
N 2800	89.7±6.6	29.4±2.3	30.5±2.2	29.8±2.3
N 2700	90.5±6.7	29.7±2.3	30.7±2.3	30.1±2.2
N 2600	91.5±6.7	30.0±2.4	31.0±2.2	30.5±2.3
N 2500	92.4±6.6	30.4±2.3	31.3±2.3	30.7±2.2
N 2400	93.7±6.6	30.9±2.4	31.8±2.2	31.2±2.3
N 2300	94.9±6.6	31.2±2.3	32.3±2.3	31.5±2.1
N 2200	96.2±6.5	31.7±2.2	32.6±2.2	32.1±2.2
N 2100	97.5±6.3	32.2±2.2	33.1±2.2	32.4±2.2
N 2000	98.7±6.2	32.5±2.2	33.4±2.0	32.9±2.1
N 1900	99.8±6.0	32.9±2.0	33.8±2.0	33.3±2.0
N 1800	101.0±5.8	33.3±2.0	34.1±1.9	33.6±2.0
N 1700	102.0±5.5	33.6±1.9	34.5±1.9	33.9±1.8
N 1600	102.8±5.4	33.8±1.9	34.8±1.8	34.2±1.8
N 1500	103.4±5.1	33.7±1.9	35.0±1.8	34.4±1.7
N 1400	103.5±5.1	33.5±1.8	35.0±1.7	34.4±1.7
N 1300	103.1±5.1	33.1±1.9	34.9±1.7	34.4±1.7
N 1200	102.3±5.3	32.6±2.0	34.7±1.8	34.2±1.7
N 1100	101.1±5.5	31.8±2.1	34.4±1.9	33.8±1.8
N 1000	99.5±5.8	31.0±2.2	33.9±1.9	33.4±1.9
N 900	97.2±6.1	30.0±2.3	33.3±2.0	32.7±2.0
N 800	94.5±6.5	28.7±2.6	32.5±2.2	31.9±2.2
N 700	91.3±7.1	27.2±2.8	31.4±2.4	31.0±2.2
N 600	87.4±7.8	25.5±3.0	30.2±2.5	29.8±2.5
N 500	82.8±8.4	23.7±3.0	28.8±2.8	28.3±2.7
N 400	77.7±8.7	22.0±2.6	27.1±2.9	26.7±2.9
N 300	72.4±8.3	20.8±2.3	25.3±2.8	24.9±3.0
N 200	67.8±7.4	20.5±2.2	23.6±2.7	23.2±2.7
N 100	65.1±6.7	21.2±2.2	22.2±2.4	21.9±2.3
H 0	64.8±6.3	20.7±2.1	21.8±2.2	21.4±2.1
T 100	65.0±6.5	20.7±2.1	22.2±2.3	21.8±2.3
T 200	67.1±7.0	20.8±2.3	23.3±2.5	22.8±2.5

Table of Horizontal Retinal Major of Healthy Cases (Pixel)

T 300	71.3±7.5	21.7±2.5	25.0±2.5	24.6±2.6
T 400	76.6±7.4	23.4±2.7	26.8±2.5	26.4±2.4
T 500	81.7±6.9	25.2±2.4	28.4±2.2	28.0±2.3
T 600	86.1±6.4	26.9±2.4	29.7±2.1	29.3±2.0
T 700	89.6±5.8	28.3±2.1	30.8±1.9	30.3±1.9
T 800	92.3±5.4	29.3±2.0	31.6±1.7	31.1±1.8
T 900	94.4±5.2	30.2±1.9	32.2±1.7	31.7±1.9
T 1000	95.9±5.2	30.9±1.8	32.6±1.7	32.1±1.7
T 1100	96.9±5.0	31.4±1.9	32.9±1.7	32.4±1.7
T 1200	97.5±5.0	31.8±1.8	32.9±1.7	32.5±1.7
T 1300	97.6±5.0	32.0±1.8	33.0±1.7	32.4±1.7
T 1400	97.1±5.1	31.9±1.8	32.9±1.7	32.2±1.8
T 1500	96.3±5.3	31.5±1.9	32.6±1.8	31.9±1.8
T 1600	95.2±5.3	31.1±1.9	32.2±1.8	31.7±1.8
T 1700	93.8±5.4	30.5±1.9	31.9±1.9	31.2±1.8
T 1800	92.4±5.4	30.0±1.8	31.4±1.8	30.8±1.9
T 1900	91.1±5.4	29.6±1.8	30.9±1.9	30.3±1.9
T 2000	89.6±5.5	29.1±1.8	30.5±1.8	29.8±2.0
T 2100	88.2±5.6	28.7±1.8	30.0±1.9	29.3±2.0
T 2200	86.8±5.5	28.2±1.8	29.5±1.9	28.9±2.0
T 2300	85.4±5.5	27.8±1.8	29.0±1.9	28.3±1.9
T 2400	84.0±5.4	27.4±1.9	28.6±1.9	27.8±1.9
T 2500	82.7±5.4	26.9±1.7	28.1±1.8	27.5±1.9
T 2600	81.5±5.3	26.5±1.8	27.8±1.8	27.1±1.9
T 2700	80.4±5.3	26.2±1.8	27.4±1.8	26.6±1.9
T 2800	79.3±5.3	25.8±1.8	27.0±1.8	26.3±1.9
T 2900	78.2±5.2	25.4±1.8	26.6±1.8	26.0±1.9
T 3000	77.3±5.2	25.1±1.8	26.3±1.8	25.6±1.8
T 3100	76.3±5.2	24.8±1.9	26.0±1.8	25.3±1.8
T 3200	75.5±5.3	24.7±1.8	25.7±1.8	24.8±1.9

TABLE S.29. Table of Vertical Retinal Angle of Healthy Cases.

Table of Vertical Retinal Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	90.0 $\pm$ 0.1	90.3 $\pm$ 0.8	90.0 $\pm$ 0.0	90.2 $\pm$ 0.4
I 3100	90.1 $\pm$ 0.1	90.3 $\pm$ 0.7	90.0 $\pm$ 0.0	90.4 $\pm$ 0.5
I 3000	90.1 $\pm$ 0.1	90.1 $\pm$ 0.6	90.0 $\pm$ 0.0	90.4 $\pm$ 0.4
I 2900	90.1 $\pm$ 0.1	90.0 $\pm$ 0.6	90.0 $\pm$ 0.0	90.4 $\pm$ 0.4
I 2800	90.0 $\pm$ 0.1	90.0 $\pm$ 0.5	90.0 $\pm$ 0.0	90.4 $\pm$ 0.4
I 2700	90.0 $\pm$ 0.1	89.9 $\pm$ 0.6	90.0 $\pm$ 0.0	90.4 $\pm$ 0.4
I 2600	90.0 $\pm$ 0.1	89.8 $\pm$ 0.5	90.0 $\pm$ 0.0	90.2 $\pm$ 0.4
I 2500	90.0 $\pm$ 0.1	89.8 $\pm$ 0.5	90.0 $\pm$ 0.0	90.3 $\pm$ 0.4
I 2400	90.0 $\pm$ 0.1	89.7 $\pm$ 0.6	90.0 $\pm$ 0.0	90.2 $\pm$ 0.3
I 2300	90.0 $\pm$ 0.1	89.7 $\pm$ 0.5	90.0 $\pm$ 0.0	90.2 $\pm$ 0.3
I 2200	90.0 $\pm$ 0.1	89.7 $\pm$ 0.4	90.0 $\pm$ 0.0	90.2 $\pm$ 0.3
I 2100	90.0 $\pm$ 0.1	89.6 $\pm$ 0.5	90.0 $\pm$ 0.0	90.1 $\pm$ 0.3
I 2000	90.0 $\pm$ 0.1	89.6 $\pm$ 0.5	90.0 $\pm$ 0.0	90.1 $\pm$ 0.3
I 1900	90.0 $\pm$ 0.1	89.6 $\pm$ 0.4	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1800	90.0 $\pm$ 0.1	89.6 $\pm$ 0.4	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1700	90.0 $\pm$ 0.1	89.7 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.3
I 1600	90.0 $\pm$ 0.0	89.7 $\pm$ 0.4	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1500	90.0 $\pm$ 0.0	89.8 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1400	90.0 $\pm$ 0.0	89.9 $\pm$ 0.4	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1300	90.0 $\pm$ 0.0	90.1 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1200	90.0 $\pm$ 0.0	90.2 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1100	90.0 $\pm$ 0.0	90.4 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.2
I 1000	90.0 $\pm$ 0.0	90.6 $\pm$ 0.3	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 900	90.1 $\pm$ 0.0	90.9 $\pm$ 0.5	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 800	90.1 $\pm$ 0.0	91.3 $\pm$ 0.6	90.0 $\pm$ 0.0	90.0 $\pm$ 0.1
I 700	90.1 $\pm$ 0.1	91.8 $\pm$ 0.8	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 600	90.2 $\pm$ 0.1	92.4 $\pm$ 1.0	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 500	90.2 $\pm$ 0.1	93.3 $\pm$ 1.3	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 400	90.3 $\pm$ 0.1	93.9 $\pm$ 1.5	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 300	90.3 $\pm$ 0.1	93.3 $\pm$ 1.7	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2
I 200	90.3 $\pm$ 0.1	91.4 $\pm$ 1.4	90.0 $\pm$ 0.0	90.1 $\pm$ 0.3
I 100	90.1 $\pm$ 0.1	89.9 $\pm$ 0.4	90.0 $\pm$ 0.0	90.0 $\pm$ 0.3
V 0	90.0 $\pm$ 0.1	89.1 $\pm$ 1.1	90.0 $\pm$ 0.0	90.1 $\pm$ 0.4
S 100	89.9 $\pm$ 0.1	89.1 $\pm$ 1.1	90.0 $\pm$ 0.0	90.0 $\pm$ 0.3
S 200	89.8 $\pm$ 0.1	86.9 $\pm$ 1.7	90.0 $\pm$ 0.0	90.0 $\pm$ 0.2

Table of Vertical Retinal Angle of Healthy Cases (Degree)

S 300	89.7±0.1	86.0±1.6	90.0±0.0	90.0±0.2
S 400	89.7±0.1	86.5±1.4	90.0±0.0	90.0±0.2
S 500	89.8±0.1	87.3±1.2	90.0±0.0	90.0±0.1
S 600	89.8±0.1	88.2±0.8	90.0±0.0	90.0±0.1
S 700	89.9±0.1	88.8±0.6	90.0±0.0	90.0±0.1
S 800	89.9±0.0	89.1±0.4	90.0±0.0	90.0±0.1
S 900	89.9±0.0	89.4±0.3	90.0±0.0	90.0±0.1
S 1000	90.0±0.0	89.6±0.3	90.0±0.0	90.0±0.2
S 1100	90.0±0.0	89.8±0.3	90.0±0.0	90.0±0.1
S 1200	90.0±0.0	90.0±0.3	90.0±0.0	90.0±0.1
S 1300	90.0±0.0	90.1±0.3	90.0±0.0	90.0±0.1
S 1400	90.0±0.0	90.2±0.3	90.0±0.0	90.0±0.2
S 1500	90.0±0.0	90.3±0.3	90.0±0.0	90.0±0.2
S 1600	90.0±0.0	90.3±0.2	90.0±0.0	89.9±0.2
S 1700	90.0±0.0	90.3±0.3	90.0±0.0	89.9±0.2
S 1800	90.0±0.0	90.3±0.3	90.0±0.0	89.9±0.2
S 1900	90.0±0.0	90.3±0.3	90.0±0.0	89.9±0.2
S 2000	90.0±0.0	90.3±0.3	90.0±0.0	89.9±0.2
S 2100	90.0±0.0	90.3±0.4	90.0±0.0	89.9±0.3
S 2200	90.0±0.1	90.3±0.4	90.0±0.0	89.9±0.2
S 2300	90.0±0.1	90.2±0.4	90.0±0.0	89.9±0.3
S 2400	90.0±0.1	90.2±0.4	90.0±0.0	89.8±0.3
S 2500	90.0±0.1	90.1±0.4	90.0±0.0	89.8±0.3
S 2600	90.0±0.1	90.1±0.4	90.0±0.0	89.8±0.3
S 2700	90.0±0.1	90.1±0.4	90.0±0.0	89.8±0.3
S 2800	90.0±0.1	89.9±0.5	90.0±0.0	89.8±0.3
S 2900	90.0±0.1	90.0±0.5	90.0±0.0	89.8±0.3
S 3000	90.0±0.1	89.9±0.5	90.0±0.0	89.8±0.3
S 3100	90.0±0.1	89.9±0.5	90.0±0.0	89.7±0.4
S 3200	90.0±0.1	90.0±0.4	90.0±0.0	89.8±0.4

TABLE S.30. Table of Horizontal Retinal Angle of Healthy Cases.

Table of Horizontal Retinal Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	91.7±5.6	97.7±15.1	107.0±1.2	99.3±14.8
N 3100	91.3±5.6	95.9±15.8	106.9±1.2	97.6±15.8
N 3000	91.1±5.7	96.8±15.4	106.8±1.2	98.3±15.3
N 2900	91.1±5.6	97.4±15.0	106.7±1.1	97.9±15.4
N 2800	90.7±5.7	97.9±14.5	106.6±1.1	97.5±15.6
N 2700	91.1±5.4	96.9±14.9	106.4±1.1	97.1±15.6
N 2600	90.6±5.5	98.5±13.9	106.3±1.1	96.0±15.7
N 2500	91.0±5.4	95.8±14.9	106.2±1.1	96.2±15.5
N 2400	90.4±5.2	96.3±14.5	105.9±1.0	97.5±14.7
N 2300	91.3±4.8	96.6±14.2	105.7±1.0	97.6±14.5
N 2200	89.9±5.2	95.5±14.4	105.5±1.0	96.3±14.8
N 2100	90.7±4.9	98.1±12.9	105.3±0.9	98.6±13.4
N 2000	91.3±4.8	96.0±13.8	105.2±0.9	96.7±14.2
N 1900	90.7±4.7	97.4±12.9	105.0±0.9	97.4±13.6
N 1800	90.7±4.9	98.5±12.1	104.9±0.8	97.0±13.7
N 1700	91.2±4.8	97.8±12.4	104.7±0.8	96.9±13.6
N 1600	90.9±4.7	98.4±11.9	104.6±0.7	95.3±14.1
N 1500	91.7±4.6	95.0±13.7	104.5±0.7	97.7±12.8
N 1400	90.7±4.9	95.8±13.4	104.5±0.7	97.1±13.2
N 1300	91.1±4.9	92.7±14.5	104.5±0.7	98.3±12.5
N 1200	90.6±5.0	92.3±14.6	104.6±0.7	99.4±11.9
N 1100	90.6±5.0	90.6±15.0	104.7±0.8	100.4±11.2
N 1000	90.2±5.1	90.0±15.3	105.0±0.8	99.8±11.9
N 900	89.7±5.1	90.0±15.7	105.2±0.9	100.1±12.0
N 800	90.0±5.4	90.0±16.2	105.6±1.0	101.9±10.9
N 700	90.0±5.5	90.0±16.9	106.1±1.2	101.4±12.1
N 600	89.9±5.6	90.0±17.7	106.7±1.3	103.6±10.6
N 500	90.1±5.8	90.1±18.8	107.5±1.6	103.4±12.2
N 400	89.8±6.4	90.1±20.0	108.6±1.8	104.8±12.3
N 300	90.0±6.9	90.1±21.4	109.8±2.0	107.5±11.0
N 200	90.2±7.1	95.7±21.7	111.2±2.1	109.3±10.4
N 100	91.4±7.6	102.3±19.1	112.3±2.0	109.3±12.6
H 0	93.3±7.2	96.6±21.4	112.6±1.9	109.7±12.9
T 100	91.6±7.5	96.6±21.4	112.3±1.9	109.7±12.2
T 200	90.1±7.4	90.9±21.5	111.4±1.9	109.4±10.8

Table of Horizontal Retinal Angle of Healthy Cases (Degree)

T 300	89.8±6.6	89.5±20.2	110.0±1.8	107.0±11.8
T 400	90.0±6.2	90.1±18.9	108.7±1.6	105.9±10.9
T 500	89.9±6.0	90.0±17.9	107.7±1.3	103.1±12.7
T 600	90.0±5.7	90.3±17.1	107.0±1.2	103.9±10.6
T 700	90.2±5.6	90.3±16.5	106.4±1.0	103.2±10.8
T 800	90.0±5.4	90.0±16.1	106.0±0.8	101.7±11.7
T 900	90.2±5.4	90.7±15.8	105.7±0.8	101.1±11.9
T 1000	90.3±5.3	91.9±15.5	105.5±0.8	98.4±13.7
T 1100	91.1±5.2	94.3±14.9	105.4±0.8	100.4±12.0
T 1200	91.3±5.1	96.5±14.0	105.4±0.8	96.7±14.4
T 1300	91.7±4.9	99.8±11.9	105.4±0.7	99.0±13.2
T 1400	91.4±5.0	100.5±11.4	105.4±0.8	96.7±14.5
T 1500	91.2±4.9	99.7±12.2	105.5±0.8	96.5±14.8
T 1600	91.2±4.9	99.5±12.6	105.7±0.9	96.4±14.9
T 1700	91.2±4.8	97.5±14.1	105.9±0.9	97.5±14.7
T 1800	90.2±5.0	96.7±14.7	106.1±0.9	96.2±15.5
T 1900	90.9±5.1	98.0±14.3	106.3±0.9	96.4±15.7
T 2000	90.8±5.0	96.8±15.2	106.6±0.9	96.7±15.8
T 2100	90.3±5.2	98.6±14.5	106.8±1.0	93.5±17.2
T 2200	90.3±5.4	97.0±15.7	107.1±1.0	97.3±16.2
T 2300	90.1±5.4	98.2±15.4	107.3±1.0	94.2±17.6
T 2400	90.9±5.9	99.9±14.6	107.6±1.1	96.2±17.3
T 2500	90.2±5.9	99.5±15.3	107.9±1.1	95.4±17.8
T 2600	90.4±6.1	98.4±16.1	108.1±1.1	94.9±18.3
T 2700	90.7±6.1	99.4±15.8	108.3±1.1	94.2±18.7
T 2800	90.4±6.4	98.0±16.9	108.6±1.1	96.5±18.3
T 2900	90.5±6.4	98.1±17.1	108.8±1.1	95.8±18.7
T 3000	90.4±6.4	99.6±16.5	109.0±1.1	93.5±19.5
T 3100	90.7±6.6	98.1±17.5	109.2±1.2	96.4±19.2
T 3200	90.5±6.8	98.0±17.8	109.4±1.2	98.5±18.6

TABLE S.31. Table of Vertical Retinal Integrated Density of Healthy Cases.

Table of Vertical Retinal Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	68827.1±6977.4	27369.2±4076.9	15215.9±4326.6	25961.6±4632.7
I 3100	68707.2±6790.8	26866.8±3770.7	15310.2±3287.6	25500.0±5035.7
I 3000	68235.5±7177.4	27157.5±3682.9	15761.6±4030.9	25375.1±5342.2
I 2900	69622.7±6907.8	28175.0±4491.0	16365.9±4128.7	26109.5±4286.1
I 2800	70053.6±7203.9	27379.4±3859.4	16615.8±4496.1	25104.8±5432.4
I 2700	70770.2±7006.4	28144.4±4231.8	17118.2±4204.0	25974.3±4839.6
I 2600	73095.8±6970.1	28605.9±4109.6	18005.6±4496.9	26739.3±3975.0
I 2500	72919.8±7082.9	28070.4±4090.1	18107.6±4460.5	25969.2±5025.2
I 2400	74080.1±6545.6	29796.8±4741.5	19214.3±4344.1	26425.7±4236.5
I 2300	72728.6±7111.9	29501.0±5198.6	18288.6±4633.7	24296.4±6413.5
I 2200	76158.3±7298.5	28845.6±5070.5	20203.7±5050.0	26216.6±5164.5
I 2100	76454.1±7786.4	29689.7±5274.8	21351.2±5245.4	25829.0±5318.5
I 2000	77415.5±8372.2	30467.4±4867.7	21608.7±6344.5	25897.8±5721.4
I 1900	78430.4±8830.4	31255.4±5246.7	22656.8±6124.4	24584.6±6290.7
I 1800	80136.3±8792.8	29947.2±4388.1	23103.0±6860.6	25377.6±5936.6
I 1700	82278.3±6712.7	30681.6±4367.1	24908.4±5675.3	27216.2±4085.8
I 1600	83303.4±6526.8	30600.0±5033.5	25443.9±5713.5	26624.6±4480.7
I 1500	83731.8±7515.0	30113.0±4405.4	25933.5±6169.7	26588.9±3895.8
I 1400	84598.8±6545.7	30944.3±3661.1	26907.6±5315.1	27073.4±3702.9
I 1300	84966.0±6905.5	30788.7±4211.6	26823.5±5916.9	26616.9±3483.0
I 1200	84698.3±6592.0	30309.3±4508.0	26820.9±5543.6	26583.8±3443.8
I 1100	83594.1±6513.4	30589.8±3873.9	25813.7±5389.8	27093.8±3698.6
I 1000	83719.1±6167.6	30913.7±4598.7	25660.7±5481.1	27124.4±2922.7
I 900	81472.5±6456.7	32456.4±4001.5	22559.9±5902.5	27448.2±3164.6
I 800	80546.9±5184.0	33295.4±3939.8	20328.6±4710.2	27374.3±2832.2
I 700	80835.0±6838.4	33927.8±3690.7	19658.0±5538.3	27277.4±2780.5
I 600	78932.7±7139.3	33649.8±2975.8	16998.3±5495.6	27453.3±2622.4
I 500	76301.1±7760.4	31482.3±3976.2	14565.6±6142.8	27598.7±2805.6
I 400	68283.9±8813.3	26186.0±5791.1	9149.4±6448.2	27024.9±2639.9
I 300	57515.3±9283.8	19109.7±6684.2	4544.1±4963.2	26300.7±2649.8
I 200	48707.6±8469.5	14315.7±5753.1	3707.7±3637.0	25581.6±2721.4
I 100	44046.2±7327.2	14818.1±4600.4	5082.2±3488.9	24194.4±3050.4
V 0	44987.1±6366.9	14631.9±5605.5	7512.3±3034.2	22381.4±2963.6
S 100	44393.0±7687.9	14631.9±5605.5	5186.7±3451.0	24209.7±3084.1
S 200	47945.1±8967.5	18380.4±6631.5	3672.0±3662.5	25326.6±3031.3

Table of Vertical Retinal Integrated Density of Healthy Cases (PV)

S 300	57400.5±9335.3	26221.7±6267.9	4574.7±4980.0	26188.5±2705.6
S 400	67735.7±8283.0	30977.4±3772.8	9248.9±6128.6	27139.7±2705.3
S 500	76561.2±8018.6	33162.8±3727.9	15708.0±6412.4	27032.6±2611.7
S 600	81161.4±7177.4	34320.5±3777.6	18882.8±5530.9	27244.2±2533.6
S 700	82510.4±6882.0	34458.2±4305.2	20170.5±5320.8	27478.8±2883.4
S 800	81156.3±5550.8	33303.0±3909.7	20221.5±5034.5	27040.2±3385.3
S 900	82773.0±6763.8	32604.3±4528.3	22746.0±5855.4	27002.0±3274.6
S 1000	82982.1±6026.3	31122.8±4283.5	24388.2±5057.6	27137.1±3178.6
S 1100	83410.5±5822.1	31528.2±4243.9	24291.3±4772.8	27251.9±2965.3
S 1200	84874.2±5672.8	31941.3±3901.0	25382.7±4767.5	27295.2±3159.5
S 1300	84173.0±6245.2	31599.6±3540.4	25132.8±4687.3	27185.6±3802.0
S 1400	83940.9±6814.2	32293.2±3236.0	24242.9±4395.3	26920.4±3831.0
S 1500	83012.7±6901.6	31439.0±3082.7	23809.4±5486.6	27420.2±3435.8
S 1600	83459.0±6350.4	32762.4±3806.9	23238.2±4944.7	26976.5±3979.2
S 1700	81156.3±7214.5	31482.3±3988.4	22565.0±5517.4	26563.4±4015.6
S 1800	80778.9±6666.2	32211.6±4934.0	21307.8±4900.5	26973.9±4298.0
S 1900	79978.2±6795.0	32155.5±4454.3	20933.0±4730.5	26504.7±5736.4
S 2000	78659.9±7676.7	32033.1±4887.0	20117.0±4851.3	26086.5±5708.0
S 2100	78802.7±7076.8	31176.3±4354.4	20152.7±5031.5	26935.7±4445.6
S 2200	75862.5±6873.8	30776.0±4661.1	18645.6±4989.6	25880.0±4992.4
S 2300	75049.1±7441.5	30357.8±4022.0	18199.4±4691.0	25923.3±5304.9
S 2400	76051.2±7530.7	30332.3±4313.9	17944.4±4640.5	27241.7±4878.6
S 2500	73942.4±6900.1	29748.3±4125.2	17429.3±4544.6	26186.0±5265.2
S 2600	73057.5±6507.4	29587.7±4344.7	16888.7±3833.8	26106.9±5383.0
S 2700	73450.2±6856.6	29184.8±3998.8	17036.6±4367.9	26611.8±4529.7
S 2800	71729.0±7045.2	29210.3±4247.0	16564.8±4066.6	25584.2±6352.8
S 2900	71496.9±6952.0	29115.9±4302.9	15827.9±3965.9	26303.3±5628.4
S 3000	72035.0±6909.3	29478.0±4667.5	15845.7±3978.6	26346.6±4592.8
S 3100	70951.2±6860.1	27874.1±3889.1	15733.5±3922.3	26892.3±4641.6
S 3200	69959.3±7083.0	28294.8±5111.1	14703.3±3616.5	26716.4±4744.2

TABLE S.32. Table of Horizontal Retinal Integrated Density of Healthy Cases.

Table of Horizontal Retinal Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	81243.0±8976.3	31752.6±5160.0	22526.7±5206.7	26140.1±4720.4
N 3100	80796.8±8661.6	30722.4±4136.2	22029.5±4879.4	26594.0±4325.0
N 3000	81250.7±6878.8	30311.9±4155.6	23024.0±4250.2	27086.1±3715.4
N 2900	81345.0±7263.4	30156.3±3393.9	23411.6±4771.3	27246.8±4102.1
N 2800	81176.7±7890.9	29618.3±3824.8	23166.8±4988.7	27499.2±4789.4
N 2700	81171.6±6660.0	30296.6±4188.0	23549.3±4637.3	27675.2±4042.9
N 2600	82038.6±6663.4	30230.3±3534.0	24064.4±4872.6	27285.0±4263.4
N 2500	81704.6±6504.3	30062.0±3602.0	23799.2±4924.1	27014.7±4165.7
N 2400	82579.2±6743.1	30582.2±3640.2	24184.2±5040.9	27963.3±3868.0
N 2300	83510.0±6375.4	30592.4±3353.4	24633.0±4602.3	28083.2±3725.0
N 2200	83558.4±6293.5	30607.7±3878.2	24686.6±4421.1	27958.2±4071.5
N 2100	84007.2±6518.1	30801.5±3930.5	25191.5±5168.7	27866.4±3500.0
N 2000	83714.0±5915.2	30240.5±4172.5	24982.4±4889.1	27675.2±3564.2
N 1900	83770.1±6350.9	30301.7±3834.5	25341.9±5179.5	27787.4±3319.7
N 1800	84002.1±5686.5	30056.9±4743.9	25426.1±5081.6	27838.4±3258.8
N 1700	83999.6±6809.3	30640.8±3900.5	25619.9±4750.0	27886.8±3344.8
N 1600	84402.5±6659.8	30401.1±3816.6	25056.3±5509.1	28307.6±3256.6
N 1500	84310.7±5868.8	30324.6±4344.9	25079.3±4762.8	28435.1±3174.5
N 1400	83135.1±6084.0	31658.3±4330.0	23827.2±4937.4	28641.6±3314.3
N 1300	83601.8±7072.3	32147.9±5171.8	23049.5±5669.0	28452.9±3254.5
N 1200	83311.1±6473.5	32453.9±3662.8	22383.9±5287.4	28399.4±3270.5
N 1100	81666.3±5949.2	33009.8±4121.2	20106.8±5373.4	28674.8±2988.0
N 1000	82046.3±7024.1	33109.2±4300.8	19994.6±5294.6	28532.0±2858.7
N 900	81549.0±6807.3	33331.1±4139.7	19367.3±5321.0	28682.4±3079.4
N 800	80771.3±6128.4	33313.2±4331.7	17890.8±4573.2	29123.6±2809.4
N 700	79503.9±7120.5	33453.5±3389.7	16605.6±5617.1	29110.8±2598.4
N 600	77390.0±7299.9	32856.8±3854.2	14639.6±6405.3	28741.1±2529.9
N 500	72710.7±8614.7	30538.8±5041.5	11133.3±7123.7	28208.1±2586.8
N 400	66468.3±10467.2	25097.1±6907.7	7871.9±7156.5	27445.7±2662.8
N 300	56895.6±10157.0	17827.1±6926.5	4526.3±4922.6	26581.2±2676.2
N 200	48903.9±9427.6	13971.5±5652.1	4230.5±3964.9	26142.6±2693.4
N 100	44066.6±8778.9	14481.5±4298.1	5074.5±3999.1	24242.9±2810.8
H 0	44112.5±6819.1	14614.1±5044.1	5589.6±3717.9	23432.0±2927.2
T 100	44400.6±7521.0	14614.1±5044.1	4307.0±3617.1	24946.7±2699.2
T 200	48161.9±9116.4	17906.1±6498.4	3641.4±4101.7	26050.8±2663.6

Table of Horizontal Retinal Integrated Density of Healthy Cases (PV)

T 300	57204.2±8874.5	25976.9±6276.9	3870.9±4210.2	26856.6±2562.8
T 400	66891.6±8626.3	31704.2±4195.9	7099.2±6269.8	27529.8±2510.5
T 500	72116.6±7330.3	32492.1±2821.0	10998.2±6193.9	28085.7±2699.2
T 600	76928.4±6691.4	33236.7±3840.2	14886.9±5932.7	28218.3±2472.1
T 700	77981.6±6505.1	32499.8±3995.3	16743.3±4595.8	28399.4±2486.3
T 800	78257.0±6478.3	32512.5±4247.9	17041.7±4501.6	28182.6±2484.6
T 900	79014.3±6373.8	32469.2±4382.4	17679.2±4307.6	28376.4±2785.4
T 1000	80210.3±6375.3	32657.9±4629.9	18648.2±4861.3	28519.2±2758.8
T 1100	80636.1±5725.0	32499.8±4498.9	19627.4±4166.9	28131.6±2993.6
T 1200	80011.4±5697.0	32130.0±4489.7	19178.6±4498.6	28254.0±2685.0
T 1300	78978.6±6510.4	31655.7±4586.3	18655.8±4125.4	28282.1±2654.8
T 1400	79843.1±6380.2	31648.1±4323.5	19415.7±3974.0	28542.2±2655.5
T 1500	79817.6±6670.2	32017.8±5655.9	19114.8±4284.5	28391.7±2849.1
T 1600	80200.1±6747.3	31887.8±4790.4	19323.9±3970.9	28679.9±2805.9
T 1700	79975.7±6477.5	31742.4±5226.3	19176.0±3910.7	28741.1±2751.5
T 1800	79718.1±6704.4	32007.6±4890.6	18413.6±3612.8	28934.9±2660.0
T 1900	79570.2±6858.9	32489.6±4592.3	17799.0±3910.3	29019.0±2832.4
T 2000	78976.1±6384.5	32336.6±5051.3	17391.0±3047.5	28940.0±2446.0
T 2100	79287.2±7169.9	31380.3±4602.0	18263.1±3984.5	29335.2±2734.9
T 2200	77820.9±6627.3	31956.6±5243.2	16837.7±3216.4	28792.1±2637.6
T 2300	76530.6±6184.4	30566.9±4981.0	16656.6±2940.7	29087.9±2724.2
T 2400	75684.0±6669.2	30176.7±4967.6	16095.6±3044.4	29210.3±2756.1
T 2500	75500.4±7185.5	29656.5±5580.6	16289.4±3156.0	29197.5±2645.2
T 2600	73669.5±6868.8	28700.3±6006.3	15453.0±2986.8	29274.0±2863.3
T 2700	72963.2±6184.1	28126.5±5656.9	15430.1±2773.7	29115.9±2548.8
T 2800	71568.3±6981.5	27221.3±5502.1	14894.6±2821.9	29151.6±2873.3
T 2900	70747.2±6805.1	26764.8±6227.0	14560.5±2551.2	29100.6±2619.4
T 3000	71474.0±6668.4	27585.9±5978.7	14892.0±2740.7	28639.1±3231.6
T 3100	70188.8±6852.4	27058.1±5688.2	14262.2±2636.9	28654.4±3438.2
T 3200	69918.5±6983.4	26787.8±5869.0	13981.7±2598.7	28886.4±2975.3

TABLE S.33. Table of Vertical Retinal Raw Integrated Density of Healthy Cases.

Table of Vertical Retinal Raw Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	68827.1±6977.4	27369.2±4076.9	15215.9±4326.6	25961.6±4632.7
I 3100	68707.2±6790.8	26866.8±3770.7	15310.2±3287.6	25500.0±5035.7
I 3000	68235.5±7177.4	27157.5±3682.9	15761.6±4030.9	25375.1±5342.2
I 2900	69622.7±6907.8	28175.0±4491.0	16365.9±4128.7	26109.5±4286.1
I 2800	70053.6±7203.9	27379.4±3859.4	16615.8±4496.1	25104.8±5432.4
I 2700	70770.2±7006.4	28144.4±4231.8	17118.2±4204.0	25974.3±4839.6
I 2600	73095.8±6970.1	28605.9±4109.6	18005.6±4496.9	26739.3±3975.0
I 2500	72919.8±7082.9	28070.4±4090.1	18107.6±4460.5	25969.2±5025.2
I 2400	74080.1±6545.6	29796.8±4741.5	19214.3±4344.1	26425.7±4236.5
I 2300	72728.6±7111.9	29501.0±5198.6	18288.6±4633.7	24296.4±6413.5
I 2200	76158.3±7298.5	28845.6±5070.5	20203.7±5050.0	26216.6±5164.5
I 2100	76454.1±7786.4	29689.7±5274.8	21351.2±5245.4	25829.0±5318.5
I 2000	77415.5±8372.2	30467.4±4867.7	21608.7±6344.5	25897.8±5721.4
I 1900	78430.4±8830.4	31255.4±5246.7	22656.8±6124.4	24584.6±6290.7
I 1800	80136.3±8792.8	29947.2±4388.1	23103.0±6860.6	25377.6±5936.6
I 1700	82278.3±6712.7	30681.6±4367.1	24908.4±5675.3	27216.2±4085.8
I 1600	83303.4±6526.8	30600.0±5033.5	25443.9±5713.5	26624.6±4480.7
I 1500	83731.8±7515.0	30113.0±4405.4	25933.5±6169.7	26588.9±3895.8
I 1400	84598.8±6545.7	30944.3±3661.1	26907.6±5315.1	27073.4±3702.9
I 1300	84966.0±6905.5	30788.7±4211.6	26823.5±5916.9	26616.9±3483.0
I 1200	84698.3±6592.0	30309.3±4508.0	26820.9±5543.6	26583.8±3443.8
I 1100	83594.1±6513.4	30589.8±3873.9	25813.7±5389.8	27093.8±3698.6
I 1000	83719.1±6167.6	30913.7±4598.7	25660.7±5481.1	27124.4±2922.7
I 900	81472.5±6456.7	32456.4±4001.5	22559.9±5902.5	27448.2±3164.6
I 800	80546.9±5184.0	33295.4±3939.8	20328.6±4710.2	27374.3±2832.2
I 700	80835.0±6838.4	33927.8±3690.7	19658.0±5538.3	27277.4±2780.5
I 600	78932.7±7139.3	33649.8±2975.8	16998.3±5495.6	27453.3±2622.4
I 500	76301.1±7760.4	31482.3±3976.2	14565.6±6142.8	27598.7±2805.6
I 400	68283.9±8813.3	26186.0±5791.1	9149.4±6448.2	27024.9±2639.9
I 300	57515.3±9283.8	19109.7±6684.2	4544.1±4963.2	26300.7±2649.8
I 200	48707.6±8469.5	14315.7±5753.1	3707.7±3637.0	25581.6±2721.4
I 100	44046.2±7327.2	14818.1±4600.4	5082.2±3488.9	24194.4±3050.4
V 0	44987.1±6366.9	14631.9±5605.5	7512.3±3034.2	22381.4±2963.6
S 100	44393.0±7687.9	14631.9±5605.5	5186.7±3451.0	24209.7±3084.1
S 200	47945.1±8967.5	18380.4±6631.5	3672.0±3662.5	25326.6±3031.3

Table of Vertical Retinal Raw Integrated Density of Healthy Cases (PV)

S 300	57400.5±9335.3	26221.7±6267.9	4574.7±4980.0	26188.5±2705.6
S 400	67735.7±8283.0	30977.4±3772.8	9248.9±6128.6	27139.7±2705.3
S 500	76561.2±8018.6	33162.8±3727.9	15708.0±6412.4	27032.6±2611.7
S 600	81161.4±7177.4	34320.5±3777.6	18882.8±5530.9	27244.2±2533.6
S 700	82510.4±6882.0	34458.2±4305.2	20170.5±5320.8	27478.8±2883.4
S 800	81156.3±5550.8	33303.0±3909.7	20221.5±5034.5	27040.2±3385.3
S 900	82773.0±6763.8	32604.3±4528.3	22746.0±5855.4	27002.0±3274.6
S 1000	82982.1±6026.3	31122.8±4283.5	24388.2±5057.6	27137.1±3178.6
S 1100	83410.5±5822.1	31528.2±4243.9	24291.3±4772.8	27251.9±2965.3
S 1200	84874.2±5672.8	31941.3±3901.0	25382.7±4767.5	27295.2±3159.5
S 1300	84173.0±6245.2	31599.6±3540.4	25132.8±4687.3	27185.6±3802.0
S 1400	83940.9±6814.2	32293.2±3236.0	24242.9±4395.3	26920.4±3831.0
S 1500	83012.7±6901.6	31439.0±3082.7	23809.4±5486.6	27420.2±3435.8
S 1600	83459.0±6350.4	32762.4±3806.9	23238.2±4944.7	26976.5±3979.2
S 1700	81156.3±7214.5	31482.3±3988.4	22565.0±5517.4	26563.4±4015.6
S 1800	80778.9±6666.2	32211.6±4934.0	21307.8±4900.5	26973.9±4298.0
S 1900	79978.2±6795.0	32155.5±4454.3	20933.0±4730.5	26504.7±5736.4
S 2000	78659.9±7676.7	32033.1±4887.0	20117.0±4851.3	26086.5±5708.0
S 2100	78802.7±7076.8	31176.3±4354.4	20152.7±5031.5	26935.7±4445.6
S 2200	75862.5±6873.8	30776.0±4661.1	18645.6±4989.6	25880.0±4992.4
S 2300	75049.1±7441.5	30357.8±4022.0	18199.4±4691.0	25923.3±5304.9
S 2400	76051.2±7530.7	30332.3±4313.9	17944.4±4640.5	27241.7±4878.6
S 2500	73942.4±6900.1	29748.3±4125.2	17429.3±4544.6	26186.0±5265.2
S 2600	73057.5±6507.4	29587.7±4344.7	16888.7±3833.8	26106.9±5383.0
S 2700	73450.2±6856.6	29184.8±3998.8	17036.6±4367.9	26611.8±4529.7
S 2800	71729.0±7045.2	29210.3±4247.0	16564.8±4066.6	25584.2±6352.8
S 2900	71496.9±6952.0	29115.9±4302.9	15827.9±3965.9	26303.3±5628.4
S 3000	72035.0±6909.3	29478.0±4667.5	15845.7±3978.6	26346.6±4592.8
S 3100	70951.2±6860.1	27874.1±3889.1	15733.5±3922.3	26892.3±4641.6
S 3200	69959.3±7083.0	28294.8±5111.1	14703.3±3616.5	26716.4±4744.2

TABLE S.34. Table of Horizontal Retinal Raw Integrated Density of Healthy Cases.

Table of Horizontal Retinal Raw Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	81243.0±8976.3	31752.6±5160.0	22526.7±5206.7	26140.1±4720.4
N 3100	80796.8±8661.6	30722.4±4136.2	22029.5±4879.4	26594.0±4325.0
N 3000	81250.7±6878.8	30311.9±4155.6	23024.0±4250.2	27086.1±3715.4
N 2900	81345.0±7263.4	30156.3±3393.9	23411.6±4771.3	27246.8±4102.1
N 2800	81176.7±7890.9	29618.3±3824.8	23166.8±4988.7	27499.2±4789.4
N 2700	81171.6±6660.0	30296.6±4188.0	23549.3±4637.3	27675.2±4042.9
N 2600	82038.6±6663.4	30230.3±3534.0	24064.4±4872.6	27285.0±4263.4
N 2500	81704.6±6504.3	30062.0±3602.0	23799.2±4924.1	27014.7±4165.7
N 2400	82579.2±6743.1	30582.2±3640.2	24184.2±5040.9	27963.3±3868.0
N 2300	83510.0±6375.4	30592.4±3353.4	24633.0±4602.3	28083.2±3725.0
N 2200	83558.4±6293.5	30607.7±3878.2	24686.6±4421.1	27958.2±4071.5
N 2100	84007.2±6518.1	30801.5±3930.5	25191.5±5168.7	27866.4±3500.0
N 2000	83714.0±5915.2	30240.5±4172.5	24982.4±4889.1	27675.2±3564.2
N 1900	83770.1±6350.9	30301.7±3834.5	25341.9±5179.5	27787.4±3319.7
N 1800	84002.1±5686.5	30056.9±4743.9	25426.1±5081.6	27838.4±3258.8
N 1700	83999.6±6809.3	30640.8±3900.5	25619.9±4750.0	27886.8±3344.8
N 1600	84402.5±6659.8	30401.1±3816.6	25056.3±5509.1	28307.6±3256.6
N 1500	84310.7±5868.8	30324.6±4344.9	25079.3±4762.8	28435.1±3174.5
N 1400	83135.1±6084.0	31658.3±4330.0	23827.2±4937.4	28641.6±3314.3
N 1300	83601.8±7072.3	32147.9±5171.8	23049.5±5669.0	28452.9±3254.5
N 1200	83311.1±6473.5	32453.9±3662.8	22383.9±5287.4	28399.4±3270.5
N 1100	81666.3±5949.2	33009.8±4121.2	20106.8±5373.4	28674.8±2988.0
N 1000	82046.3±7024.1	33109.2±4300.8	19994.6±5294.6	28532.0±2858.7
N 900	81549.0±6807.3	33331.1±4139.7	19367.3±5321.0	28682.4±3079.4
N 800	80771.3±6128.4	33313.2±4331.7	17890.8±4573.2	29123.6±2809.4
N 700	79503.9±7120.5	33453.5±3389.7	16605.6±5617.1	29110.8±2598.4
N 600	77390.0±7299.9	32856.8±3854.2	14639.6±6405.3	28741.1±2529.9
N 500	72710.7±8614.7	30538.8±5041.5	11133.3±7123.7	28208.1±2586.8
N 400	66468.3±10467.2	25097.1±6907.7	7871.9±7156.5	27445.7±2662.8
N 300	56895.6±10157.0	17827.1±6926.5	4526.3±4922.6	26581.2±2676.2
N 200	48903.9±9427.6	13971.5±5652.1	4230.5±3964.9	26142.6±2693.4
N 100	44066.6±8778.9	14481.5±4298.1	5074.5±3999.1	24242.9±2810.8
H 0	44112.5±6819.1	14614.1±5044.1	5589.6±3717.9	23432.0±2927.2
T 100	44400.6±7521.0	14614.1±5044.1	4307.0±3617.1	24946.7±2699.2
T 200	48161.9±9116.4	17906.1±6498.4	3641.4±4101.7	26050.8±2663.6

Table of Horizontal Retinal Raw Integrated Density of Healthy Cases (PV)

T 300	57204.2±8874.5	25976.9±6276.9	3870.9±4210.2	26856.6±2562.8
T 400	66891.6±8626.3	31704.2±4195.9	7099.2±6269.8	27529.8±2510.5
T 500	72116.6±7330.3	32492.1±2821.0	10998.2±6193.9	28085.7±2699.2
T 600	76928.4±6691.4	33236.7±3840.2	14886.9±5932.7	28218.3±2472.1
T 700	77981.6±6505.1	32499.8±3995.3	16743.3±4595.8	28399.4±2486.3
T 800	78257.0±6478.3	32512.5±4247.9	17041.7±4501.6	28182.6±2484.6
T 900	79014.3±6373.8	32469.2±4382.4	17679.2±4307.6	28376.4±2785.4
T 1000	80210.3±6375.3	32657.9±4629.9	18648.2±4861.3	28519.2±2758.8
T 1100	80636.1±5725.0	32499.8±4498.9	19627.4±4166.9	28131.6±2993.6
T 1200	80011.4±5697.0	32130.0±4489.7	19178.6±4498.6	28254.0±2685.0
T 1300	78978.6±6510.4	31655.7±4586.3	18655.8±4125.4	28282.1±2654.8
T 1400	79843.1±6380.2	31648.1±4323.5	19415.7±3974.0	28542.2±2655.5
T 1500	79817.6±6670.2	32017.8±5655.9	19114.8±4284.5	28391.7±2849.1
T 1600	80200.1±6747.3	31887.8±4790.4	19323.9±3970.9	28679.9±2805.9
T 1700	79975.7±6477.5	31742.4±5226.3	19176.0±3910.7	28741.1±2751.5
T 1800	79718.1±6704.4	32007.6±4890.6	18413.6±3612.8	28934.9±2660.0
T 1900	79570.2±6858.9	32489.6±4592.3	17799.0±3910.3	29019.0±2832.4
T 2000	78976.1±6384.5	32336.6±5051.3	17391.0±3047.5	28940.0±2446.0
T 2100	79287.2±7169.9	31380.3±4602.0	18263.1±3984.5	29335.2±2734.9
T 2200	77820.9±6627.3	31956.6±5243.2	16837.7±3216.4	28792.1±2637.6
T 2300	76530.6±6184.4	30566.9±4981.0	16656.6±2940.7	29087.9±2724.2
T 2400	75684.0±6669.2	30176.7±4967.6	16095.6±3044.4	29210.3±2756.1
T 2500	75500.4±7185.5	29656.5±5580.6	16289.4±3156.0	29197.5±2645.2
T 2600	73669.5±6868.8	28700.3±6006.3	15453.0±2986.8	29274.0±2863.3
T 2700	72963.2±6184.1	28126.5±5656.9	15430.1±2773.7	29115.9±2548.8
T 2800	71568.3±6981.5	27221.3±5502.1	14894.6±2821.9	29151.6±2873.3
T 2900	70747.2±6805.1	26764.8±6227.0	14560.5±2551.2	29100.6±2619.4
T 3000	71474.0±6668.4	27585.9±5978.7	14892.0±2740.7	28639.1±3231.6
T 3100	70188.8±6852.4	27058.1±5688.2	14262.2±2636.9	28654.4±3438.2
T 3200	69918.5±6983.4	26787.8±5869.0	13981.7±2598.7	28886.4±2975.3

TABLE S.35. Table of Vertical Retinal Feret of Healthy Cases.

Table of Vertical Retinal Feret of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	70.0±4.7	25.0±1.5	24.8±1.8	24.0±1.7
I 3100	70.7±4.7	25.1±1.5	25.0±1.7	24.3±1.6
I 3000	71.2±4.7	25.4±1.6	25.2±1.8	24.3±1.6
I 2900	71.7±4.8	25.6±1.6	25.4±1.8	24.5±1.6
I 2800	72.3±4.9	25.9±1.6	25.7±1.8	24.6±1.6
I 2700	73.2±5.0	26.2±1.6	25.9±1.8	24.9±1.6
I 2600	74.1±5.1	26.5±1.6	26.2±1.8	25.2±1.7
I 2500	75.2±5.2	26.8±1.7	26.5±1.7	25.5±1.7
I 2400	76.3±5.3	27.3±1.7	26.9±1.8	26.0±1.8
I 2300	77.7±5.2	27.8±1.8	27.3±1.7	26.4±1.8
I 2200	79.0±5.4	28.1±1.8	27.8±1.8	26.8±1.9
I 2100	80.4±5.5	28.7±1.8	28.1±1.8	27.4±1.9
I 2000	82.0±5.5	29.1±1.8	28.7±1.8	27.7±1.9
I 1900	83.7±5.5	29.8±1.8	29.1±1.8	28.5±1.7
I 1800	85.2±5.6	30.2±1.8	29.7±1.8	28.7±1.7
I 1700	86.8±5.5	30.7±1.8	30.2±1.7	29.4±1.8
I 1600	88.3±5.5	31.1±1.8	30.7±1.8	29.8±1.8
I 1500	89.7±5.4	31.5±1.7	31.1±1.7	30.2±1.8
I 1400	90.8±5.3	31.7±1.6	31.4±1.8	30.6±1.7
I 1300	91.5±5.1	31.8±1.6	31.6±1.6	30.8±1.8
I 1200	91.9±4.9	31.8±1.6	31.7±1.6	31.0±1.7
I 1100	91.9±5.0	31.7±1.7	31.8±1.6	30.9±1.7
I 1000	91.4±5.0	31.3±1.7	31.7±1.7	30.8±1.7
I 900	90.3±5.1	30.7±1.7	31.3±1.7	30.4±1.7
I 800	88.5±5.2	29.9±1.8	30.7±1.7	29.8±1.7
I 700	86.0±5.6	28.9±1.9	29.9±1.8	29.1±1.9
I 600	82.8±6.0	27.6±2.1	28.9±2.0	28.0±2.0
I 500	78.6±6.4	26.0±2.3	27.6±2.1	26.7±2.2
I 400	73.9±7.0	24.2±2.4	26.0±2.3	25.3±2.4
I 300	68.3±7.2	22.6±2.3	24.3±2.5	23.5±2.4
I 200	63.0±7.1	21.4±2.1	22.6±2.4	21.7±2.5
I 100	59.2±6.6	20.8±1.9	21.4±2.3	20.7±2.4
V 0	57.7±6.1	21.3±2.1	20.9±2.1	20.3±2.4
S 100	59.1±6.7	21.3±2.1	21.3±2.2	20.7±2.6
S 200	63.0±7.4	22.6±2.3	22.6±2.4	21.9±2.7

Table of Vertical Retinal Feret of Healthy Cases (Pixel)

S 300	68.3±7.4	24.2±2.5	24.2±2.4	23.6±2.5
S 400	74.0±7.1	26.1±2.4	26.0±2.2	25.3±2.5
S 500	79.2±6.4	27.7±2.2	27.6±2.1	27.0±2.2
S 600	83.4±5.9	29.1±2.0	29.0±1.9	28.2±1.9
S 700	86.9±5.4	30.2±1.8	30.1±1.7	29.4±1.9
S 800	89.4±5.1	31.0±1.7	30.9±1.7	30.2±1.7
S 900	91.2±5.0	31.5±1.6	31.5±1.6	30.8±1.7
S 1000	92.3±4.8	31.9±1.6	31.8±1.6	31.2±1.7
S 1100	92.8±4.7	32.1±1.5	32.0±1.5	31.3±1.6
S 1200	92.8±4.7	32.1±1.5	32.1±1.5	31.2±1.7
S 1300	92.4±4.8	32.0±1.5	32.0±1.5	31.1±1.7
S 1400	91.7±4.9	31.7±1.6	31.7±1.6	31.0±1.7
S 1500	90.8±5.0	31.4±1.6	31.4±1.6	30.6±1.7
S 1600	89.6±5.1	31.1±1.6	31.1±1.6	30.3±1.7
S 1700	88.4±5.1	30.6±1.6	30.7±1.6	29.9±1.8
S 1800	87.2±5.1	30.4±1.6	30.4±1.6	29.3±1.7
S 1900	86.1±5.1	30.0±1.6	30.0±1.6	29.0±1.8
S 2000	84.9±5.1	29.6±1.6	29.6±1.6	28.7±1.7
S 2100	83.6±5.2	29.1±1.6	29.2±1.7	28.3±1.7
S 2200	82.4±5.4	28.7±1.7	28.8±1.8	27.9±1.7
S 2300	81.1±5.3	28.3±1.6	28.4±1.7	27.5±1.8
S 2400	80.0±5.0	28.0±1.6	28.1±1.7	27.1±1.7
S 2500	79.0±4.8	27.7±1.5	27.7±1.6	26.8±1.7
S 2600	78.1±4.9	27.4±1.6	27.4±1.6	26.5±1.6
S 2700	77.2±4.8	27.1±1.6	27.1±1.7	26.2±1.6
S 2800	76.5±4.8	26.9±1.6	26.9±1.7	26.0±1.5
S 2900	75.8±4.8	26.7±1.6	26.7±1.7	25.7±1.6
S 3000	75.1±4.8	26.4±1.7	26.4±1.6	25.6±1.6
S 3100	74.5±4.8	26.3±1.7	26.3±1.7	25.4±1.6
S 3200	73.6±4.7	26.0±1.6	26.0±1.5	25.1±1.6

TABLE S.36. Table of Horizontal Retinal Feret of Healthy Cases.

Table of Horizontal Retinal Feret of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	79.0±6.0	27.7±1.9	27.5±2.0	26.9±2.0
N 3100	79.2±5.8	27.9±1.9	27.7±1.9	26.9±1.9
N 3000	79.6±5.7	27.9±1.9	27.9±1.9	27.0±1.8
N 2900	79.9±5.8	28.2±1.9	27.9±1.9	27.2±2.0
N 2800	80.5±5.9	28.4±1.9	28.2±1.9	27.2±2.0
N 2700	81.2±5.9	28.6±1.9	28.4±1.9	27.5±1.9
N 2600	82.1±5.9	28.9±2.0	28.6±1.9	27.9±2.0
N 2500	83.0±5.8	29.3±1.9	28.9±2.0	28.2±1.9
N 2400	84.0±5.8	29.7±1.9	29.3±1.9	28.4±1.9
N 2300	85.1±5.8	30.0±1.9	29.7±1.9	28.7±1.8
N 2200	86.2±5.7	30.4±1.8	30.0±1.9	29.2±1.8
N 2100	87.3±5.5	30.7±1.7	30.4±1.8	29.4±1.8
N 2000	88.3±5.3	31.0±1.7	30.7±1.7	29.8±1.8
N 1900	89.5±5.2	31.3±1.6	31.0±1.7	30.3±1.7
N 1800	90.4±5.0	31.6±1.6	31.3±1.6	30.5±1.8
N 1700	91.2±4.8	31.9±1.5	31.6±1.6	30.7±1.6
N 1600	92.0±4.7	32.0±1.5	31.9±1.5	30.9±1.6
N 1500	92.5±4.5	32.1±1.5	32.0±1.5	31.1±1.5
N 1400	92.6±4.4	32.0±1.5	32.1±1.5	31.2±1.5
N 1300	92.3±4.4	31.8±1.5	32.0±1.5	31.1±1.5
N 1200	91.8±4.6	31.5±1.6	31.8±1.5	30.9±1.5
N 1100	91.0±4.7	31.1±1.6	31.5±1.6	30.6±1.6
N 1000	89.7±4.9	30.5±1.7	31.1±1.6	30.3±1.6
N 900	88.0±5.3	29.9±1.9	30.5±1.7	29.8±1.8
N 800	85.8±5.6	29.0±2.0	29.9±1.9	28.9±1.8
N 700	83.2±6.1	28.0±2.2	29.0±2.0	28.2±1.9
N 600	80.1±6.5	26.7±2.3	28.0±2.2	27.3±2.1
N 500	76.3±7.2	25.4±2.5	26.7±2.3	26.0±2.3
N 400	72.0±7.6	23.8±2.4	25.4±2.5	24.7±2.4
N 300	67.2±7.6	22.4±2.2	23.8±2.4	23.1±2.5
N 200	62.7±7.0	21.3±2.0	22.4±2.2	21.8±2.3
N 100	59.2±6.2	20.9±1.8	21.3±2.0	20.7±1.9
H 0	58.0±5.6	21.2±1.9	20.9±1.8	20.3±1.8
T 100	59.0±6.0	21.2±1.9	21.3±1.9	20.6±2.0
T 200	61.8±6.6	22.1±2.0	22.1±2.0	21.5±2.1

Table of Horizontal Retinal Feret of Healthy Cases (Pixel)

T 300	66.4±6.8	23.6±2.1	23.6±2.1	22.9±2.3
T 400	71.1±6.3	25.1±2.1	25.1±2.1	24.4±2.0
T 500	75.4±5.9	26.4±1.9	26.4±1.9	25.7±2.0
T 600	78.7±5.5	27.5±1.8	27.5±1.8	26.8±1.8
T 700	81.4±5.0	28.5±1.6	28.5±1.6	27.5±1.6
T 800	83.5±4.6	29.1±1.5	29.1±1.5	28.3±1.6
T 900	85.1±4.6	29.7±1.5	29.7±1.5	28.8±1.7
T 1000	86.2±4.5	30.0±1.5	30.0±1.5	29.1±1.6
T 1100	86.9±4.4	30.2±1.4	30.2±1.4	29.3±1.5
T 1200	87.2±4.5	30.3±1.5	30.3±1.5	29.5±1.5
T 1300	87.1±4.4	30.3±1.4	30.3±1.4	29.4±1.5
T 1400	86.7±4.5	30.2±1.5	30.2±1.5	29.2±1.6
T 1500	86.0±4.6	30.0±1.5	30.0±1.5	29.0±1.6
T 1600	85.2±4.7	29.7±1.6	29.7±1.6	28.8±1.5
T 1700	84.1±4.8	29.4±1.6	29.4±1.6	28.4±1.6
T 1800	82.9±4.8	28.9±1.5	28.9±1.5	28.1±1.7
T 1900	81.7±4.9	28.6±1.6	28.6±1.6	27.7±1.7
T 2000	80.5±5.0	28.2±1.6	28.2±1.6	27.4±1.7
T 2100	79.1±5.1	27.7±1.6	27.7±1.6	26.9±1.8
T 2200	77.9±5.0	27.4±1.6	27.4±1.6	26.5±1.7
T 2300	76.6±5.0	27.0±1.6	27.0±1.6	26.0±1.7
T 2400	75.4±4.9	26.6±1.6	26.6±1.6	25.6±1.6
T 2500	74.3±4.9	26.1±1.5	26.1±1.5	25.4±1.7
T 2600	73.3±4.8	25.9±1.5	25.9±1.5	25.0±1.6
T 2700	72.3±4.8	25.6±1.6	25.6±1.6	24.6±1.6
T 2800	71.3±4.7	25.2±1.5	25.2±1.5	24.4±1.6
T 2900	70.4±4.7	24.9±1.5	24.9±1.5	24.2±1.6
T 3000	69.6±4.6	24.7±1.5	24.7±1.5	23.8±1.5
T 3100	68.6±4.6	24.4±1.5	24.4±1.5	23.4±1.5
T 3200	67.8±4.6	24.1±1.5	24.1±1.5	23.1±1.5

TABLE S.37. Table of Vertical Retinal Feret Angle of Healthy Cases.

Table of Vertical Retinal Feret Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	93.8±5.4	103.7±13.0	108.9±1.3	106.6±10.6
I 3100	94.9±4.2	104.1±12.2	108.7±1.2	107.5±8.3
I 3000	95.1±3.9	102.4±13.8	108.6±1.2	108.1±6.7
I 2900	94.4±4.5	98.6±16.3	108.4±1.3	106.5±9.8
I 2800	93.6±5.0	98.1±16.3	108.2±1.2	107.2±8.4
I 2700	93.4±5.0	98.6±15.8	108.1±1.2	107.1±8.1
I 2600	93.4±5.0	96.7±16.4	107.9±1.2	105.8±10.0
I 2500	93.0±5.0	92.4±17.3	107.6±1.1	107.0±7.2
I 2400	92.0±5.1	93.3±16.9	107.4±1.2	104.8±10.3
I 2300	91.8±5.3	91.1±16.8	107.1±1.1	105.4±9.0
I 2200	91.4±5.2	88.5±16.7	106.8±1.1	105.8±7.6
I 2100	90.5±5.2	85.4±15.7	106.6±1.1	103.5±10.6
I 2000	89.8±4.9	84.2±15.0	106.2±1.0	104.9±8.0
I 1900	89.4±4.7	84.3±14.7	106.0±1.0	104.1±8.3
I 1800	89.7±4.6	82.4±13.5	105.7±1.0	103.7±8.8
I 1700	89.5±4.1	84.1±14.0	105.4±0.9	103.4±8.5
I 1600	89.3±4.4	85.9±14.4	105.2±0.9	103.8±7.4
I 1500	90.0±4.4	90.0±14.9	105.0±0.9	103.0±8.3
I 1400	90.4±4.8	97.1±12.9	104.8±0.9	102.9±8.2
I 1300	92.5±4.3	100.0±10.8	104.7±0.8	103.6±6.6
I 1200	93.4±3.6	102.9±6.9	104.6±0.8	102.4±8.5
I 1100	94.2±2.7	104.4±3.0	104.6±0.8	102.8±8.0
I 1000	94.5±2.1	104.6±3.1	104.7±0.8	103.4±7.1
I 900	94.7±1.9	104.8±3.1	104.9±0.8	103.5±7.3
I 800	94.9±1.4	105.6±1.0	105.1±0.9	103.8±7.4
I 700	95.0±1.5	106.2±1.1	105.6±1.0	104.8±6.4
I 600	95.1±1.6	107.0±1.3	106.2±1.1	103.6±9.7
I 500	95.5±1.7	108.1±1.6	107.0±1.4	105.3±8.8
I 400	96.0±1.3	109.5±1.9	108.1±1.6	106.9±8.0
I 300	96.3±2.1	110.9±2.1	109.4±1.9	106.9±11.1
I 200	97.0±1.7	111.8±4.6	110.9±2.1	109.2±10.8
I 100	97.4±2.2	101.7±19.4	112.2±2.2	110.5±10.8
V 0	93.9±6.8	78.5±19.3	112.7±2.2	110.4±12.0
S 100	86.3±6.7	78.5±19.3	112.3±2.2	110.1±11.5
S 200	83.7±3.1	69.9±6.6	111.0±2.1	111.0±6.1

Table of Vertical Retinal Feret Angle of Healthy Cases (Degree)

S 300	84.2±2.3	70.8±3.7	109.5±1.9	106.6±11.6
S 400	84.8±2.3	72.2±3.5	108.0±1.6	104.7±11.5
S 500	85.0±2.0	73.3±3.3	106.9±1.3	104.2±10.1
S 600	85.2±1.8	74.2±3.1	106.1±1.1	104.3±8.3
S 700	85.5±1.8	74.8±3.0	105.5±0.9	101.9±10.6
S 800	85.7±2.2	76.1±5.7	105.0±0.8	102.0±9.8
S 900	85.9±2.8	77.9±8.5	104.8±0.8	99.5±11.9
S 1000	87.4±4.1	83.2±13.0	104.6±0.7	98.6±12.2
S 1100	89.7±4.9	91.7±14.5	104.5±0.7	97.7±12.7
S 1200	91.1±4.8	98.7±11.6	104.5±0.7	96.6±13.4
S 1300	91.9±4.5	101.3±9.2	104.5±0.7	97.4±13.1
S 1400	92.6±4.1	103.5±5.9	104.7±0.8	96.5±13.6
S 1500	92.2±4.1	104.2±4.2	104.8±0.8	94.4±14.6
S 1600	92.4±4.1	105.0±0.8	105.0±0.8	94.9±14.7
S 1700	92.0±4.5	104.3±5.2	105.2±0.8	93.6±15.2
S 1800	92.1±4.2	104.1±6.1	105.3±0.9	91.7±15.9
S 1900	91.7±4.8	104.6±5.4	105.5±0.9	94.3±15.6
S 2000	91.1±4.8	105.4±3.2	105.7±0.9	89.7±16.4
S 2100	91.1±4.7	104.5±6.9	106.0±0.9	89.8±16.6
S 2200	90.0±5.2	104.6±7.3	106.2±1.0	88.2±16.7
S 2300	90.5±5.4	104.1±8.6	106.5±1.0	89.5±17.1
S 2400	89.6±5.5	103.2±10.3	106.6±1.0	87.4±17.2
S 2500	89.3±5.6	103.7±9.9	106.8±1.0	87.1±17.3
S 2600	88.7±5.5	102.2±12.0	107.0±1.0	85.6±17.2
S 2700	87.9±5.4	101.0±13.4	107.2±1.1	83.4±16.7
S 2800	88.0±5.7	98.7±15.2	107.4±1.1	83.8±17.0
S 2900	87.8±5.6	98.2±15.5	107.5±1.1	83.9±17.2
S 3000	87.3±5.4	97.7±16.0	107.7±1.1	82.9±17.0
S 3100	86.7±5.2	94.5±17.4	107.8±1.1	80.6±16.0
S 3200	88.9±6.2	102.5±13.1	108.0±1.1	86.5±18.4

TABLE S.38. Table of Horizontal Retinal Feret Angle of Healthy Cases.

Table of Horizontal Retinal Feret Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	91.7±5.6	97.7±15.1	107.0±1.2	99.3±14.8
N 3100	91.3±5.6	95.9±15.8	106.9±1.2	97.6±15.8
N 3000	91.1±5.7	96.8±15.4	106.8±1.2	98.3±15.3
N 2900	91.1±5.6	97.4±15.0	106.7±1.1	97.9±15.4
N 2800	90.7±5.7	97.9±14.5	106.6±1.1	97.5±15.6
N 2700	91.1±5.4	96.9±14.9	106.4±1.1	97.1±15.6
N 2600	90.6±5.5	98.5±13.9	106.3±1.1	96.0±15.7
N 2500	91.0±5.4	95.8±14.9	106.2±1.1	96.2±15.5
N 2400	90.4±5.2	96.3±14.5	105.9±1.0	97.5±14.7
N 2300	91.3±4.8	96.6±14.2	105.7±1.0	97.6±14.5
N 2200	89.9±5.2	95.5±14.4	105.5±1.0	96.3±14.8
N 2100	90.7±4.9	98.1±12.9	105.3±0.9	98.6±13.4
N 2000	91.3±4.8	96.0±13.8	105.2±0.9	96.7±14.2
N 1900	90.7±4.7	97.4±12.9	105.0±0.9	97.4±13.6
N 1800	90.7±4.9	98.5±12.1	104.9±0.8	97.0±13.7
N 1700	91.2±4.8	97.8±12.4	104.7±0.8	96.9±13.6
N 1600	90.9±4.7	98.4±11.9	104.6±0.7	95.3±14.1
N 1500	91.7±4.6	95.0±13.7	104.5±0.7	97.7±12.8
N 1400	90.7±4.9	95.8±13.4	104.5±0.7	97.1±13.2
N 1300	91.1±4.9	92.7±14.5	104.5±0.7	98.3±12.5
N 1200	90.6±5.0	92.3±14.6	104.6±0.7	99.4±11.9
N 1100	90.6±5.0	90.6±15.0	104.7±0.8	100.4±11.2
N 1000	90.2±5.1	90.0±15.3	105.0±0.8	99.8±11.9
N 900	89.7±5.1	90.0±15.7	105.2±0.9	100.1±12.0
N 800	90.0±5.4	90.0±16.2	105.6±1.0	101.9±10.9
N 700	90.0±5.5	90.0±16.9	106.1±1.2	101.4±12.1
N 600	89.9±5.6	90.0±17.7	106.7±1.3	103.6±10.6
N 500	90.1±5.8	90.1±18.8	107.5±1.6	103.4±12.2
N 400	89.8±6.4	90.1±20.0	108.6±1.8	104.8±12.3
N 300	90.0±6.9	90.1±21.4	109.8±2.0	107.5±11.0
N 200	90.2±7.1	95.7±21.7	111.2±2.1	109.3±10.4
N 100	91.4±7.6	102.3±19.1	112.3±2.0	109.3±12.6
H 0	93.3±7.2	96.6±21.4	112.6±1.9	109.7±12.9
T 100	91.6±7.5	96.6±21.4	112.3±1.9	109.7±12.2
T 200	90.1±7.4	90.9±21.5	111.4±1.9	109.4±10.8

Table of Horizontal Retinal Feret Angle of Healthy Cases (Degree)

T 300	89.8±6.6	89.5±20.2	110.0±1.8	107.0±11.8
T 400	90.0±6.2	90.1±18.9	108.7±1.6	105.9±10.9
T 500	89.9±6.0	90.0±17.9	107.7±1.3	103.1±12.7
T 600	90.0±5.7	90.3±17.1	107.0±1.2	103.9±10.6
T 700	90.2±5.6	90.3±16.5	106.4±1.0	103.2±10.8
T 800	90.0±5.4	90.0±16.1	106.0±0.8	101.7±11.7
T 900	90.2±5.4	90.7±15.8	105.7±0.8	101.1±11.9
T 1000	90.3±5.3	91.9±15.5	105.5±0.8	98.4±13.7
T 1100	91.1±5.2	94.3±14.9	105.4±0.8	100.4±12.0
T 1200	91.3±5.1	96.5±14.0	105.4±0.8	96.7±14.4
T 1300	91.7±4.9	99.8±11.9	105.4±0.7	99.0±13.2
T 1400	91.4±5.0	100.5±11.4	105.4±0.8	96.7±14.5
T 1500	91.2±4.9	99.7±12.2	105.5±0.8	96.5±14.8
T 1600	91.2±4.9	99.5±12.6	105.7±0.9	96.4±14.9
T 1700	91.2±4.8	97.5±14.1	105.9±0.9	97.5±14.7
T 1800	90.2±5.0	96.7±14.7	106.1±0.9	96.2±15.5
T 1900	90.9±5.1	98.0±14.3	106.3±0.9	96.4±15.7
T 2000	90.8±5.0	96.8±15.2	106.6±0.9	96.7±15.8
T 2100	90.3±5.2	98.6±14.5	106.8±1.0	93.5±17.2
T 2200	90.3±5.4	97.0±15.7	107.1±1.0	97.3±16.2
T 2300	90.1±5.4	98.2±15.4	107.3±1.0	94.2±17.6
T 2400	90.9±5.9	99.9±14.6	107.6±1.1	96.2±17.3
T 2500	90.2±5.9	99.5±15.3	107.9±1.1	95.4±17.8
T 2600	90.4±6.1	98.4±16.1	108.1±1.1	94.9±18.3
T 2700	90.7±6.1	99.4±15.8	108.3±1.1	94.2±18.7
T 2800	90.4±6.4	98.0±16.9	108.6±1.1	96.5±18.3
T 2900	90.5±6.4	98.1±17.1	108.8±1.1	95.8±18.7
T 3000	90.4±6.4	99.6±16.5	109.0±1.1	93.5±19.5
T 3100	90.7±6.6	98.1±17.5	109.2±1.2	96.4±19.2
T 3200	90.5±6.8	98.0±17.8	109.4±1.2	98.5±18.6

TABLE S.39. Table of Vertical Retinal Circularity of Healthy Cases.

Table of Vertical Retinal Circularity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.29±0.02	0.58±0.02	0.60±0.02	0.63±0.03
I 3100	0.29±0.02	0.58±0.02	0.59±0.02	0.63±0.03
I 3000	0.29±0.02	0.57±0.02	0.59±0.02	0.63±0.03
I 2900	0.29±0.02	0.57±0.02	0.59±0.02	0.63±0.03
I 2800	0.29±0.02	0.57±0.02	0.59±0.02	0.62±0.03
I 2700	0.28±0.02	0.56±0.02	0.58±0.02	0.62±0.03
I 2600	0.28±0.02	0.56±0.02	0.58±0.02	0.61±0.03
I 2500	0.28±0.02	0.56±0.02	0.57±0.02	0.61±0.03
I 2400	0.27±0.02	0.55±0.02	0.57±0.02	0.60±0.03
I 2300	0.27±0.02	0.55±0.02	0.56±0.02	0.60±0.03
I 2200	0.27±0.01	0.54±0.02	0.56±0.02	0.59±0.03
I 2100	0.26±0.02	0.53±0.02	0.56±0.02	0.58±0.03
I 2000	0.26±0.01	0.53±0.02	0.55±0.02	0.58±0.03
I 1900	0.25±0.01	0.52±0.02	0.54±0.02	0.57±0.03
I 1800	0.25±0.01	0.52±0.02	0.54±0.02	0.57±0.02
I 1700	0.25±0.01	0.51±0.02	0.53±0.02	0.56±0.03
I 1600	0.24±0.01	0.51±0.02	0.53±0.02	0.55±0.02
I 1500	0.24±0.01	0.51±0.02	0.52±0.02	0.55±0.02
I 1400	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
I 1300	0.23±0.01	0.51±0.02	0.52±0.02	0.54±0.02
I 1200	0.23±0.01	0.50±0.02	0.52±0.02	0.54±0.02
I 1100	0.23±0.01	0.51±0.02	0.51±0.02	0.54±0.02
I 1000	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
I 900	0.24±0.01	0.52±0.02	0.52±0.02	0.54±0.02
I 800	0.24±0.01	0.53±0.02	0.53±0.02	0.55±0.02
I 700	0.25±0.01	0.54±0.02	0.54±0.02	0.56±0.03
I 600	0.26±0.02	0.55±0.02	0.55±0.02	0.57±0.03
I 500	0.27±0.02	0.56±0.02	0.56±0.03	0.59±0.03
I 400	0.28±0.02	0.58±0.03	0.58±0.03	0.61±0.04
I 300	0.30±0.02	0.60±0.03	0.60±0.03	0.63±0.04
I 200	0.32±0.03	0.62±0.03	0.63±0.03	0.66±0.04
I 100	0.34±0.03	0.64±0.03	0.64±0.03	0.67±0.04
V 0	0.35±0.03	0.62±0.03	0.65±0.03	0.68±0.04
S 100	0.34±0.03	0.62±0.03	0.65±0.03	0.67±0.05
S 200	0.32±0.03	0.59±0.03	0.63±0.03	0.65±0.04

Table of Vertical Retinal Circularity of Healthy Cases

S 300	0.30±0.03	0.56±0.03	0.61±0.03	0.63±0.04
S 400	0.28±0.02	0.55±0.03	0.58±0.03	0.60±0.04
S 500	0.26±0.02	0.53±0.02	0.56±0.02	0.58±0.03
S 600	0.25±0.01	0.53±0.02	0.54±0.02	0.56±0.03
S 700	0.25±0.01	0.52±0.02	0.53±0.02	0.55±0.03
S 800	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
S 900	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
S 1000	0.23±0.01	0.50±0.02	0.51±0.02	0.53±0.02
S 1100	0.23±0.01	0.50±0.02	0.51±0.02	0.53±0.02
S 1200	0.23±0.01	0.50±0.02	0.51±0.02	0.53±0.02
S 1300	0.23±0.01	0.50±0.02	0.51±0.02	0.53±0.02
S 1400	0.23±0.01	0.51±0.02	0.52±0.02	0.54±0.02
S 1500	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
S 1600	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
S 1700	0.24±0.01	0.51±0.02	0.53±0.02	0.55±0.03
S 1800	0.24±0.01	0.52±0.02	0.53±0.02	0.56±0.02
S 1900	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.03
S 2000	0.25±0.01	0.53±0.02	0.54±0.02	0.57±0.02
S 2100	0.25±0.01	0.53±0.02	0.54±0.02	0.57±0.03
S 2200	0.26±0.01	0.54±0.02	0.55±0.02	0.57±0.03
S 2300	0.26±0.01	0.54±0.02	0.55±0.02	0.58±0.03
S 2400	0.26±0.01	0.54±0.02	0.56±0.02	0.59±0.03
S 2500	0.27±0.01	0.55±0.02	0.56±0.02	0.59±0.03
S 2600	0.27±0.01	0.55±0.02	0.56±0.02	0.60±0.03
S 2700	0.27±0.01	0.55±0.02	0.57±0.02	0.60±0.03
S 2800	0.27±0.01	0.56±0.02	0.57±0.02	0.60±0.03
S 2900	0.28±0.01	0.56±0.02	0.57±0.02	0.61±0.03
S 3000	0.28±0.02	0.56±0.02	0.58±0.02	0.61±0.03
S 3100	0.28±0.01	0.56±0.02	0.58±0.02	0.61±0.03
S 3200	0.28±0.02	0.57±0.02	0.58±0.02	0.61±0.03

TABLE S.40. Table of Horizontal Retinal Circularity of Healthy Cases.

Table of Horizontal Retinal Circularity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	0.27±0.02	0.55±0.02	0.56±0.02	0.58±0.03
N 3100	0.27±0.02	0.55±0.02	0.56±0.02	0.59±0.03
N 3000	0.26±0.02	0.54±0.02	0.56±0.02	0.59±0.03
N 2900	0.26±0.02	0.54±0.02	0.56±0.02	0.58±0.03
N 2800	0.26±0.02	0.54±0.02	0.55±0.02	0.58±0.03
N 2700	0.26±0.02	0.54±0.02	0.55±0.02	0.58±0.03
N 2600	0.26±0.02	0.53±0.02	0.55±0.02	0.57±0.03
N 2500	0.26±0.01	0.53±0.02	0.55±0.02	0.57±0.03
N 2400	0.25±0.01	0.52±0.02	0.54±0.02	0.57±0.03
N 2300	0.25±0.01	0.52±0.02	0.54±0.02	0.57±0.03
N 2200	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.03
N 2100	0.24±0.01	0.51±0.02	0.53±0.02	0.56±0.02
N 2000	0.24±0.01	0.51±0.02	0.53±0.02	0.55±0.03
N 1900	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
N 1800	0.24±0.01	0.50±0.02	0.52±0.02	0.54±0.02
N 1700	0.24±0.01	0.50±0.02	0.52±0.02	0.54±0.02
N 1600	0.23±0.01	0.50±0.02	0.51±0.02	0.54±0.02
N 1500	0.23±0.01	0.50±0.02	0.51±0.02	0.54±0.02
N 1400	0.23±0.01	0.50±0.02	0.51±0.01	0.53±0.02
N 1300	0.23±0.01	0.50±0.02	0.51±0.01	0.54±0.02
N 1200	0.23±0.01	0.51±0.02	0.51±0.02	0.54±0.02
N 1100	0.24±0.01	0.51±0.02	0.52±0.02	0.54±0.02
N 1000	0.24±0.01	0.52±0.02	0.52±0.02	0.54±0.02
N 900	0.24±0.01	0.52±0.02	0.53±0.02	0.55±0.02
N 800	0.25±0.01	0.53±0.02	0.54±0.02	0.56±0.02
N 700	0.26±0.02	0.54±0.02	0.55±0.02	0.57±0.02
N 600	0.26±0.02	0.55±0.02	0.56±0.03	0.58±0.03
N 500	0.27±0.02	0.56±0.03	0.57±0.03	0.59±0.03
N 400	0.29±0.03	0.58±0.03	0.59±0.03	0.61±0.04
N 300	0.30±0.03	0.60±0.04	0.61±0.03	0.63±0.04
N 200	0.32±0.03	0.62±0.03	0.63±0.03	0.65±0.04
N 100	0.34±0.03	0.64±0.03	0.65±0.03	0.67±0.04
H 0	0.34±0.03	0.62±0.03	0.65±0.03	0.68±0.04
T 100	0.34±0.03	0.62±0.03	0.65±0.03	0.67±0.04
T 200	0.32±0.03	0.60±0.03	0.63±0.03	0.66±0.04

Table of Horizontal Retinal Circularity of Healthy Cases

T 300	0.31±0.03	0.58±0.03	0.61±0.03	0.64±0.04
T 400	0.29±0.02	0.57±0.02	0.59±0.03	0.62±0.03
T 500	0.28±0.02	0.56±0.02	0.58±0.02	0.60±0.03
T 600	0.27±0.02	0.55±0.02	0.56±0.02	0.58±0.03
T 700	0.26±0.01	0.54±0.02	0.55±0.02	0.58±0.03
T 800	0.25±0.01	0.53±0.02	0.54±0.02	0.57±0.03
T 900	0.25±0.01	0.53±0.01	0.54±0.02	0.56±0.02
T 1000	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.02
T 1100	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.02
T 1200	0.24±0.01	0.52±0.02	0.53±0.02	0.55±0.02
T 1300	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.02
T 1400	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.02
T 1500	0.25±0.01	0.52±0.02	0.53±0.02	0.56±0.02
T 1600	0.25±0.01	0.52±0.02	0.54±0.02	0.56±0.02
T 1700	0.25±0.01	0.53±0.02	0.54±0.02	0.57±0.02
T 1800	0.26±0.01	0.53±0.02	0.55±0.02	0.57±0.03
T 1900	0.26±0.01	0.54±0.02	0.55±0.02	0.58±0.03
T 2000	0.26±0.01	0.54±0.02	0.55±0.02	0.58±0.03
T 2100	0.27±0.01	0.54±0.02	0.56±0.02	0.59±0.03
T 2200	0.27±0.01	0.55±0.02	0.56±0.02	0.60±0.03
T 2300	0.27±0.01	0.56±0.02	0.57±0.02	0.60±0.03
T 2400	0.28±0.01	0.56±0.02	0.57±0.02	0.61±0.03
T 2500	0.28±0.02	0.56±0.02	0.58±0.02	0.61±0.03
T 2600	0.28±0.01	0.56±0.02	0.58±0.02	0.62±0.03
T 2700	0.29±0.02	0.57±0.02	0.59±0.02	0.62±0.03
T 2800	0.29±0.02	0.57±0.02	0.59±0.02	0.63±0.03
T 2900	0.29±0.02	0.58±0.02	0.59±0.02	0.63±0.03
T 3000	0.30±0.02	0.58±0.02	0.60±0.02	0.63±0.03
T 3100	0.30±0.02	0.58±0.02	0.60±0.02	0.64±0.03
T 3200	0.30±0.02	0.59±0.02	0.60±0.02	0.64±0.03

TABLE S.41. Table of Vertical Retinal Aspect Ratio of Healthy Cases.

Table of Vertical Retinal Aspect Ratio of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
I 3200	8.6±0.6	2.8±0.2	2.9±0.2	2.9±0.2
I 3100	8.7±0.6	2.8±0.2	3.0±0.2	2.9±0.2
I 3000	8.8±0.6	2.9±0.2	3.0±0.2	2.9±0.2
I 2900	8.8±0.6	2.9±0.2	3.0±0.2	2.9±0.2
I 2800	8.9±0.6	3.0±0.2	3.0±0.2	2.9±0.2
I 2700	9.0±0.6	3.0±0.2	3.1±0.2	3.0±0.2
I 2600	9.1±0.6	3.0±0.2	3.1±0.2	3.0±0.2
I 2500	9.3±0.7	3.1±0.2	3.2±0.2	3.1±0.2
I 2400	9.4±0.7	3.1±0.2	3.2±0.2	3.1±0.2
I 2300	9.6±0.6	3.2±0.2	3.3±0.2	3.2±0.3
I 2200	9.8±0.7	3.2±0.2	3.3±0.2	3.2±0.2
I 2100	9.9±0.7	3.3±0.2	3.4±0.2	3.3±0.2
I 2000	10.1±0.7	3.3±0.2	3.4±0.2	3.4±0.2
I 1900	10.3±0.7	3.4±0.2	3.5±0.2	3.5±0.2
I 1800	10.5±0.7	3.5±0.2	3.6±0.2	3.5±0.2
I 1700	10.7±0.7	3.5±0.2	3.6±0.2	3.6±0.2
I 1600	10.9±0.7	3.6±0.2	3.7±0.2	3.6±0.2
I 1500	11.1±0.7	3.7±0.2	3.8±0.2	3.7±0.2
I 1400	11.2±0.7	3.7±0.2	3.8±0.2	3.7±0.2
I 1300	11.4±0.6	3.7±0.2	3.8±0.2	3.8±0.2
I 1200	11.4±0.6	3.7±0.2	3.8±0.2	3.8±0.2
I 1100	11.4±0.6	3.7±0.2	3.9±0.2	3.8±0.2
I 1000	11.3±0.6	3.6±0.2	3.8±0.2	3.8±0.2
I 900	11.1±0.6	3.5±0.2	3.8±0.2	3.7±0.2
I 800	10.8±0.7	3.3±0.3	3.7±0.2	3.7±0.2
I 700	10.5±0.7	3.2±0.3	3.6±0.2	3.6±0.2
I 600	10.0±0.8	3.0±0.3	3.5±0.3	3.4±0.3
I 500	9.5±0.8	2.8±0.3	3.3±0.3	3.2±0.3
I 400	8.9±0.9	2.5±0.3	3.1±0.3	3.0±0.3
I 300	8.2±0.9	2.4±0.3	2.9±0.3	2.8±0.3
I 200	7.6±0.9	2.3±0.3	2.6±0.3	2.6±0.3
I 100	7.2±0.8	2.3±0.2	2.5±0.3	2.4±0.3
V 0	7.1±0.8	2.3±0.2	2.4±0.3	2.4±0.3
S 100	7.2±0.8	2.3±0.2	2.5±0.3	2.4±0.3
S 200	7.5±0.9	2.3±0.3	2.6±0.3	2.6±0.3

Table of Vertical Retinal Aspect Ratio of Healthy Cases

S 300	8.1±0.9	2.5±0.3	2.8±0.3	2.8±0.3
S 400	8.8±0.9	2.7±0.3	3.1±0.3	3.0±0.3
S 500	9.5±0.9	2.9±0.3	3.3±0.3	3.3±0.3
S 600	10.1±0.8	3.2±0.3	3.5±0.3	3.4±0.3
S 700	10.6±0.7	3.3±0.3	3.6±0.2	3.6±0.2
S 800	10.9±0.7	3.5±0.2	3.7±0.2	3.7±0.2
S 900	11.2±0.6	3.6±0.2	3.8±0.2	3.8±0.2
S 1000	11.4±0.6	3.7±0.2	3.9±0.2	3.8±0.2
S 1100	11.5±0.6	3.7±0.2	3.9±0.2	3.8±0.2
S 1200	11.5±0.6	3.8±0.2	3.9±0.2	3.8±0.2
S 1300	11.5±0.6	3.8±0.2	3.9±0.2	3.8±0.2
S 1400	11.4±0.6	3.7±0.2	3.8±0.2	3.8±0.2
S 1500	11.2±0.6	3.6±0.2	3.8±0.2	3.8±0.2
S 1600	11.1±0.6	3.6±0.2	3.8±0.2	3.7±0.2
S 1700	10.9±0.6	3.5±0.2	3.7±0.2	3.7±0.2
S 1800	10.8±0.6	3.5±0.2	3.7±0.2	3.6±0.2
S 1900	10.6±0.6	3.5±0.2	3.6±0.2	3.5±0.2
S 2000	10.5±0.6	3.4±0.2	3.6±0.2	3.5±0.2
S 2100	10.3±0.6	3.4±0.2	3.5±0.2	3.4±0.2
S 2200	10.2±0.7	3.3±0.2	3.5±0.2	3.4±0.2
S 2300	10.0±0.6	3.3±0.2	3.4±0.2	3.3±0.2
S 2400	9.9±0.6	3.2±0.2	3.4±0.2	3.3±0.2
S 2500	9.8±0.6	3.2±0.2	3.3±0.2	3.2±0.2
S 2600	9.7±0.6	3.2±0.2	3.3±0.2	3.2±0.2
S 2700	9.5±0.6	3.1±0.2	3.2±0.2	3.2±0.2
S 2800	9.4±0.6	3.1±0.2	3.2±0.2	3.1±0.2
S 2900	9.4±0.6	3.1±0.2	3.2±0.2	3.1±0.2
S 3000	9.3±0.6	3.0±0.2	3.2±0.2	3.1±0.2
S 3100	9.2±0.6	3.0±0.2	3.1±0.2	3.0±0.2
S 3200	9.1±0.6	3.0±0.2	3.1±0.2	3.0±0.2

TABLE S.42. Table of Horizontal Retinal Aspect Ratio of Healthy Cases.

Table of Horizontal Retinal Aspect Ratio of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
N 3200	9.8±0.8	3.2±0.3	3.3±0.3	3.2±0.3
N 3100	9.8±0.7	3.2±0.3	3.3±0.2	3.3±0.3
N 3000	9.8±0.7	3.2±0.3	3.3±0.2	3.3±0.2
N 2900	9.9±0.7	3.2±0.2	3.3±0.2	3.3±0.3
N 2800	9.9±0.7	3.3±0.3	3.4±0.2	3.3±0.3
N 2700	10.0±0.7	3.3±0.3	3.4±0.3	3.3±0.2
N 2600	10.1±0.7	3.3±0.3	3.4±0.2	3.4±0.3
N 2500	10.2±0.7	3.4±0.3	3.5±0.3	3.4±0.2
N 2400	10.4±0.7	3.4±0.3	3.5±0.2	3.5±0.3
N 2300	10.5±0.7	3.5±0.3	3.6±0.3	3.5±0.2
N 2200	10.7±0.7	3.5±0.2	3.6±0.2	3.6±0.2
N 2100	10.8±0.7	3.6±0.2	3.7±0.2	3.6±0.2
N 2000	10.9±0.7	3.6±0.2	3.7±0.2	3.6±0.2
N 1900	11.1±0.7	3.6±0.2	3.7±0.2	3.7±0.2
N 1800	11.2±0.6	3.7±0.2	3.8±0.2	3.7±0.2
N 1700	11.3±0.6	3.7±0.2	3.8±0.2	3.8±0.2
N 1600	11.4±0.6	3.7±0.2	3.9±0.2	3.8±0.2
N 1500	11.5±0.6	3.7±0.2	3.9±0.2	3.8±0.2
N 1400	11.5±0.6	3.7±0.2	3.9±0.2	3.8±0.2
N 1300	11.4±0.6	3.7±0.2	3.9±0.2	3.8±0.2
N 1200	11.3±0.6	3.6±0.2	3.8±0.2	3.8±0.2
N 1100	11.2±0.6	3.5±0.2	3.8±0.2	3.7±0.2
N 1000	11.0±0.6	3.4±0.2	3.8±0.2	3.7±0.2
N 900	10.8±0.7	3.3±0.3	3.7±0.2	3.6±0.2
N 800	10.5±0.7	3.2±0.3	3.6±0.2	3.5±0.2
N 700	10.1±0.8	3.0±0.3	3.5±0.3	3.4±0.2
N 600	9.7±0.9	2.9±0.3	3.3±0.3	3.3±0.3
N 500	9.2±0.9	2.7±0.3	3.2±0.3	3.1±0.3
N 400	8.6±1.0	2.5±0.3	3.0±0.3	3.0±0.3
N 300	8.0±0.9	2.3±0.3	2.8±0.3	2.8±0.3
N 200	7.5±0.8	2.3±0.2	2.6±0.3	2.6±0.3
N 100	7.2±0.7	2.4±0.2	2.5±0.3	2.4±0.3
H 0	7.2±0.7	2.3±0.2	2.4±0.2	2.4±0.2
T 100	7.2±0.7	2.3±0.2	2.5±0.3	2.4±0.3
T 200	7.4±0.8	2.3±0.3	2.6±0.3	2.5±0.3

Table of Horizontal Retinal Aspect Ratio of Healthy Cases

T 300	7.9±0.8	2.4±0.3	2.8±0.3	2.7±0.3
T 400	8.5±0.8	2.6±0.3	3.0±0.3	2.9±0.3
T 500	9.1±0.8	2.8±0.3	3.1±0.2	3.1±0.3
T 600	9.5±0.7	3.0±0.3	3.3±0.2	3.2±0.2
T 700	9.9±0.6	3.1±0.2	3.4±0.2	3.4±0.2
T 800	10.2±0.6	3.3±0.2	3.5±0.2	3.4±0.2
T 900	10.5±0.6	3.4±0.2	3.6±0.2	3.5±0.2
T 1000	10.6±0.6	3.4±0.2	3.6±0.2	3.6±0.2
T 1100	10.7±0.6	3.5±0.2	3.6±0.2	3.6±0.2
T 1200	10.8±0.6	3.5±0.2	3.7±0.2	3.6±0.2
T 1300	10.8±0.6	3.5±0.2	3.7±0.2	3.6±0.2
T 1400	10.8±0.6	3.5±0.2	3.6±0.2	3.6±0.2
T 1500	10.7±0.6	3.5±0.2	3.6±0.2	3.5±0.2
T 1600	10.6±0.6	3.4±0.2	3.6±0.2	3.5±0.2
T 1700	10.4±0.6	3.4±0.2	3.5±0.2	3.5±0.2
T 1800	10.2±0.6	3.3±0.2	3.5±0.2	3.4±0.2
T 1900	10.1±0.6	3.3±0.2	3.4±0.2	3.4±0.2
T 2000	9.9±0.6	3.2±0.2	3.4±0.2	3.3±0.2
T 2100	9.8±0.6	3.2±0.2	3.3±0.2	3.2±0.2
T 2200	9.6±0.6	3.1±0.2	3.3±0.2	3.2±0.2
T 2300	9.5±0.6	3.1±0.2	3.2±0.2	3.1±0.2
T 2400	9.3±0.6	3.0±0.2	3.2±0.2	3.1±0.2
T 2500	9.2±0.6	3.0±0.2	3.1±0.2	3.0±0.2
T 2600	9.0±0.6	2.9±0.2	3.1±0.2	3.0±0.2
T 2700	8.9±0.6	2.9±0.2	3.0±0.2	3.0±0.2
T 2800	8.8±0.6	2.9±0.2	3.0±0.2	2.9±0.2
T 2900	8.7±0.6	2.8±0.2	2.9±0.2	2.9±0.2
T 3000	8.6±0.6	2.8±0.2	2.9±0.2	2.8±0.2
T 3100	8.5±0.6	2.8±0.2	2.9±0.2	2.8±0.2
T 3200	8.4±0.6	2.7±0.2	2.8±0.2	2.8±0.2

TABLE S.43. Table of Vertical Retinal Roundness of Healthy Cases.

Table of Vertical Retinal Roundness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.12±0.01	0.36±0.03	0.34±0.02	0.35±0.03
I 3100	0.12±0.01	0.35±0.03	0.34±0.02	0.35±0.03
I 3000	0.11±0.01	0.35±0.03	0.34±0.02	0.35±0.03
I 2900	0.11±0.01	0.34±0.03	0.33±0.02	0.34±0.02
I 2800	0.11±0.01	0.34±0.02	0.33±0.02	0.34±0.03
I 2700	0.11±0.01	0.34±0.02	0.33±0.02	0.34±0.02
I 2600	0.11±0.01	0.33±0.02	0.32±0.02	0.33±0.02
I 2500	0.11±0.01	0.33±0.02	0.32±0.02	0.33±0.02
I 2400	0.11±0.01	0.32±0.02	0.31±0.02	0.32±0.02
I 2300	0.10±0.01	0.32±0.02	0.31±0.02	0.32±0.02
I 2200	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
I 2100	0.10±0.01	0.31±0.02	0.30±0.02	0.30±0.02
I 2000	0.10±0.01	0.30±0.02	0.29±0.02	0.30±0.02
I 1900	0.10±0.01	0.29±0.02	0.29±0.02	0.29±0.02
I 1800	0.10±0.01	0.29±0.02	0.28±0.02	0.29±0.02
I 1700	0.09±0.01	0.28±0.02	0.28±0.02	0.28±0.02
I 1600	0.09±0.01	0.28±0.02	0.27±0.02	0.28±0.02
I 1500	0.09±0.01	0.27±0.02	0.27±0.02	0.27±0.02
I 1400	0.09±0.01	0.27±0.02	0.26±0.02	0.27±0.02
I 1300	0.09±0.01	0.27±0.02	0.26±0.01	0.27±0.02
I 1200	0.09±0.00	0.27±0.02	0.26±0.01	0.27±0.02
I 1100	0.09±0.00	0.28±0.02	0.26±0.01	0.27±0.02
I 1000	0.09±0.01	0.28±0.02	0.26±0.01	0.27±0.01
I 900	0.09±0.01	0.29±0.02	0.27±0.02	0.27±0.02
I 800	0.09±0.01	0.30±0.02	0.27±0.02	0.27±0.02
I 700	0.10±0.01	0.32±0.03	0.28±0.02	0.28±0.02
I 600	0.10±0.01	0.34±0.03	0.29±0.02	0.29±0.02
I 500	0.11±0.01	0.37±0.04	0.31±0.03	0.31±0.03
I 400	0.11±0.01	0.40±0.05	0.33±0.03	0.33±0.03
I 300	0.12±0.01	0.43±0.05	0.35±0.04	0.36±0.04
I 200	0.13±0.01	0.45±0.05	0.38±0.04	0.39±0.04
I 100	0.14±0.01	0.43±0.04	0.41±0.05	0.42±0.05
V 0	0.14±0.01	0.44±0.05	0.42±0.04	0.43±0.05
S 100	0.14±0.01	0.44±0.05	0.41±0.04	0.42±0.05
S 200	0.14±0.01	0.44±0.05	0.38±0.04	0.39±0.05

Table of Vertical Retinal Roundness of Healthy Cases

S 300	0.13±0.01	0.41±0.05	0.36±0.04	0.36±0.04
S 400	0.11±0.01	0.38±0.04	0.33±0.03	0.33±0.03
S 500	0.11±0.01	0.35±0.04	0.30±0.02	0.31±0.03
S 600	0.10±0.01	0.32±0.03	0.29±0.02	0.29±0.02
S 700	0.10±0.01	0.30±0.02	0.28±0.02	0.28±0.02
S 800	0.09±0.01	0.29±0.02	0.27±0.02	0.27±0.02
S 900	0.09±0.01	0.28±0.02	0.26±0.01	0.27±0.02
S 1000	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
S 1100	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
S 1200	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
S 1300	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
S 1400	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
S 1500	0.09±0.00	0.28±0.02	0.26±0.01	0.27±0.02
S 1600	0.09±0.01	0.28±0.02	0.27±0.02	0.27±0.02
S 1700	0.09±0.01	0.28±0.02	0.27±0.02	0.27±0.02
S 1800	0.09±0.01	0.29±0.02	0.27±0.02	0.28±0.02
S 1900	0.09±0.01	0.29±0.02	0.28±0.02	0.28±0.02
S 2000	0.10±0.01	0.29±0.02	0.28±0.02	0.29±0.02
S 2100	0.10±0.01	0.30±0.02	0.29±0.02	0.29±0.02
S 2200	0.10±0.01	0.30±0.02	0.29±0.02	0.30±0.02
S 2300	0.10±0.01	0.31±0.02	0.30±0.02	0.30±0.02
S 2400	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
S 2500	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
S 2600	0.10±0.01	0.32±0.02	0.31±0.02	0.31±0.02
S 2700	0.11±0.01	0.32±0.02	0.31±0.02	0.32±0.02
S 2800	0.11±0.01	0.33±0.02	0.31±0.02	0.32±0.02
S 2900	0.11±0.01	0.33±0.02	0.32±0.02	0.32±0.02
S 3000	0.11±0.01	0.33±0.02	0.32±0.02	0.33±0.02
S 3100	0.11±0.01	0.33±0.02	0.32±0.02	0.33±0.02
S 3200	0.11±0.01	0.34±0.02	0.33±0.02	0.33±0.02

TABLE S.44. Table of Horizontal Retinal Roundness of Healthy Cases.

Table of Horizontal Retinal Roundness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	0.10±0.01	0.32±0.03	0.31±0.02	0.31±0.02
N 3100	0.10±0.01	0.32±0.03	0.30±0.02	0.31±0.02
N 3000	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
N 2900	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
N 2800	0.10±0.01	0.31±0.02	0.30±0.02	0.31±0.02
N 2700	0.10±0.01	0.31±0.02	0.30±0.02	0.30±0.02
N 2600	0.10±0.01	0.30±0.02	0.29±0.02	0.30±0.02
N 2500	0.10±0.01	0.30±0.02	0.29±0.02	0.30±0.02
N 2400	0.10±0.01	0.29±0.02	0.29±0.02	0.29±0.02
N 2300	0.10±0.01	0.29±0.02	0.28±0.02	0.29±0.02
N 2200	0.09±0.01	0.29±0.02	0.28±0.02	0.28±0.02
N 2100	0.09±0.01	0.28±0.02	0.27±0.02	0.28±0.02
N 2000	0.09±0.01	0.28±0.02	0.27±0.02	0.28±0.02
N 1900	0.09±0.01	0.28±0.02	0.27±0.02	0.27±0.02
N 1800	0.09±0.01	0.27±0.02	0.27±0.01	0.27±0.02
N 1700	0.09±0.00	0.27±0.02	0.26±0.01	0.27±0.01
N 1600	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
N 1500	0.09±0.00	0.27±0.01	0.26±0.01	0.26±0.01
N 1400	0.09±0.00	0.27±0.01	0.26±0.01	0.26±0.01
N 1300	0.09±0.00	0.27±0.02	0.26±0.01	0.26±0.01
N 1200	0.09±0.00	0.28±0.02	0.26±0.01	0.26±0.01
N 1100	0.09±0.00	0.28±0.02	0.26±0.01	0.27±0.01
N 1000	0.09±0.01	0.29±0.02	0.27±0.02	0.27±0.02
N 900	0.09±0.01	0.30±0.02	0.27±0.02	0.28±0.02
N 800	0.10±0.01	0.32±0.03	0.28±0.02	0.28±0.02
N 700	0.10±0.01	0.33±0.03	0.29±0.02	0.29±0.02
N 600	0.10±0.01	0.35±0.04	0.30±0.03	0.31±0.03
N 500	0.11±0.01	0.38±0.05	0.32±0.03	0.32±0.03
N 400	0.12±0.01	0.41±0.04	0.34±0.04	0.34±0.04
N 300	0.13±0.01	0.43±0.04	0.36±0.04	0.37±0.04
N 200	0.13±0.01	0.44±0.04	0.39±0.04	0.39±0.04
N 100	0.14±0.01	0.43±0.04	0.41±0.04	0.42±0.04
H 0	0.14±0.01	0.44±0.04	0.42±0.04	0.43±0.04
T 100	0.14±0.01	0.44±0.04	0.41±0.04	0.42±0.04
T 200	0.14±0.01	0.44±0.04	0.39±0.04	0.40±0.04

Table of Horizontal Retinal Roundness of Healthy Cases

T 300	0.13±0.01	0.42±0.04	0.36±0.04	0.37±0.04
T 400	0.12±0.01	0.39±0.04	0.34±0.03	0.35±0.03
T 500	0.11±0.01	0.36±0.03	0.32±0.03	0.32±0.03
T 600	0.11±0.01	0.34±0.03	0.31±0.02	0.31±0.02
T 700	0.10±0.01	0.32±0.02	0.29±0.02	0.30±0.02
T 800	0.10±0.01	0.31±0.02	0.29±0.02	0.29±0.02
T 900	0.10±0.01	0.30±0.02	0.28±0.02	0.29±0.02
T 1000	0.09±0.01	0.29±0.02	0.28±0.01	0.28±0.02
T 1100	0.09±0.00	0.29±0.02	0.28±0.01	0.28±0.02
T 1200	0.09±0.00	0.28±0.02	0.27±0.01	0.28±0.01
T 1300	0.09±0.00	0.28±0.02	0.27±0.01	0.28±0.01
T 1400	0.09±0.00	0.28±0.02	0.28±0.01	0.28±0.02
T 1500	0.09±0.01	0.29±0.02	0.28±0.02	0.28±0.02
T 1600	0.10±0.01	0.29±0.02	0.28±0.02	0.29±0.02
T 1700	0.10±0.01	0.30±0.02	0.28±0.02	0.29±0.02
T 1800	0.10±0.01	0.30±0.02	0.29±0.02	0.29±0.02
T 1900	0.10±0.01	0.31±0.02	0.29±0.02	0.30±0.02
T 2000	0.10±0.01	0.31±0.02	0.30±0.02	0.30±0.02
T 2100	0.10±0.01	0.32±0.02	0.30±0.02	0.31±0.02
T 2200	0.10±0.01	0.32±0.02	0.31±0.02	0.31±0.02
T 2300	0.11±0.01	0.33±0.02	0.31±0.02	0.32±0.02
T 2400	0.11±0.01	0.33±0.02	0.32±0.02	0.33±0.02
T 2500	0.11±0.01	0.34±0.02	0.32±0.02	0.33±0.02
T 2600	0.11±0.01	0.34±0.02	0.33±0.02	0.34±0.02
T 2700	0.11±0.01	0.35±0.02	0.33±0.02	0.34±0.02
T 2800	0.11±0.01	0.35±0.02	0.34±0.02	0.34±0.02
T 2900	0.12±0.01	0.36±0.02	0.34±0.02	0.35±0.02
T 3000	0.12±0.01	0.36±0.03	0.34±0.02	0.35±0.02
T 3100	0.12±0.01	0.37±0.03	0.35±0.02	0.36±0.02
T 3200	0.12±0.01	0.37±0.03	0.35±0.02	0.37±0.03

TABLE S.45. Table of Vertical Retinal Solidity of Healthy Cases.

Table of Vertical Retinal Solidity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	1.0018±0.0073	0.9720±0.0183	1.0000±0.0003	1.0304±0.0163
I 3100	1.0027±0.0073	0.9717±0.0193	1.0000±0.0003	1.0305±0.0163
I 3000	1.0023±0.0073	0.9704±0.0183	1.0000±0.0003	1.0277±0.0173
I 2900	1.0016±0.0063	0.9731±0.0173	1.0000±0.0003	1.0285±0.0163
I 2800	1.0023±0.0063	0.9720±0.0173	1.0000±0.0003	1.0282±0.0153
I 2700	1.0019±0.0073	0.9734±0.0173	1.0000±0.0003	1.0255±0.0163
I 2600	1.0025±0.0073	0.9711±0.0173	1.0000±0.0003	1.0245±0.0163
I 2500	1.0015±0.0063	0.9702±0.0173	1.0000±0.0003	1.0276±0.0153
I 2400	1.0015±0.0063	0.9680±0.0143	1.0000±0.0003	1.0238±0.0173
I 2300	1.0009±0.0063	0.9681±0.0133	1.0000±0.0003	1.0262±0.0173
I 2200	1.0002±0.0053	0.9689±0.0123	1.0000±0.0003	1.0203±0.0153
I 2100	0.9999±0.0053	0.9682±0.0123	1.0000±0.0003	1.0234±0.0153
I 2000	0.9992±0.0053	0.9699±0.0123	1.0000±0.0003	1.0211±0.0153
I 1900	0.9999±0.0053	0.9712±0.0133	1.0000±0.0003	1.0223±0.0163
I 1800	0.9996±0.0063	0.9741±0.0123	1.0000±0.0003	1.0207±0.0153
I 1700	1.0008±0.0063	0.9768±0.0123	1.0000±0.0003	1.0198±0.0163
I 1600	1.0016±0.0053	0.9779±0.0133	1.0000±0.0003	1.0220±0.0153
I 1500	1.0016±0.0063	0.9752±0.0123	1.0000±0.0003	1.0186±0.0153
I 1400	1.0009±0.0053	0.9736±0.0103	1.0000±0.0003	1.0201±0.0163
I 1300	1.0002±0.0053	0.9729±0.0083	1.0000±0.0003	1.0189±0.0153
I 1200	1.0003±0.0043	0.9727±0.0073	1.0000±0.0003	1.0201±0.0153
I 1100	1.0004±0.0043	0.9716±0.0083	1.0000±0.0003	1.0199±0.0173
I 1000	1.0004±0.0053	0.9722±0.0093	1.0000±0.0003	1.0205±0.0173
I 900	1.0005±0.0053	0.9725±0.0113	1.0000±0.0003	1.0199±0.0183
I 800	1.0019±0.0063	0.9695±0.0123	1.0000±0.0003	1.0217±0.0203
I 700	1.0011±0.0063	0.9626±0.0133	1.0000±0.0003	1.0211±0.0203
I 600	0.9994±0.0073	0.9567±0.0163	1.0000±0.0003	1.0235±0.0223
I 500	0.9976±0.0083	0.9599±0.0223	1.0000±0.0003	1.0290±0.0243
I 400	0.9972±0.0093	0.9807±0.0203	1.0000±0.0003	1.0236±0.0243
I 300	1.0032±0.0103	0.9577±0.0203	1.0000±0.0003	1.0230±0.0253
I 200	1.0018±0.0073	0.9720±0.0183	1.0000±0.0003	1.0304±0.0163
I 100	1.0027±0.0073	0.9717±0.0193	1.0000±0.0003	1.0305±0.0163
V 0	1.0023±0.0073	0.9704±0.0183	1.0000±0.0003	1.0277±0.0173
S 100	0.9918±0.0073	0.9454±0.0153	1.0000±0.0003	1.0191±0.0203
S 200	0.9935±0.0073	0.9519±0.0133	1.0000±0.0003	1.0171±0.0183

Table of Vertical Retinal Solidity of Healthy Cases

S 300	0.9958±0.0063	0.9599±0.0113	1.0000±0.0003	1.0167±0.0173
S 400	0.9961±0.0053	0.9622±0.0093	1.0000±0.0003	1.0179±0.0173
S 500	0.9964±0.0053	0.9655±0.0083	1.0000±0.0003	1.0178±0.0163
S 600	0.9971±0.0053	0.9675±0.0093	1.0002±0.0023	1.0171±0.0153
S 700	0.9981±0.0053	0.9704±0.0103	1.0001±0.0003	1.0171±0.0173
S 800	0.9995±0.0073	0.9755±0.0133	1.0001±0.0013	1.0165±0.0163
S 900	1.0000±0.0063	0.9775±0.0133	1.0002±0.0013	1.0190±0.0163
S 1000	1.0009±0.0063	0.9784±0.0123	1.0000±0.0003	1.0180±0.0163
S 1100	1.0002±0.0063	0.9751±0.0133	1.0003±0.0033	1.0202±0.0163
S 1200	1.0001±0.0053	0.9729±0.0113	1.0002±0.0023	1.0216±0.0153
S 1300	1.0007±0.0043	0.9730±0.0103	1.0000±0.0003	1.0192±0.0163
S 1400	1.0004±0.0043	0.9715±0.0113	1.0003±0.0033	1.0210±0.0163
S 1500	1.0001±0.0053	0.9709±0.0123	1.0002±0.0023	1.0250±0.0153
S 1600	1.0004±0.0063	0.9727±0.0133	1.0000±0.0003	1.0229±0.0163
S 1700	1.0007±0.0063	0.9730±0.0143	1.0002±0.0013	1.0245±0.0163
S 1800	1.0013±0.0063	0.9733±0.0143	1.0003±0.0033	1.0243±0.0173
S 1900	1.0024±0.0073	0.9753±0.0153	1.0003±0.0033	1.0228±0.0173
S 2000	1.0027±0.0063	0.9754±0.0163	1.0000±0.0003	1.0256±0.0163
S 2100	1.0028±0.0063	0.9753±0.0163	1.0000±0.0003	1.0274±0.0153
S 2200	1.0023±0.0063	0.9730±0.0173	1.0001±0.0013	1.0253±0.0163
S 2300	1.0030±0.0063	0.9734±0.0163	1.0003±0.0033	1.0277±0.0183
S 2400	1.0023±0.0073	0.9723±0.0183	1.0000±0.0003	1.0250±0.0183
S 2500	1.0027±0.0073	0.9717±0.0173	1.0001±0.0003	1.0298±0.0183
S 2600	1.0026±0.0073	0.9732±0.0173	1.0001±0.0013	1.0302±0.0173
S 2700	1.0021±0.0073	0.9725±0.0183	1.0003±0.0033	1.0272±0.0173
S 2800	1.0026±0.0073	0.9725±0.0173	1.0000±0.0003	1.0291±0.0193
S 2900	1.0029±0.0083	0.9772±0.0183	1.0018±0.0143	1.0278±0.0213
S 3000	0.9918±0.0073	0.9454±0.0153	1.0000±0.0003	1.0191±0.0203
S 3100	0.9935±0.0073	0.9519±0.0133	1.0000±0.0003	1.0171±0.0183
S 3200	0.9958±0.0063	0.9599±0.0113	1.0000±0.0003	1.0167±0.0173

TABLE S.46. Table of Horizontal Retinal Solidity of Healthy Cases.

Table of Horizontal Retinal Solidity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	1.0017±0.0061	0.9754±0.0168	1.0000±0.0000	1.0173±0.0163
N 3100	1.0023±0.0070	0.9725±0.0157	1.0000±0.0000	1.0228±0.0185
N 3000	1.0008±0.0068	0.9718±0.0179	1.0000±0.0000	1.0228±0.0167
N 2900	1.0004±0.0079	0.9723±0.0170	1.0000±0.0000	1.0216±0.0172
N 2800	1.0011±0.0075	0.9715±0.0153	1.0000±0.0000	1.0243±0.0177
N 2700	1.0002±0.0072	0.9715±0.0139	1.0000±0.0000	1.0231±0.0169
N 2600	1.0005±0.0067	0.9713±0.0153	1.0000±0.0000	1.0211±0.0173
N 2500	1.0003±0.0073	0.9721±0.0147	1.0000±0.0000	1.0186±0.0167
N 2400	1.0006±0.0063	0.9716±0.0119	1.0000±0.0000	1.0214±0.0166
N 2300	1.0000±0.0054	0.9711±0.0134	1.0000±0.0000	1.0242±0.0164
N 2200	1.0002±0.0060	0.9721±0.0135	1.0000±0.0000	1.0221±0.0166
N 2100	1.0005±0.0052	0.9725±0.0130	1.0000±0.0000	1.0227±0.0157
N 2000	1.0005±0.0058	0.9722±0.0130	1.0000±0.0000	1.0237±0.0155
N 1900	0.9999±0.0060	0.9740±0.0131	1.0000±0.0000	1.0194±0.0159
N 1800	1.0001±0.0061	0.9735±0.0133	1.0000±0.0000	1.0190±0.0159
N 1700	1.0004±0.0061	0.9734±0.0139	1.0000±0.0000	1.0197±0.0159
N 1600	1.0004±0.0061	0.9746±0.0144	1.0000±0.0000	1.0218±0.0158
N 1500	1.0004±0.0056	0.9753±0.0130	1.0000±0.0000	1.0198±0.0151
N 1400	1.0006±0.0053	0.9727±0.0099	1.0000±0.0000	1.0205±0.0153
N 1300	1.0003±0.0048	0.9707±0.0097	1.0000±0.0000	1.0203±0.0168
N 1200	0.9991±0.0046	0.9699±0.0092	1.0000±0.0000	1.0209±0.0152
N 1100	0.9988±0.0043	0.9697±0.0093	1.0000±0.0000	1.0194±0.0156
N 1000	0.9987±0.0051	0.9690±0.0095	1.0000±0.0000	1.0182±0.0163
N 900	0.9981±0.0055	0.9671±0.0085	1.0000±0.0000	1.0174±0.0157
N 800	0.9982±0.0057	0.9659±0.0101	1.0000±0.0000	1.0202±0.0172
N 700	0.9977±0.0063	0.9649±0.0130	1.0000±0.0000	1.0194±0.0173
N 600	0.9971±0.0070	0.9601±0.0149	1.0000±0.0000	1.0158±0.0179
N 500	0.9959±0.0070	0.9562±0.0184	1.0000±0.0000	1.0183±0.0190
N 400	0.9955±0.0081	0.9532±0.0197	1.0000±0.0000	1.0174±0.0207
N 300	0.9950±0.0092	0.9511±0.0198	1.0000±0.0000	1.0201±0.0223
N 200	0.9947±0.0098	0.9589±0.0229	1.0000±0.0000	1.0197±0.0243
N 100	0.9970±0.0111	0.9798±0.0211	1.0000±0.0000	1.0195±0.0250
H 0	1.0027±0.0110	0.9615±0.0242	1.0000±0.0000	1.0211±0.0250
T 100	0.9962±0.0118	0.9615±0.0242	1.0000±0.0000	1.0188±0.0248
T 200	0.9935±0.0110	0.9517±0.0230	1.0000±0.0000	1.0215±0.0251

Table of Horizontal Retinal Solidity of Healthy Cases

T 300	0.9930±0.0094	0.9500±0.0204	1.0000±0.0000	1.0185±0.0221
T 400	0.9946±0.0092	0.9552±0.0188	1.0000±0.0000	1.0184±0.0210
T 500	0.9956±0.0076	0.9599±0.0141	1.0000±0.0000	1.0173±0.0192
T 600	0.9975±0.0071	0.9634±0.0127	1.0000±0.0000	1.0184±0.0189
T 700	0.9985±0.0060	0.9654±0.0104	1.0000±0.0000	1.0237±0.0188
T 800	0.9988±0.0052	0.9664±0.0100	1.0000±0.0000	1.0202±0.0176
T 900	0.9991±0.0054	0.9670±0.0103	1.0000±0.0000	1.0200±0.0175
T 1000	0.9997±0.0055	0.9689±0.0107	1.0000±0.0000	1.0231±0.0170
T 1100	1.0004±0.0057	0.9712±0.0123	1.0000±0.0000	1.0208±0.0159
T 1200	1.0018±0.0058	0.9747±0.0144	1.0000±0.0000	1.0205±0.0165
T 1300	1.0028±0.0050	0.9768±0.0136	1.0000±0.0000	1.0229±0.0164
T 1400	1.0016±0.0053	0.9757±0.0141	1.0000±0.0000	1.0232±0.0149
T 1500	1.0023±0.0062	0.9763±0.0145	1.0000±0.0000	1.0236±0.0149
T 1600	1.0013±0.0059	0.9722±0.0135	1.0000±0.0000	1.0234±0.0158
T 1700	1.0000±0.0051	0.9691±0.0116	1.0000±0.0000	1.0231±0.0157
T 1800	1.0002±0.0058	0.9689±0.0125	1.0000±0.0000	1.0233±0.0171
T 1900	1.0006±0.0058	0.9695±0.0133	1.0000±0.0000	1.0232±0.0165
T 2000	1.0002±0.0058	0.9683±0.0134	1.0000±0.0000	1.0242±0.0170
T 2100	1.0003±0.0063	0.9687±0.0137	1.0000±0.0000	1.0247±0.0166
T 2200	1.0017±0.0066	0.9698±0.0155	1.0000±0.0000	1.0271±0.0176
T 2300	1.0021±0.0073	0.9714±0.0173	1.0000±0.0000	1.0282±0.0178
T 2400	1.0016±0.0077	0.9690±0.0176	1.0000±0.0000	1.0292±0.0171
T 2500	1.0010±0.0069	0.9677±0.0163	1.0000±0.0000	1.0268±0.0183
T 2600	1.0004±0.0067	0.9660±0.0154	1.0000±0.0000	1.0291±0.0176
T 2700	1.0011±0.0073	0.9668±0.0161	1.0000±0.0000	1.0297±0.0183
T 2800	1.0015±0.0070	0.9671±0.0166	1.0000±0.0000	1.0292±0.0187
T 2900	1.0010±0.0075	0.9667±0.0175	1.0000±0.0000	1.0256±0.0178
T 3000	1.0010±0.0078	0.9659±0.0183	1.0000±0.0000	1.0298±0.0195
T 3100	1.0021±0.0094	0.9670±0.0194	1.0000±0.0000	1.0345±0.0210
T 3200	1.0036±0.0087	0.9769±0.0179	1.0000±0.0000	1.0274±0.0185

TABLE S.47. Table of Vertical Choroidal RFI of Healthy Cases.

Table of Vertical Choroidal RFI of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.959±0.028	0.924±0.040	1.000±0.000	0.942±0.067
I 3100	0.957±0.023	0.924±0.033	1.000±0.000	0.929±0.171
I 3000	0.957±0.024	0.930±0.032	1.000±0.000	0.960±0.051
I 2900	0.959±0.023	0.929±0.031	0.970±0.171	0.957±0.050
I 2800	0.961±0.023	0.931±0.028	1.000±0.000	0.963±0.055
I 2700	0.961±0.021	0.937±0.024	1.000±0.000	0.963±0.049
I 2600	0.964±0.018	0.939±0.027	1.000±0.000	0.963±0.041
I 2500	0.967±0.018	0.909±0.163	1.000±0.000	0.971±0.038
I 2400	0.967±0.019	0.937±0.029	1.000±0.000	0.970±0.042
I 2300	0.965±0.020	0.940±0.029	1.000±0.000	0.965±0.047
I 2200	0.967±0.017	0.941±0.029	1.000±0.000	0.968±0.040
I 2100	0.969±0.015	0.942±0.030	1.000±0.000	0.941±0.169
I 2000	0.969±0.016	0.942±0.033	1.000±0.000	0.973±0.029
I 1900	0.971±0.018	0.946±0.030	0.970±0.171	0.980±0.030
I 1800	0.972±0.019	0.946±0.032	1.000±0.000	0.975±0.042
I 1700	0.970±0.022	0.947±0.029	1.000±0.000	0.972±0.047
I 1600	0.973±0.015	0.948±0.030	1.000±0.000	0.981±0.026
I 1500	0.972±0.017	0.919±0.165	1.000±0.000	0.973±0.034
I 1400	0.972±0.017	0.949±0.029	1.000±0.000	0.976±0.032
I 1300	0.974±0.016	0.949±0.026	1.000±0.000	0.976±0.032
I 1200	0.975±0.013	0.952±0.024	1.000±0.000	0.980±0.026
I 1100	0.975±0.015	0.953±0.025	1.000±0.000	0.948±0.171
I 1000	0.975±0.017	0.956±0.027	1.000±0.000	0.977±0.037
I 900	0.946±0.168	0.959±0.028	1.000±0.000	0.975±0.041
I 800	0.978±0.014	0.963±0.027	1.000±0.000	0.979±0.029
I 700	0.980±0.018	0.967±0.027	1.000±0.000	0.981±0.041
I 600	0.979±0.020	0.965±0.026	0.970±0.171	0.978±0.047
I 500	0.979±0.014	0.940±0.168	1.000±0.000	0.977±0.033
I 400	0.979±0.017	0.968±0.025	1.000±0.000	0.975±0.041
I 300	0.978±0.019	0.970±0.025	1.000±0.000	0.972±0.049
I 200	0.981±0.015	0.975±0.024	1.000±0.000	0.979±0.033
I 100	0.985±0.013	0.974±0.025	1.000±0.000	0.956±0.170
V 0	0.987±0.012	0.972±0.026	1.000±0.000	0.989±0.021
S 100	0.956±0.169	0.972±0.026	1.000±0.000	0.990±0.014
S 200	0.984±0.011	0.973±0.024	1.000±0.000	0.985±0.024

Table of Vertical Choroidal RFI of Healthy Cases

S 300	0.982±0.014	0.969±0.027	1.000±0.000	0.983±0.026
S 400	0.980±0.016	0.966±0.025	0.970±0.171	0.980±0.034
S 500	0.980±0.015	0.966±0.023	1.000±0.000	0.977±0.034
S 600	0.980±0.013	0.934±0.167	1.000±0.000	0.980±0.029
S 700	0.980±0.013	0.963±0.024	1.000±0.000	0.981±0.027
S 800	0.979±0.016	0.962±0.024	1.000±0.000	0.980±0.036
S 900	0.979±0.014	0.962±0.022	1.000±0.000	0.951±0.170
S 1000	0.980±0.013	0.963±0.022	1.000±0.000	0.984±0.026
S 1100	0.950±0.168	0.961±0.024	1.000±0.000	0.983±0.027
S 1200	0.979±0.014	0.960±0.024	1.000±0.000	0.980±0.034
S 1300	0.979±0.013	0.957±0.025	1.000±0.000	0.982±0.027
S 1400	0.977±0.014	0.957±0.022	1.000±0.000	0.981±0.029
S 1500	0.976±0.014	0.955±0.024	1.000±0.000	0.981±0.027
S 1600	0.975±0.016	0.954±0.023	1.000±0.000	0.978±0.036
S 1700	0.976±0.013	0.951±0.024	1.000±0.000	0.981±0.028
S 1800	0.975±0.011	0.951±0.021	1.000±0.000	0.981±0.025
S 1900	0.975±0.012	0.949±0.018	1.000±0.000	0.981±0.026
S 2000	0.975±0.010	0.950±0.019	1.000±0.000	0.983±0.023
S 2100	0.974±0.012	0.948±0.018	1.000±0.000	0.979±0.025
S 2200	0.973±0.013	0.947±0.019	1.000±0.000	0.977±0.032
S 2300	0.973±0.014	0.946±0.021	1.000±0.000	0.977±0.033
S 2400	0.973±0.014	0.946±0.019	0.970±0.171	0.980±0.029
S 2500	0.972±0.013	0.945±0.024	1.000±0.000	0.978±0.025
S 2600	0.971±0.013	0.914±0.163	1.000±0.000	0.978±0.030
S 2700	0.970±0.014	0.941±0.024	1.000±0.000	0.976±0.032
S 2800	0.968±0.016	0.942±0.023	1.000±0.000	0.968±0.042
S 2900	0.968±0.017	0.942±0.025	1.000±0.000	0.967±0.040
S 3000	0.967±0.021	0.941±0.027	1.000±0.000	0.966±0.052
S 3100	0.938±0.167	0.940±0.030	1.000±0.000	0.966±0.039
S 3200	0.964±0.022	0.953±0.025	1.000±0.000	0.941±0.108

TABLE S.48. Table of Horizontal RFI of Healthy Cases.

Table of Horizontal RFI of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	0.948±0.030	0.920±0.048	1.000±0.000	0.925±0.070
N 3100	0.950±0.028	0.917±0.043	1.000±0.000	0.940±0.069
N 3000	0.949±0.026	0.919±0.043	1.000±0.000	0.946±0.059
N 2900	0.946±0.034	0.916±0.046	1.000±0.000	0.928±0.090
N 2800	0.951±0.025	0.924±0.044	1.000±0.000	0.941±0.062
N 2700	0.955±0.023	0.926±0.037	1.000±0.000	0.947±0.050
N 2600	0.957±0.023	0.929±0.038	1.000±0.000	0.955±0.057
N 2500	0.960±0.021	0.930±0.034	1.000±0.000	0.964±0.039
N 2400	0.961±0.017	0.933±0.036	1.000±0.000	0.961±0.039
N 2300	0.962±0.021	0.933±0.032	1.000±0.000	0.963±0.042
N 2200	0.962±0.017	0.940±0.030	1.000±0.000	0.961±0.037
N 2100	0.966±0.017	0.939±0.033	1.000±0.000	0.966±0.034
N 2000	0.964±0.022	0.943±0.032	1.000±0.000	0.965±0.060
N 1900	0.968±0.018	0.945±0.031	1.000±0.000	0.968±0.036
N 1800	0.966±0.017	0.951±0.029	1.000±0.000	0.963±0.038
N 1700	0.970±0.016	0.949±0.032	1.000±0.000	0.968±0.033
N 1600	0.971±0.016	0.949±0.027	1.000±0.000	0.971±0.030
N 1500	0.970±0.021	0.947±0.029	1.000±0.000	0.968±0.055
N 1400	0.970±0.016	0.949±0.025	1.000±0.000	0.969±0.039
N 1300	0.972±0.015	0.950±0.025	1.000±0.000	0.972±0.032
N 1200	0.970±0.018	0.953±0.028	1.000±0.000	0.968±0.044
N 1100	0.973±0.015	0.960±0.025	1.000±0.000	0.971±0.032
N 1000	0.975±0.015	0.960±0.026	1.000±0.000	0.971±0.034
N 900	0.976±0.014	0.961±0.025	1.000±0.000	0.976±0.028
N 800	0.978±0.013	0.963±0.023	1.000±0.000	0.979±0.026
N 700	0.978±0.013	0.965±0.025	1.000±0.000	0.979±0.029
N 600	0.979±0.014	0.966±0.026	1.000±0.000	0.979±0.030
N 500	0.982±0.013	0.967±0.024	1.000±0.000	0.983±0.023
N 400	0.982±0.012	0.971±0.025	1.000±0.000	0.985±0.020
N 300	0.982±0.012	0.973±0.024	1.000±0.000	0.983±0.022
N 200	0.984±0.012	0.971±0.025	1.000±0.000	0.984±0.021
N 100	0.983±0.014	0.975±0.023	1.000±0.000	0.984±0.021
H 0	0.986±0.011	0.976±0.025	1.000±0.000	0.986±0.026
T 100	0.986±0.010	0.976±0.025	1.000±0.000	0.985±0.020
T 200	0.985±0.013	0.974±0.025	1.000±0.000	0.985±0.022

Table of Horizontal RFI of Healthy Cases

T 300	0.984±0.012	0.971±0.028	1.000±0.000	0.986±0.021
T 400	0.982±0.013	0.969±0.026	1.000±0.000	0.982±0.027
T 500	0.979±0.013	0.967±0.024	1.000±0.000	0.976±0.033
T 600	0.978±0.016	0.964±0.024	1.000±0.000	0.977±0.036
T 700	0.977±0.017	0.959±0.029	1.000±0.000	0.979±0.032
T 800	0.977±0.015	0.961±0.025	1.000±0.000	0.975±0.033
T 900	0.975±0.016	0.956±0.025	1.000±0.000	0.973±0.039
T 1000	0.974±0.015	0.952±0.029	1.000±0.000	0.976±0.028
T 1100	0.974±0.014	0.954±0.024	1.000±0.000	0.975±0.031
T 1200	0.975±0.014	0.952±0.025	1.000±0.000	0.979±0.029
T 1300	0.973±0.016	0.949±0.026	1.000±0.000	0.975±0.032
T 1400	0.973±0.014	0.946±0.026	1.000±0.000	0.976±0.032
T 1500	0.971±0.016	0.944±0.025	1.000±0.000	0.975±0.032
T 1600	0.970±0.016	0.942±0.025	1.000±0.000	0.976±0.033
T 1700	0.968±0.018	0.940±0.025	1.000±0.000	0.974±0.040
T 1800	0.967±0.018	0.938±0.027	1.000±0.000	0.973±0.034
T 1900	0.970±0.014	0.938±0.028	1.000±0.000	0.978±0.032
T 2000	0.972±0.015	0.942±0.029	1.000±0.000	0.982±0.025
T 2100	0.970±0.017	0.941±0.029	1.000±0.000	0.974±0.038
T 2200	0.967±0.018	0.938±0.029	1.000±0.000	0.970±0.039
T 2300	0.964±0.019	0.933±0.029	1.000±0.000	0.969±0.047
T 2400	0.962±0.022	0.934±0.030	1.000±0.000	0.961±0.058
T 2500	0.963±0.021	0.935±0.030	1.000±0.000	0.964±0.054
T 2600	0.964±0.020	0.933±0.030	1.000±0.000	0.965±0.044
T 2700	0.962±0.019	0.931±0.027	1.000±0.000	0.963±0.041
T 2800	0.961±0.020	0.929±0.028	1.000±0.000	0.963±0.047
T 2900	0.959±0.020	0.930±0.033	1.000±0.000	0.957±0.044
T 3000	0.960±0.021	0.930±0.030	1.000±0.000	0.957±0.053
T 3100	0.958±0.025	0.931±0.037	1.000±0.000	0.954±0.052
T 3200	0.958±0.028	0.946±0.033	1.000±0.000	0.935±0.068

TABLE S.49. Table of Vertical TCA of Healthy Cases.

Table of Vertical TCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X}\pm\sigma$	Inner Value $\bar{X}\pm\sigma$	Middle Value $\bar{X}\pm\sigma$	Outer Value $\bar{X}\pm\sigma$
I 3200	23702.0 $\pm$ 7269.4	7801.5 $\pm$ 2436.4	8211.8 $\pm$ 2406.4	7646.6 $\pm$ 2489.8
I 3100	24133.8 $\pm$ 7241.5	7840.7 $\pm$ 2396.9	8376.5 $\pm$ 2408.1	7909.3 $\pm$ 2436.4
I 3000	24392.2 $\pm$ 7230.7	7978.4 $\pm$ 2376.0	8423.5 $\pm$ 2385.4	8043.6 $\pm$ 2466.0
I 2900	24643.6 $\pm$ 7137.2	8031.9 $\pm$ 2346.0	8529.4 $\pm$ 2363.1	8076.0 $\pm$ 2419.4
I 2800	24868.1 $\pm$ 7029.8	8081.4 $\pm$ 2304.5	8596.1 $\pm$ 2334.8	8181.9 $\pm$ 2380.6
I 2700	25040.2 $\pm$ 6948.0	8180.9 $\pm$ 2248.9	8639.2 $\pm$ 2317.3	8252.5 $\pm$ 2351.6
I 2600	25191.7 $\pm$ 6873.9	8198.5 $\pm$ 2272.1	8705.9 $\pm$ 2296.1	8264.2 $\pm$ 2347.2
I 2500	25304.9 $\pm$ 6833.8	8223.0 $\pm$ 2291.3	8705.9 $\pm$ 2306.9	8344.1 $\pm$ 2287.3
I 2400	25394.1 $\pm$ 6869.3	8292.2 $\pm$ 2291.7	8737.3 $\pm$ 2304.3	8363.7 $\pm$ 2307.7
I 2300	25556.4 $\pm$ 6951.4	8379.4 $\pm$ 2327.9	8815.7 $\pm$ 2305.2	8374.0 $\pm$ 2383.9
I 2200	25814.2 $\pm$ 6993.5	8458.8 $\pm$ 2342.6	8874.5 $\pm$ 2343.5	8493.6 $\pm$ 2319.5
I 2100	26057.4 $\pm$ 7045.0	8529.9 $\pm$ 2386.1	8960.8 $\pm$ 2380.8	8571.6 $\pm$ 2338.9
I 2000	26252.9 $\pm$ 7106.6	8538.2 $\pm$ 2400.3	9019.6 $\pm$ 2389.0	8635.3 $\pm$ 2360.8
I 1900	26383.8 $\pm$ 7162.5	8612.7 $\pm$ 2420.2	9027.5 $\pm$ 2396.8	8737.3 $\pm$ 2383.1
I 1800	26500.0 $\pm$ 7213.8	8680.9 $\pm$ 2429.2	9070.6 $\pm$ 2417.8	8742.2 $\pm$ 2404.4
I 1700	26645.1 $\pm$ 7255.9	8689.7 $\pm$ 2466.0	9137.3 $\pm$ 2419.0	8750.0 $\pm$ 2441.9
I 1600	26745.1 $\pm$ 7312.6	8758.3 $\pm$ 2452.7	9137.3 $\pm$ 2457.9	8843.6 $\pm$ 2411.5
I 1500	26851.5 $\pm$ 7349.4	8812.7 $\pm$ 2497.1	9207.8 $\pm$ 2456.0	8825.5 $\pm$ 2460.9
I 1400	27055.4 $\pm$ 7405.6	8897.5 $\pm$ 2515.5	9266.7 $\pm$ 2487.5	8911.8 $\pm$ 2462.4
I 1300	27244.6 $\pm$ 7472.1	8933.3 $\pm$ 2483.1	9341.2 $\pm$ 2509.7	8961.3 $\pm$ 2472.8
I 1200	27396.1 $\pm$ 7440.7	8958.3 $\pm$ 2462.8	9376.5 $\pm$ 2474.0	9038.7 $\pm$ 2509.4
I 1100	27425.0 $\pm$ 7375.2	8978.4 $\pm$ 2430.4	9376.5 $\pm$ 2465.2	9036.3 $\pm$ 2474.4
I 1000	27511.8 $\pm$ 7353.1	9082.8 $\pm$ 2418.6	9392.2 $\pm$ 2422.8	9069.6 $\pm$ 2504.7
I 900	27704.9 $\pm$ 7233.9	9152.0 $\pm$ 2404.8	9470.6 $\pm$ 2405.4	9095.1 $\pm$ 2424.1
I 800	27977.0 $\pm$ 7178.0	9237.3 $\pm$ 2429.1	9521.6 $\pm$ 2407.2	9214.7 $\pm$ 2406.4
I 700	28195.1 $\pm$ 7164.0	9341.2 $\pm$ 2334.6	9560.8 $\pm$ 2394.0	9302.5 $\pm$ 2393.2
I 600	28423.0 $\pm$ 7061.4	9434.3 $\pm$ 2306.8	9647.1 $\pm$ 2327.1	9375.0 $\pm$ 2426.9
I 500	28673.5 $\pm$ 6939.8	9566.2 $\pm$ 2265.1	9752.9 $\pm$ 2288.5	9417.6 $\pm$ 2364.7
I 400	28968.6 $\pm$ 6812.3	9682.4 $\pm$ 2255.6	9854.9 $\pm$ 2247.4	9493.6 $\pm$ 2320.6
I 300	29353.4 $\pm$ 6755.5	9811.8 $\pm$ 2261.0	9984.3 $\pm$ 2236.8	9608.8 $\pm$ 2297.0
I 200	29787.7 $\pm$ 6805.1	9930.4 $\pm$ 2265.1	10102.0 $\pm$ 2250.4	9787.3 $\pm$ 2293.0
I 100	30123.5 $\pm$ 6857.4	9957.4 $\pm$ 2262.2	10180.4 $\pm$ 2283.2	9909.8 $\pm$ 2297.5
V 0	30261.8 $\pm$ 6869.5	9937.3 $\pm$ 2318.9	10211.8 $\pm$ 2271.6	9984.8 $\pm$ 2319.2
S 100	30225.0 $\pm$ 6843.8	9937.3 $\pm$ 2318.9	10207.8 $\pm$ 2294.4	9980.9 $\pm$ 2260.3
S 200	30098.0 $\pm$ 6782.5	9925.0 $\pm$ 2286.1	10188.2 $\pm$ 2272.3	9906.9 $\pm$ 2251.9

Table of Vertical TCA of Healthy Cases (μm^2)

S 300	29848.0±6653.9	9831.4±2254.4	10125.5±2228.4	9822.1±2203.2
S 400	29611.3±6439.8	9737.3±2156.3	10054.9±2131.6	9735.3±2164.9
S 500	29458.3±6229.4	9689.7±2084.3	10007.8±2058.2	9679.4±2105.9
S 600	29367.2±6082.1	9638.7±2057.9	9988.2±2035.4	9659.8±2016.0
S 700	29263.2±6087.9	9595.1±2041.9	9941.2±2013.8	9629.9±2048.9
S 800	29182.8±6095.8	9568.1±2041.9	9929.4±2021.9	9603.9±2040.0
S 900	29110.3±6083.5	9539.7±2058.1	9898.0±2025.9	9597.5±2029.2
S 1000	29014.7±6004.4	9501.5±2036.7	9847.1±2009.6	9563.7±1995.8
S 1100	28936.3±5869.9	9470.6±2001.8	9835.3±1957.0	9553.4±1940.7
S 1200	28918.6±5726.1	9452.9±1924.7	9831.4±1889.6	9533.3±1928.9
S 1300	28896.6±5670.2	9427.0±1911.0	9827.5±1877.7	9541.2±1907.0
S 1400	28715.7±5669.4	9374.0±1914.2	9780.4±1889.2	9470.6±1894.8
S 1500	28527.0±5704.6	9289.7±1905.6	9713.7±1904.8	9438.2±1916.3
S 1600	28497.5±5720.9	9299.5±1926.7	9729.4±1908.8	9402.5±1906.4
S 1700	28443.1±5663.2	9257.8±1931.1	9709.8±1904.2	9390.2±1862.8
S 1800	28370.6±5638.8	9222.5±1897.8	9682.4±1881.7	9390.2±1887.9
S 1900	28332.4±5655.2	9218.6±1875.1	9694.1±1875.4	9351.5±1923.7
S 2000	28321.6±5690.1	9200.5±1895.4	9670.6±1900.2	9379.4±1938.5
S 2100	28305.4±5692.8	9199.5±1895.6	9690.2±1914.1	9349.0±1903.2
S 2200	28229.4±5814.6	9172.5±1946.1	9670.6±1955.0	9333.8±1938.4
S 2300	28144.6±5890.7	9132.4±1945.6	9639.2±1951.8	9307.4±2012.2
S 2400	28109.3±5942.9	9107.8±1950.6	9611.8±1993.0	9304.9±2004.7
S 2500	28113.7±6019.5	9141.7±2000.5	9651.0±1999.5	9271.1±2020.0
S 2600	28006.9±6107.6	9064.2±2006.1	9600.0±2030.1	9269.1±2077.2
S 2700	27865.7±6224.7	9010.8±2060.3	9560.8±2089.1	9222.5±2109.6
S 2800	27675.0±6317.0	8976.0±2090.5	9505.9±2104.2	9105.9±2167.2
S 2900	27508.3±6474.7	8945.6±2138.3	9470.6±2159.0	9036.8±2208.9
S 3000	27365.2±6734.6	8880.4±2219.0	9415.7±2238.2	9009.8±2296.8
S 3100	27081.9±6827.0	8791.2±2267.0	9321.6±2289.9	8896.6±2311.5
S 3200	26479.9±7012.8	8712.3±2329.8	9125.5±2362.7	8588.2±2358.5

TABLE S.50. Table of Horizontal TCA of Healthy Cases.

Table of Horizontal TCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	15878.4 $\pm$ 5328.0	5423.5 $\pm$ 1898.1	5580.4 $\pm$ 1824.0	5021.6 $\pm$ 1737.7
N 3100	16761.3 $\pm$ 5595.9	5629.4 $\pm$ 1960.5	5858.8 $\pm$ 1915.4	5410.3 $\pm$ 1849.7
N 3000	17449.0 $\pm$ 5803.9	5909.8 $\pm$ 2017.6	6098.0 $\pm$ 1975.7	5665.2 $\pm$ 1903.5
N 2900	18168.1 $\pm$ 6023.5	6159.8 $\pm$ 2094.3	6392.2 $\pm$ 2033.1	5827.9 $\pm$ 2036.8
N 2800	18993.1 $\pm$ 6155.7	6394.6 $\pm$ 2105.6	6662.7 $\pm$ 2065.7	6126.0 $\pm$ 2054.0
N 2700	19666.7 $\pm$ 6239.5	6577.5 $\pm$ 2137.1	6870.6 $\pm$ 2093.3	6354.9 $\pm$ 2069.6
N 2600	20327.0 $\pm$ 6297.9	6739.7 $\pm$ 2146.6	7058.8 $\pm$ 2145.8	6622.1 $\pm$ 2074.7
N 2500	20853.9 $\pm$ 6421.8	6914.7 $\pm$ 2148.1	7211.8 $\pm$ 2145.0	6831.9 $\pm$ 2152.1
N 2400	21326.0 $\pm$ 6441.9	7070.1 $\pm$ 2179.9	7396.1 $\pm$ 2152.3	6974.0 $\pm$ 2161.3
N 2300	21839.2 $\pm$ 6452.7	7270.1 $\pm$ 2129.4	7537.3 $\pm$ 2169.2	7161.3 $\pm$ 2142.2
N 2200	22408.8 $\pm$ 6424.5	7429.4 $\pm$ 2134.0	7756.9 $\pm$ 2123.6	7325.0 $\pm$ 2184.3
N 2100	22846.1 $\pm$ 6389.0	7552.5 $\pm$ 2179.8	7878.4 $\pm$ 2153.1	7482.4 $\pm$ 2130.6
N 2000	23238.2 $\pm$ 6388.5	7698.0 $\pm$ 2195.2	8011.8 $\pm$ 2169.0	7612.3 $\pm$ 2100.6
N 1900	23647.1 $\pm$ 6508.9	7850.5 $\pm$ 2223.9	8137.3 $\pm$ 2210.9	7752.5 $\pm$ 2135.0
N 1800	24096.6 $\pm$ 6650.9	8028.9 $\pm$ 2237.0	8290.2 $\pm$ 2233.0	7889.2 $\pm$ 2228.8
N 1700	24537.7 $\pm$ 6723.0	8140.7 $\pm$ 2326.2	8423.5 $\pm$ 2257.6	8032.8 $\pm$ 2252.3
N 1600	24909.8 $\pm$ 6851.5	8243.1 $\pm$ 2339.5	8552.9 $\pm$ 2317.5	8163.2 $\pm$ 2256.1
N 1500	25200.5 $\pm$ 6975.7	8347.1 $\pm$ 2371.3	8658.8 $\pm$ 2343.5	8238.2 $\pm$ 2342.6
N 1400	25577.9 $\pm$ 7109.2	8479.4 $\pm$ 2418.9	8784.3 $\pm$ 2363.5	8380.4 $\pm$ 2394.2
N 1300	26014.7 $\pm$ 7221.3	8612.7 $\pm$ 2460.7	8902.0 $\pm$ 2408.1	8557.8 $\pm$ 2408.7
N 1200	26333.8 $\pm$ 7293.3	8750.0 $\pm$ 2449.3	9035.3 $\pm$ 2453.7	8634.8 $\pm$ 2413.7
N 1100	26712.7 $\pm$ 7301.7	8936.3 $\pm$ 2415.6	9152.9 $\pm$ 2427.8	8756.9 $\pm$ 2423.1
N 1000	27176.5 $\pm$ 7312.0	9071.6 $\pm$ 2422.3	9286.3 $\pm$ 2406.4	8895.1 $\pm$ 2484.6
N 900	27655.4 $\pm$ 7274.6	9202.5 $\pm$ 2448.7	9439.2 $\pm$ 2432.3	9090.7 $\pm$ 2438.7
N 800	28069.6 $\pm$ 7285.6	9328.9 $\pm$ 2435.9	9556.9 $\pm$ 2435.8	9236.8 $\pm$ 2428.4
N 700	28367.2 $\pm$ 7281.8	9404.9 $\pm$ 2435.4	9666.7 $\pm$ 2434.3	9311.3 $\pm$ 2421.7
N 600	28623.0 $\pm$ 7313.0	9495.6 $\pm$ 2465.0	9725.5 $\pm$ 2429.6	9417.2 $\pm$ 2446.7
N 500	28880.9 $\pm$ 7366.2	9573.0 $\pm$ 2495.1	9807.8 $\pm$ 2444.6	9513.2 $\pm$ 2474.1
N 400	29149.5 $\pm$ 7410.9	9697.1 $\pm$ 2522.9	9878.4 $\pm$ 2492.5	9607.8 $\pm$ 2452.0
N 300	29443.1 $\pm$ 7500.4	9819.6 $\pm$ 2554.6	9976.5 $\pm$ 2527.0	9679.9 $\pm$ 2500.5
N 200	29729.4 $\pm$ 7629.2	9890.7 $\pm$ 2601.7	10078.4 $\pm$ 2556.4	9764.2 $\pm$ 2534.1
N 100	30012.7 $\pm$ 7671.4	9967.6 $\pm$ 2561.9	10160.8 $\pm$ 2580.9	9876.0 $\pm$ 2515.6
H 0	30212.3 $\pm$ 7661.2	10009.8 $\pm$ 2549.3	10207.8 $\pm$ 2547.8	9945.6 $\pm$ 2541.4
T 100	30288.2 $\pm$ 7615.1	10009.8 $\pm$ 2549.3	10243.1 $\pm$ 2519.5	9963.7 $\pm$ 2536.3
T 200	30239.7 $\pm$ 7617.8	9994.6 $\pm$ 2571.0	10231.4 $\pm$ 2510.8	9928.4 $\pm$ 2518.4

Table of Horizontal TCA of Healthy Cases (μm^2)

T 300	30042.6±7591.1	9899.0±2595.2	10168.6±2525.1	9890.2±2477.3
T 400	29767.2±7561.2	9804.4±2574.1	10094.1±2506.1	9790.2±2497.7
T 500	29471.1±7509.1	9700.5±2511.7	10007.8±2464.8	9681.4±2527.8
T 600	29139.7±7520.3	9584.8±2543.6	9913.7±2496.5	9578.4±2507.5
T 700	28776.0±7609.6	9427.5±2572.3	9796.1±2528.0	9484.3±2538.8
T 800	28422.5±7635.4	9339.7±2564.3	9690.2±2533.1	9327.5±2555.2
T 900	28039.7±7573.6	9185.3±2555.8	9572.5±2525.6	9206.4±2518.4
T 1000	27736.8±7502.4	9058.8±2506.8	9482.4±2487.3	9125.0±2528.4
T 1100	27474.5±7513.3	8978.4±2495.2	9384.3±2498.5	9031.9±2533.2
T 1200	27296.1±7562.5	8891.2±2485.5	9325.5±2516.0	9006.4±2553.5
T 1300	27165.2±7629.6	8852.9±2552.7	9290.2±2542.5	8956.4±2541.0
T 1400	27010.3±7684.8	8789.7±2576.2	9254.9±2562.8	8897.1±2565.6
T 1500	26847.1±7713.5	8712.7±2576.9	9192.2±2578.7	8859.3±2574.0
T 1600	26664.7±7810.6	8652.5±2597.1	9141.2±2601.1	8828.9±2637.2
T 1700	26494.6±7836.3	8585.3±2628.2	9090.2±2612.2	8750.0±2616.0
T 1800	26362.3±7806.0	8545.1±2623.2	9058.8±2613.5	8704.4±2590.8
T 1900	26266.2±7713.2	8498.0±2593.7	9015.7±2586.6	8691.2±2562.4
T 2000	26159.3±7601.3	8467.6±2561.9	8952.9±2564.0	8663.2±2511.0
T 2100	25988.7±7550.3	8410.3±2523.1	8909.8±2536.0	8577.9±2531.1
T 2200	25763.7±7530.8	8334.8±2487.2	8851.0±2484.8	8493.1±2568.8
T 2300	25593.1±7506.5	8253.9±2522.1	8800.0±2506.0	8457.8±2511.6
T 2400	25363.2±7410.0	8213.7±2447.8	8756.9±2460.8	8328.9±2530.7
T 2500	25093.6±7290.5	8132.8±2442.7	8658.8±2443.4	8244.6±2454.2
T 2600	24683.8±7210.5	7995.6±2415.5	8533.3±2418.1	8095.1±2406.8
T 2700	24370.1±7166.7	7878.9±2374.5	8423.5±2398.4	8002.9±2416.1
T 2800	24058.3±7146.1	7743.1±2356.1	8302.0±2385.8	7932.4±2429.8
T 2900	23729.9±7124.2	7679.4±2363.7	8215.7±2365.0	7779.4±2412.6
T 3000	23490.7±7084.9	7602.9±2326.2	8137.3±2340.6	7690.2±2439.3
T 3100	23171.1±7128.1	7505.4±2356.4	8027.5±2379.5	7585.8±2406.8
T 3200	22626.0±7181.8	7458.8±2398.2	7854.9±2411.3	7266.7±2418.4

TABLE S.51. Table of Vertical LCA of Healthy Cases.

Table of Vertical LCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	20984.2 $\pm$ 7235.7	7000.7 $\pm$ 2415.0	7120.7 $\pm$ 2455.1	6890.1 $\pm$ 2507.9
I 3100	21571.5 $\pm$ 7195.2	7090.3 $\pm$ 2379.7	7380.0 $\pm$ 2504.6	7149.0 $\pm$ 2429.3
I 3000	21736.8 $\pm$ 7319.2	7199.8 $\pm$ 2374.5	7427.1 $\pm$ 2552.8	7143.8 $\pm$ 2548.2
I 2900	21993.5 $\pm$ 7219.9	7339.3 $\pm$ 2304.6	7472.2 $\pm$ 2534.2	7267.5 $\pm$ 2453.4
I 2800	22271.7 $\pm$ 7049.1	7276.6 $\pm$ 2345.8	7580.9 $\pm$ 2385.5	7318.8 $\pm$ 2539.6
I 2700	22340.5 $\pm$ 7162.2	7393.8 $\pm$ 2172.2	7742.2 $\pm$ 2466.7	7295.0 $\pm$ 2504.1
I 2600	22501.1 $\pm$ 6952.9	7350.0 $\pm$ 2268.8	7649.4 $\pm$ 2495.5	7417.3 $\pm$ 2462.0
I 2500	22256.1 $\pm$ 6774.3	7332.3 $\pm$ 2301.4	7620.3 $\pm$ 2432.2	7229.0 $\pm$ 2307.4
I 2400	22236.0 $\pm$ 6816.0	7489.1 $\pm$ 2380.2	7712.6 $\pm$ 2376.3	7129.7 $\pm$ 2373.7
I 2300	22674.3 $\pm$ 7104.2	7666.0 $\pm$ 2330.5	7802.4 $\pm$ 2433.1	7377.3 $\pm$ 2467.7
I 2200	22915.7 $\pm$ 6923.3	7643.8 $\pm$ 2331.8	7783.0 $\pm$ 2452.3	7397.7 $\pm$ 2296.9
I 2100	23112.7 $\pm$ 6953.3	7687.1 $\pm$ 2397.1	7891.8 $\pm$ 2517.9	7510.3 $\pm$ 2289.2
I 2000	23215.4 $\pm$ 7142.9	7770.2 $\pm$ 2441.4	7991.2 $\pm$ 2506.1	7465.4 $\pm$ 2405.6
I 1900	23329.8 $\pm$ 7491.4	7856.7 $\pm$ 2354.5	7886.8 $\pm$ 2655.4	7596.7 $\pm$ 2586.3
I 1800	23802.8 $\pm$ 7132.4	7919.8 $\pm$ 2416.6	8056.5 $\pm$ 2522.8	7814.0 $\pm$ 2464.0
I 1700	23836.1 $\pm$ 7238.9	8017.3 $\pm$ 2414.9	8113.8 $\pm$ 2525.6	7793.8 $\pm$ 2448.5
I 1600	23907.5 $\pm$ 7518.8	8038.7 $\pm$ 2426.0	8105.4 $\pm$ 2678.4	7771.5 $\pm$ 2581.4
I 1500	24072.6 $\pm$ 7588.2	8094.0 $\pm$ 2504.3	8188.7 $\pm$ 2723.9	7778.4 $\pm$ 2631.7
I 1400	24488.9 $\pm$ 7378.1	8207.3 $\pm$ 2562.3	8352.4 $\pm$ 2521.9	7979.6 $\pm$ 2500.5
I 1300	24517.0 $\pm$ 7647.5	8309.1 $\pm$ 2404.5	8183.8 $\pm$ 2663.0	8078.7 $\pm$ 2582.5
I 1200	24938.8 $\pm$ 7266.9	8183.3 $\pm$ 2450.2	8329.8 $\pm$ 2500.6	8241.0 $\pm$ 2519.7
I 1100	24719.9 $\pm$ 7201.3	8188.6 $\pm$ 2432.2	8315.0 $\pm$ 2530.7	8189.5 $\pm$ 2400.3
I 1000	24692.7 $\pm$ 7221.7	8186.1 $\pm$ 2386.2	8350.6 $\pm$ 2425.3	8090.7 $\pm$ 2527.6
I 900	24574.0 $\pm$ 7044.3	8068.7 $\pm$ 2321.5	8076.5 $\pm$ 2438.6	8249.5 $\pm$ 2416.0
I 800	24452.1 $\pm$ 7021.8	8222.3 $\pm$ 2399.9	8091.5 $\pm$ 2400.7	8205.3 $\pm$ 2497.3
I 700	24366.8 $\pm$ 7177.1	8298.5 $\pm$ 2325.0	8136.8 $\pm$ 2525.4	7929.2 $\pm$ 2547.4
I 600	24532.7 $\pm$ 7066.2	8366.7 $\pm$ 2317.1	8334.0 $\pm$ 2416.8	7833.4 $\pm$ 2635.1
I 500	24862.0 $\pm$ 6825.2	8456.4 $\pm$ 2232.6	8535.2 $\pm$ 2327.9	7914.5 $\pm$ 2484.6
I 400	25045.8 $\pm$ 6642.7	8601.5 $\pm$ 2304.9	8451.7 $\pm$ 2311.5	8079.5 $\pm$ 2437.0
I 300	25454.1 $\pm$ 6607.6	8642.2 $\pm$ 2303.1	8604.2 $\pm$ 2165.7	8167.6 $\pm$ 2459.6
I 200	25738.3 $\pm$ 6976.6	8904.2 $\pm$ 2334.1	8718.0 $\pm$ 2401.3	8285.6 $\pm$ 2524.7
I 100	26288.9 $\pm$ 6896.6	8913.8 $\pm$ 2345.9	8835.6 $\pm$ 2373.7	8440.1 $\pm$ 2373.3
V 0	26379.8 $\pm$ 6956.5	8912.5 $\pm$ 2374.3	8794.4 $\pm$ 2373.1	8558.4 $\pm$ 2491.8
S 100	26122.9 $\pm$ 6852.9	8912.5 $\pm$ 2374.3	8721.2 $\pm$ 2323.4	8404.4 $\pm$ 2447.3
S 200	26046.7 $\pm$ 6735.0	8857.4 $\pm$ 2286.2	8738.8 $\pm$ 2441.7	8375.1 $\pm$ 2327.0

Table of Vertical LCA of Healthy Cases (μm^2)

S 300	26312.9±6636.1	8886.2±2283.5	8849.1±2392.3	8511.1±2244.3
S 400	25906.8±6611.9	8813.9±2186.3	8649.4±2358.3	8354.7±2307.5
S 500	26001.3±6288.2	8732.5±2164.1	8732.6±2178.2	8452.4±2145.8
S 600	26013.8±6066.1	8764.3±2112.9	8704.9±2143.5	8456.4±2072.1
S 700	25976.2±6152.1	8707.1±2130.6	8690.8±2126.2	8481.8±2151.9
S 800	25695.1±6146.5	8641.1±2073.0	8666.7±2187.5	8310.6±2172.3
S 900	25421.7±6187.9	8627.1±2051.5	8498.0±2146.2	8226.1±2260.3
S 1000	25621.7±5919.1	8551.3±1973.4	8525.8±2140.0	8461.8±2087.2
S 1100	25338.8±6129.9	8481.9±2093.1	8432.2±2158.9	8355.0±2142.3
S 1200	25157.1±5863.4	8525.1±1934.1	8543.4±1996.5	8027.5±2233.5
S 1300	25094.0±5727.2	8476.2±1912.1	8531.1±2054.1	8045.6±2079.9
S 1400	25060.3±5828.8	8414.5±1929.4	8492.3±2154.5	8089.7±2125.5
S 1500	24812.8±5681.8	8368.8±1924.2	8376.5±2101.3	7980.7±2045.5
S 1600	24796.0±6022.0	8337.4±1893.7	8401.5±2276.2	8014.3±2105.6
S 1700	24650.4±5812.8	8324.8±1918.5	8395.3±2180.9	7912.0±2062.6
S 1800	24618.6±5664.6	8187.8±1961.0	8316.6±2063.6	8036.0±1996.7
S 1900	24513.5±5912.8	8222.9±1894.8	8397.9±2085.0	7822.5±2313.8
S 2000	24277.9±5766.5	8134.9±1897.7	8192.9±1991.0	7899.9±2273.0
S 2100	24064.8±5759.7	8198.0±1980.5	8059.6±2118.0	7729.1±2173.0
S 2200	24048.2±5822.3	7995.5±2006.3	8151.0±2137.1	7834.9±2081.7
S 2300	23909.9±6111.4	7948.6±1999.7	7965.3±2375.0	7937.9±2232.1
S 2400	23476.8±5989.7	7869.7±1929.6	7922.5±2250.0	7606.5±2235.3
S 2500	23322.2±6174.3	7860.3±2003.5	7950.8±2291.0	7458.6±2355.0
S 2600	22895.5±6209.5	7804.6±2161.0	7687.7±2293.3	7351.9±2349.4
S 2700	22672.0±6414.9	7480.9±2197.0	7657.9±2416.1	7473.3±2391.7
S 2800	22864.3±6310.9	7615.6±2112.4	7755.7±2142.0	7423.0±2558.6
S 2900	22978.7±6387.7	7672.7±2229.3	7778.5±2095.9	7474.5±2547.3
S 3000	23123.0±6785.3	7581.0±2256.4	7930.0±2383.7	7554.8±2576.3
S 3100	23302.4±6834.0	7735.0±2286.1	7836.0±2558.6	7688.0±2377.8
S 3200	23051.8±6789.1	7789.0±2320.9	7631.2±2445.2	7593.8±2287.1

TABLE S.52. Table of Horizontal LCA of Healthy Cases.

Table of Horizontal LCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	13199.8 $\pm$ 5650.5	4513.6 $\pm$ 2055.3	4349.5 $\pm$ 2220.7	4370.8 $\pm$ 1828.7
N 3100	14011.8 $\pm$ 5663.0	4626.5 $\pm$ 2092.7	4623.9 $\pm$ 2008.4	4764.6 $\pm$ 1994.7
N 3000	14055.7 $\pm$ 6395.3	4878.4 $\pm$ 2066.0	4750.6 $\pm$ 2284.1	4635.9 $\pm$ 2388.4
N 2900	14649.0 $\pm$ 6460.1	5106.6 $\pm$ 2141.1	4996.9 $\pm$ 2263.5	4753.0 $\pm$ 2510.8
N 2800	15452.0 $\pm$ 6525.2	5378.3 $\pm$ 2110.8	5297.7 $\pm$ 2424.8	5038.4 $\pm$ 2399.3
N 2700	16006.5 $\pm$ 6485.5	5485.5 $\pm$ 2255.5	5424.0 $\pm$ 2315.2	5191.8 $\pm$ 2496.1
N 2600	16661.0 $\pm$ 6285.6	5684.9 $\pm$ 2159.2	5615.4 $\pm$ 2201.4	5531.8 $\pm$ 2280.1
N 2500	17235.8 $\pm$ 6473.3	5868.2 $\pm$ 2120.6	5760.4 $\pm$ 2392.1	5734.6 $\pm$ 2312.4
N 2400	17745.6 $\pm$ 6533.1	6099.1 $\pm$ 2236.8	5996.5 $\pm$ 2384.1	5855.9 $\pm$ 2370.8
N 2300	18450.8 $\pm$ 6677.1	6279.3 $\pm$ 2174.4	6195.0 $\pm$ 2293.0	6129.9 $\pm$ 2452.2
N 2200	19050.1 $\pm$ 6701.1	6525.6 $\pm$ 2128.6	6431.0 $\pm$ 2382.8	6296.6 $\pm$ 2393.7
N 2100	19797.5 $\pm$ 6256.4	6673.7 $\pm$ 2027.2	6663.2 $\pm$ 2257.0	6554.9 $\pm$ 2230.0
N 2000	20006.1 $\pm$ 6487.3	6726.0 $\pm$ 2188.7	6694.2 $\pm$ 2424.4	6580.1 $\pm$ 2318.6
N 1900	20430.4 $\pm$ 6500.7	6993.7 $\pm$ 2214.3	6845.8 $\pm$ 2334.0	6804.1 $\pm$ 2221.7
N 1800	21079.2 $\pm$ 6427.4	7189.0 $\pm$ 2155.8	7069.3 $\pm$ 2323.6	6959.5 $\pm$ 2141.3
N 1700	21329.6 $\pm$ 6621.1	7305.7 $\pm$ 2314.9	7156.3 $\pm$ 2359.8	6993.7 $\pm$ 2392.0
N 1600	21694.3 $\pm$ 6960.4	7441.9 $\pm$ 2366.2	7343.4 $\pm$ 2531.8	7029.8 $\pm$ 2391.7
N 1500	22152.5 $\pm$ 7118.1	7524.9 $\pm$ 2364.8	7631.6 $\pm$ 2499.6	7013.4 $\pm$ 2496.9
N 1400	22705.1 $\pm$ 6986.3	7652.5 $\pm$ 2453.7	7782.5 $\pm$ 2422.6	7355.7 $\pm$ 2368.2
N 1300	23081.9 $\pm$ 7278.6	7793.4 $\pm$ 2441.5	7792.6 $\pm$ 2640.9	7593.9 $\pm$ 2388.2
N 1200	23443.2 $\pm$ 7056.2	7904.4 $\pm$ 2433.2	7974.1 $\pm$ 2429.9	7647.5 $\pm$ 2366.2
N 1100	23753.6 $\pm$ 7194.0	8130.4 $\pm$ 2443.7	7967.9 $\pm$ 2484.8	7832.7 $\pm$ 2450.8
N 1000	24058.5 $\pm$ 7294.9	8204.4 $\pm$ 2453.5	8076.0 $\pm$ 2467.7	7802.0 $\pm$ 2532.8
N 900	24511.0 $\pm$ 7194.6	8280.2 $\pm$ 2469.7	8155.0 $\pm$ 2440.4	8106.1 $\pm$ 2497.4
N 800	25041.3 $\pm$ 7136.0	8387.1 $\pm$ 2447.4	8502.5 $\pm$ 2412.9	8197.5 $\pm$ 2453.3
N 700	25009.7 $\pm$ 7123.4	8430.7 $\pm$ 2452.9	8462.0 $\pm$ 2465.7	8110.5 $\pm$ 2402.9
N 600	24925.6 $\pm$ 7400.6	8510.3 $\pm$ 2523.2	8394.2 $\pm$ 2577.1	8021.0 $\pm$ 2590.2
N 500	25426.0 $\pm$ 7377.1	8541.8 $\pm$ 2453.4	8592.4 $\pm$ 2559.6	8274.5 $\pm$ 2495.6
N 400	25542.0 $\pm$ 7356.3	8576.8 $\pm$ 2582.1	8580.0 $\pm$ 2604.1	8338.6 $\pm$ 2483.8
N 300	25568.5 $\pm$ 7691.0	8688.9 $\pm$ 2664.8	8557.7 $\pm$ 2774.6	8348.7 $\pm$ 2584.2
N 200	25766.1 $\pm$ 7638.7	8792.5 $\pm$ 2618.8	8681.8 $\pm$ 2487.6	8335.5 $\pm$ 2700.7
N 100	26074.4 $\pm$ 7720.1	8936.0 $\pm$ 2558.2	8797.7 $\pm$ 2627.1	8415.2 $\pm$ 2684.7
H 0	26437.4 $\pm$ 7573.8	8984.6 $\pm$ 2602.8	8800.8 $\pm$ 2554.7	8612.7 $\pm$ 2640.5
T 100	26513.0 $\pm$ 7841.6	8984.6 $\pm$ 2602.8	8745.8 $\pm$ 2642.6	8712.1 $\pm$ 2810.5
T 200	26555.2 $\pm$ 7544.1	8975.6 $\pm$ 2569.9	8789.5 $\pm$ 2620.0	8709.0 $\pm$ 2550.1

Table of Horizontal LCA of Healthy Cases (μm^2)

T 300	26214.0±7419.8	8854.2±2587.0	8665.3±2739.0	8604.8±2358.4
T 400	26127.7±7527.6	8832.9±2601.9	8704.2±2650.0	8517.2±2550.4
T 500	25749.6±7565.6	8762.2±2569.6	8561.4±2592.8	8358.2±2603.7
T 600	25353.5±7454.3	8632.6±2500.2	8389.2±2692.7	8261.6±2535.4
T 700	25175.3±7512.4	8495.8±2572.0	8295.4±2600.0	8311.0±2602.5
T 800	25226.8±7506.0	8399.9±2602.3	8336.2±2604.4	8413.5±2500.8
T 900	24935.6±7678.0	8313.0±2568.3	8256.1±2768.8	8299.9±2572.2
T 1000	24802.2±7331.1	8285.2±2448.5	8318.9±2609.6	8141.5±2482.3
T 1100	24368.1±7529.9	8124.0±2589.1	8071.5±2646.2	8086.3±2510.9
T 1200	24123.8±7611.4	8150.6±2476.3	8028.1±2693.4	7897.3±2631.3
T 1300	24006.2±7736.0	8071.3±2501.3	8037.5±2642.2	7858.7±2837.0
T 1400	24021.1±7688.2	7942.0±2618.3	8143.7±2627.6	7882.6±2629.1
T 1500	23829.3±7909.9	7913.9±2621.1	8031.7±2785.0	7803.9±2706.2
T 1600	23389.2±7890.0	7858.6±2610.0	7755.4±2668.5	7776.5±2828.8
T 1700	23372.0±7913.5	7762.8±2617.4	7805.8±2683.0	7799.2±2843.8
T 1800	22934.1±7941.1	7610.2±2586.0	7640.3±2786.9	7622.3±2792.6
T 1900	22944.5±7766.5	7609.3±2650.9	7606.6±2674.5	7669.6±2670.2
T 2000	22907.0±7554.7	7644.3±2573.0	7507.5±2611.5	7675.2±2655.1
T 2100	22581.5±7539.7	7479.9±2534.8	7523.0±2651.2	7501.1±2659.8
T 2200	22166.3±7697.5	7396.2±2479.8	7409.9±2670.4	7279.1±2833.7
T 2300	21674.5±7762.3	7141.6±2585.7	7196.7±2742.4	7295.5±2725.1
T 2400	21832.7±7328.3	7226.6±2363.4	7466.1±2562.0	7081.6±2743.1
T 2500	21344.1±7553.4	7032.9±2448.3	7212.1±2815.5	7054.5±2685.1
T 2600	20558.3±7635.4	6806.9±2566.0	6864.8±2807.2	6849.9±2674.2
T 2700	20539.1±7157.5	6827.2±2380.2	6874.8±2650.6	6805.3±2501.1
T 2800	19805.5±7555.6	6652.2±2362.2	6699.8±2768.6	6398.6±2896.3
T 2900	19942.3±7303.3	6650.2±2358.2	6741.0±2658.2	6512.2±2636.6
T 3000	20172.9±7186.9	6616.1±2304.6	6757.0±2629.0	6746.2±2603.6
T 3100	19831.4±7216.5	6469.6±2319.0	6533.9±2601.0	6746.1±2587.4
T 3200	19511.8±7185.3	6568.0±2412.3	6490.9±2530.3	6392.4±2543.4

TABLE S.53. Table of Vertical SCA of Healthy Cases.

Table of Vertical SCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X}\pm\sigma$	Inner Value $\bar{X}\pm\sigma$	Middle Value $\bar{X}\pm\sigma$	Outer Value $\bar{X}\pm\sigma$
I 3200	2717.8 $\pm$ 1609.2	800.8 $\pm$ 512.2	1091.0 $\pm$ 792.6	756.4 $\pm$ 698.3
I 3100	2562.3 $\pm$ 1399.6	750.4 $\pm$ 492.1	996.5 $\pm$ 797.7	760.4 $\pm$ 626.4
I 3000	2655.4 $\pm$ 1392.4	778.6 $\pm$ 501.5	996.4 $\pm$ 823.5	899.9 $\pm$ 709.6
I 2900	2650.1 $\pm$ 1354.9	692.6 $\pm$ 489.2	1057.2 $\pm$ 777.5	808.5 $\pm$ 637.0
I 2800	2596.4 $\pm$ 1348.3	804.8 $\pm$ 543.4	1015.1 $\pm$ 754.1	863.0 $\pm$ 720.2
I 2700	2699.7 $\pm$ 1502.3	787.1 $\pm$ 541.9	897.0 $\pm$ 723.7	957.5 $\pm$ 735.8
I 2600	2690.6 $\pm$ 1313.3	848.5 $\pm$ 558.5	1056.5 $\pm$ 778.2	846.9 $\pm$ 695.1
I 2500	3048.8 $\pm$ 1513.2	890.8 $\pm$ 614.0	1085.6 $\pm$ 799.7	1115.2 $\pm$ 869.4
I 2400	3158.2 $\pm$ 1617.6	803.0 $\pm$ 625.4	1024.7 $\pm$ 843.7	1234.0 $\pm$ 867.9
I 2300	2882.1 $\pm$ 1527.6	713.4 $\pm$ 471.3	1013.3 $\pm$ 737.0	996.8 $\pm$ 787.5
I 2200	2898.6 $\pm$ 1340.3	815.1 $\pm$ 499.9	1091.5 $\pm$ 782.4	1095.9 $\pm$ 738.6
I 2100	2944.6 $\pm$ 1520.9	842.8 $\pm$ 561.4	1069.0 $\pm$ 866.7	1061.3 $\pm$ 768.0
I 2000	3037.5 $\pm$ 1510.8	768.0 $\pm$ 574.2	1028.4 $\pm$ 672.4	1169.9 $\pm$ 852.0
I 1900	3054.0 $\pm$ 1798.0	756.1 $\pm$ 470.2	1140.6 $\pm$ 970.7	1140.6 $\pm$ 833.8
I 1800	2697.2 $\pm$ 1290.6	761.1 $\pm$ 527.8	1014.1 $\pm$ 788.2	928.2 $\pm$ 746.0
I 1700	2809.0 $\pm$ 1432.1	672.4 $\pm$ 509.3	1023.5 $\pm$ 716.7	956.2 $\pm$ 692.3
I 1600	2837.6 $\pm$ 1290.8	719.6 $\pm$ 422.3	1031.8 $\pm$ 737.0	1072.1 $\pm$ 686.3
I 1500	2778.9 $\pm$ 1398.1	718.8 $\pm$ 461.8	1019.2 $\pm$ 779.3	1047.1 $\pm$ 875.6
I 1400	2566.5 $\pm$ 1146.6	690.2 $\pm$ 483.1	914.3 $\pm$ 621.4	932.2 $\pm$ 668.9
I 1300	2727.6 $\pm$ 1328.2	624.3 $\pm$ 395.5	1157.4 $\pm$ 785.6	882.5 $\pm$ 675.7
I 1200	2457.3 $\pm$ 1233.3	775.0 $\pm$ 567.5	1046.7 $\pm$ 736.8	797.7 $\pm$ 659.5
I 1100	2705.1 $\pm$ 1269.8	789.8 $\pm$ 531.0	1061.5 $\pm$ 768.1	846.7 $\pm$ 581.6
I 1000	2819.1 $\pm$ 1248.3	896.8 $\pm$ 583.4	1041.5 $\pm$ 634.8	978.9 $\pm$ 735.6
I 900	3130.9 $\pm$ 1612.0	1083.3 $\pm$ 677.4	1394.0 $\pm$ 927.9	845.6 $\pm$ 697.1
I 800	3524.9 $\pm$ 1803.8	1014.9 $\pm$ 611.2	1430.1 $\pm$ 967.9	1009.4 $\pm$ 775.0
I 700	3828.3 $\pm$ 1706.6	1042.7 $\pm$ 694.9	1424.0 $\pm$ 970.9	1373.2 $\pm$ 958.5
I 600	3890.3 $\pm$ 1737.4	1067.7 $\pm$ 712.6	1313.1 $\pm$ 851.4	1541.6 $\pm$ 1051.6
I 500	3811.5 $\pm$ 1717.5	1109.7 $\pm$ 788.6	1217.7 $\pm$ 846.7	1503.2 $\pm$ 1034.5
I 400	3922.9 $\pm$ 1891.2	1080.9 $\pm$ 727.0	1403.2 $\pm$ 1015.8	1414.1 $\pm$ 982.5
I 300	3899.4 $\pm$ 1934.3	1169.6 $\pm$ 743.7	1380.1 $\pm$ 913.3	1441.2 $\pm$ 1134.8
I 200	4049.4 $\pm$ 2078.4	1026.2 $\pm$ 617.7	1384.0 $\pm$ 909.5	1501.7 $\pm$ 1128.2
I 100	3834.6 $\pm$ 1557.2	1043.6 $\pm$ 614.6	1344.8 $\pm$ 811.5	1469.7 $\pm$ 816.3
V 0	3882.0 $\pm$ 1486.3	1024.8 $\pm$ 560.6	1417.4 $\pm$ 921.5	1426.4 $\pm$ 878.0
S 100	4102.1 $\pm$ 1803.2	1024.8 $\pm$ 560.6	1486.7 $\pm$ 971.9	1576.5 $\pm$ 1043.1
S 200	4051.3 $\pm$ 2150.2	1067.6 $\pm$ 741.5	1449.4 $\pm$ 1111.0	1531.8 $\pm$ 1099.3

Table of Vertical SCA of Healthy Cases (μm^2)

S 300	3535.2±1629.2	945.2±580.9	1276.4±868.0	1311.0±960.5
S 400	3704.5±1714.4	923.4±603.9	1405.5±890.9	1380.6±904.0
S 500	3457.0±1741.1	957.2±710.4	1275.3±834.5	1227.0±796.9
S 600	3353.3±1537.8	874.4±561.6	1283.3±881.1	1203.4±789.6
S 700	3287.0±1372.1	888.0±551.9	1250.4±812.0	1148.1±824.9
S 800	3487.8±1736.2	927.1±583.3	1262.7±927.5	1293.3±1035.1
S 900	3688.6±1599.7	912.6±628.7	1400.1±805.7	1371.5±946.6
S 1000	3393.0±1563.1	950.1±667.1	1321.3±885.6	1101.9±799.4
S 1100	3597.5±1802.0	988.7±687.9	1403.1±1029.0	1198.4±796.5
S 1200	3761.6±1840.3	927.8±619.3	1287.9±853.6	1505.9±1097.4
S 1300	3802.6±1611.8	950.8±612.4	1296.4±727.1	1495.5±1057.0
S 1400	3655.4±1946.4	959.5±654.1	1288.1±1079.2	1380.9±1035.4
S 1500	3714.2±2017.8	920.9±642.4	1337.3±1165.3	1457.5±1034.6
S 1600	3701.6±1948.3	962.1±610.6	1328.0±1036.2	1388.2±955.1
S 1700	3792.7±1841.1	933.0±700.6	1314.5±954.4	1478.2±1066.5
S 1800	3752.0±1754.2	1034.7±683.9	1365.7±918.9	1354.2±986.1
S 1900	3818.8±2145.7	995.7±704.7	1296.2±991.0	1528.9±1296.9
S 2000	4043.7±2125.8	1065.6±790.7	1477.6±1046.6	1479.5±1209.1
S 2100	4240.6±2288.1	1001.5±728.1	1630.6±1311.4	1620.0±1198.4
S 2200	4181.2±2105.0	1177.0±810.1	1519.6±947.0	1498.9±1147.8
S 2300	4234.7±2248.4	1183.8±838.6	1673.9±1277.2	1369.5±1248.0
S 2400	4632.5±2349.8	1238.1±828.1	1689.3±1148.8	1698.4±1311.6
S 2500	4791.5±2521.6	1281.3±829.5	1700.2±1150.1	1812.5±1481.3
S 2600	5111.3±2604.4	1259.6±831.7	1912.3±1357.5	1917.3±1550.8
S 2700	5193.6±2692.7	1529.9±978.6	1902.9±1529.8	1749.2±1260.9
S 2800	4810.7±2584.6	1360.3±947.8	1750.2±1262.4	1682.9±1349.9
S 2900	4529.6±2483.8	1272.9±895.2	1692.1±1251.6	1562.2±1333.0
S 3000	4242.2±2418.4	1299.4±942.6	1485.7±1267.1	1455.0±1229.5
S 3100	3779.5±1956.3	1056.2±707.8	1485.6±1147.3	1208.5±1012.3
S 3200	3428.1±1709.7	923.3±697.7	1494.3±1010.1	994.4±769.9

TABLE S.54. Table of Horizontal SCA of Healthy Cases.

Table of Horizontal SCA of Healthy Cases (μm^2)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	2678.7 $\pm$ 1374.4	909.9 $\pm$ 791.2	1230.8 $\pm$ 948.3	650.8 $\pm$ 597.7
N 3100	2749.5 $\pm$ 1491.3	1002.9 $\pm$ 768.4	1234.9 $\pm$ 951.2	645.7 $\pm$ 681.8
N 3000	3393.3 $\pm$ 2165.0	1031.4 $\pm$ 941.1	1347.5 $\pm$ 1166.6	1029.3 $\pm$ 1103.4
N 2900	3519.1 $\pm$ 2480.0	1053.2 $\pm$ 757.8	1395.3 $\pm$ 1160.8	1074.9 $\pm$ 1211.3
N 2800	3541.1 $\pm$ 2157.2	1016.3 $\pm$ 880.2	1365.1 $\pm$ 1247.0	1087.6 $\pm$ 1140.9
N 2700	3660.1 $\pm$ 2054.7	1091.9 $\pm$ 1052.6	1446.5 $\pm$ 1065.1	1163.1 $\pm$ 1242.1
N 2600	3666.0 $\pm$ 2561.3	1054.8 $\pm$ 801.4	1443.4 $\pm$ 1319.3	1090.2 $\pm$ 1062.9
N 2500	3618.1 $\pm$ 2090.5	1046.5 $\pm$ 752.7	1451.4 $\pm$ 1256.6	1097.3 $\pm$ 955.3
N 2400	3580.4 $\pm$ 2124.9	971.0 $\pm$ 721.7	1399.6 $\pm$ 1120.0	1118.1 $\pm$ 1105.8
N 2300	3388.5 $\pm$ 1971.2	990.8 $\pm$ 768.5	1342.2 $\pm$ 994.5	1031.4 $\pm$ 1050.6
N 2200	3358.7 $\pm$ 1976.8	903.8 $\pm$ 690.0	1325.9 $\pm$ 1046.7	1028.4 $\pm$ 895.4
N 2100	3048.5 $\pm$ 1534.6	878.8 $\pm$ 697.6	1215.2 $\pm$ 866.9	927.4 $\pm$ 951.8
N 2000	3232.1 $\pm$ 1969.1	972.1 $\pm$ 682.5	1317.6 $\pm$ 1025.1	1032.1 $\pm$ 951.7
N 1900	3216.7 $\pm$ 1615.9	856.8 $\pm$ 571.1	1291.5 $\pm$ 849.1	948.3 $\pm$ 790.5
N 1800	3017.4 $\pm$ 1491.9	839.9 $\pm$ 612.7	1220.9 $\pm$ 944.6	929.7 $\pm$ 763.1
N 1700	3208.2 $\pm$ 1853.2	835.0 $\pm$ 616.2	1267.2 $\pm$ 1053.9	1039.2 $\pm$ 861.3
N 1600	3215.5 $\pm$ 1659.3	801.3 $\pm$ 561.9	1209.6 $\pm$ 810.4	1133.4 $\pm$ 990.5
N 1500	3048.0 $\pm$ 1784.9	822.2 $\pm$ 587.2	1027.2 $\pm$ 901.0	1224.8 $\pm$ 967.1
N 1400	2872.9 $\pm$ 1487.4	826.9 $\pm$ 532.7	1001.8 $\pm$ 785.5	1024.7 $\pm$ 825.4
N 1300	2932.8 $\pm$ 1584.5	819.3 $\pm$ 590.5	1109.4 $\pm$ 899.1	964.0 $\pm$ 879.1
N 1200	2890.6 $\pm$ 1389.6	845.6 $\pm$ 641.0	1061.2 $\pm$ 681.1	987.3 $\pm$ 728.8
N 1100	2959.1 $\pm$ 1539.2	805.9 $\pm$ 520.5	1185.0 $\pm$ 853.0	924.1 $\pm$ 727.6
N 1000	3118.0 $\pm$ 1636.5	867.2 $\pm$ 675.3	1210.3 $\pm$ 905.6	1093.1 $\pm$ 788.6
N 900	3144.4 $\pm$ 1631.4	922.3 $\pm$ 650.3	1284.2 $\pm$ 898.1	984.6 $\pm$ 667.3
N 800	3028.3 $\pm$ 1588.7	941.8 $\pm$ 652.6	1054.4 $\pm$ 782.3	1039.3 $\pm$ 802.2
N 700	3357.5 $\pm$ 1697.2	974.2 $\pm$ 610.5	1204.7 $\pm$ 843.6	1200.8 $\pm$ 875.4
N 600	3697.5 $\pm$ 1868.8	985.3 $\pm$ 708.9	1331.3 $\pm$ 953.5	1396.2 $\pm$ 1027.2
N 500	3454.9 $\pm$ 1488.9	1031.2 $\pm$ 698.1	1215.5 $\pm$ 838.1	1238.8 $\pm$ 736.9
N 400	3607.5 $\pm$ 1542.6	1120.2 $\pm$ 686.6	1298.4 $\pm$ 833.5	1269.2 $\pm$ 733.7
N 300	3874.7 $\pm$ 1746.5	1130.7 $\pm$ 689.2	1418.8 $\pm$ 996.0	1331.2 $\pm$ 828.9
N 200	3963.4 $\pm$ 1597.3	1098.1 $\pm$ 599.6	1396.6 $\pm$ 825.2	1428.7 $\pm$ 935.6
N 100	3938.4 $\pm$ 1654.4	1031.6 $\pm$ 725.1	1363.1 $\pm$ 900.5	1460.8 $\pm$ 907.8
H 0	3774.9 $\pm$ 1620.2	1025.2 $\pm$ 714.3	1407.0 $\pm$ 857.2	1332.9 $\pm$ 854.1
T 100	3775.2 $\pm$ 1754.8	1025.2 $\pm$ 714.3	1497.4 $\pm$ 838.8	1251.6 $\pm$ 961.2
T 200	3684.5 $\pm$ 1493.1	1019.0 $\pm$ 687.8	1441.9 $\pm$ 813.8	1219.5 $\pm$ 810.2

Table of Horizontal SCA of Healthy Cases (μm^2)

T 300	3828.6±1593.2	1044.8±616.9	1503.3±978.1	1285.4±908.5
T 400	3639.5±1782.7	971.5±631.5	1389.9±1093.0	1273.0±937.5
T 500	3721.5±1748.9	938.2±603.1	1446.5±1022.1	1323.2±888.3
T 600	3786.2±1703.1	952.2±620.1	1524.6±958.1	1316.8±965.4
T 700	3600.7±1710.2	931.6±666.9	1500.7±924.9	1173.3±889.0
T 800	3195.7±1403.6	939.8±647.8	1354.0±861.2	914.0±668.8
T 900	3104.1±1401.5	872.3±635.6	1316.5±915.5	906.5±751.0
T 1000	2934.5±1699.4	773.6±642.8	1163.4±947.3	983.5±796.2
T 1100	3106.4±1559.8	854.5±640.0	1312.8±815.8	945.5±799.3
T 1200	3172.3±1345.3	740.5±494.5	1297.4±935.7	1109.1±772.7
T 1300	3159.0±1601.7	781.7±586.2	1252.7±891.5	1097.7±962.6
T 1400	2989.2±1637.4	847.7±694.5	1111.2±768.4	1014.4±856.7
T 1500	3017.8±1673.2	798.9±570.8	1160.4±782.7	1055.5±1021.2
T 1600	3275.5±1617.9	793.8±580.5	1385.7±874.1	1052.4±919.6
T 1700	3122.6±1535.8	822.5±572.2	1284.4±898.1	950.8±868.0
T 1800	3428.2±1702.7	934.9±635.6	1418.5±946.7	1082.1±894.9
T 1900	3321.6±1535.0	888.8±671.3	1409.1±925.2	1021.6±774.9
T 2000	3252.3±1640.5	823.3±659.3	1445.4±1020.9	988.1±878.3
T 2100	3407.2±1560.0	930.4±722.5	1386.8±874.4	1076.8±1017.4
T 2200	3597.4±1902.2	938.6±748.8	1441.0±1006.1	1214.1±1080.5
T 2300	3918.6±2336.3	1112.3±896.7	1603.3±1172.3	1162.3±1036.1
T 2400	3530.5±1850.7	987.1±704.6	1290.8±968.7	1247.3±1134.4
T 2500	3749.6±2208.8	1099.9±818.2	1446.7±1198.3	1190.1±1224.5
T 2600	4125.6±2574.3	1188.7±916.3	1668.5±1336.3	1245.2±1254.8
T 2700	3831.0±2393.7	1051.7±897.9	1548.7±1295.5	1197.6±1102.8
T 2800	4252.8±2720.6	1090.9±814.2	1602.2±1336.2	1533.7±1566.5
T 2900	3787.6±2296.9	1029.2±912.9	1474.7±1275.0	1267.2±1058.1
T 3000	3317.8±1846.5	986.9±689.5	1380.3±1220.1	944.0±895.3
T 3100	3339.7±1992.5	1035.8±807.2	1493.5±1145.1	839.7±902.3
T 3200	3114.2±1664.5	890.8±682.1	1364.0±874.6	874.2±928.8

TABLE S.55. Table of Vertical CVI of Healthy Cases.

Table of Vertical CVI of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	69.6±12.4	72.3±13.0	64.7±21.2	72.5±22.5
I 3100	70.3±11.5	73.3±13.9	67.5±22.3	71.4±21.2
I 3000	70.2±11.0	73.0±13.2	67.8±22.4	70.0±21.5
I 2900	69.4±11.9	74.5±15.3	65.5±21.1	70.1±22.2
I 2800	70.8±11.3	71.9±14.8	66.7±20.2	71.5±23.1
I 2700	70.4±11.7	74.7±14.3	70.4±19.6	69.0±21.2
I 2600	70.3±11.3	72.4±13.4	67.1±21.8	69.4±23.5
I 2500	67.5±11.6	71.4±14.7	66.1±21.8	64.3±23.8
I 2400	67.0±11.8	74.8±14.6	67.9±21.9	62.0±22.9
I 2300	71.0±10.4	76.1±14.8	68.5±20.6	70.2±19.8
I 2200	69.0±11.6	73.5±13.1	66.0±21.6	65.3±20.5
I 2100	69.2±11.9	71.4±14.9	67.4±21.9	66.8±22.2
I 2000	67.9±10.6	75.6±13.4	67.5±19.2	65.1±20.7
I 1900	67.9±13.3	73.5±14.6	66.4±23.9	62.1±24.5
I 1800	70.3±10.5	73.7±13.6	68.8±20.3	68.8±21.5
I 1700	69.3±10.1	75.7±14.7	66.5±19.3	68.0±20.7
I 1600	68.6±9.1	74.2±12.6	66.5±19.3	64.1±20.6
I 1500	69.0±9.9	73.8±13.1	66.7±20.0	66.2±22.8
I 1400	70.5±9.8	75.5±14.4	69.1±18.0	68.8±20.0
I 1300	68.5±11.2	77.1±12.7	62.6±20.2	67.8±21.7
I 1200	71.7±8.4	75.4±13.8	66.7±17.8	71.6±20.6
I 1100	69.3±10.0	75.0±14.0	67.1±20.8	65.7±20.6
I 1000	70.1±10.2	75.9±12.0	68.5±18.3	66.9±21.0
I 900	70.4±10.1	73.1±13.0	64.9±19.4	70.7±20.4
I 800	70.3±9.8	75.5±12.5	67.7±18.0	70.4±20.6
I 700	68.9±10.1	74.7±12.2	66.6±19.6	65.1±20.5
I 600	69.2±8.3	74.7±12.8	68.5±18.5	64.5±19.9
I 500	70.2±9.1	74.0±12.8	71.3±16.6	64.5±21.2
I 400	69.4±9.6	74.3±13.3	68.0±18.7	66.3±20.9
I 300	69.6±10.3	72.4±13.8	67.7±18.0	67.1±21.5
I 200	68.9±10.5	75.0±12.0	67.9±18.1	66.3±20.3
I 100	69.3±9.5	73.8±12.3	68.5±16.5	64.4±19.1
V 0	68.0±8.9	73.6±11.8	66.7±19.0	63.7±20.0
S 100	66.4±8.9	73.6±11.8	64.0±18.6	61.7±20.8
S 200	67.0±10.5	73.3±13.2	64.8±21.3	63.2±20.8

Table of Vertical CVI of Healthy Cases (%)

S 300	70.1±9.9	75.7±12.0	68.5±18.9	66.2±19.7
S 400	68.4±9.8	75.9±12.6	65.2±19.3	64.1±19.1
S 500	70.2±10.0	75.0±13.7	67.5±17.6	68.3±18.3
S 600	70.7±9.3	76.3±12.7	67.4±18.9	68.3±18.9
S 700	70.6±8.9	75.6±12.6	67.6±18.1	68.6±19.5
S 800	69.8±8.9	75.2±12.5	68.1±19.4	66.2±19.8
S 900	67.3±10.1	76.1±13.0	64.3±18.4	61.8±23.2
S 1000	70.5±9.4	75.0±13.4	66.7±17.8	70.2±20.6
S 1100	70.0±9.5	75.4±13.4	67.1±18.2	68.0±19.4
S 1200	69.1±9.8	75.8±13.0	68.0±18.1	63.7±21.6
S 1300	68.7±9.8	76.0±11.8	66.8±17.6	63.7±22.1
S 1400	70.5±10.8	76.2±11.9	69.9±20.4	65.6±22.4
S 1500	69.8±11.3	76.8±13.4	69.4±20.1	63.5±23.2
S 1600	69.8±11.2	75.8±11.8	68.0±20.5	66.0±20.9
S 1700	69.2±9.7	76.1±14.0	67.5±20.8	64.6±20.8
S 1800	69.6±10.0	74.3±13.4	68.0±19.0	66.7±19.8
S 1900	70.0±11.8	76.4±13.1	69.7±18.4	64.0±24.6
S 2000	69.3±11.4	75.7±14.4	67.7±21.1	64.8±23.8
S 2100	68.4±11.8	76.8±13.5	65.0±21.3	63.7±23.3
S 2200	69.8±10.1	73.9±13.9	67.8±18.0	67.8±20.8
S 2300	70.6±11.8	74.6±14.4	65.2±22.7	72.5±20.8
S 2400	69.6±11.0	75.7±12.4	67.1±20.0	66.5±22.1
S 2500	69.5±11.8	75.3±12.7	68.1±18.8	65.5±24.7
S 2600	68.8±11.7	75.8±13.1	65.6±20.0	65.3±25.1
S 2700	68.6±10.8	72.5±13.9	67.7±20.5	65.8±22.6
S 2800	69.8±11.4	74.6±13.4	67.7±20.5	67.3±22.2
S 2900	70.6±9.9	74.7±12.8	67.9±21.1	69.3±22.0
S 3000	70.6±11.3	72.9±14.1	70.2±21.7	68.9±22.0
S 3100	70.1±11.7	75.9±12.7	68.0±22.3	66.4±24.4
S 3200	67.4±11.5	76.3±14.3	61.3±22.3	65.2±24.3

TABLE S.56. Table of Horizontal CVI of Healthy Cases.

Table of Horizontal CVI of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	72.0±10.8	75.2±16.7	65.0±22.2	76.2±22.1
N 3100	73.6±10.7	72.5±16.9	67.8±19.8	78.1±22.1
N 3000	70.5±11.6	74.4±15.3	66.8±21.4	72.8±24.1
N 2900	70.9±12.5	73.1±14.4	66.8±22.4	72.2±26.3
N 2800	71.0±11.8	75.9±14.9	67.0±23.5	73.4±22.8
N 2700	70.8±10.6	75.6±16.1	65.9±21.0	71.4±25.9
N 2600	71.5±11.8	74.7±13.9	67.6±22.3	72.3±22.8
N 2500	70.7±10.7	73.7±15.0	67.2±19.7	70.8±25.1
N 2400	70.8±12.2	74.9±15.3	66.8±21.8	72.3±24.3
N 2300	72.0±10.8	74.1±14.5	67.8±19.1	73.9±22.0
N 2200	71.0±11.4	75.5±15.5	66.5±19.3	72.9±21.9
N 2100	72.8±10.4	76.3±13.6	67.1±22.1	76.0±22.1
N 2000	71.3±11.5	73.8±13.3	66.5±20.5	71.6±22.2
N 1900	70.7±9.2	75.2±12.8	65.6±18.7	73.2±19.3
N 1800	71.5±10.0	75.2±13.9	67.4±19.8	72.6±20.0
N 1700	70.2±11.2	75.5±14.1	65.8±21.8	69.7±23.0
N 1600	69.8±8.9	76.5±13.0	65.3±20.6	68.8±19.9
N 1500	71.5±9.7	75.1±13.5	72.4±18.9	65.8±21.0
N 1400	72.4±9.8	75.1±12.6	71.5±19.6	71.3±20.6
N 1300	71.6±10.6	75.4±13.0	68.1±20.3	72.1±21.4
N 1200	71.6±8.4	76.5±13.8	69.1±18.1	70.6±18.0
N 1100	71.0±9.9	76.8±12.8	67.0±21.0	69.7±20.2
N 1000	70.8±8.9	76.9±15.1	67.0±19.1	68.9±17.9
N 900	70.6±10.9	76.6±12.5	66.2±20.1	69.0±18.1
N 800	73.5±9.7	76.3±12.8	73.2±17.7	70.7±19.1
N 700	71.8±9.4	74.3±12.7	70.3±17.3	69.1±18.5
N 600	69.3±9.7	75.2±14.5	67.5±18.1	66.2±19.9
N 500	71.3±8.3	74.5±12.1	69.5±18.9	69.4±15.8
N 400	70.0±9.1	72.9±12.5	68.1±18.2	67.7±17.6
N 300	68.4±9.2	72.1±12.6	66.1±18.6	66.5±20.6
N 200	67.9±8.1	71.9±12.6	66.8±16.8	65.3±20.5
N 100	67.8±9.3	74.7±12.9	67.4±18.5	64.6±17.8
H 0	69.5±8.5	75.6±12.0	67.0±17.1	67.1±18.2
T 100	69.7±9.1	75.6±12.0	63.8±17.6	70.0±19.2
T 200	69.7±8.3	74.3±13.9	65.0±17.0	70.2±17.7

Table of Horizontal CVI of Healthy Cases (%)

T 300	68.5±8.3	74.1±11.4	63.9±18.9	67.8±20.0
T 400	70.3±9.9	75.5±13.3	67.2±20.6	68.5±19.4
T 500	69.6±8.0	76.3±10.9	65.3±19.3	67.5±18.4
T 600	68.5±8.4	75.3±13.2	63.0±18.9	67.5±19.7
T 700	69.6±9.2	76.5±13.7	64.1±17.7	68.5±19.9
T 800	72.0±8.4	75.7±13.5	67.0±18.2	73.6±17.8
T 900	71.0±8.9	76.3±13.3	65.0±21.8	72.3±18.5
T 1000	72.3±9.7	78.3±12.5	68.2±21.4	70.8±20.0
T 1100	69.8±9.6	76.0±14.1	64.1±17.9	69.4±20.7
T 1200	68.5±9.1	76.6±13.7	63.4±19.9	65.9±21.9
T 1300	70.1±9.1	77.1±13.2	65.9±19.1	67.6±23.1
T 1400	71.4±10.2	75.8±14.8	68.3±20.2	70.4±23.0
T 1500	71.4±8.6	75.8±14.2	67.4±17.4	71.5±20.8
T 1600	69.0±9.9	76.5±12.7	61.0±19.9	70.2±21.8
T 1700	70.5±9.7	75.8±13.2	63.5±20.1	72.6±22.8
T 1800	68.2±9.4	73.6±12.2	62.3±19.7	68.9±24.7
T 1900	69.4±9.3	75.6±14.5	62.3±19.8	70.9±21.1
T 2000	70.6±10.1	77.3±14.2	63.1±21.1	72.1±23.0
T 2100	69.7±9.2	74.6±14.8	63.7±20.6	71.6±23.2
T 2200	69.7±9.1	75.6±13.5	64.0±19.2	70.1±22.7
T 2300	68.1±11.4	72.3±14.4	61.3±21.2	71.1±23.0
T 2400	70.3±11.2	74.9±13.8	66.6±22.6	69.8±23.0
T 2500	70.1±10.4	73.0±15.0	65.2±22.8	72.6±22.9
T 2600	68.5±10.7	72.6±13.8	63.4±20.7	70.0±24.3
T 2700	69.2±11.5	74.3±14.4	63.1±23.2	70.7±22.0
T 2800	65.9±12.0	72.2±14.2	62.0±23.7	63.9±27.8
T 2900	68.6±11.5	74.1±15.7	65.9±22.2	66.4±23.9
T 3000	71.0±10.5	72.8±14.8	66.7±22.4	73.8±20.8
T 3100	68.8±12.3	71.9±15.1	61.5±25.2	73.4±25.3
T 3200	67.7±10.7	74.1±15.3	59.4±20.9	70.1±27.8

TABLE S.57. Table of Vertical SAP of Healthy Cases.

Table of Vertical SAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	30.4±12.4	27.7±13.0	35.3±21.2	27.5±22.5
I 3100	29.7±11.5	26.7±13.9	32.5±22.3	28.6±21.2
I 3000	29.8±11.0	27.0±13.2	32.2±22.4	30.0±21.5
I 2900	30.6±11.9	25.5±15.3	34.5±21.1	29.9±22.2
I 2800	29.2±11.3	28.1±14.8	33.3±20.2	28.5±23.1
I 2700	29.6±11.7	25.3±14.3	29.6±19.6	31.0±21.2
I 2600	29.7±11.3	27.6±13.4	32.9±21.8	30.6±23.5
I 2500	32.5±11.6	28.6±14.7	33.9±21.8	35.7±23.8
I 2400	33.0±11.8	25.2±14.6	32.1±21.9	38.0±22.9
I 2300	29.0±10.4	23.9±14.8	31.5±20.6	29.8±19.8
I 2200	31.0±11.6	26.5±13.1	34.0±21.6	34.7±20.5
I 2100	30.8±11.9	28.6±14.9	32.6±21.9	33.2±22.2
I 2000	32.1±10.6	24.4±13.4	32.5±19.2	34.9±20.7
I 1900	32.1±13.3	26.5±14.6	33.6±23.9	37.9±24.5
I 1800	29.7±10.5	26.3±13.6	31.2±20.3	31.2±21.5
I 1700	30.7±10.1	24.3±14.7	33.5±19.3	32.0±20.7
I 1600	31.4±9.1	25.8±12.6	33.5±19.3	35.9±20.6
I 1500	31.0±9.9	26.2±13.1	33.3±20.0	33.8±22.8
I 1400	29.5±9.8	24.5±14.4	30.9±18.0	31.2±20.0
I 1300	31.5±11.2	22.9±12.7	37.4±20.2	32.2±21.7
I 1200	28.3±8.4	24.6±13.8	33.3±17.8	28.4±20.6
I 1100	30.7±10.0	25.0±14.0	32.9±20.8	34.3±20.6
I 1000	29.9±10.2	24.1±12.0	31.5±18.3	33.1±21.0
I 900	29.6±10.1	26.9±13.0	35.1±19.4	29.3±20.4
I 800	29.7±9.8	24.5±12.5	32.3±18.0	29.6±20.6
I 700	31.1±10.1	25.3±12.2	33.4±19.6	34.9±20.5
I 600	30.8±8.3	25.3±12.8	31.5±18.5	35.5±19.9
I 500	29.8±9.1	26.0±12.8	28.7±16.6	35.5±21.2
I 400	30.6±9.6	25.7±13.3	32.0±18.7	33.7±20.9
I 300	30.4±10.3	27.7±13.8	32.3±18.0	32.9±21.5
I 200	31.1±10.5	25.0±12.0	32.1±18.1	33.7±20.3
I 100	30.7±9.5	26.2±12.3	31.5±16.5	35.6±19.1
V 0	32.0±8.9	26.4±11.8	33.3±19.0	36.3±20.0
S 100	33.6±8.9	26.4±11.8	36.0±18.6	38.3±20.8
S 200	33.0±10.5	26.7±13.2	35.2±21.3	36.8±20.8

Table of Vertical SAP of Healthy Cases (%)

S 300	29.9±9.9	24.3±12.0	31.5±18.9	33.8±19.7
S 400	31.6±9.8	24.1±12.6	34.8±19.3	35.9±19.1
S 500	29.8±10.0	25.0±13.7	32.5±17.6	31.7±18.3
S 600	29.3±9.3	23.7±12.7	32.6±18.9	31.7±18.9
S 700	29.4±8.9	24.4±12.6	32.4±18.1	31.4±19.5
S 800	30.2±8.9	24.8±12.5	31.9±19.4	33.8±19.8
S 900	32.7±10.1	23.9±13.0	35.7±18.4	38.2±23.2
S 1000	29.5±9.4	25.0±13.4	33.3±17.8	29.8±20.6
S 1100	30.0±9.5	24.6±13.4	32.9±18.2	32.0±19.4
S 1200	30.9±9.8	24.2±13.0	32.0±18.1	36.3±21.6
S 1300	31.3±9.8	24.0±11.8	33.2±17.6	36.3±22.1
S 1400	29.5±10.8	23.8±11.9	30.1±20.4	34.4±22.4
S 1500	30.2±11.3	23.2±13.4	30.6±20.1	36.5±23.2
S 1600	30.2±11.2	24.2±11.8	32.0±20.5	34.0±20.9
S 1700	30.8±9.7	23.9±14.0	32.5±20.8	35.4±20.8
S 1800	30.4±10.0	25.7±13.4	32.0±19.0	33.3±19.8
S 1900	30.0±11.8	23.6±13.1	30.3±18.4	36.0±24.6
S 2000	30.7±11.4	24.3±14.4	32.3±21.1	35.2±23.8
S 2100	31.6±11.8	23.2±13.5	35.0±21.3	36.3±23.3
S 2200	30.2±10.1	26.1±13.9	32.2±18.0	32.2±20.8
S 2300	29.4±11.8	25.4±14.4	34.8±22.7	27.5±20.8
S 2400	30.4±11.0	24.3±12.4	32.9±20.0	33.5±22.1
S 2500	30.5±11.8	24.7±12.7	31.9±18.8	34.5±24.7
S 2600	31.2±11.7	24.2±13.1	34.4±20.0	34.7±25.1
S 2700	31.4±10.8	27.5±13.9	32.3±20.5	34.2±22.6
S 2800	30.2±11.4	25.4±13.4	32.3±20.5	32.7±22.2
S 2900	29.4±9.9	25.3±12.8	32.1±21.1	30.7±22.0
S 3000	29.4±11.3	27.1±14.1	29.8±21.7	31.1±22.0
S 3100	29.9±11.7	24.1±12.7	32.0±22.3	33.6±24.4
S 3200	32.6±11.5	23.7±14.3	38.7±22.3	34.8±24.3

TABLE S.58. Table of Horizontal SAP of Healthy Cases.

Table of Horizontal SAP of Healthy Cases (%)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	28.0±10.8	24.8±16.7	35.0±22.2	23.8±22.1
N 3100	26.4±10.7	27.5±16.9	32.2±19.8	21.9±22.1
N 3000	29.5±11.6	25.6±15.3	33.2±21.4	27.2±24.1
N 2900	29.1±12.5	26.9±14.4	33.2±22.4	27.8±26.3
N 2800	29.0±11.8	24.1±14.9	33.0±23.5	26.6±22.8
N 2700	29.2±10.6	24.4±16.1	34.1±21.0	28.6±25.9
N 2600	28.5±11.8	25.3±13.9	32.4±22.3	27.7±22.8
N 2500	29.3±10.7	26.3±15.0	32.8±19.7	29.2±25.1
N 2400	29.2±12.2	25.1±15.3	33.2±21.8	27.7±24.3
N 2300	28.0±10.8	25.9±14.5	32.2±19.1	26.1±22.0
N 2200	29.0±11.4	24.5±15.5	33.5±19.3	27.1±21.9
N 2100	27.2±10.4	23.7±13.6	32.9±22.1	24.0±22.1
N 2000	28.7±11.5	26.2±13.3	33.5±20.5	28.4±22.2
N 1900	29.3±9.2	24.8±12.8	34.4±18.7	26.8±19.3
N 1800	28.5±10.0	24.8±13.9	32.6±19.8	27.4±20.0
N 1700	29.8±11.2	24.5±14.1	34.2±21.8	30.3±23.0
N 1600	30.2±8.9	23.5±13.0	34.7±20.6	31.2±19.9
N 1500	28.5±9.7	24.9±13.5	27.6±18.9	34.2±21.0
N 1400	27.6±9.8	24.9±12.6	28.5±19.6	28.7±20.6
N 1300	28.4±10.6	24.6±13.0	31.9±20.3	27.9±21.4
N 1200	28.4±8.4	23.5±13.8	30.9±18.1	29.4±18.0
N 1100	29.0±9.9	23.2±12.8	33.0±21.0	30.3±20.2
N 1000	29.2±8.9	23.1±15.1	33.0±19.1	31.1±17.9
N 900	29.4±10.9	23.4±12.5	33.8±20.1	31.0±18.1
N 800	26.5±9.7	23.7±12.8	26.8±17.7	29.3±19.1
N 700	28.2±9.4	25.7±12.7	29.7±17.3	30.9±18.5
N 600	30.7±9.7	24.8±14.5	32.5±18.1	33.8±19.9
N 500	28.7±8.3	25.5±12.1	30.5±18.9	30.6±15.8
N 400	30.0±9.1	27.1±12.5	31.9±18.2	32.3±17.6
N 300	31.6±9.2	27.9±12.6	33.9±18.6	33.5±20.6
N 200	32.1±8.1	28.1±12.6	33.2±16.8	34.7±20.5
N 100	32.2±9.3	25.3±12.9	32.6±18.5	35.4±17.8
H 0	30.5±8.5	24.4±12.0	33.0±17.1	32.9±18.2
T 100	30.3±9.1	24.4±12.0	36.2±17.6	30.0±19.2
T 200	30.3±8.3	25.7±13.9	35.0±17.0	29.8±17.7

Table of Horizontal SAP of Healthy Cases (%)

T 300	31.5±8.3	25.9±11.4	36.1±18.9	32.2±20.0
T 400	29.7±9.9	24.5±13.3	32.8±20.6	31.5±19.4
T 500	30.4±8.0	23.7±10.9	34.7±19.3	32.5±18.4
T 600	31.5±8.4	24.7±13.2	37.0±18.9	32.5±19.7
T 700	30.4±9.2	23.5±13.7	35.9±17.7	31.5±19.9
T 800	28.0±8.4	24.3±13.5	33.0±18.2	26.4±17.8
T 900	29.0±8.9	23.7±13.3	35.0±21.8	27.7±18.5
T 1000	27.7±9.7	21.7±12.5	31.8±21.4	29.2±20.0
T 1100	30.2±9.6	24.0±14.1	35.9±17.9	30.6±20.7
T 1200	31.5±9.1	23.4±13.7	36.6±19.9	34.1±21.9
T 1300	29.9±9.1	22.9±13.2	34.1±19.1	32.4±23.1
T 1400	28.6±10.2	24.2±14.8	31.7±20.2	29.6±23.0
T 1500	28.6±8.6	24.2±14.2	32.6±17.4	28.5±20.8
T 1600	31.0±9.9	23.5±12.7	39.0±19.9	29.8±21.8
T 1700	29.5±9.7	24.2±13.2	36.5±20.1	27.4±22.8
T 1800	31.8±9.4	26.4±12.2	37.7±19.7	31.1±24.7
T 1900	30.6±9.3	24.4±14.5	37.7±19.8	29.1±21.1
T 2000	29.4±10.1	22.7±14.2	36.9±21.1	27.9±23.0
T 2100	30.3±9.2	25.4±14.8	36.3±20.6	28.4±23.2
T 2200	30.3±9.1	24.4±13.5	36.0±19.2	29.9±22.7
T 2300	31.9±11.4	27.7±14.4	38.7±21.2	28.9±23.0
T 2400	29.7±11.2	25.1±13.8	33.4±22.6	30.2±23.0
T 2500	29.9±10.4	27.0±15.0	34.8±22.8	27.4±22.9
T 2600	31.5±10.7	27.4±13.8	36.6±20.7	30.0±24.3
T 2700	30.8±11.5	25.7±14.4	36.9±23.2	29.3±22.0
T 2800	34.1±12.0	27.8±14.2	38.0±23.7	36.1±27.8
T 2900	31.4±11.5	25.9±15.7	34.1±22.2	33.6±23.9
T 3000	29.0±10.5	27.2±14.8	33.3±22.4	26.2±20.8
T 3100	31.2±12.3	28.1±15.1	38.5±25.2	26.6±25.3
T 3200	32.3±10.7	25.9±15.3	40.6±20.9	29.9±27.8

TABLE S.59. Table of Vertical LSR of Healthy Cases.

Table of Vertical LSR of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	3.01±2.24	5.00±10.11	6.47±23.68	7.84±14.75
I 3100	3.31±3.49	4.37±6.04	6.27±23.56	8.37±14.97
I 3000	2.97±2.39	5.79±10.77	9.32±27.81	7.52±15.76
I 2900	2.96±2.49	6.13±9.11	4.76±10.81	9.42±22.01
I 2800	3.45±4.08	5.52±10.34	9.67±32.79	15.46±39.29
I 2700	3.19±2.54	5.80±10.07	9.10±26.45	7.40±23.25
I 2600	3.12±2.67	4.02±3.73	7.80±28.26	8.07±21.27
I 2500	2.90±3.35	4.65±6.96	4.23±6.91	5.77±12.86
I 2400	2.77±3.03	5.49±7.28	7.92±19.47	5.20±11.98
I 2300	3.17±2.53	8.03±13.94	6.89±16.06	9.58±31.31
I 2200	2.92±2.28	4.14±3.47	5.15±9.77	4.87±13.22
I 2100	3.00±2.50	5.39±10.92	6.01±11.21	8.21±20.84
I 2000	2.92±3.77	5.27±5.17	6.19±14.92	4.97±8.81
I 1900	4.02±7.30	6.00±10.08	7.51±17.71	9.53±26.83
I 1800	3.35±3.85	5.49±11.73	7.22±19.60	7.95±19.07
I 1700	2.78±2.07	6.14±8.97	4.55±11.05	3.79±4.36
I 1600	2.60±1.76	5.05±8.26	7.00±27.61	5.61±17.40
I 1500	2.66±1.57	8.81±26.60	4.42±7.15	8.02±21.03
I 1400	2.96±2.38	5.62±6.00	4.12±7.35	7.32±21.88
I 1300	2.89±2.65	5.88±7.39	3.61±5.89	6.24±15.10
I 1200	3.00±1.79	4.77±4.77	5.25±13.58	10.68±32.66
I 1100	2.94±3.33	5.25±7.05	8.71±27.68	7.40±17.43
I 1000	2.93±2.19	5.84±16.03	5.89±16.20	8.60±28.38
I 900	2.97±2.07	4.39±5.79	4.12±9.79	5.70±11.03
I 800	3.03±2.63	6.95±12.69	4.21±8.76	8.94±23.25
I 700	2.77±2.21	5.83±10.72	3.58±4.75	8.33±26.79
I 600	2.69±2.35	5.04±5.72	9.53±30.11	4.35±13.72
I 500	2.93±2.82	7.72±24.64	8.25±25.77	6.83±22.49
I 400	2.64±1.49	5.51±8.13	6.20±12.61	5.61±12.56
I 300	2.89±2.34	5.07±7.81	7.89±22.45	5.36±9.20
I 200	2.70±1.70	5.20±6.91	7.86±19.93	4.46±7.94
I 100	2.64±1.37	4.72±7.83	10.43±31.46	4.74±10.24
V 0	2.45±1.28	5.54±10.45	6.03±21.48	6.08±22.90
S 100	2.22±1.07	5.54±10.45	3.11±4.18	4.17±10.32
S 200	2.54±2.14	4.64±5.62	4.75±11.43	5.02±13.83

Table of Vertical LSR of Healthy Cases

S 300	2.83±1.72	5.94±10.05	4.42±6.49	6.05±18.34
S 400	2.66±2.00	7.23±13.72	8.63±26.82	5.80±17.90
S 500	2.96±2.33	5.68±7.27	5.16±15.20	5.05±8.04
S 600	3.53±6.62	7.71±28.54	6.37±22.52	7.49±21.75
S 700	2.79±1.47	7.55±22.65	6.97±21.02	4.08±6.18
S 800	2.75±1.77	5.10±8.01	8.18±25.50	5.94±12.92
S 900	2.48±1.67	8.27±22.74	3.70±6.96	4.01±7.37
S 1000	2.85±1.57	5.11±8.78	6.19±22.60	7.06±12.92
S 1100	2.80±1.68	7.97±19.28	4.26±7.70	9.42±30.61
S 1200	2.96±3.75	6.70±11.23	7.99±28.18	7.65±28.39
S 1300	2.91±3.31	4.87±5.95	4.84±13.87	5.16±12.64
S 1400	2.99±2.16	5.69±9.67	8.24±16.67	5.36±10.40
S 1500	3.33±3.86	9.07±20.69	8.03±25.20	5.70±12.38
S 1600	3.32±3.81	6.17±10.82	5.26±9.80	5.72±11.96
S 1700	2.66±1.48	9.12±17.70	9.05±28.26	5.07±14.57
S 1800	2.80±1.98	6.73±18.83	6.12±19.76	6.40±19.46
S 1900	3.41±4.12	7.58±18.67	6.99±22.56	7.57±23.64
S 2000	3.92±9.93	8.50±16.24	6.35±20.14	5.82±10.80
S 2100	3.05±3.27	9.10±23.01	4.94±11.16	5.80±14.65
S 2200	2.83±1.85	8.24±22.56	4.60±11.16	7.37±18.66
S 2300	3.24±2.55	8.49±22.79	7.51±19.50	5.78±7.69
S 2400	3.14±3.64	6.72±16.53	4.60±8.19	5.31±12.06
S 2500	3.19±3.47	4.93±4.97	4.99±9.90	7.37±19.70
S 2600	2.85±2.25	7.06±13.79	7.28±26.67	11.24±32.49
S 2700	2.71±1.74	5.89±16.87	10.00±26.60	5.00±9.77
S 2800	4.32±10.74	6.60±11.94	4.39±11.09	11.35±33.61
S 2900	2.88±1.54	5.40±8.37	7.09±21.56	7.19±12.16
S 3000	3.27±2.91	4.79±6.20	7.87±21.69	6.09±12.65
S 3100	3.34±3.84	5.81±8.11	9.85±25.88	10.52±28.62
S 3200	2.57±1.59	6.29±8.98	4.88±13.17	8.74±27.27

TABLE S.60. Table of Horizontal LSR of Healthy Cases.

Table of Horizontal LSR of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	3.31±2.92	7.98±16.48	5.60±17.70	9.39±19.26
N 3100	4.25±6.54	5.69±10.40	5.00±9.54	12.44±26.58
N 3000	3.23±2.80	7.41±18.35	5.56±16.15	13.08±28.61
N 2900	3.57±4.11	5.39±11.03	5.61±12.27	7.87±20.76
N 2800	3.28±3.16	7.49±15.68	4.72±12.02	6.85±10.75
N 2700	3.39±4.19	6.96±11.29	4.31±12.48	13.29±28.63
N 2600	3.83±5.03	7.09±15.21	5.87±16.30	9.97±25.89
N 2500	3.25±3.07	6.04±11.48	5.80±16.94	9.28±18.04
N 2400	5.41±22.95	6.65±12.47	4.66±8.91	13.70±30.60
N 2300	4.75±11.23	6.68±14.20	6.22±17.37	12.01±28.13
N 2200	3.37±2.97	9.99±21.63	6.77±23.02	8.07±17.94
N 2100	3.48±2.54	5.30±5.49	7.59±20.59	13.00±29.68
N 2000	3.62±4.00	5.04±7.13	5.15±15.37	8.22±22.63
N 1900	3.36±5.20	7.28±20.24	4.08±11.37	8.45±21.90
N 1800	3.73±5.70	6.90±15.94	7.60±23.31	7.15±12.12
N 1700	3.34±4.23	7.60±16.69	6.10±16.06	6.15±14.30
N 1600	2.70±1.53	5.45±9.38	6.10±22.31	9.36±26.30
N 1500	3.21±2.96	7.88±17.88	6.96±12.02	5.88±15.95
N 1400	4.25±9.64	5.16±7.69	9.75±25.06	6.28±10.46
N 1300	3.28±2.37	6.30±16.01	5.13±9.26	9.26±18.19
N 1200	3.04±2.13	8.99±22.35	5.24±11.64	4.40±5.70
N 1100	3.18±2.86	7.38±17.86	6.47±23.78	8.78±25.04
N 1000	2.90±1.83	10.00±25.65	4.46±8.61	6.41±19.59
N 900	3.29±3.52	5.33±5.62	3.85±7.29	6.04±12.59
N 800	4.08±6.15	7.16±13.46	8.11±22.15	10.78±26.96
N 700	3.57±4.97	5.52±7.73	5.36±11.89	6.47±13.25
N 600	2.72±1.86	7.80±19.96	4.38±8.72	4.94±9.16
N 500	2.92±1.75	6.83±18.08	8.78±22.91	3.81±4.28
N 400	2.74±1.53	4.54±6.66	7.25±19.82	4.58±7.34
N 300	2.51±1.34	3.86±3.75	6.37±18.85	5.62±11.82
N 200	2.39±1.23	3.68±3.01	2.88±2.56	4.63±8.35
N 100	2.67±3.48	4.89±5.37	8.06±26.37	2.95±3.44
H 0	2.60±1.28	6.54±17.02	4.61±9.97	4.83±8.37
T 100	2.68±1.59	6.54±17.02	3.07±4.42	5.08±9.40
T 200	2.59±1.14	7.62±18.22	2.84±3.57	6.89±22.99

Table of Horizontal LSR of Healthy Cases

T 300	2.48±1.33	5.64±14.24	3.49±5.43	6.37±17.37
T 400	3.01±2.61	6.12±15.27	4.53±7.44	6.22±14.23
T 500	2.57±1.16	5.24±6.31	4.41±9.60	6.27±18.49
T 600	2.46±1.19	5.62±6.51	5.30±16.21	5.35±8.40
T 700	2.77±1.95	6.50±12.63	3.41±5.33	7.73±25.21
T 800	2.94±1.38	6.30±12.26	5.58±18.05	9.20±25.74
T 900	2.88±1.58	6.86±11.02	6.75±18.13	8.73±25.55
T 1000	3.15±1.83	7.30±11.27	9.06±20.05	12.88±36.07
T 1100	2.75±1.60	6.54±14.80	3.14±3.81	6.78±23.81
T 1200	2.76±3.26	6.82±14.37	2.99±5.76	6.02±13.22
T 1300	2.78±1.62	8.02±13.42	5.20±12.17	8.98±26.27
T 1400	3.46±3.88	6.96±10.53	6.89±19.19	6.68±13.95
T 1500	2.92±1.73	5.65±7.19	3.89±6.68	7.10±19.19
T 1600	2.85±2.36	5.83±8.62	6.39±23.03	5.25±8.41
T 1700	3.06±2.81	5.32±5.32	5.48±20.48	15.32±34.32
T 1800	2.47±1.20	4.19±4.91	3.60±9.70	8.54±17.67
T 1900	2.79±2.18	8.36±14.09	2.79±5.43	10.15±24.45
T 2000	2.93±1.86	7.63±11.68	4.65±8.73	9.33±19.75
T 2100	2.71±1.54	7.84±17.49	4.14±7.92	7.56±23.61
T 2200	2.67±1.36	5.97±8.63	3.66±8.80	8.47±17.91
T 2300	2.76±2.33	5.51±10.32	4.26±9.99	8.20±20.07
T 2400	3.17±2.61	6.67±13.87	7.52±21.04	11.39±31.43
T 2500	2.96±2.19	7.91±18.04	6.89±24.66	11.81±31.16
T 2600	2.72±1.97	4.75±6.06	5.55±20.11	11.37±25.20
T 2700	2.95±2.25	4.78±6.32	6.22±16.58	10.16±26.84
T 2800	2.63±2.63	5.31±8.35	5.00±13.29	9.94±24.35
T 2900	2.85±2.29	8.45±16.50	6.55±23.24	4.42±7.78
T 3000	3.10±2.47	4.52±6.32	7.14±20.36	12.85±28.08
T 3100	2.96±2.35	6.91±17.39	7.04±22.55	13.77±29.48
T 3200	2.93±5.01	5.44±10.06	3.31±7.02	8.94±24.70

TABLE S.61. Table of Vertical Choroidal Mean of Healthy Cases.

Table of Vertical Choroidal Mean of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	77.5±31.6	70.7±33.2	90.0±54.0	70.3±57.3
I 3100	75.9±29.4	68.1±35.3	83.0±56.9	72.9±54.1
I 3000	75.9±28.0	69.0±33.6	82.1±57.1	76.4±54.7
I 2900	78.1±30.2	64.9±38.9	87.9±53.9	76.3±56.7
I 2800	74.5±28.7	71.6±37.6	84.9±51.6	72.6±59.0
I 2700	75.4±29.7	64.4±36.3	75.4±50.0	79.2±54.0
I 2600	75.7±28.8	70.3±34.2	84.0±55.5	77.9±60.0
I 2500	82.9±29.6	73.0±37.4	86.6±55.6	91.0±60.6
I 2400	84.1±30.2	64.3±37.2	81.9±55.8	97.0±58.4
I 2300	73.9±26.4	61.0±37.7	80.4±52.6	75.9±50.5
I 2200	79.1±29.5	67.6±33.5	86.7±55.0	88.6±52.4
I 2100	78.6±30.4	72.9±37.9	83.0±55.8	84.7±56.7
I 2000	81.8±27.1	62.2±34.2	82.9±49.1	88.9±52.8
I 1900	81.8±33.9	67.7±37.1	85.8±60.8	96.7±62.4
I 1800	75.8±26.7	67.0±34.7	79.5±51.7	79.6±54.9
I 1700	78.3±25.8	61.9±37.4	85.4±49.3	81.7±52.7
I 1600	79.9±23.1	65.8±32.0	85.4±49.3	91.5±52.6
I 1500	79.1±25.3	66.9±33.3	84.9±51.1	86.1±58.1
I 1400	75.4±25.1	62.4±36.7	78.9±45.8	79.5±51.0
I 1300	80.4±28.6	58.5±32.4	95.5±51.4	82.2±55.2
I 1200	72.1±21.5	62.7±35.3	84.8±45.3	72.4±52.4
I 1100	78.3±25.6	63.7±35.7	84.0±53.0	87.5±52.4
I 1000	76.4±26.0	61.4±30.7	80.4±46.7	84.5±53.6
I 900	75.4±25.7	68.5±33.1	89.6±49.5	74.6±51.9
I 800	75.8±24.9	62.6±31.7	82.5±45.8	75.4±52.6
I 700	79.3±25.7	64.5±31.1	85.3±49.9	89.0±52.4
I 600	78.5±21.2	64.5±32.5	80.4±47.1	90.4±50.7
I 500	76.0±23.1	66.2±32.7	73.2±42.4	90.5±54.1
I 400	78.0±24.4	65.4±33.9	81.6±47.6	86.0±53.2
I 300	77.4±26.2	70.5±35.1	82.4±45.9	84.0±54.8
I 200	79.4±26.7	63.9±30.6	81.7±46.1	85.8±51.9
I 100	78.3±24.2	66.8±31.3	80.3±42.1	90.8±48.7
V 0	81.5±22.7	67.2±30.0	85.0±48.4	92.5±51.1
S 100	85.8±22.6	67.2±30.0	91.8±47.4	97.7±53.0
S 200	84.2±26.7	68.0±33.7	89.7±54.3	94.0±53.0

Table of Vertical Choroidal Mean of Healthy Cases (PV)

S 300	76.3±25.2	62.0±30.5	80.4±48.2	86.2±50.3
S 400	80.7±25.0	61.6±32.2	88.6±49.1	91.6±48.7
S 500	76.0±25.5	63.7±34.9	82.8±44.9	80.9±46.7
S 600	74.8±23.8	60.4±32.4	83.0±48.2	80.9±48.1
S 700	75.1±22.8	62.1±32.2	82.6±46.0	80.0±49.7
S 800	77.1±22.6	63.3±31.9	81.3±49.5	86.2±50.5
S 900	83.4±25.8	60.9±33.1	91.1±47.0	97.4±59.2
S 1000	75.1±24.1	63.8±34.1	84.8±45.5	76.0±52.5
S 1100	76.4±24.2	62.8±34.3	84.0±46.3	81.5±49.6
S 1200	78.7±25.1	61.7±33.1	81.6±46.2	92.5±55.1
S 1300	79.7±25.1	61.2±30.2	84.6±44.8	92.5±56.4
S 1400	75.1±27.7	60.6±30.3	76.7±51.9	87.7±57.2
S 1500	77.0±28.9	59.2±34.1	78.0±51.2	93.0±59.1
S 1600	77.1±28.7	61.8±30.0	81.7±52.2	86.6±53.2
S 1700	78.5±24.8	61.0±35.8	82.9±53.1	90.3±53.1
S 1800	77.5±25.5	65.5±34.0	81.6±48.5	84.9±50.5
S 1900	76.4±30.0	60.1±33.3	77.2±46.8	91.8±62.6
S 2000	78.3±29.2	61.9±36.7	82.4±53.8	89.7±60.6
S 2100	80.5±30.0	59.3±34.4	89.1±54.3	92.5±59.4
S 2200	76.9±25.8	66.5±35.4	82.2±45.8	82.2±53.0
S 2300	75.0±30.0	64.8±36.6	88.8±57.9	70.2±53.0
S 2400	77.4±28.1	62.0±31.6	83.8±51.0	85.4±56.2
S 2500	77.7±30.0	63.1±32.3	81.4±47.8	88.0±62.9
S 2600	79.6±29.9	61.7±33.4	87.8±51.0	88.5±63.9
S 2700	80.1±27.6	70.1±35.5	82.4±52.3	87.3±57.7
S 2800	77.0±29.1	64.9±34.0	82.4±52.2	83.3±56.5
S 2900	74.9±25.3	64.5±32.6	81.8±53.7	78.3±56.2
S 3000	74.9±28.9	69.0±36.0	76.0±55.5	79.4±56.2
S 3100	76.4±29.8	61.5±32.4	81.6±56.9	85.7±62.2
S 3200	83.1±29.3	60.4±36.5	98.7±56.8	88.8±61.9

TABLE S.62. Table of Horizontal Choroidal Mean of Healthy Cases.

Table of Horizontal Choroidal Mean of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	71.4±27.5	63.2±42.6	89.4±56.7	60.6±56.3
N 3100	67.4±27.3	70.2±43.2	82.1±50.5	55.8±56.4
N 3000	75.2±29.6	65.4±38.9	84.7±54.5	69.4±61.5
N 2900	74.2±31.8	68.7±36.6	84.6±57.0	70.9±67.1
N 2800	74.1±30.0	61.5±37.9	84.1±59.9	67.9±58.3
N 2700	74.4±27.1	62.3±41.2	87.1±53.6	72.9±66.1
N 2600	72.6±30.0	64.4±35.3	82.5±56.9	70.6±58.0
N 2500	74.6±27.3	67.1±38.2	83.5±50.2	74.5±64.0
N 2400	74.5±31.1	63.9±39.1	84.7±55.5	70.7±61.9
N 2300	71.3±27.6	66.0±36.9	82.1±48.6	66.4±56.2
N 2200	74.0±29.1	62.4±39.5	85.4±49.2	69.0±55.7
N 2100	69.4±26.5	60.4±34.7	83.9±56.2	61.3±56.2
N 2000	73.2±29.3	66.8±34.0	85.5±52.2	72.3±56.7
N 1900	74.8±23.5	63.3±32.7	87.8±47.7	68.4±49.1
N 1800	72.7±25.5	63.4±35.4	83.2±50.5	70.0±51.0
N 1700	76.0±28.6	62.4±35.9	87.2±55.6	77.2±58.5
N 1600	77.1±22.8	59.9±33.1	88.5±52.7	79.4±50.6
N 1500	72.6±24.7	63.5±34.3	70.4±48.3	87.2±53.6
N 1400	70.3±25.0	63.4±32.1	72.8±49.9	73.2±52.4
N 1300	72.3±27.0	62.7±33.1	81.2±51.7	71.3±54.5
N 1200	72.4±21.4	59.8±35.2	78.8±46.1	75.0±45.8
N 1100	73.9±25.2	59.1±32.6	84.1±53.6	77.2±51.6
N 1000	74.5±22.6	58.9±38.4	84.2±48.6	79.4±45.6
N 900	74.9±27.8	59.7±31.7	86.2±51.3	78.9±46.1
N 800	67.6±24.7	60.5±32.6	68.3±45.1	74.7±48.8
N 700	71.9±23.9	65.4±32.4	75.9±44.0	78.7±47.0
N 600	78.3±24.8	63.3±37.0	82.9±46.3	86.2±50.7
N 500	73.2±21.1	64.9±30.9	77.9±48.1	78.0±40.4
N 400	76.5±23.2	69.2±31.8	81.3±46.3	82.4±44.9
N 300	80.7±23.6	71.1±32.2	86.4±47.3	85.5±52.6
N 200	81.8±20.7	71.6±32.3	84.8±42.9	88.5±52.3
N 100	82.0±23.8	64.4±32.9	83.2±47.2	90.4±45.3
H 0	77.7±21.7	62.3±30.6	84.2±43.7	83.8±46.5
T 100	77.2±23.2	62.3±30.6	92.4±44.8	76.6±49.0
T 200	77.2±21.2	65.5±35.4	89.2±43.3	76.0±45.1

Table of Horizontal Choroidal Mean of Healthy Cases (PV)

T 300	80.2±21.0	66.1±29.1	91.9±48.3	82.2±50.9
T 400	75.7±25.3	62.6±33.9	83.7±52.6	80.2±49.4
T 500	77.6±20.4	60.4±27.9	88.6±49.1	82.9±46.9
T 600	80.3±21.4	63.0±33.7	94.5±48.2	83.0±50.2
T 700	77.4±23.4	60.0±34.9	91.5±45.0	80.3±50.8
T 800	71.5±21.4	62.1±34.5	84.3±46.5	67.4±45.3
T 900	73.9±22.6	60.4±33.9	89.2±55.6	70.7±47.1
T 1000	70.7±24.7	55.3±32.0	81.0±54.6	74.5±50.9
T 1100	77.1±24.5	61.3±35.9	91.4±45.6	77.9±52.8
T 1200	80.4±23.2	59.6±35.0	93.3±50.8	87.0±55.7
T 1300	76.1±23.2	58.4±33.5	87.0±48.8	82.7±58.9
T 1400	72.9±26.0	61.7±37.7	80.8±51.6	75.4±58.7
T 1500	72.8±22.0	61.8±36.2	83.0±44.4	72.6±52.9
T 1600	79.0±25.2	59.8±32.4	99.4±50.9	76.1±55.5
T 1700	75.3±24.7	61.7±33.7	93.1±51.2	69.9±58.1
T 1800	81.1±24.0	67.2±31.1	96.1±50.2	79.2±63.1
T 1900	77.9±23.6	62.2±37.1	96.1±50.4	74.2±53.9
T 2000	75.0±25.8	57.8±36.3	94.2±53.8	71.3±58.8
T 2100	77.1±23.5	64.8±37.8	92.6±52.5	72.4±59.1
T 2200	77.2±23.1	62.1±34.5	91.7±49.0	76.3±57.9
T 2300	81.4±29.1	70.6±36.6	98.6±54.1	73.6±58.7
T 2400	75.6±28.7	63.9±35.3	85.3±57.6	77.0±58.8
T 2500	76.3±26.5	68.9±38.2	88.8±58.2	69.8±58.3
T 2600	80.3±27.2	69.8±35.3	93.4±52.7	76.5±62.0
T 2700	78.6±29.2	65.5±36.8	94.2±59.2	74.6±56.1
T 2800	87.0±30.6	70.9±36.2	96.8±60.5	92.0±70.9
T 2900	80.0±29.3	65.9±40.1	87.0±56.7	85.8±60.9
T 3000	74.0±26.7	69.5±37.8	84.9±57.1	66.8±52.9
T 3100	79.7±31.5	71.6±38.4	98.1±64.1	67.8±64.4
T 3200	82.3±27.2	66.1±39.0	103.4±53.4	76.4±70.9

TABLE S.63. Table of Vertical Choroidal Standard Deviation of Healthy Cases.

Table of Vertical Choroidal Standard Deviation of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	112.3±14.0	107.7±20.6	104.0±35.1	92.8±34.6
I 3100	111.9±15.7	104.8±24.5	99.3±36.0	96.2±34.9
I 3000	111.9±18.1	106.1±23.4	99.0±35.5	99.0±30.9
I 2900	112.9±13.7	99.9±30.9	105.3±28.5	96.6±34.7
I 2800	111.4±16.0	105.7±25.4	105.5±27.3	93.4±34.0
I 2700	111.6±15.3	102.2±24.4	99.0±36.8	99.9±33.9
I 2600	112.1±14.5	107.5±18.8	101.6±32.9	95.6±34.3
I 2500	114.9±14.8	107.3±21.9	102.6±32.7	102.5±29.2
I 2400	115.3±14.2	101.7±25.1	100.5±32.7	105.9±28.5
I 2300	111.8±14.6	99.1±26.2	103.4±26.1	100.0±34.1
I 2200	113.5±14.2	106.2±18.6	104.9±25.9	106.1±29.2
I 2100	113.0±14.7	106.9±22.6	102.5±27.7	102.2±29.7
I 2000	115.2±14.4	102.1±22.0	105.3±29.8	106.7±26.4
I 1900	112.6±19.7	103.5±26.1	97.8±36.8	101.9±33.9
I 1800	112.4±16.3	104.5±23.8	103.0±27.5	101.0±29.2
I 1700	114.2±12.3	98.1±31.9	106.4±29.2	103.1±29.3
I 1600	115.6±11.3	105.4±20.2	107.2±26.0	108.4±23.6
I 1500	114.8±11.6	104.5±25.2	106.5±24.4	101.4±31.4
I 1400	113.0±12.8	101.2±22.8	104.9±29.8	102.9±29.3
I 1300	114.2±14.4	99.6±24.6	110.0±24.3	101.5±30.8
I 1200	112.3±12.1	100.7±27.7	108.8±25.1	95.7±37.5
I 1100	114.2±13.5	101.5±26.5	102.6±33.5	106.1±27.5
I 1000	113.2±13.2	102.0±24.7	105.1±30.2	103.1±31.8
I 900	112.9±13.6	106.0±22.8	108.2±27.7	98.8±33.2
I 800	113.1±14.0	102.4±24.8	106.9±28.2	99.4±31.4
I 700	114.6±13.0	104.3±22.5	105.8±29.9	106.5±28.1
I 600	115.3±11.4	104.1±21.4	104.8±30.6	108.0±27.5
I 500	113.8±12.6	104.7±23.3	103.8±28.6	106.0±28.9
I 400	114.6±10.3	104.0±22.8	105.2±30.2	105.3±26.7
I 300	113.7±13.2	106.6±22.2	107.5±25.6	103.5±27.5
I 200	114.5±12.2	104.4±21.1	105.7±31.1	105.9±26.6
I 100	114.7±10.9	106.3±19.1	107.6±27.6	110.1±22.7
V 0	116.4±10.3	106.5±21.5	106.3±29.9	108.9±25.5
S 100	118.1±8.8	106.5±21.5	111.4±20.7	110.4±21.4
S 200	116.4±12.4	106.0±20.4	105.7±28.4	108.1±27.0

Table of Vertical Choroidal Standard Deviation of Healthy Cases (PV)

S 300	113.5±12.3	103.0±22.2	104.6±29.2	107.0±25.7
S 400	115.4±12.5	101.8±23.9	107.9±28.1	109.3±27.2
S 500	113.1±13.5	101.9±25.7	107.3±28.7	105.7±28.8
S 600	112.7±15.5	99.7±28.7	105.1±31.6	104.7±30.2
S 700	113.5±11.2	102.4±23.2	107.6±25.2	103.7±29.6
S 800	114.4±12.1	103.2±23.2	104.9±27.5	106.9±25.9
S 900	116.4±11.4	100.4±26.8	111.5±19.7	105.3±29.6
S 1000	113.2±12.2	102.3±25.6	108.6±25.8	100.1±30.5
S 1100	113.8±12.1	101.5±25.9	107.2±28.7	104.2±30.5
S 1200	114.4±13.6	101.4±24.7	106.2±29.0	106.1±28.8
S 1300	114.8±13.8	102.1±24.6	108.0±29.0	105.2±29.8
S 1400	112.3±12.7	101.9±23.3	99.1±35.5	104.3±24.7
S 1500	112.4±16.3	98.7±27.6	101.3±31.8	103.1±32.4
S 1600	112.5±16.3	102.9±22.7	102.9±30.7	105.4±27.2
S 1700	114.6±11.4	98.9±29.0	103.7±28.0	108.0±22.2
S 1800	114.0±12.2	104.0±22.9	105.4±28.1	104.5±32.6
S 1900	111.8±16.6	100.0±26.2	103.9±28.8	102.0±27.6
S 2000	112.8±17.3	99.7±27.1	100.8±35.7	101.0±32.8
S 2100	113.8±15.8	98.6±27.6	106.2±25.6	103.7±29.2
S 2200	113.6±12.4	103.8±24.6	107.9±23.2	103.6±27.5
S 2300	111.3±15.6	102.0±25.7	102.8±30.6	96.8±29.6
S 2400	113.0±14.9	102.7±22.4	103.6±33.5	103.4±26.9
S 2500	112.6±15.2	103.5±20.8	105.0±30.1	98.5±34.0
S 2600	113.7±13.3	101.4±24.7	106.4±29.1	98.3±33.1
S 2700	114.5±12.6	106.4±21.3	101.3±36.3	102.7±29.3
S 2800	112.2±17.7	102.6±27.0	101.9±35.0	100.8±32.3
S 2900	112.9±12.2	104.1±21.5	102.1±30.9	99.7±29.0
S 3000	111.5±15.5	105.8±21.1	97.0±35.1	99.4±31.8
S 3100	112.0±16.1	102.0±22.8	98.4±36.6	98.2±33.2
S 3200	115.4±12.2	99.1±26.3	106.8±30.0	99.7±33.3

TABLE S.64. Table of Horizontal Choroidal Standard Deviation of Healthy Cases.

Table of Horizontal Choroidal Standard Deviation of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	109.8±18.6	98.4±27.6	102.4±35.7	83.6±41.9
N 3100	107.9±17.3	102.3±27.9	102.6±35.6	77.1±46.1
N 3000	111.6±15.3	101.0±28.5	102.5±33.0	88.3±38.0
N 2900	110.4±16.5	104.3±26.6	100.1±35.7	83.4±41.9
N 2800	110.4±19.3	98.3±30.1	97.5±37.7	88.9±39.2
N 2700	111.9±15.1	98.0±28.4	103.7±33.6	87.7±36.7
N 2600	109.9±17.6	102.0±27.2	99.0±36.3	91.0±38.6
N 2500	111.9±15.3	101.6±30.5	103.6±34.7	90.6±35.6
N 2400	110.6±17.2	100.5±26.3	101.3±34.7	88.7±38.1
N 2300	109.7±18.3	103.1±24.0	104.3±32.6	90.2±36.9
N 2200	111.0±16.3	98.9±27.7	104.5±35.7	92.1±36.8
N 2100	109.5±15.2	99.8±26.1	99.7±37.0	86.0±37.6
N 2000	110.5±17.2	105.2±21.1	102.9±36.1	93.1±38.1
N 1900	112.9±14.5	102.5±25.7	107.4±31.5	96.5±34.0
N 1800	111.2±16.5	101.5±26.1	104.2±31.6	96.0±35.2
N 1700	112.1±15.9	98.7±32.8	102.5±33.9	95.7±35.3
N 1600	114.5±11.1	99.6±27.3	105.8±29.8	103.0±29.7
N 1500	111.7±13.5	101.5±27.7	98.8±31.8	104.8±29.8
N 1400	110.1±16.9	102.7±25.7	97.4±37.3	98.6±30.7
N 1300	110.9±15.0	101.7±26.7	103.6±28.3	94.6±35.7
N 1200	112.4±12.8	99.0±26.9	104.8±29.6	103.5±28.3
N 1100	112.1±14.4	98.7±29.5	102.1±34.4	100.6±32.3
N 1000	113.2±12.4	96.1±30.4	106.8±26.4	106.4±25.2
N 900	111.9±15.1	100.8±23.8	105.0±31.7	105.6±27.0
N 800	108.6±16.8	101.1±23.9	97.8±35.1	100.4±33.2
N 700	111.3±15.2	104.4±22.9	103.6±31.6	104.6±28.4
N 600	114.5±11.7	100.5±27.1	107.5±25.9	106.7±26.2
N 500	112.9±11.9	104.1±24.9	102.9±31.5	108.4±22.7
N 400	114.1±11.5	106.8±22.9	106.1±28.4	107.9±25.6
N 300	115.9±10.5	108.6±18.1	108.3±26.6	105.2±27.4
N 200	116.9±9.6	108.9±17.5	110.0±23.9	107.0±25.5
N 100	116.3±11.4	104.1±20.6	105.5±32.0	111.8±20.2
H 0	115.0±10.2	103.2±22.0	110.1±21.0	108.3±23.3
T 100	114.5±10.7	103.2±22.0	112.4±21.6	103.1±27.0
T 200	114.9±9.6	102.8±25.9	111.1±25.9	104.5±27.2

Table of Horizontal Choroidal Standard Deviation of Healthy Cases (PV)

T 300	116.2±9.8	106.2±21.0	109.9±25.8	104.4±28.4
T 400	113.1±13.6	102.0±23.6	103.4±31.2	104.1±28.9
T 500	115.3±9.5	103.1±20.7	108.1±27.4	107.2±25.9
T 600	116.2±9.5	102.4±23.4	111.1±24.2	105.9±25.0
T 700	114.4±12.1	98.7±28.5	111.9±22.5	101.8±34.3
T 800	112.1±10.7	101.7±22.8	108.9±21.6	97.2±35.3
T 900	113.0±11.7	100.5±24.4	104.1±31.0	99.3±32.3
T 1000	110.9±12.5	97.7±23.5	101.0±31.8	99.3±33.1
T 1100	114.1±11.7	98.5±30.9	112.5±18.0	100.1±33.1
T 1200	115.7±12.5	99.1±26.1	108.7±28.2	103.6±29.6
T 1300	113.9±11.8	98.2±28.3	107.9±26.2	99.9±30.0
T 1400	111.3±15.6	99.1±27.6	101.2±35.8	95.4±33.2
T 1500	112.6±11.2	99.9±27.3	108.5±25.2	98.0±30.7
T 1600	114.5±13.9	100.1±26.4	110.2±28.9	97.6±33.2
T 1700	113.0±13.8	101.2±25.1	109.4±24.4	91.1±37.2
T 1800	116.0±10.0	105.6±24.4	111.2±22.2	94.5±33.5
T 1900	114.5±12.5	99.8±27.4	109.1±30.7	97.8±32.6
T 2000	112.7±12.5	97.0±27.6	108.0±26.3	91.9±36.1
T 2100	114.4±11.3	100.5±30.0	108.7±24.2	90.3±41.1
T 2200	114.5±10.7	101.2±25.2	109.3±27.2	95.1±36.9
T 2300	114.6±13.3	106.2±22.4	108.2±30.1	93.6±35.6
T 2400	112.0±15.3	101.3±28.3	100.4±34.3	94.7±37.4
T 2500	113.0±13.6	103.7±26.5	100.2±38.0	91.5±35.7
T 2600	114.7±12.9	106.4±21.6	107.5±29.7	92.6±36.7
T 2700	113.3±14.7	102.5±25.3	104.9±27.3	94.8±38.1
T 2800	116.3±14.3	106.3±23.3	103.3±33.2	93.6±36.5
T 2900	114.0±13.9	101.0±27.6	101.9±33.7	98.6±34.7
T 3000	112.0±13.5	103.9±27.8	102.1±29.4	91.4±39.0
T 3100	113.1±14.8	105.0±27.2	103.2±27.3	83.2±41.7
T 3200	115.5±13.3	100.7±30.3	111.6±22.2	82.7±43.6

TABLE S.65. Table of Vertical Choroidal Skewness of Healthy Cases.

Table of Vertical Choroidal Skewness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.98±0.74	1.30±1.33	0.93±2.13	1.55±2.05
I 3100	1.04±0.84	1.26±1.12	1.03±2.03	1.56±2.16
I 3000	0.98±0.71	1.42±1.49	1.34±2.53	1.43±2.07
I 2900	0.96±0.74	1.51±1.53	0.85±2.11	1.44±2.76
I 2800	1.07±0.87	1.33±1.50	1.39±2.56	1.98±3.24
I 2700	1.04±0.77	1.49±1.42	1.40±2.43	1.24±2.17
I 2600	1.02±0.74	1.23±0.97	1.19±2.30	1.34±2.30
I 2500	0.88±0.81	1.26±1.24	0.91±1.52	0.98±2.03
I 2400	0.85±0.78	1.49±1.31	1.33±2.22	0.86±1.88
I 2300	1.05±0.71	1.80±1.79	1.33±1.97	1.46±2.49
I 2200	0.94±0.73	1.29±0.94	1.07±1.69	0.94±1.69
I 2100	0.96±0.76	1.32±1.47	1.23±1.82	1.33±2.31
I 2000	0.89±0.80	1.53±1.15	1.19±1.87	1.03±1.65
I 1900	1.02±1.23	1.46±1.53	1.15±2.30	1.14±2.81
I 1800	1.04±0.85	1.38±1.43	1.34±2.04	1.43±2.15
I 1700	0.93±0.63	1.53±1.50	0.89±1.80	0.96±1.29
I 1600	0.88±0.56	1.40±1.23	1.14±2.11	0.98±1.90
I 1500	0.90±0.58	1.63±2.15	1.03±1.44	1.31±2.29
I 1400	1.00±0.65	1.57±1.25	1.02±1.34	1.31±2.08
I 1300	0.92±0.75	1.62±1.28	0.75±1.43	1.11±2.07
I 1200	1.05±0.56	1.40±1.12	1.07±1.67	1.48±2.86
I 1100	0.95±0.72	1.45±1.27	1.25±2.45	1.27±2.14
I 1000	0.98±0.66	1.47±1.45	1.16±1.80	1.24±2.44
I 900	1.00±0.65	1.28±1.10	0.85±1.49	1.23±1.72
I 800	1.00±0.70	1.65±1.62	0.99±1.39	1.53±2.31
I 700	0.91±0.65	1.50±1.41	0.87±1.27	1.19±2.40
I 600	0.91±0.58	1.45±1.16	1.39±2.51	0.84±1.59
I 500	0.98±0.65	1.55±1.93	1.43±2.19	0.99±2.44
I 400	0.91±0.54	1.47±1.32	1.23±1.84	1.08±1.85
I 300	0.96±0.67	1.34±1.32	1.32±2.19	1.08±1.93
I 200	0.90±0.61	1.46±1.21	1.32±2.19	0.99±1.51
I 100	0.91±0.54	1.34±1.15	1.49±2.62	0.97±1.61
V 0	0.83±0.50	1.41±1.40	1.05±1.92	0.96±2.01
S 100	0.74±0.46	1.41±1.40	0.77±1.13	0.75±1.65
S 200	0.81±0.65	1.34±1.13	0.90±1.78	0.87±1.78

Table of Vertical Choroidal Skewness of Healthy Cases

S 300	0.97±0.60	1.56±1.38	1.07±1.40	1.10±1.90
S 400	0.88±0.62	1.67±1.68	1.21±2.44	0.99±1.93
S 500	0.99±0.67	1.52±1.34	1.03±1.68	1.15±1.54
S 600	1.06±0.93	1.58±1.90	1.09±1.99	1.30±2.12
S 700	0.98±0.53	1.64±1.81	1.26±2.01	1.00±1.36
S 800	0.94±0.57	1.43±1.20	1.33±2.26	1.13±1.90
S 900	0.81±0.59	1.72±1.94	0.84±1.34	0.72±1.65
S 1000	0.99±0.57	1.41±1.25	1.11±1.91	1.42±1.94
S 1100	0.96±0.58	1.71±1.85	0.98±1.42	1.36±2.52
S 1200	0.94±0.75	1.66±1.53	1.26±2.25	1.04±2.35
S 1300	0.92±0.74	1.43±1.11	0.98±1.61	0.88±1.85
S 1400	1.01±0.66	1.53±1.32	1.46±2.20	1.06±1.82
S 1500	1.02±0.87	1.83±2.03	1.36±2.22	0.94±2.03
S 1600	1.02±0.87	1.58±1.43	1.09±1.75	1.11±1.82
S 1700	0.91±0.56	1.84±2.04	1.36±2.45	0.98±1.71
S 1800	0.94±0.62	1.53±1.68	1.16±1.87	1.09±2.01
S 1900	1.04±0.90	1.69±1.76	1.31±1.98	1.09±2.36
S 2000	1.04±1.16	1.81±1.91	1.04±2.11	0.99±2.13
S 2100	0.94±0.83	1.82±2.05	0.97±1.72	0.99±1.96
S 2200	0.96±0.62	1.61±2.02	1.05±1.48	1.28±2.14
S 2300	1.05±0.78	1.70±2.01	1.17±2.27	1.39±1.61
S 2400	0.99±0.80	1.60±1.60	0.99±1.56	1.05±1.76
S 2500	1.00±0.83	1.46±1.08	1.07±1.64	1.08±2.40
S 2600	0.92±0.71	1.67±1.63	1.11±2.21	1.40±2.92
S 2700	0.90±0.63	1.37±1.58	1.43±2.60	1.00±1.72
S 2800	1.09±1.27	1.56±1.62	0.92±1.55	1.51±2.82
S 2900	0.99±0.58	1.47±1.28	1.23±2.09	1.44±1.96
S 3000	1.05±0.79	1.34±1.21	1.37±2.21	1.21±1.87
S 3100	1.04±0.86	1.58±1.30	1.40±2.61	1.41±2.75
S 3200	0.83±0.64	1.64±1.41	0.74±1.87	1.15±2.56

TABLE S.66. Table of Horizontal Choroidal Skewness of Healthy Cases.

Table of Horizontal Choroidal Skewness of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	1.09±0.76	1.72±1.87	0.86±2.04	1.65±2.39
N 3100	1.27±1.02	1.36±1.57	1.03±1.65	1.87±2.80
N 3000	1.04±0.78	1.57±1.86	1.02±1.83	1.90±2.89
N 2900	1.10±0.92	1.34±1.44	1.02±1.90	1.23±2.57
N 2800	1.05±0.81	1.64±1.81	0.88±1.72	1.35±2.21
N 2700	1.06±0.85	1.64±1.66	0.82±1.61	1.82±3.16
N 2600	1.15±0.98	1.60±1.73	1.03±1.94	1.55±2.55
N 2500	1.05±0.78	1.43±1.58	1.01±1.90	1.63±2.36
N 2400	1.17±1.58	1.57±1.64	0.96±1.62	1.84±3.24
N 2300	1.23±1.30	1.55±1.64	1.14±1.91	1.81±2.82
N 2200	1.08±0.81	1.89±2.21	1.03±2.13	1.50±2.14
N 2100	1.16±0.73	1.52±1.19	1.17±2.27	2.04±2.76
N 2000	1.12±0.90	1.39±1.23	0.92±1.78	1.40±2.27
N 1900	1.04±0.85	1.58±1.79	0.82±1.49	1.53±2.18
N 1800	1.12±0.95	1.59±1.67	1.22±2.22	1.49±1.90
N 1700	1.04±0.86	1.61±1.87	1.02±2.00	1.14±2.07
N 1600	0.93±0.54	1.49±1.29	1.01±1.98	1.47±2.44
N 1500	1.07±0.71	1.67±1.88	1.49±1.83	1.02±2.02
N 1400	1.20±1.11	1.42±1.26	1.59±2.44	1.39±1.75
N 1300	1.09±0.72	1.50±1.57	1.10±1.73	1.67±2.28
N 1200	1.05±0.60	1.80±2.04	1.15±1.60	1.15±1.31
N 1100	1.05±0.72	1.64±1.77	1.02±2.08	1.43±2.35
N 1000	1.00±0.58	1.89±2.21	1.01±1.47	1.23±1.89
N 900	1.05±0.81	1.54±1.15	0.86±1.39	1.26±1.76
N 800	1.25±0.96	1.69±1.64	1.52±2.10	1.67±2.57
N 700	1.11±0.87	1.47±1.32	1.17±1.64	1.32±1.84
N 600	0.92±0.60	1.66±1.86	1.01±1.43	1.04±1.64
N 500	1.02±0.55	1.51±1.73	1.46±2.30	1.07±1.11
N 400	0.95±0.55	1.27±1.17	1.30±2.06	1.07±1.47
N 300	0.85±0.52	1.19±0.94	1.12±1.96	1.08±1.87
N 200	0.82±0.47	1.17±0.87	0.78±1.22	0.97±1.61
N 100	0.85±0.68	1.43±1.11	1.24±2.30	0.77±1.06
H 0	0.91±0.49	1.57±1.58	1.05±1.47	1.09±1.54
T 100	0.93±0.54	1.57±1.58	0.75±1.14	1.20±1.53
T 200	0.91±0.46	1.63±1.84	0.73±1.02	1.28±1.97

Table of Horizontal Choroidal Skewness of Healthy Cases

T 300	0.85±0.48	1.42±1.42	0.80±1.29	1.18±1.93
T 400	1.00±0.69	1.51±1.50	1.00±1.53	1.23±1.85
T 500	0.90±0.46	1.52±1.13	0.92±1.56	1.17±1.89
T 600	0.85±0.47	1.55±1.27	0.88±1.83	1.18±1.63
T 700	0.94±0.59	1.58±1.57	0.80±1.23	1.22±2.25
T 800	1.05±0.50	1.60±1.46	1.09±1.76	1.59±2.32
T 900	1.00±0.55	1.70±1.54	1.14±2.08	1.50±2.31
T 1000	1.09±0.61	1.83±1.52	1.52±2.36	1.75±2.92
T 1100	0.94±0.57	1.53±1.63	0.80±1.11	1.20±2.04
T 1200	0.89±0.69	1.67±1.55	0.65±1.23	1.10±1.93
T 1300	0.96±0.56	1.82±1.76	1.05±1.68	1.35±2.47
T 1400	1.10±0.83	1.68±1.60	1.16±2.09	1.29±2.05
T 1500	1.03±0.54	1.53±1.32	0.97±1.27	1.35±2.11
T 1600	0.93±0.68	1.56±1.35	0.86±2.15	1.10±1.98
T 1700	1.01±0.70	1.52±1.18	0.90±1.89	2.01±3.22
T 1800	0.84±0.51	1.25±1.03	0.70±1.45	1.47±2.33
T 1900	0.93±0.62	1.81±1.88	0.57±1.19	1.67±2.48
T 2000	1.00±0.62	1.81±1.65	0.90±1.65	1.55±2.59
T 2100	0.93±0.55	1.63±1.91	0.86±1.51	1.14±2.61
T 2200	0.93±0.52	1.56±1.40	0.76±1.40	1.40±2.45
T 2300	0.89±0.71	1.37±1.45	0.71±1.70	1.42±2.26
T 2400	1.03±0.76	1.55±1.65	1.18±2.28	1.53±2.91
T 2500	0.99±0.67	1.60±1.96	0.93±2.25	1.70±2.83
T 2600	0.89±0.65	1.32±1.20	0.87±1.93	1.66±2.78
T 2700	0.96±0.73	1.36±1.18	1.02±2.04	1.49±2.61
T 2800	0.79±0.76	1.36±1.39	0.75±1.91	1.26±2.78
T 2900	0.92±0.72	1.73±1.98	1.04±2.10	0.85±1.84
T 3000	1.04±0.69	1.24±1.22	1.21±2.13	1.92±2.81
T 3100	0.94±0.77	1.43±1.83	0.97±2.31	1.90±3.08
T 3200	0.87±0.83	1.36±1.45	0.58±1.43	1.17±2.83

TABLE S.67. Table of Vertical Choroidal Kurtosis of Healthy Cases.

Table of Vertical Choroidal Kurtosis of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	-0.50±2.04	1.44±10.03	3.49±23.44	4.67±14.39
I 3100	-0.23±3.34	0.88±5.86	3.30±23.30	5.14±14.63
I 3000	-0.53±2.21	2.21±10.63	6.23±27.47	4.32±15.48
I 2900	-0.54±2.31	2.66±8.89	3.18±18.01	7.70±25.11
I 2800	-0.10±3.95	2.02±10.18	6.41±32.87	12.38±39.11
I 2700	-0.34±2.35	2.23±9.91	5.94±26.33	4.29±23.18
I 2600	-0.42±2.51	0.45±3.54	4.72±28.22	5.11±20.93
I 2500	-0.58±3.20	1.12±6.79	1.21±6.53	3.08±12.80
I 2400	-0.69±2.88	1.94±7.11	4.74±19.17	2.27±11.67
I 2300	-0.39±2.37	4.41±13.80	3.63±15.92	6.33±31.14
I 2200	-0.59±2.09	0.55±3.28	1.99±9.48	1.75±12.96
I 2100	-0.51±2.31	1.86±10.76	2.81±10.95	5.08±20.64
I 2000	-0.57±3.65	1.64±4.99	2.93±14.74	1.77±8.51
I 1900	0.55±7.14	2.46±9.91	4.66±17.34	7.13±26.79
I 1800	-0.20±3.72	1.97±11.66	3.92±19.52	4.66±18.75
I 1700	-0.74±1.92	2.67±8.74	2.07±12.97	0.65±3.94
I 1600	-0.92±1.62	1.45±8.14	3.75±27.64	2.55±17.37
I 1500	-0.86±1.40	5.22±26.56	1.15±6.86	4.96±20.76
I 1400	-0.59±2.24	2.01±5.81	0.88±7.10	4.03±21.71
I 1300	-0.61±2.48	2.27±7.24	0.61±5.73	3.52±15.26
I 1200	-0.59±1.66	1.27±4.51	1.93±13.42	8.37±33.40
I 1100	-0.59±3.21	1.72±6.87	5.58±27.38	4.12±17.16
I 1000	-0.61±2.04	2.27±15.91	2.60±15.93	5.47±28.16
I 900	-0.58±1.91	0.85±5.62	0.97±9.56	2.54±10.74
I 800	-0.52±2.50	3.32±12.58	0.94±8.55	5.68±23.04
I 700	-0.75±2.07	2.21±10.60	0.45±4.40	5.15±26.58
I 600	-0.84±2.25	1.42±5.56	6.22±29.88	1.25±13.62
I 500	-0.62±2.71	4.11±24.50	4.83±25.63	4.87±24.90
I 400	-0.88±1.33	1.90±7.99	2.90±12.35	2.58±12.43
I 300	-0.64±2.19	1.51±7.67	4.51±22.31	2.88±11.49
I 200	-0.81±1.52	1.57±6.77	4.53±19.70	1.27±7.64
I 100	-0.89±1.19	1.12±7.72	7.01±31.40	1.49±9.99
V 0	-1.05±1.12	1.93±10.32	2.83±21.29	2.94±22.81
S 100	-1.24±0.90	1.93±10.32	-0.12±3.89	1.24±10.14
S 200	-0.93±1.98	1.05±5.46	1.98±11.66	1.94±13.56

Table of Vertical Choroidal Kurtosis of Healthy Cases

S 300	-0.71±1.56	2.30±9.95	1.16±6.18	2.81±18.27
S 400	-0.85±1.84	3.59±13.59	5.41±26.62	2.67±17.86
S 500	-0.58±2.19	2.11±7.09	1.91±15.11	1.72±7.76
S 600	-0.03±6.54	4.14±28.09	3.18±22.33	4.19±21.62
S 700	-0.77±1.31	3.93±22.74	3.59±20.84	0.92±5.87
S 800	-0.79±1.63	1.51±7.90	4.86±25.33	2.84±12.77
S 900	-1.00±1.51	4.67±22.67	0.50±6.78	1.26±7.08
S 1000	-0.70±1.41	1.58±8.67	2.88±22.63	3.78±12.65
S 1100	-0.74±1.52	4.32±19.05	1.02±7.45	6.20±30.51
S 1200	-0.57±3.65	3.06±11.12	4.65±27.83	4.57±28.01
S 1300	-0.61±3.18	1.30±5.78	1.59±13.69	2.24±12.37
S 1400	-0.56±2.00	2.07±9.55	5.00±16.37	2.39±10.18
S 1500	-0.20±3.72	5.47±20.65	4.77±24.94	3.04±12.43
S 1600	-0.21±3.66	2.53±10.73	2.27±9.64	2.55±11.67
S 1700	-0.86±1.31	5.52±17.54	5.81±28.12	1.87±14.30
S 1800	-0.73±1.83	3.11±18.63	2.84±19.57	3.27±19.35
S 1900	-0.12±3.97	3.96±18.44	3.63±22.29	4.74±23.37
S 2000	0.40±9.86	4.88±16.13	3.62±20.06	3.54±12.15
S 2100	-0.44±3.10	5.48±22.86	1.90±10.94	2.83±14.41
S 2200	-0.70±1.69	4.64±22.42	1.28±11.04	4.19±18.51
S 2300	-0.30±2.36	4.89±22.66	4.51±19.21	2.57±7.33
S 2400	-0.38±3.51	3.08±16.47	1.48±7.86	2.22±11.84
S 2500	-0.33±3.32	1.30±4.81	1.88±9.75	4.96±19.79
S 2600	-0.64±2.07	3.42±13.63	4.09±26.32	8.45±32.27
S 2700	-0.80±1.55	2.34±16.90	6.80±26.25	1.97±9.45
S 2800	0.80±10.67	3.03±11.78	1.35±10.84	8.18±33.41
S 2900	-0.68±1.36	1.79±8.24	3.91±21.32	3.90±11.82
S 3000	-0.27±2.74	1.23±6.03	4.79±21.44	2.99±12.37
S 3100	-0.19±3.70	2.17±7.98	6.82±25.70	7.54±28.26
S 3200	-0.90±1.37	2.70±8.83	2.09±12.93	5.92±26.92

TABLE S.68. Table of Horizontal Choroidal Kurtosis of Healthy Cases.

Table of Horizontal Choroidal Kurtosis of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	-0.23±2.77	4.44±16.35	2.96±17.60	6.60±18.92
N 3100	0.64±6.44	2.32±10.22	1.88±9.21	9.61±26.10
N 3000	-0.32±2.63	3.91±18.25	2.48±15.97	10.03±28.24
N 2900	0.04±3.95	1.90±10.88	2.75±12.04	6.29±22.70
N 2800	-0.23±2.99	3.99±15.50	1.89±11.69	4.86±14.50
N 2700	-0.16±4.07	3.46±11.07	1.37±12.24	11.24±28.88
N 2600	0.27±4.89	3.52±15.06	2.93±15.94	6.98±25.63
N 2500	-0.30±2.93	2.58±11.29	2.70±16.69	6.28±17.66
N 2400	1.85±22.63	3.16±12.31	1.64±8.57	11.91±32.46
N 2300	1.17±11.12	3.09±14.06	2.99±17.10	9.28±28.00
N 2200	-0.18±2.80	6.40±21.51	3.68±22.70	4.96±17.57
N 2100	-0.12±2.39	1.75±5.27	4.60±20.25	9.83±29.38
N 2000	0.06±3.85	1.45±6.98	2.13±15.21	5.24±22.35
N 1900	-0.20±5.11	3.68±20.05	0.97±11.17	5.15±21.64
N 1800	0.16±5.60	3.31±15.73	4.42±23.11	3.89±11.79
N 1700	-0.20±4.10	4.14±16.53	3.09±15.76	3.63±14.38
N 1600	-0.85±1.38	1.92±9.21	2.95±22.00	6.06±26.07
N 1500	-0.36±2.85	4.30±17.78	3.61±11.74	3.12±16.07
N 1400	0.65±9.53	1.62±7.53	6.51±24.99	3.01±10.15
N 1300	-0.30±2.21	2.75±15.88	2.20±9.50	6.01±17.89
N 1200	-0.55±2.01	5.38±22.15	1.93±11.45	1.08±5.39
N 1100	-0.39±2.73	3.85±17.79	3.46±23.71	5.55±24.79
N 1000	-0.67±1.69	6.44±25.51	1.21±8.37	3.05±19.46
N 900	-0.25±3.38	1.71±5.45	0.76±7.01	2.69±12.39
N 800	0.47±6.07	3.51±13.34	4.77±21.96	7.39±26.70
N 700	-0.02±4.88	1.91±7.59	2.11±11.68	3.12±13.04
N 600	-0.80±1.71	4.22±19.74	1.10±8.50	1.76±8.92
N 500	-0.66±1.62	3.25±18.00	5.43±22.61	0.38±4.02
N 400	-0.80±1.37	0.99±6.51	3.90±19.69	1.30±7.13
N 300	-1.00±1.18	0.30±3.57	3.09±18.79	2.64±11.69
N 200	-1.11±1.08	0.11±2.81	0.11±5.86	1.53±8.10
N 100	-0.83±3.40	1.27±5.21	4.83±26.35	-0.29±3.15
H 0	-0.94±1.13	2.92±17.07	1.23±9.79	1.53±8.16
T 100	-0.85±1.45	2.92±17.07	-0.13±4.18	1.80±9.15
T 200	-0.95±0.98	4.03±18.22	-0.36±3.28	3.52±22.75

Table of Horizontal Choroidal Kurtosis of Healthy Cases

T 300	-1.04±1.19	2.01±14.08	0.33±5.14	3.15±17.22
T 400	-0.54±2.48	2.54±15.22	1.40±7.10	2.94±14.01
T 500	-0.98±1.02	1.58±6.18	1.30±9.40	2.93±18.26
T 600	-1.06±1.04	1.99±6.35	2.12±15.97	2.05±8.12
T 700	-0.77±1.81	2.98±12.47	0.17±5.07	4.59±25.03
T 800	-0.65±1.23	2.67±12.13	2.27±17.97	5.93±25.70
T 900	-0.69±1.43	3.22±10.89	3.63±18.01	5.61±25.43
T 1000	-0.44±1.68	3.61±11.16	5.81±19.86	9.54±35.67
T 1100	-0.79±1.44	3.07±14.64	-0.14±3.52	3.66±23.57
T 1200	-0.75±3.16	3.21±14.18	0.01±5.54	2.96±12.94
T 1300	-0.77±1.47	4.40±13.27	1.93±11.99	5.89±25.90
T 1400	-0.11±3.75	3.38±10.36	3.79±18.98	3.94±13.96
T 1500	-0.66±1.60	2.10±7.00	0.59±6.47	4.28±19.40
T 1600	-0.67±2.21	2.26±8.47	3.34±22.84	3.19±13.22
T 1700	-0.50±2.68	1.72±5.12	2.36±20.32	12.39±33.94
T 1800	-1.04±1.02	0.66±4.73	0.60±9.58	5.58±17.22
T 1900	-0.75±2.05	4.75±13.96	-0.16±5.18	6.89±24.37
T 2000	-0.62±1.70	4.02±11.53	1.54±8.41	7.15±21.57
T 2100	-0.83±1.38	4.32±17.34	1.02±7.65	6.26±27.89
T 2200	-0.87±1.19	2.39±8.47	0.58±8.61	6.00±18.45
T 2300	-0.72±2.16	1.96±10.20	1.42±9.82	5.22±19.88
T 2400	-0.37±2.44	3.14±13.75	4.59±20.67	8.82±31.34
T 2500	-0.58±2.03	4.35±17.93	4.06±24.44	8.94±30.77
T 2600	-0.78±1.79	1.18±5.88	2.51±19.89	8.52±24.82
T 2700	-0.56±2.06	1.27±6.14	3.19±16.35	7.09±26.54
T 2800	-0.80±2.45	1.75±8.19	2.28±13.00	7.35±23.90
T 2900	-0.65±2.11	4.88±16.36	3.55±23.19	2.18±9.28
T 3000	-0.46±2.32	1.08±6.10	4.01±20.02	9.62±27.77
T 3100	-0.53±2.15	3.40±17.18	4.25±22.28	11.22±29.13
T 3200	-0.55±4.90	2.02±9.87	0.38±6.77	7.55±25.38

TABLE S.69. Table of Vertical Choroidal Perimeter of Healthy Cases.

Table of Vertical Choroidal Perimeter of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	137.8±36.9	57.6±12.3	57.9±12.3	54.7±12.5
I 3100	139.7±36.8	57.9±12.2	58.7±12.3	55.5±12.3
I 3000	141.2±36.7	58.6±12.1	59.0±12.2	56.3±12.4
I 2900	142.4±36.4	58.9±12.0	59.5±12.1	56.3±12.2
I 2800	143.4±35.9	59.2±11.9	59.8±11.9	56.8±11.9
I 2700	144.1±35.7	59.6±11.7	60.1±11.8	57.1±11.8
I 2600	144.9±35.3	59.6±11.7	60.4±11.7	57.1±11.9
I 2500	145.5±35.0	59.8±11.8	60.4±11.8	57.5±11.5
I 2400	146.2±35.0	60.2±11.8	60.6±11.8	57.8±11.6
I 2300	146.9±35.5	60.6±12.0	61.0±11.8	57.9±11.9
I 2200	148.1±36.0	61.0±12.1	61.3±12.0	58.5±11.9
I 2100	149.3±36.3	61.4±12.2	61.7±12.1	58.7±12.0
I 2000	150.3±36.5	61.4±12.3	62.0±12.2	59.0±12.1
I 1900	150.7±37.0	61.6±12.3	62.0±12.2	59.5±12.2
I 1800	151.4±37.0	62.0±12.3	62.3±12.3	59.6±12.2
I 1700	152.2±37.2	62.0±12.6	62.6±12.3	59.7±12.4
I 1600	152.6±37.5	62.4±12.5	62.6±12.5	60.1±12.3
I 1500	153.3±37.7	62.7±12.7	63.0±12.5	60.0±12.5
I 1400	154.5±37.9	63.2±12.8	63.3±12.7	60.5±12.5
I 1300	155.3±38.3	63.3±12.6	63.6±12.8	60.8±12.5
I 1200	155.9±38.0	63.5±12.6	63.8±12.6	61.0±12.6
I 1100	156.3±37.7	63.5±12.4	63.8±12.6	61.0±12.5
I 1000	156.5±37.5	64.0±12.3	63.9±12.4	61.3±12.6
I 900	157.5±37.0	64.2±12.3	64.3±12.3	61.4±12.2
I 800	158.8±36.7	64.5±12.3	64.6±12.3	61.9±12.2
I 700	159.9±36.4	64.9±11.9	64.8±12.2	62.5±12.0
I 600	160.9±36.0	65.5±11.7	65.2±11.9	62.9±12.2
I 500	162.2±35.4	66.1±11.5	65.7±11.7	63.0±12.0
I 400	164.0±34.6	66.7±11.4	66.3±11.5	63.6±11.6
I 300	166.0±34.5	67.3±11.5	66.9±11.4	64.3±11.6
I 200	167.8±34.8	67.7±11.7	67.5±11.5	65.1±11.8
I 100	169.4±35.1	67.9±11.6	67.9±11.6	65.6±11.8
V 0	170.1±35.0	67.8±11.8	68.1±11.6	66.0±11.9
S 100	169.9±34.9	67.8±11.8	68.1±11.7	65.9±11.4
S 200	169.3±34.7	67.8±11.6	68.0±11.6	65.5±11.6

Table of Vertical Choroidal Perimeter of Healthy Cases (Pixel)

S 300	167.9±34.4	67.4±11.4	67.6±11.4	65.1±11.2
S 400	167.0±32.9	67.0±10.9	67.3±10.9	64.8±11.0
S 500	166.3±31.8	66.9±10.5	67.0±10.5	64.5±10.6
S 600	165.9±31.2	66.7±10.4	66.9±10.4	64.3±10.3
S 700	165.5±31.0	66.5±10.3	66.7±10.3	64.2±10.5
S 800	165.0±31.0	66.3±10.3	66.6±10.3	64.1±10.4
S 900	164.8±30.7	66.2±10.4	66.5±10.3	64.0±10.2
S 1000	164.2±30.6	66.0±10.3	66.2±10.2	63.9±10.1
S 1100	163.8±29.9	65.8±10.1	66.2±10.0	63.7±9.8
S 1200	163.7±29.3	65.8±9.7	66.1±9.6	63.8±9.8
S 1300	163.6±28.8	65.8±9.6	66.1±9.6	63.7±9.7
S 1400	162.6±28.9	65.5±9.7	65.9±9.6	63.3±9.6
S 1500	161.8±29.2	65.2±9.7	65.5±9.7	63.1±9.7
S 1600	161.6±29.2	65.2±9.8	65.6±9.7	62.9±9.6
S 1700	161.5±29.0	65.0±9.8	65.5±9.7	62.9±9.4
S 1800	161.3±28.8	64.9±9.6	65.4±9.6	62.9±9.7
S 1900	161.1±29.0	64.9±9.6	65.4±9.6	62.8±9.8
S 2000	161.1±28.9	64.8±9.7	65.3±9.7	62.8±9.8
S 2100	161.0±29.1	64.8±9.8	65.4±9.8	62.7±9.7
S 2200	160.7±29.5	64.8±9.9	65.3±10.0	62.6±9.7
S 2300	160.1±30.1	64.5±9.9	65.2±10.0	62.4±10.2
S 2400	160.1±30.4	64.5±10.0	65.0±10.2	62.4±10.2
S 2500	159.9±30.7	64.6±10.2	65.2±10.2	62.0±10.3
S 2600	159.4±31.2	64.2±10.3	65.0±10.4	62.2±10.7
S 2700	158.8±31.8	64.0±10.6	64.8±10.7	62.0±10.7
S 2800	157.9±32.3	63.7±10.7	64.5±10.7	61.6±11.0
S 2900	157.0±33.1	63.5±10.9	64.3±11.0	61.2±11.3
S 3000	156.2±34.2	63.2±11.3	64.0±11.4	60.9±11.6
S 3100	154.6±35.1	62.7±11.6	63.5±11.7	60.4±11.9
S 3200	151.5±35.8	61.9±12.0	62.5±12.1	59.0±12.0

TABLE S.70. Table of Horizontal Choroidal Perimeter of Healthy Cases.

Table of Horizontal Choroidal Perimeter of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	97.4±27.5	45.2±9.7	44.5±9.3	40.9±9.1
N 3100	101.7±28.7	46.5±10.0	45.9±9.8	42.7±9.3
N 3000	105.4±29.9	48.0±10.3	47.1±10.1	43.9±9.7
N 2900	109.4±30.7	49.3±10.6	48.6±10.4	45.0±10.1
N 2800	113.0±31.8	50.5±10.7	50.0±10.5	46.3±10.4
N 2700	116.8±31.9	51.3±11.0	51.0±10.7	47.5±10.6
N 2600	120.1±32.7	52.2±10.9	52.0±10.9	49.0±10.6
N 2500	122.7±32.8	53.1±10.9	52.8±10.9	49.8±10.9
N 2400	125.1±32.9	53.9±11.1	53.7±11.0	50.5±11.0
N 2300	128.1±32.9	54.8±10.9	54.4±11.1	51.6±10.8
N 2200	130.5±32.9	55.7±11.0	55.6±10.8	52.2±11.1
N 2100	132.8±32.6	56.3±11.2	56.2±11.0	53.0±10.7
N 2000	135.0±32.8	57.0±11.3	56.9±11.1	54.0±10.5
N 1900	137.0±33.4	57.7±11.4	57.5±11.3	54.5±10.9
N 1800	139.0±34.3	58.5±11.5	58.3±11.4	55.2±11.4
N 1700	141.3±34.5	59.1±11.8	59.0±11.5	55.9±11.5
N 1600	143.1±35.0	59.8±12.0	59.6±11.8	56.4±11.4
N 1500	144.3±36.0	60.3±12.1	60.2±12.0	57.1±11.7
N 1400	146.6±36.6	61.0±12.4	60.8±12.1	57.8±12.2
N 1300	148.9±36.9	61.7±12.5	61.4±12.3	58.6±12.3
N 1200	150.6±37.4	62.3±12.4	62.1±12.5	59.1±12.2
N 1100	152.4±37.4	63.1±12.3	62.7±12.4	59.6±12.5
N 1000	154.6±37.5	63.9±12.4	63.4±12.3	60.3±12.7
N 900	157.1±37.3	64.5±12.5	64.1±12.4	61.2±12.3
N 800	159.3±37.0	65.0±12.4	64.7±12.4	62.0±12.3
N 700	160.8±37.1	65.3±12.4	65.3±12.4	62.4±12.3
N 600	161.7±37.6	65.8±12.5	65.6±12.4	63.0±12.4
N 500	163.1±37.6	66.2±12.7	66.0±12.5	63.3±12.6
N 400	164.4±37.9	66.7±12.9	66.4±12.7	63.9±12.5
N 300	165.8±38.4	67.3±13.0	66.9±12.9	64.3±12.6
N 200	167.4±38.8	67.6±13.2	67.4±13.0	64.7±12.8
N 100	168.7±39.2	67.9±13.0	67.8±13.2	65.4±12.7
H 0	169.8±39.0	68.0±12.9	68.1±13.0	65.8±13.0
T 100	170.0±38.9	68.0±12.9	68.2±12.8	65.8±13.0
T 200	169.8±38.7	68.0±12.9	68.2±12.8	65.6±12.9

Table of Horizontal Choroidal Perimeter of Healthy Cases (Pixel)

T 300	168.8±38.8	67.7±13.0	67.9±12.9	65.4±12.7
T 400	167.7±38.4	67.3±12.8	67.5±12.8	65.0±12.7
T 500	166.3±38.2	66.8±12.6	67.0±12.6	64.4±12.9
T 600	164.6±38.3	66.3±12.8	66.6±12.7	63.8±12.7
T 700	163.0±38.6	65.7±13.0	66.0±12.9	63.3±12.8
T 800	161.1±38.9	65.2±13.0	65.4±12.9	62.6±13.0
T 900	159.1±38.7	64.4±13.0	64.8±12.9	61.9±12.8
T 1000	157.4±38.4	63.9±12.7	64.4±12.7	61.3±13.0
T 1100	156.3±38.5	63.5±12.8	63.9±12.7	61.1±12.9
T 1200	155.6±38.7	63.1±12.8	63.6±12.8	60.9±13.1
T 1300	154.5±39.3	62.9±13.0	63.4±13.0	60.6±13.0
T 1400	153.9±39.4	62.6±13.1	63.2±13.1	60.3±13.1
T 1500	153.2±39.6	62.3±13.2	62.9±13.2	60.2±13.2
T 1600	152.6±39.8	62.0±13.3	62.6±13.3	59.9±13.3
T 1700	151.6±40.2	61.7±13.4	62.4±13.3	59.7±13.3
T 1800	151.1±40.0	61.5±13.4	62.2±13.3	59.4±13.2
T 1900	150.3±39.6	61.3±13.3	62.0±13.2	59.2±13.0
T 2000	149.5±39.1	61.0±13.1	61.7±13.1	59.0±12.8
T 2100	148.8±38.8	60.7±12.9	61.4±12.9	58.7±12.9
T 2200	148.0±38.5	60.4±12.7	61.1±12.7	58.3±13.0
T 2300	147.2±38.1	60.1±12.8	60.9±12.8	58.3±12.6
T 2400	146.1±37.9	59.9±12.5	60.7±12.5	57.7±12.7
T 2500	144.6±37.3	59.4±12.5	60.2±12.5	57.1±12.3
T 2600	142.8±36.8	58.7±12.3	59.5±12.3	56.4±12.2
T 2700	140.9±36.7	58.1±12.1	59.0±12.2	55.8±12.3
T 2800	139.5±36.5	57.5±12.1	58.3±12.2	55.6±12.3
T 2900	137.8±36.3	57.1±12.1	57.9±12.1	54.8±12.2
T 3000	136.3±36.3	56.6±11.8	57.5±11.9	54.3±12.4
T 3100	134.8±36.5	56.1±12.0	56.9±12.1	53.8±12.2
T 3200	132.1±36.8	55.5±12.2	56.0±12.2	52.4±12.3

TABLE S.71. Table of Vertical Choroidal Height of Healthy Cases.

Table of Vertical Choroidal Height of Healthy Cases (μm)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	246.2 $\pm$ 72.1	83.8 $\pm$ 24.1	82.1 $\pm$ 24.1	80.6 $\pm$ 24.0
I 3100	251.1 $\pm$ 72.3	84.2 $\pm$ 23.9	83.8 $\pm$ 24.1	82.3 $\pm$ 24.3
I 3000	253.8 $\pm$ 71.7	85.3 $\pm$ 23.6	84.2 $\pm$ 23.9	83.4 $\pm$ 23.9
I 2900	255.8 $\pm$ 70.6	86.0 $\pm$ 23.3	85.3 $\pm$ 23.6	84.0 $\pm$ 23.5
I 2800	257.8 $\pm$ 69.7	86.4 $\pm$ 23.2	86.0 $\pm$ 23.3	84.7 $\pm$ 23.2
I 2700	259.7 $\pm$ 69.4	87.1 $\pm$ 23.0	86.4 $\pm$ 23.2	85.4 $\pm$ 23.2
I 2600	260.6 $\pm$ 68.9	87.1 $\pm$ 23.1	87.1 $\pm$ 23.0	85.5 $\pm$ 22.9
I 2500	261.2 $\pm$ 68.7	87.4 $\pm$ 23.0	87.1 $\pm$ 23.1	85.8 $\pm$ 22.9
I 2400	262.0 $\pm$ 68.9	88.2 $\pm$ 23.1	87.4 $\pm$ 23.0	86.0 $\pm$ 22.9
I 2300	264.2 $\pm$ 69.6	88.7 $\pm$ 23.4	88.2 $\pm$ 23.1	86.5 $\pm$ 23.4
I 2200	266.5 $\pm$ 70.6	89.6 $\pm$ 23.8	88.7 $\pm$ 23.4	87.6 $\pm$ 23.5
I 2100	268.6 $\pm$ 71.3	90.2 $\pm$ 23.9	89.6 $\pm$ 23.8	88.3 $\pm$ 23.8
I 2000	270.4 $\pm$ 71.5	90.3 $\pm$ 24.0	90.2 $\pm$ 23.9	88.7 $\pm$ 24.0
I 1900	271.1 $\pm$ 71.7	90.7 $\pm$ 24.2	90.3 $\pm$ 24.0	89.1 $\pm$ 23.9
I 1800	272.2 $\pm$ 72.3	91.4 $\pm$ 24.2	90.7 $\pm$ 24.2	89.4 $\pm$ 23.9
I 1700	274.1 $\pm$ 72.3	91.4 $\pm$ 24.6	91.4 $\pm$ 24.2	89.8 $\pm$ 24.1
I 1600	274.4 $\pm$ 73.1	92.1 $\pm$ 24.6	91.4 $\pm$ 24.6	90.0 $\pm$ 24.1
I 1500	275.7 $\pm$ 73.5	92.7 $\pm$ 24.9	92.1 $\pm$ 24.6	90.5 $\pm$ 24.4
I 1400	277.8 $\pm$ 74.2	93.4 $\pm$ 25.1	92.7 $\pm$ 24.9	91.2 $\pm$ 24.7
I 1300	279.3 $\pm$ 75.1	93.8 $\pm$ 24.7	93.4 $\pm$ 25.1	91.7 $\pm$ 25.0
I 1200	280.5 $\pm$ 74.4	93.8 $\pm$ 24.7	93.8 $\pm$ 24.7	92.1 $\pm$ 25.0
I 1100	280.9 $\pm$ 73.7	93.9 $\pm$ 24.2	93.8 $\pm$ 24.7	92.2 $\pm$ 24.5
I 1000	281.7 $\pm$ 73.1	94.7 $\pm$ 24.1	93.9 $\pm$ 24.2	92.6 $\pm$ 24.5
I 900	283.6 $\pm$ 72.2	95.2 $\pm$ 24.1	94.7 $\pm$ 24.1	93.1 $\pm$ 23.9
I 800	285.8 $\pm$ 71.9	95.6 $\pm$ 23.9	95.2 $\pm$ 24.1	94.0 $\pm$ 23.9
I 700	287.3 $\pm$ 71.1	96.5 $\pm$ 23.3	95.6 $\pm$ 23.9	94.7 $\pm$ 23.6
I 600	289.8 $\pm$ 69.9	97.5 $\pm$ 22.9	96.5 $\pm$ 23.3	95.6 $\pm$ 23.4
I 500	292.5 $\pm$ 68.7	98.5 $\pm$ 22.5	97.5 $\pm$ 22.9	96.2 $\pm$ 23.0
I 400	295.3 $\pm$ 67.4	99.8 $\pm$ 22.4	98.5 $\pm$ 22.5	97.2 $\pm$ 22.5
I 300	299.8 $\pm$ 67.4	101.0 $\pm$ 22.5	99.8 $\pm$ 22.4	98.8 $\pm$ 22.6
I 200	303.5 $\pm$ 67.8	101.8 $\pm$ 22.8	101.0 $\pm$ 22.5	99.9 $\pm$ 22.6
I 100	305.6 $\pm$ 68.6	102.1 $\pm$ 22.7	101.8 $\pm$ 22.8	100.5 $\pm$ 22.8
V 0	306.6 $\pm$ 68.7	102.1 $\pm$ 22.9	102.1 $\pm$ 22.7	100.9 $\pm$ 23.0
S 100	306.3 $\pm$ 68.2	102.1 $\pm$ 22.9	102.1 $\pm$ 22.9	100.8 $\pm$ 22.6
S 200	305.6 $\pm$ 67.8	101.9 $\pm$ 22.7	101.9 $\pm$ 22.7	100.6 $\pm$ 22.5

Table of Vertical Choroidal Height of Healthy Cases (μm)

S 300	303.7 $\pm$ 66.5	101.3 $\pm$ 22.3	101.3 $\pm$ 22.3	99.9 $\pm$ 22.1
S 400	301.8 $\pm$ 64.1	100.5 $\pm$ 21.3	100.5 $\pm$ 21.3	99.3 $\pm$ 21.3
S 500	300.4 $\pm$ 61.9	100.1 $\pm$ 20.6	100.1 $\pm$ 20.6	99.0 $\pm$ 20.6
S 600	299.6 $\pm$ 60.9	99.9 $\pm$ 20.4	99.9 $\pm$ 20.4	98.6 $\pm$ 20.2
S 700	298.4 $\pm$ 60.6	99.4 $\pm$ 20.1	99.4 $\pm$ 20.1	98.0 $\pm$ 20.2
S 800	297.7 $\pm$ 60.6	99.3 $\pm$ 20.2	99.3 $\pm$ 20.2	97.8 $\pm$ 20.1
S 900	296.9 $\pm$ 60.7	99.0 $\pm$ 20.3	99.0 $\pm$ 20.3	97.8 $\pm$ 20.3
S 1000	295.8 $\pm$ 59.7	98.5 $\pm$ 20.1	98.5 $\pm$ 20.1	97.1 $\pm$ 19.8
S 1100	295.2 $\pm$ 58.4	98.4 $\pm$ 19.6	98.4 $\pm$ 19.6	97.2 $\pm$ 19.5
S 1200	295.3 $\pm$ 56.9	98.3 $\pm$ 18.9	98.3 $\pm$ 18.9	97.1 $\pm$ 18.9
S 1300	295.0 $\pm$ 56.4	98.3 $\pm$ 18.8	98.3 $\pm$ 18.8	97.1 $\pm$ 18.9
S 1400	293.5 $\pm$ 56.5	97.8 $\pm$ 18.9	97.8 $\pm$ 18.9	96.5 $\pm$ 19.0
S 1500	291.9 $\pm$ 57.0	97.1 $\pm$ 19.0	97.1 $\pm$ 19.0	96.1 $\pm$ 19.0
S 1600	291.9 $\pm$ 57.0	97.3 $\pm$ 19.1	97.3 $\pm$ 19.1	96.0 $\pm$ 19.0
S 1700	291.3 $\pm$ 56.7	97.1 $\pm$ 19.0	97.1 $\pm$ 19.0	95.8 $\pm$ 19.0
S 1800	290.8 $\pm$ 56.6	96.8 $\pm$ 18.8	96.8 $\pm$ 18.8	95.7 $\pm$ 19.0
S 1900	290.3 $\pm$ 56.3	96.9 $\pm$ 18.8	96.9 $\pm$ 18.8	95.2 $\pm$ 18.9
S 2000	290.1 $\pm$ 56.8	96.7 $\pm$ 19.0	96.7 $\pm$ 19.0	95.4 $\pm$ 19.2
S 2100	290.4 $\pm$ 57.2	96.9 $\pm$ 19.1	96.9 $\pm$ 19.1	95.4 $\pm$ 19.1
S 2200	290.0 $\pm$ 58.1	96.7 $\pm$ 19.6	96.7 $\pm$ 19.6	95.5 $\pm$ 19.2
S 2300	289.1 $\pm$ 58.6	96.4 $\pm$ 19.5	96.4 $\pm$ 19.5	95.1 $\pm$ 19.6
S 2400	288.7 $\pm$ 59.5	96.1 $\pm$ 19.9	96.1 $\pm$ 19.9	94.9 $\pm$ 19.7
S 2500	288.9 $\pm$ 60.1	96.5 $\pm$ 20.0	96.5 $\pm$ 20.0	94.7 $\pm$ 20.1
S 2600	288.1 $\pm$ 61.2	96.0 $\pm$ 20.3	96.0 $\pm$ 20.3	94.7 $\pm$ 20.6
S 2700	287.0 $\pm$ 62.4	95.6 $\pm$ 20.9	95.6 $\pm$ 20.9	94.4 $\pm$ 20.9
S 2800	285.4 $\pm$ 63.0	95.1 $\pm$ 21.0	95.1 $\pm$ 21.0	93.8 $\pm$ 21.0
S 2900	283.8 $\pm$ 64.6	94.7 $\pm$ 21.6	94.7 $\pm$ 21.6	93.2 $\pm$ 21.7
S 3000	282.4 $\pm$ 66.9	94.2 $\pm$ 22.4	94.2 $\pm$ 22.4	92.8 $\pm$ 22.1
S 3100	279.7 $\pm$ 68.8	93.2 $\pm$ 22.9	93.2 $\pm$ 22.9	92.0 $\pm$ 23.0
S 3200	274.1 $\pm$ 70.3	91.3 $\pm$ 23.6	91.3 $\pm$ 23.6	90.0 $\pm$ 23.3

TABLE S.72. Table of Horizontal Choroidal Height of Healthy Cases.

Table of Horizontal Choroidal Height of Healthy Cases (μm)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	167.1 $\pm$ 54.7	58.6 $\pm$ 19.2	55.8 $\pm$ 18.2	54.2 $\pm$ 18.4
N 3100	176.0 $\pm$ 57.2	61.0 $\pm$ 19.8	58.6 $\pm$ 19.2	57.5 $\pm$ 19.1
N 3000	183.3 $\pm$ 59.4	63.9 $\pm$ 20.3	61.0 $\pm$ 19.8	59.9 $\pm$ 20.0
N 2900	191.4 $\pm$ 60.9	66.6 $\pm$ 20.7	63.9 $\pm$ 20.3	62.6 $\pm$ 20.3
N 2800	199.1 $\pm$ 61.9	68.7 $\pm$ 20.9	66.6 $\pm$ 20.7	64.9 $\pm$ 20.5
N 2700	205.5 $\pm$ 63.0	70.6 $\pm$ 21.5	68.7 $\pm$ 20.9	67.0 $\pm$ 21.1
N 2600	212.0 $\pm$ 64.0	72.1 $\pm$ 21.4	70.6 $\pm$ 21.5	69.3 $\pm$ 21.3
N 2500	216.5 $\pm$ 64.6	74.0 $\pm$ 21.5	72.1 $\pm$ 21.4	70.7 $\pm$ 21.6
N 2400	221.4 $\pm$ 64.8	75.4 $\pm$ 21.7	74.0 $\pm$ 21.5	72.5 $\pm$ 21.7
N 2300	226.5 $\pm$ 64.6	77.6 $\pm$ 21.2	75.4 $\pm$ 21.7	74.3 $\pm$ 21.5
N 2200	232.4 $\pm$ 64.5	78.8 $\pm$ 21.5	77.6 $\pm$ 21.2	76.0 $\pm$ 21.8
N 2100	236.2 $\pm$ 64.4	80.1 $\pm$ 21.7	78.8 $\pm$ 21.5	77.4 $\pm$ 21.5
N 2000	240.6 $\pm$ 64.5	81.4 $\pm$ 22.1	80.1 $\pm$ 21.7	79.0 $\pm$ 21.3
N 1900	244.2 $\pm$ 66.3	82.9 $\pm$ 22.3	81.4 $\pm$ 22.1	80.2 $\pm$ 22.0
N 1800	249.0 $\pm$ 67.1	84.2 $\pm$ 22.6	82.9 $\pm$ 22.3	81.8 $\pm$ 22.3
N 1700	252.5 $\pm$ 67.8	85.5 $\pm$ 23.2	84.2 $\pm$ 22.6	82.9 $\pm$ 22.6
N 1600	256.2 $\pm$ 68.7	86.6 $\pm$ 23.4	85.5 $\pm$ 23.2	84.0 $\pm$ 22.9
N 1500	259.5 $\pm$ 70.0	87.8 $\pm$ 23.6	86.6 $\pm$ 23.4	85.1 $\pm$ 23.3
N 1400	263.3 $\pm$ 71.3	89.0 $\pm$ 24.1	87.8 $\pm$ 23.6	86.4 $\pm$ 23.8
N 1300	267.3 $\pm$ 72.3	90.4 $\pm$ 24.5	89.0 $\pm$ 24.1	87.9 $\pm$ 24.2
N 1200	271.1 $\pm$ 73.3	91.5 $\pm$ 24.3	90.4 $\pm$ 24.5	89.2 $\pm$ 24.4
N 1100	274.3 $\pm$ 73.2	92.9 $\pm$ 24.1	91.5 $\pm$ 24.3	90.1 $\pm$ 24.3
N 1000	278.2 $\pm$ 73.1	94.4 $\pm$ 24.3	92.9 $\pm$ 24.1	91.4 $\pm$ 24.4
N 900	282.9 $\pm$ 72.7	95.6 $\pm$ 24.4	94.4 $\pm$ 24.3	93.0 $\pm$ 24.2
N 800	286.8 $\pm$ 73.1	96.7 $\pm$ 24.3	95.6 $\pm$ 24.4	94.3 $\pm$ 24.4
N 700	289.7 $\pm$ 73.1	97.3 $\pm$ 24.3	96.7 $\pm$ 24.3	95.0 $\pm$ 24.3
N 600	292.0 $\pm$ 73.0	98.1 $\pm$ 24.4	97.3 $\pm$ 24.3	96.1 $\pm$ 24.3
N 500	294.0 $\pm$ 73.5	98.8 $\pm$ 24.9	98.1 $\pm$ 24.4	96.7 $\pm$ 24.7
N 400	296.7 $\pm$ 74.2	99.8 $\pm$ 25.3	98.8 $\pm$ 24.9	97.5 $\pm$ 24.6
N 300	299.6 $\pm$ 75.2	100.8 $\pm$ 25.6	99.8 $\pm$ 25.3	98.5 $\pm$ 25.1
N 200	302.0 $\pm$ 76.6	101.6 $\pm$ 25.8	100.8 $\pm$ 25.6	99.2 $\pm$ 25.5
N 100	305.0 $\pm$ 77.0	102.1 $\pm$ 25.5	101.6 $\pm$ 25.8	100.4 $\pm$ 25.7
H 0	306.2 $\pm$ 76.7	102.4 $\pm$ 25.2	102.1 $\pm$ 25.5	100.9 $\pm$ 25.6
T 100	307.1 $\pm$ 76.4	102.4 $\pm$ 25.2	102.4 $\pm$ 25.2	101.1 $\pm$ 25.6
T 200	306.6 $\pm$ 75.6	102.3 $\pm$ 25.1	102.3 $\pm$ 25.1	100.7 $\pm$ 25.1

Table of Horizontal Choroidal Height of Healthy Cases (μm)

T 300	305.0 $\pm$ 75.4	101.7 $\pm$ 25.3	101.7 $\pm$ 25.3	100.3 $\pm$ 24.9
T 400	302.8 $\pm$ 75.0	100.9 $\pm$ 25.1	100.9 $\pm$ 25.1	99.6 $\pm$ 24.9
T 500	300.5 $\pm$ 74.4	100.1 $\pm$ 24.6	100.1 $\pm$ 24.6	99.0 $\pm$ 24.9
T 600	297.4 $\pm$ 74.5	99.1 $\pm$ 25.0	99.1 $\pm$ 25.0	97.8 $\pm$ 24.8
T 700	294.1 $\pm$ 75.4	98.0 $\pm$ 25.3	98.0 $\pm$ 25.3	96.8 $\pm$ 25.3
T 800	290.5 $\pm$ 76.2	96.9 $\pm$ 25.3	96.9 $\pm$ 25.3	95.5 $\pm$ 25.5
T 900	287.1 $\pm$ 75.4	95.7 $\pm$ 25.3	95.7 $\pm$ 25.3	94.5 $\pm$ 25.1
T 1000	284.2 $\pm$ 74.7	94.8 $\pm$ 24.9	94.8 $\pm$ 24.9	93.3 $\pm$ 25.0
T 1100	281.4 $\pm$ 74.9	93.8 $\pm$ 25.0	93.8 $\pm$ 25.0	92.4 $\pm$ 24.9
T 1200	279.6 $\pm$ 75.7	93.3 $\pm$ 25.2	93.3 $\pm$ 25.2	91.8 $\pm$ 25.3
T 1300	278.5 $\pm$ 75.7	92.9 $\pm$ 25.4	92.9 $\pm$ 25.4	91.6 $\pm$ 25.0
T 1400	277.1 $\pm$ 76.6	92.5 $\pm$ 25.6	92.5 $\pm$ 25.6	90.9 $\pm$ 25.4
T 1500	275.8 $\pm$ 77.0	91.9 $\pm$ 25.8	91.9 $\pm$ 25.8	90.7 $\pm$ 25.5
T 1600	274.2 $\pm$ 78.0	91.4 $\pm$ 26.0	91.4 $\pm$ 26.0	90.2 $\pm$ 26.1
T 1700	272.9 $\pm$ 78.0	90.9 $\pm$ 26.1	90.9 $\pm$ 26.1	89.6 $\pm$ 26.0
T 1800	271.9 $\pm$ 78.0	90.6 $\pm$ 26.1	90.6 $\pm$ 26.1	89.3 $\pm$ 26.1
T 1900	270.4 $\pm$ 77.7	90.2 $\pm$ 25.9	90.2 $\pm$ 25.9	88.9 $\pm$ 26.0
T 2000	268.8 $\pm$ 76.4	89.5 $\pm$ 25.6	89.5 $\pm$ 25.6	88.2 $\pm$ 25.5
T 2100	267.5 $\pm$ 75.5	89.1 $\pm$ 25.4	89.1 $\pm$ 25.4	87.8 $\pm$ 25.0
T 2200	265.8 $\pm$ 74.8	88.5 $\pm$ 24.8	88.5 $\pm$ 24.8	87.2 $\pm$ 25.1
T 2300	264.8 $\pm$ 74.4	88.0 $\pm$ 25.1	88.0 $\pm$ 25.1	87.0 $\pm$ 24.7
T 2400	262.9 $\pm$ 73.8	87.6 $\pm$ 24.6	87.6 $\pm$ 24.6	86.4 $\pm$ 24.5
T 2500	259.9 $\pm$ 73.1	86.6 $\pm$ 24.4	86.6 $\pm$ 24.4	85.3 $\pm$ 24.4
T 2600	255.6 $\pm$ 72.2	85.3 $\pm$ 24.2	85.3 $\pm$ 24.2	83.7 $\pm$ 24.0
T 2700	252.8 $\pm$ 72.1	84.2 $\pm$ 24.0	84.2 $\pm$ 24.0	82.9 $\pm$ 24.1
T 2800	249.7 $\pm$ 71.8	83.0 $\pm$ 23.9	83.0 $\pm$ 23.9	82.1 $\pm$ 23.9
T 2900	246.7 $\pm$ 71.2	82.2 $\pm$ 23.7	82.2 $\pm$ 23.7	81.0 $\pm$ 23.8
T 3000	244.1 $\pm$ 71.0	81.4 $\pm$ 23.4	81.4 $\pm$ 23.4	80.1 $\pm$ 23.9
T 3100	241.1 $\pm$ 71.3	80.3 $\pm$ 23.8	80.3 $\pm$ 23.8	79.2 $\pm$ 23.6
T 3200	235.5 $\pm$ 72.1	78.5 $\pm$ 24.1	78.5 $\pm$ 24.1	77.4 $\pm$ 24.1

TABLE S.73. Table of Vertical Choroidal Major of Healthy Cases.

Table of Vertical Choroidal Major of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	68.3±20.9	22.5±7.0	23.6±6.9	22.2±7.0
I 3100	69.5±20.8	22.6±6.9	24.1±6.9	22.9±6.9
I 3000	70.2±20.8	23.0±6.8	24.2±6.9	23.3±7.0
I 2900	70.9±20.5	23.1±6.7	24.5±6.8	23.3±6.9
I 2800	71.6±20.2	23.3±6.6	24.7±6.7	23.7±6.8
I 2700	72.1±20.0	23.6±6.5	24.9±6.7	23.8±6.7
I 2600	72.5±19.8	23.6±6.5	25.1±6.6	23.9±6.7
I 2500	72.8±19.7	23.7±6.6	25.1±6.6	24.1±6.5
I 2400	73.1±19.8	23.9±6.6	25.1±6.6	24.1±6.6
I 2300	73.6±20.0	24.2±6.6	25.4±6.6	24.2±6.8
I 2200	74.3±20.1	24.4±6.7	25.5±6.7	24.5±6.6
I 2100	75.0±20.3	24.6±6.8	25.8±6.9	24.7±6.7
I 2000	75.6±20.4	24.6±6.9	26.0±6.9	24.9±6.7
I 1900	75.9±20.6	24.8±6.9	26.0±6.9	25.2±6.8
I 1800	76.3±20.7	25.0±7.0	26.1±7.0	25.2±6.9
I 1700	76.7±20.9	25.0±7.1	26.3±7.0	25.3±6.9
I 1600	77.0±21.0	25.2±7.1	26.3±7.1	25.5±6.9
I 1500	77.3±21.1	25.4±7.2	26.5±7.1	25.4±7.1
I 1400	77.9±21.3	25.6±7.2	26.7±7.2	25.7±7.1
I 1300	78.4±21.5	25.7±7.1	26.9±7.2	25.9±7.1
I 1200	78.8±21.4	25.8±7.1	27.0±7.1	26.0±7.2
I 1100	78.9±21.2	25.8±7.0	27.0±7.1	26.0±7.1
I 1000	79.2±21.2	26.1±7.0	27.0±7.0	26.1±7.2
I 900	79.7±20.8	26.3±6.9	27.3±6.9	26.2±6.9
I 800	80.5±20.6	26.6±7.0	27.4±6.9	26.6±6.9
I 700	81.1±20.6	26.9±6.7	27.5±6.9	26.8±6.8
I 600	81.8±20.3	27.2±6.6	27.8±6.7	27.1±6.9
I 500	82.5±20.0	27.5±6.5	28.1±6.6	27.2±6.8
I 400	83.4±19.6	27.9±6.5	28.4±6.5	27.4±6.6
I 300	84.5±19.4	28.2±6.5	28.7±6.4	27.7±6.6
I 200	85.7±19.6	28.6±6.5	29.1±6.5	28.2±6.6
I 100	86.7±19.7	28.7±6.5	29.3±6.6	28.5±6.6
V 0	87.1±19.8	28.6±6.7	29.4±6.5	28.8±6.7
S 100	87.0±19.7	28.6±6.7	29.4±6.6	28.7±6.5
S 200	86.6±19.5	28.6±6.6	29.3±6.5	28.5±6.5

Table of Vertical Choroidal Major of Healthy Cases (Pixel)

S 300	85.9±19.1	28.3±6.5	29.1±6.4	28.3±6.3
S 400	85.2±18.5	28.0±6.2	28.9±6.1	28.1±6.2
S 500	84.8±17.9	27.9±6.0	28.8±5.9	27.9±6.0
S 600	84.5±17.5	27.7±5.9	28.7±5.9	27.8±5.8
S 700	84.2±17.5	27.6±5.9	28.6±5.8	27.7±5.9
S 800	84.0±17.5	27.5±5.9	28.6±5.8	27.7±5.8
S 900	83.8±17.5	27.5±5.9	28.5±5.8	27.7±5.8
S 1000	83.5±17.3	27.3±5.9	28.3±5.8	27.6±5.7
S 1100	83.3±16.9	27.3±5.8	28.3±5.6	27.5±5.6
S 1200	83.2±16.5	27.2±5.5	28.3±5.4	27.5±5.5
S 1300	83.2±16.3	27.1±5.5	28.3±5.4	27.5±5.5
S 1400	82.6±16.3	27.0±5.5	28.1±5.4	27.3±5.4
S 1500	82.1±16.4	26.7±5.5	28.0±5.5	27.2±5.5
S 1600	82.0±16.4	26.8±5.5	28.0±5.5	27.1±5.4
S 1700	81.9±16.3	26.6±5.6	27.9±5.5	27.1±5.4
S 1800	81.7±16.2	26.5±5.5	27.9±5.4	27.1±5.4
S 1900	81.5±16.3	26.5±5.4	27.9±5.4	26.9±5.5
S 2000	81.5±16.4	26.5±5.5	27.8±5.5	27.0±5.6
S 2100	81.5±16.4	26.5±5.4	27.9±5.5	26.9±5.5
S 2200	81.2±16.7	26.4±5.6	27.8±5.6	26.9±5.6
S 2300	81.0±16.9	26.3±5.6	27.7±5.6	26.8±5.8
S 2400	80.9±17.1	26.2±5.6	27.7±5.7	26.8±5.7
S 2500	80.9±17.3	26.3±5.8	27.8±5.8	26.8±5.8
S 2600	80.6±17.6	26.1±5.8	27.6±5.8	26.7±6.0
S 2700	80.2±17.9	25.9±5.9	27.5±6.0	26.6±6.0
S 2800	79.7±18.2	25.8±6.0	27.4±6.1	26.3±6.2
S 2900	79.2±18.6	25.8±6.2	27.3±6.2	26.1±6.3
S 3000	78.8±19.4	25.6±6.4	27.1±6.4	26.0±6.5
S 3100	78.0±19.6	25.3±6.5	26.8±6.6	25.7±6.6
S 3200	76.3±20.2	25.1±6.7	26.3±6.8	25.0±6.7

TABLE S.74. Table of Horizontal Choroidal Major of Healthy Cases.

Table of Horizontal Choroidal Major of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	45.8±15.4	15.8±5.3	16.1±5.2	14.9±4.8
N 3100	48.3±16.1	16.3±5.5	16.9±5.5	15.9±5.1
N 3000	50.3±16.7	17.1±5.8	17.6±5.7	16.5±5.4
N 2900	52.3±17.3	17.8±5.9	18.4±5.9	17.1±5.6
N 2800	54.7±17.7	18.4±6.0	19.2±5.9	17.8±5.8
N 2700	56.6±18.0	19.0±6.1	19.8±6.0	18.5±5.9
N 2600	58.6±18.1	19.4±6.1	20.3±6.2	19.3±5.9
N 2500	60.0±18.5	19.9±6.2	20.8±6.2	19.7±6.2
N 2400	61.4±18.5	20.4±6.3	21.3±6.2	20.2±6.2
N 2300	62.9±18.6	20.9±6.1	21.7±6.2	20.7±6.1
N 2200	64.5±18.5	21.4±6.1	22.3±6.1	21.2±6.3
N 2100	65.8±18.4	21.8±6.3	22.7±6.2	21.6±6.1
N 2000	66.9±18.4	22.2±6.3	23.1±6.2	22.0±6.0
N 1900	68.1±18.7	22.6±6.4	23.4±6.4	22.4±6.1
N 1800	69.4±19.1	23.1±6.4	23.9±6.4	22.8±6.4
N 1700	70.6±19.3	23.4±6.7	24.2±6.5	23.2±6.5
N 1600	71.7±19.7	23.7±6.7	24.6±6.7	23.5±6.5
N 1500	72.5±20.1	24.0±6.8	24.9±6.7	23.8±6.7
N 1400	73.6±20.5	24.4±7.0	25.3±6.8	24.2±6.9
N 1300	74.9±20.8	24.8±7.1	25.6±6.9	24.7±6.9
N 1200	75.8±21.0	25.2±7.0	26.0±7.1	25.0±6.9
N 1100	76.9±21.0	25.7±7.0	26.3±7.0	25.3±7.0
N 1000	78.2±21.0	26.1±7.0	26.7±6.9	25.7±7.1
N 900	79.6±20.9	26.5±7.0	27.2±7.0	26.2±7.0
N 800	80.8±21.0	26.9±7.0	27.5±7.0	26.6±7.0
N 700	81.6±20.9	27.1±7.0	27.8±7.0	26.8±7.0
N 600	82.4±21.0	27.3±7.1	28.0±7.0	27.1±7.0
N 500	83.1±21.2	27.5±7.2	28.2±7.0	27.4±7.1
N 400	83.9±21.3	27.9±7.3	28.4±7.2	27.7±7.0
N 300	84.7±21.6	28.3±7.3	28.7±7.3	27.9±7.2
N 200	85.6±22.0	28.5±7.5	29.0±7.4	28.1±7.3
N 100	86.4±22.1	28.7±7.4	29.2±7.4	28.5±7.2
H 0	86.9±22.0	28.8±7.3	29.4±7.3	28.6±7.3
T 100	87.2±21.9	28.8±7.3	29.5±7.2	28.7±7.3
T 200	87.0±21.9	28.8±7.4	29.4±7.2	28.6±7.2

Table of Horizontal Choroidal Major of Healthy Cases (Pixel)

T 300	86.5±21.8	28.5±7.5	29.3±7.3	28.5±7.1
T 400	85.7±21.8	28.2±7.4	29.0±7.2	28.2±7.2
T 500	84.8±21.6	27.9±7.2	28.8±7.1	27.9±7.3
T 600	83.9±21.6	27.6±7.3	28.5±7.2	27.6±7.2
T 700	82.8±21.9	27.1±7.4	28.2±7.3	27.3±7.3
T 800	81.8±22.0	26.9±7.4	27.9±7.3	26.9±7.3
T 900	80.7±21.8	26.4±7.3	27.5±7.3	26.6±7.2
T 1000	79.8±21.6	26.1±7.2	27.3±7.2	26.3±7.3
T 1100	79.1±21.6	25.8±7.2	27.0±7.2	26.0±7.3
T 1200	78.6±21.8	25.6±7.1	26.8±7.2	26.0±7.3
T 1300	78.2±21.9	25.5±7.3	26.7±7.3	25.8±7.3
T 1400	77.7±22.1	25.3±7.4	26.6±7.4	25.7±7.3
T 1500	77.3±22.2	25.1±7.4	26.4±7.4	25.6±7.4
T 1600	76.8±22.5	24.9±7.4	26.3±7.5	25.5±7.6
T 1700	76.3±22.5	24.7±7.5	26.2±7.5	25.3±7.5
T 1800	75.9±22.5	24.6±7.5	26.1±7.5	25.1±7.4
T 1900	75.6±22.2	24.5±7.4	25.9±7.4	25.1±7.4
T 2000	75.3±21.9	24.4±7.4	25.8±7.4	25.0±7.2
T 2100	74.8±21.7	24.2±7.3	25.6±7.3	24.8±7.2
T 2200	74.2±21.7	24.0±7.2	25.5±7.1	24.5±7.3
T 2300	73.7±21.6	23.8±7.3	25.3±7.2	24.4±7.2
T 2400	73.0±21.3	23.7±7.0	25.2±7.1	24.1±7.2
T 2500	72.3±21.0	23.4±7.0	24.9±7.0	23.9±7.0
T 2600	71.1±20.8	23.0±7.0	24.6±7.0	23.4±6.9
T 2700	70.2±20.6	22.7±6.8	24.2±6.9	23.1±6.9
T 2800	69.3±20.5	22.3±6.8	23.9±6.9	22.9±6.9
T 2900	68.3±20.5	22.1±6.8	23.6±6.8	22.5±6.9
T 3000	67.6±20.4	21.9±6.7	23.4±6.7	22.3±6.9
T 3100	66.7±20.5	21.6±6.7	23.1±6.8	22.0±6.8
T 3200	65.2±20.7	21.5±6.9	22.6±6.9	21.2±6.8

TABLE S.75. Table of Vertical Choroidal Angle of Healthy Cases.

Table of Vertical Choroidal Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	90.3±0.4	92.2±5.3	89.1±9.0	92.1±10.8
I 3100	90.3±0.3	91.8±4.5	90.0±0.0	92.3±6.0
I 3000	90.2±0.3	91.4±3.1	90.0±0.0	91.8±5.3
I 2900	90.2±0.3	91.3±3.6	90.0±0.0	91.8±5.3
I 2800	90.2±0.3	90.8±2.0	90.0±0.0	91.5±3.9
I 2700	90.2±0.3	90.7±1.5	90.0±0.0	91.3±4.1
I 2600	90.1±0.2	90.9±2.6	90.0±0.0	91.3±3.7
I 2500	90.1±0.2	90.9±4.4	90.0±0.0	90.7±2.6
I 2400	90.1±0.2	91.1±6.2	90.0±0.0	90.3±4.7
I 2300	90.1±0.2	91.0±7.2	90.0±0.0	90.0±9.4
I 2200	90.1±0.2	91.0±7.7	89.1±9.0	90.0±9.3
I 2100	90.1±0.2	91.1±7.5	89.1±9.0	89.8±9.2
I 2000	90.1±0.2	91.1±7.5	89.1±9.0	91.5±8.2
I 1900	90.1±0.3	90.7±5.0	89.1±9.0	90.9±5.5
I 1800	90.1±0.3	90.3±1.4	90.0±0.0	91.0±6.4
I 1700	90.1±0.3	90.4±1.5	90.0±0.0	90.7±3.5
I 1600	90.1±0.2	90.3±1.4	90.0±0.0	90.2±1.4
I 1500	90.1±0.2	90.3±1.1	90.0±0.0	90.5±1.7
I 1400	90.1±0.2	90.2±1.0	90.0±0.0	90.4±1.9
I 1300	90.1±0.1	90.2±0.8	90.0±0.0	90.5±1.4
I 1200	90.1±0.1	90.2±0.8	90.0±0.0	90.5±1.5
I 1100	90.0±0.1	90.1±0.7	90.0±0.0	90.3±2.0
I 1000	90.1±0.1	90.0±0.5	90.0±0.0	90.5±1.8
I 900	90.1±0.1	90.1±0.7	90.0±0.0	90.7±1.8
I 800	90.1±0.1	90.1±0.6	90.0±0.0	90.5±1.2
I 700	90.0±0.1	90.1±0.5	90.0±0.0	90.4±2.0
I 600	90.1±0.2	90.1±0.4	90.0±0.0	90.5±1.8
I 500	90.1±0.1	90.0±0.4	90.0±0.0	90.5±1.4
I 400	90.1±0.1	90.0±0.3	90.0±0.0	90.7±1.7
I 300	90.1±0.1	90.0±0.3	90.0±0.0	90.5±1.3
I 200	90.0±0.1	90.0±0.3	90.0±0.0	90.4±1.0
I 100	90.0±0.1	90.0±0.3	90.0±0.0	90.2±1.0
V 0	90.0±0.1	90.1±0.3	90.0±0.0	90.0±0.7
S 100	90.0±0.1	90.1±0.3	90.0±0.0	90.0±0.5
S 200	90.0±0.1	90.1±0.4	90.0±0.0	89.9±0.8

Table of Vertical Choroidal Angle of Healthy Cases (Degree)

S 300	90.0±0.1	90.1±0.3	90.0±0.0	89.8±0.9
S 400	90.0±0.1	90.1±0.4	90.0±0.0	90.0±1.1
S 500	90.0±0.1	90.0±0.4	90.0±0.0	90.0±1.2
S 600	90.0±0.1	90.0±0.4	90.0±0.0	89.9±0.9
S 700	90.0±0.1	90.0±0.3	90.0±0.0	89.8±1.0
S 800	90.0±0.1	90.0±0.4	90.0±0.0	89.9±1.7
S 900	90.0±0.2	90.0±0.4	90.0±0.0	89.7±1.7
S 1000	90.0±0.1	89.9±0.7	90.0±0.0	90.0±1.1
S 1100	90.0±0.1	89.9±0.7	90.0±0.0	89.8±1.0
S 1200	90.0±0.1	89.8±0.5	90.0±0.0	90.1±1.3
S 1300	90.0±0.1	89.9±0.5	90.0±0.0	89.7±1.0
S 1400	90.0±0.1	89.9±0.5	90.0±0.0	89.6±1.1
S 1500	90.0±0.1	89.8±0.5	90.0±0.0	89.8±1.2
S 1600	90.0±0.2	89.9±0.5	90.0±0.0	89.9±1.5
S 1700	90.0±0.1	89.8±0.5	90.0±0.0	89.8±0.9
S 1800	90.0±0.1	89.8±0.5	90.0±0.0	89.7±1.0
S 1900	90.0±0.1	89.8±0.5	90.0±0.0	89.8±1.1
S 2000	90.0±0.1	89.9±0.6	90.0±0.0	89.8±1.0
S 2100	89.9±0.1	89.7±0.5	90.0±0.0	89.8±1.2
S 2200	89.9±0.1	89.8±0.5	90.0±0.0	89.6±1.2
S 2300	89.9±0.1	89.8±0.6	90.0±0.0	89.6±1.2
S 2400	90.0±0.1	89.8±0.4	90.0±0.0	89.9±1.2
S 2500	89.9±0.1	89.7±0.6	90.0±0.0	89.6±1.2
S 2600	89.9±0.1	89.6±0.6	90.0±0.0	89.5±1.1
S 2700	89.9±0.2	89.6±0.7	90.0±0.0	89.5±1.5
S 2800	89.9±0.2	89.6±0.6	90.0±0.0	89.3±2.3
S 2900	89.9±0.2	89.6±0.7	90.0±0.0	89.2±2.1
S 3000	89.9±0.2	89.6±1.1	90.0±0.0	89.0±4.9
S 3100	89.8±0.2	88.6±9.0	89.1±9.0	88.0±9.1
S 3200	89.8±0.3	88.8±9.0	89.1±9.0	87.0±9.5

TABLE S.76. Table of Horizontal Choroidal Angle of Healthy Cases.

Table of Horizontal Choroidal Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	90.1 $\pm$ 0.8	84.5 $\pm$ 25.8	82.8 $\pm$ 24.5	85.5 $\pm$ 28.9
N 3100	90.0 $\pm$ 0.8	85.6 $\pm$ 22.3	85.5 $\pm$ 19.7	88.0 $\pm$ 21.4
N 3000	90.1 $\pm$ 0.6	85.2 $\pm$ 22.9	86.4 $\pm$ 17.7	88.0 $\pm$ 22.1
N 2900	90.0 $\pm$ 0.6	86.9 $\pm$ 18.2	88.2 $\pm$ 12.7	91.1 $\pm$ 17.1
N 2800	90.0 $\pm$ 0.5	87.7 $\pm$ 14.7	88.2 $\pm$ 12.7	89.0 $\pm$ 16.3
N 2700	90.0 $\pm$ 0.4	87.6 $\pm$ 14.0	89.1 $\pm$ 9.0	88.9 $\pm$ 13.5
N 2600	90.0 $\pm$ 0.4	90.2 $\pm$ 9.1	89.1 $\pm$ 9.0	89.0 $\pm$ 11.5
N 2500	90.0 $\pm$ 0.3	88.7 $\pm$ 9.7	89.1 $\pm$ 9.0	89.4 $\pm$ 10.4
N 2400	90.0 $\pm$ 0.3	90.2 $\pm$ 4.8	90.0 $\pm$ 0.0	89.9 $\pm$ 4.2
N 2300	90.0 $\pm$ 0.3	90.0 $\pm$ 2.4	90.0 $\pm$ 0.0	89.7 $\pm$ 4.1
N 2200	90.0 $\pm$ 0.3	89.9 $\pm$ 1.4	90.0 $\pm$ 0.0	90.2 $\pm$ 4.7
N 2100	90.0 $\pm$ 0.3	90.0 $\pm$ 1.6	90.0 $\pm$ 0.0	89.9 $\pm$ 3.1
N 2000	90.0 $\pm$ 0.3	90.0 $\pm$ 1.3	90.0 $\pm$ 0.0	90.1 $\pm$ 2.4
N 1900	90.0 $\pm$ 0.2	89.9 $\pm$ 1.0	90.0 $\pm$ 0.0	89.8 $\pm$ 2.2
N 1800	90.0 $\pm$ 0.2	90.0 $\pm$ 0.9	90.0 $\pm$ 0.0	89.8 $\pm$ 2.5
N 1700	90.0 $\pm$ 0.2	90.0 $\pm$ 1.1	90.0 $\pm$ 0.0	90.1 $\pm$ 2.3
N 1600	90.0 $\pm$ 0.2	90.2 $\pm$ 1.0	90.0 $\pm$ 0.0	90.1 $\pm$ 1.7
N 1500	90.0 $\pm$ 0.2	89.9 $\pm$ 0.8	90.0 $\pm$ 0.0	90.1 $\pm$ 2.2
N 1400	90.0 $\pm$ 0.2	90.0 $\pm$ 0.7	90.0 $\pm$ 0.0	90.2 $\pm$ 2.9
N 1300	90.0 $\pm$ 0.2	90.0 $\pm$ 0.6	90.0 $\pm$ 0.0	90.2 $\pm$ 2.0
N 1200	90.0 $\pm$ 0.2	90.0 $\pm$ 0.6	90.0 $\pm$ 0.0	90.2 $\pm$ 1.9
N 1100	90.0 $\pm$ 0.2	90.0 $\pm$ 0.4	90.0 $\pm$ 0.0	90.0 $\pm$ 1.8
N 1000	90.0 $\pm$ 0.2	90.0 $\pm$ 0.4	90.0 $\pm$ 0.0	90.3 $\pm$ 1.8
N 900	90.0 $\pm$ 0.1	90.0 $\pm$ 0.4	90.0 $\pm$ 0.0	90.2 $\pm$ 1.5
N 800	90.0 $\pm$ 0.1	90.0 $\pm$ 0.4	90.0 $\pm$ 0.0	90.0 $\pm$ 1.0
N 700	90.0 $\pm$ 0.1	90.0 $\pm$ 0.5	90.0 $\pm$ 0.0	90.0 $\pm$ 1.2
N 600	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	89.8 $\pm$ 1.3
N 500	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	90.0 $\pm$ 1.0
N 400	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	89.9 $\pm$ 0.8
N 300	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	89.9 $\pm$ 0.8
N 200	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	89.9 $\pm$ 0.8
N 100	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	90.0 $\pm$ 1.0
H 0	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	90.2 $\pm$ 1.0
T 100	90.0 $\pm$ 0.1	90.0 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.7
T 200	90.0 $\pm$ 0.1	90.1 $\pm$ 0.3	90.0 $\pm$ 0.0	90.1 $\pm$ 0.7

Table of Horizontal Choroidal Angle of Healthy Cases (Degree)

T 300	90.0±0.1	90.0±0.4	90.0±0.0	90.1±0.8
T 400	90.0±0.1	90.0±0.3	90.0±0.0	89.9±1.1
T 500	90.0±0.1	90.0±0.4	90.0±0.0	89.8±1.3
T 600	90.0±0.2	90.0±0.4	90.0±0.0	89.7±1.8
T 700	90.0±0.1	90.0±0.7	90.0±0.0	89.8±1.6
T 800	90.0±0.1	90.0±0.5	90.0±0.0	90.0±1.4
T 900	90.0±0.2	90.0±0.5	90.0±0.0	90.1±1.9
T 1000	90.0±0.2	90.0±0.7	90.0±0.0	89.9±1.7
T 1100	90.0±0.2	90.0±0.5	90.0±0.0	90.0±1.5
T 1200	90.0±0.2	90.0±0.7	90.0±0.0	90.2±2.1
T 1300	90.0±0.2	90.0±1.4	90.0±0.0	90.3±2.6
T 1400	90.0±0.2	89.8±0.9	90.0±0.0	90.5±4.6
T 1500	90.0±0.2	89.0±9.0	90.0±0.0	90.3±5.1
T 1600	90.0±0.2	90.6±7.7	89.1±9.0	89.1±9.2
T 1700	90.0±0.3	90.3±4.6	90.0±0.0	90.5±7.6
T 1800	90.0±0.2	90.3±4.6	90.0±0.0	91.1±7.2
T 1900	90.0±0.2	89.1±9.1	89.1±9.0	89.3±9.2
T 2000	90.0±0.2	90.1±1.2	90.0±0.0	89.4±6.5
T 2100	90.0±0.2	89.9±1.1	90.0±0.0	89.3±5.6
T 2200	90.0±0.2	90.0±0.9	90.0±0.0	89.6±3.8
T 2300	90.0±0.3	89.9±1.1	90.0±0.0	90.1±2.9
T 2400	90.0±0.3	90.1±1.0	90.0±0.0	89.6±3.6
T 2500	90.0±0.3	90.0±1.1	90.0±0.0	89.9±3.5
T 2600	90.0±0.3	89.9±1.4	90.0±0.0	90.2±2.9
T 2700	90.0±0.3	89.9±1.4	90.0±0.0	90.3±3.3
T 2800	90.0±0.4	89.9±1.7	90.0±0.0	89.3±4.1
T 2900	90.0±0.3	89.4±4.8	90.0±0.0	89.4±5.2
T 3000	90.0±0.3	89.4±4.8	90.0±0.0	89.3±6.6
T 3100	89.9±0.4	88.8±8.3	89.1±9.0	89.2±6.5
T 3200	90.0±0.5	89.0±8.6	89.1±9.0	89.1±9.3

TABLE S.77. Table of Vertical Choroidal Integrated Density of Healthy Cases.

Table of Vertical Choroidal Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	37694.1±19813.3	11543.9±6720.8	15323.0±10520.0	10952.3±9129.1
I 3100	37765.5±20192.8	11061.9±6717.3	14282.6±11079.1	11870.3±9895.2
I 3000	37791.0±17325.3	11271.0±6239.4	14037.8±10810.8	12497.6±9504.6
I 2900	39035.4±17123.0	10903.8±7548.3	15068.0±9609.5	12546.0±9184.6
I 2800	37722.2±17453.4	11704.5±7001.8	14915.0±10047.6	11742.8±9747.1
I 2700	37938.9±17373.3	11112.9±7503.5	12974.4±9575.1	13132.5±9331.3
I 2600	38777.9±18503.3	11939.1±7123.5	14507.0±9918.4	13107.0±11196.8
I 2500	43327.1±20741.8	12382.8±7489.3	15422.4±11247.9	15817.7±11323.7
I 2400	44240.0±21186.7	10740.6±7144.8	14813.0±11423.1	16886.1±11343.0
I 2300	38168.4±16989.8	10590.2±7316.1	14285.1±9938.1	12982.1±9754.8
I 2200	42077.6±19079.3	11781.0±6911.9	15710.6±10769.6	15641.7±10162.2
I 2100	42549.3±20745.6	12783.2±7849.1	15310.2±11188.5	15310.2±11198.8
I 2000	44084.4±19910.5	10911.5±6984.5	15073.1±9475.3	16067.6±11197.6
I 1900	43551.5±20606.0	12339.5±8094.8	15519.3±11069.4	16944.8±11600.1
I 1800	41667.0±19856.8	12038.6±7271.0	14695.7±10396.9	14466.2±10982.0
I 1700	43072.1±19776.4	11311.8±7759.3	15863.6±10389.0	15017.0±10849.3
I 1600	43278.6±17362.9	11944.2±6602.9	15521.9±10169.2	16279.2±9819.1
I 1500	42763.5±16072.9	12163.5±6986.0	15384.2±9225.7	15310.2±10855.1
I 1400	41899.1±18720.8	11263.4±7364.6	15009.3±9428.6	14568.2±9491.6
I 1300	44428.7±19458.0	11161.4±7963.0	18105.0±10958.6	14971.1±10022.6
I 1200	41282.0±18370.4	11778.5±8078.9	16467.9±10033.2	13581.3±9922.9
I 1100	44803.5±20550.3	11750.4±7534.2	16139.0±10659.1	16761.2±11329.2
I 1000	43439.3±19151.7	11490.3±6736.3	15606.0±9921.6	15919.7±10753.4
I 900	43559.1±20548.6	13132.5±7714.5	17689.4±11021.3	14236.7±10974.3
I 800	44168.6±19669.7	12023.3±6750.0	16406.7±10468.4	14392.2±10683.1
I 700	45688.4±18100.3	12464.4±7119.3	16490.9±9928.2	16911.6±10245.7
I 600	45642.5±16727.7	12512.9±7136.5	15861.0±10268.7	17197.2±9899.4
I 500	45007.5±17761.9	13216.7±7690.3	14886.9±9786.3	17477.7±10766.3
I 400	46841.0±19395.5	13010.1±7631.0	16865.7±10894.7	16633.7±10489.7
I 300	47009.3±20387.2	14280.0±7963.2	17332.4±11306.7	16501.1±10904.9
I 200	48444.9±20406.4	12875.0±7006.3	16888.7±10571.4	17102.9±10943.2
I 100	48302.1±19087.1	13458.9±7005.9	16753.5±9871.6	18482.4±10982.8
V 0	50235.0±17064.5	13504.8±6847.4	17839.8±10751.3	18709.4±10350.9
S 100	53091.0±19046.9	13504.8±6847.4	19441.2±11208.5	19890.0±11385.9
S 200	52440.8±21490.1	14063.3±8211.4	18747.6±12122.2	19377.5±11905.8

Table of Vertical Choroidal Integrated Density of Healthy Cases (PV)

S 300	47098.5±20350.4	12540.9±6982.8	16697.4±10850.8	17681.7±11733.0
S 400	48633.6±18319.1	12268.1±7138.7	18041.3±10974.0	18176.4±10218.0
S 500	45951.0±18776.9	12602.1±7509.5	16977.9±9721.8	16210.4±9654.8
S 600	44938.7±16898.2	11796.3±6825.0	16929.5±10474.6	16057.4±9916.4
S 700	44709.2±15755.9	12018.2±6540.7	16700.0±9814.2	15804.9±10366.1
S 800	46290.2±17733.8	12444.0±6798.5	16567.4±10716.0	17141.1±10577.2
S 900	49742.9±18779.3	12102.3±7451.8	18431.4±10192.0	19030.7±11967.0
S 1000	45078.9±17584.0	12734.7±7754.2	17143.7±9966.1	15017.0±10524.9
S 1100	44941.2±15994.7	12127.8±7250.7	16972.8±9787.5	15657.0±9391.4
S 1200	46792.5±18485.2	12081.9±7490.3	16628.6±10589.8	17867.9±11086.6
S 1300	47330.6±18209.3	12023.3±7134.5	16832.6±9337.9	18255.5±11392.3
S 1400	44196.6±19315.6	11786.1±6619.3	15246.5±10719.3	16972.8±11615.3
S 1500	45476.7±20033.1	11431.7±7221.4	15715.7±11113.5	18122.9±11658.7
S 1600	44903.0±18280.3	12005.4±6821.8	16039.5±10289.4	16661.7±10219.6
S 1700	45810.8±17669.5	11880.5±7562.0	16274.1±10906.8	17454.8±10910.6
S 1800	45010.1±17657.2	12365.0±7065.2	16057.4±10060.6	16429.7±10455.9
S 1900	44084.4±19410.3	11441.9±7119.0	15307.7±10045.3	17248.2±11802.9
S 2000	45767.4±20441.9	11832.0±7879.6	16725.5±11661.5	17082.5±11631.5
S 2100	47121.5±21599.3	11169.0±6907.0	18099.9±12130.4	17694.5±11975.4
S 2200	44890.2±19441.0	12617.4±7627.0	16263.9±9756.1	15950.3±11022.2
S 2300	42898.7±18432.0	12191.6±7648.8	17120.7±11144.1	13453.8±10816.7
S 2400	44604.6±18422.1	11760.6±6897.6	16332.8±9926.5	16350.6±11101.6
S 2500	44566.4±19830.3	11906.0±6676.5	15914.6±9718.1	16651.5±12347.4
S 2600	45520.1±20242.0	11304.2±6239.4	17273.7±10713.1	16822.4±12530.4
S 2700	45543.0±18687.0	12852.0±6964.1	16195.1±11240.6	16335.3±10872.7
S 2800	43954.4±20064.3	12081.9±7078.8	16406.7±11340.1	15292.4±10474.5
S 2900	42684.5±18952.4	11753.0±6693.7	16473.0±11996.9	14366.7±10495.7
S 3000	42092.9±19332.3	12673.5±7329.4	14917.5±11701.8	14425.4±10822.6
S 3100	42314.7±19169.9	11079.8±6578.7	15453.0±11189.6	15657.0±12149.5
S 3200	45397.7±21354.3	10901.3±7645.8	18446.7±11833.4	15952.8±11936.2

TABLE S.78. Table of Horizontal Choroidal Integrated Density of Healthy Cases.

Table of Horizontal Choroidal Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	22524.2±10413.6	6987.0±5036.1	9598.2±6115.5	6183.8±6273.4
N 3100	23276.4±12169.0	8132.0±5852.6	10123.5±7257.1	6048.6±6418.5
N 3000	26244.6±12948.4	8211.0±5997.7	10470.3±7494.9	7527.6±6956.7
N 2900	27509.4±14515.4	8812.8±5550.7	11153.7±8745.1	8081.0±7935.0
N 2800	28631.4±14325.0	8412.5±6005.4	11462.3±9230.8	8262.0±7412.3
N 2700	29646.3±13152.5	8565.5±6065.8	12084.5±7916.3	9042.3±8097.8
N 2600	30668.9±17728.1	9141.8±5802.2	12375.2±10290.2	9493.7±8650.0
N 2500	31821.5±15626.5	9809.9±6428.6	12252.8±8048.2	10220.4±9267.1
N 2400	32670.6±17400.1	9373.8±6013.2	12604.7±9163.0	10172.0±10195.7
N 2300	31551.2±14919.5	9950.1±6282.5	12586.8±8603.5	9432.5±7869.4
N 2200	33463.7±15809.1	9664.5±6749.6	13288.1±8419.8	10095.5±8310.7
N 2100	32647.7±15399.4	9753.8±7218.3	13420.7±9267.5	9447.8±8918.7
N 2000	34743.8±17332.3	10768.7±6306.4	13859.3±9498.3	11003.3±8538.9
N 1900	36309.5±15561.6	10215.3±5966.5	14629.4±8673.5	10745.7±8080.2
N 1800	36192.2±17410.7	10763.6±7085.7	14076.0±9398.0	11722.4±9819.4
N 1700	38400.5±18562.2	10587.6±6711.6	15029.7±10488.9	12502.7±9373.6
N 1600	39035.4±14802.9	10166.9±6117.9	15045.0±9021.4	13290.6±9097.3
N 1500	37306.5±15592.8	11051.7±7052.4	12405.8±8787.3	14598.8±9346.9
N 1400	37240.2±17933.9	10977.8±5981.7	13068.8±9849.6	12951.5±10071.6
N 1300	38405.6±16427.7	11283.8±7030.6	14410.1±9344.8	12859.7±10148.1
N 1200	39716.3±18179.1	10886.0±7140.4	14818.1±10127.2	13494.6±9351.1
N 1100	40772.0±18373.9	10868.1±6593.1	15853.4±10962.9	13907.7±9570.4
N 1000	41628.8±18368.8	10993.1±7545.1	16008.9±10534.1	14624.3±9388.7
N 900	42748.2±20151.7	11260.8±6952.8	17008.5±11427.0	14631.9±9003.4
N 800	39285.3±18968.6	11747.9±7108.9	13662.9±10046.2	14257.1±10143.1
N 700	42613.1±20008.1	12709.2±6923.9	15325.5±9618.5	15386.7±10766.7
N 600	46246.8±19517.9	12321.6±7729.7	16677.0±10113.2	16725.5±10482.7
N 500	43459.7±17330.5	12999.9±8017.8	15639.2±10372.4	15384.2±9007.2
N 400	45948.5±19436.9	13645.1±7369.4	16330.2±9829.1	16404.2±10048.2
N 300	48240.9±18016.3	14093.9±6984.5	17317.1±10002.1	17028.9±10912.0
N 200	49898.4±18933.8	14529.9±7528.1	17918.9±10799.1	17674.1±10955.0
N 100	50408.4±20067.0	13354.4±8522.8	17528.7±11460.7	18105.0±9580.6
H 0	48531.6±20114.2	12775.5±7285.7	17837.3±10453.0	17125.8±10216.4
T 100	47343.3±17182.0	12775.5±7285.7	19188.8±10136.4	15208.2±9501.0
T 200	47850.8±18716.1	13540.5±8154.7	18485.0±9849.7	15585.6±10407.5

Table of Horizontal Choroidal Integrated Density of Healthy Cases (PV)

T 300	49944.3±20220.5	13535.4±7041.6	18908.3±10369.8	17327.3±12481.3
T 400	46433.0±20417.1	12444.0±7344.2	17429.3±11480.4	16399.1±11087.4
T 500	46637.0±17205.7	11826.9±5980.4	18130.5±11216.5	16562.3±10457.1
T 600	48146.6±19457.8	12635.3±7710.4	18857.3±9951.0	16552.1±11219.9
T 700	45907.7±19168.9	11671.4±7371.8	18469.7±10372.5	15634.1±10600.8
T 800	41924.6±18451.1	11837.1±7455.7	16740.8±9873.0	13237.1±10330.2
T 900	42174.5±16357.1	11413.8±6983.5	17067.2±10928.4	13530.3±9881.5
T 1000	41047.4±20243.5	10628.4±7357.7	15708.0±11287.6	14547.8±11435.9
T 1100	43673.9±18732.5	11199.6±7026.1	17355.3±9708.3	14968.5±11271.7
T 1200	45015.2±17978.1	11072.1±7340.8	17671.5±10291.8	16088.0±10922.4
T 1300	42299.4±17781.6	11039.0±7803.2	16529.1±9940.6	14621.7±9956.9
T 1400	40583.3±18389.1	11237.9±7538.6	15307.7±10370.7	13900.1±10787.8
T 1500	39846.3±16040.3	11064.5±7132.2	15238.8±8724.1	13395.2±10640.9
T 1600	43151.1±19156.5	10671.8±7122.4	18849.6±11727.5	13540.5±9574.9
T 1700	40718.4±17825.1	11141.0±7170.8	17503.2±11069.0	11944.2±9617.7
T 1800	43370.4±17665.6	12013.1±7169.2	17551.7±10517.0	13744.5±11408.1
T 1900	41710.4±16955.8	10852.8±7260.3	17640.9±10482.0	13132.5±10225.2
T 2000	40491.5±18288.5	10179.6±7110.4	17714.9±11508.4	12416.0±10329.4
T 2100	41090.7±16792.2	11240.4±7636.0	16949.9±10718.0	12729.6±10455.6
T 2200	40565.4±16891.2	10773.8±7551.8	16620.9±9856.3	13012.7±10464.3
T 2300	42562.1±19613.7	12224.7±7596.6	17689.4±10591.7	12525.6±10246.2
T 2400	39346.5±18492.6	11084.9±7242.7	15254.1±10595.2	12864.8±10196.6
T 2500	38862.0±16841.9	11668.8±7530.9	15356.1±10635.1	11719.8±9587.6
T 2600	40065.6±17620.9	11424.0±6871.3	16003.8±10136.4	12461.9±10990.3
T 2700	39604.1±19714.5	10771.2±7255.4	16279.2±11565.6	12426.2±9955.4
T 2800	42669.2±19192.4	11500.5±7072.5	16434.8±11814.5	14545.2±11527.8
T 2900	38836.5±18688.5	10710.0±7712.2	14522.3±10502.3	13456.4±10236.2
T 3000	35350.7±16477.7	11003.3±7049.4	13884.8±10097.2	10314.8±8672.8
T 3100	37816.5±19486.5	11413.8±7644.4	16105.8±11689.2	10217.9±9997.7
T 3200	38153.1±17732.9	10245.9±6886.2	16501.1±10037.1	11337.3±10933.3

TABLE S.79. Table of Vertical Choroidal Raw Integrated Density of Healthy Cases.

Table of Vertical Choroidal Raw Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	37694.1±19813.3	11543.9±6720.8	15323.0±10520.0	10952.3±9129.1
I 3100	37765.5±20192.8	11061.9±6717.3	14282.6±11079.1	11870.3±9895.2
I 3000	37791.0±17325.3	11271.0±6239.4	14037.8±10810.8	12497.6±9504.6
I 2900	39035.4±17123.0	10903.8±7548.3	15068.0±9609.5	12546.0±9184.6
I 2800	37722.2±17453.4	11704.5±7001.8	14915.0±10047.6	11742.8±9747.1
I 2700	37938.9±17373.3	11112.9±7503.5	12974.4±9575.1	13132.5±9331.3
I 2600	38777.9±18503.3	11939.1±7123.5	14507.0±9918.4	13107.0±11196.8
I 2500	43327.1±20741.8	12382.8±7489.3	15422.4±11247.9	15817.7±11323.7
I 2400	44240.0±21186.7	10740.6±7144.8	14813.0±11423.1	16886.1±11343.0
I 2300	38168.4±16989.8	10590.2±7316.1	14285.1±9938.1	12982.1±9754.8
I 2200	42077.6±19079.3	11781.0±6911.9	15710.6±10769.6	15641.7±10162.2
I 2100	42549.3±20745.6	12783.2±7849.1	15310.2±11188.5	15310.2±11198.8
I 2000	44084.4±19910.5	10911.5±6984.5	15073.1±9475.3	16067.6±11197.6
I 1900	43551.5±20606.0	12339.5±8094.8	15519.3±11069.4	16944.8±11600.1
I 1800	41667.0±19856.8	12038.6±7271.0	14695.7±10396.9	14466.2±10982.0
I 1700	43072.1±19776.4	11311.8±7759.3	15863.6±10389.0	15017.0±10849.3
I 1600	43278.6±17362.9	11944.2±6602.9	15521.9±10169.2	16279.2±9819.1
I 1500	42763.5±16072.9	12163.5±6986.0	15384.2±9225.7	15310.2±10855.1
I 1400	41899.1±18720.8	11263.4±7364.6	15009.3±9428.6	14568.2±9491.6
I 1300	44428.7±19458.0	11161.4±7963.0	18105.0±10958.6	14971.1±10022.6
I 1200	41282.0±18370.4	11778.5±8078.9	16467.9±10033.2	13581.3±9922.9
I 1100	44803.5±20550.3	11750.4±7534.2	16139.0±10659.1	16761.2±11329.2
I 1000	43439.3±19151.7	11490.3±6736.3	15606.0±9921.6	15919.7±10753.4
I 900	43559.1±20548.6	13132.5±7714.5	17689.4±11021.3	14236.7±10974.3
I 800	44168.6±19669.7	12023.3±6750.0	16406.7±10468.4	14392.2±10683.1
I 700	45688.4±18100.3	12464.4±7119.3	16490.9±9928.2	16911.6±10245.7
I 600	45642.5±16727.7	12512.9±7136.5	15861.0±10268.7	17197.2±9899.4
I 500	45007.5±17761.9	13216.7±7690.3	14886.9±9786.3	17477.7±10766.3
I 400	46841.0±19395.5	13010.1±7631.0	16865.7±10894.7	16633.7±10489.7
I 300	47009.3±20387.2	14280.0±7963.2	17332.4±11306.7	16501.1±10904.9
I 200	48444.9±20406.4	12875.0±7006.3	16888.7±10571.4	17102.9±10943.2
I 100	48302.1±19087.1	13458.9±7005.9	16753.5±9871.6	18482.4±10982.8
V 0	50235.0±17064.5	13504.8±6847.4	17839.8±10751.3	18709.4±10350.9
S 100	53091.0±19046.9	13504.8±6847.4	19441.2±11208.5	19890.0±11385.9
S 200	52440.8±21490.1	14063.3±8211.4	18747.6±12122.2	19377.5±11905.8

Table of Vertical Choroidal Raw Integrated Density of Healthy Cases (PV)

S 300	47098.5±20350.4	12540.9±6982.8	16697.4±10850.8	17681.7±11733.0
S 400	48633.6±18319.1	12268.1±7138.7	18041.3±10974.0	18176.4±10218.0
S 500	45951.0±18776.9	12602.1±7509.5	16977.9±9721.8	16210.4±9654.8
S 600	44938.7±16898.2	11796.3±6825.0	16929.5±10474.6	16057.4±9916.4
S 700	44709.2±15755.9	12018.2±6540.7	16700.0±9814.2	15804.9±10366.1
S 800	46290.2±17733.8	12444.0±6798.5	16567.4±10716.0	17141.1±10577.2
S 900	49742.9±18779.3	12102.3±7451.8	18431.4±10192.0	19030.7±11967.0
S 1000	45078.9±17584.0	12734.7±7754.2	17143.7±9966.1	15017.0±10524.9
S 1100	44941.2±15994.7	12127.8±7250.7	16972.8±9787.5	15657.0±9391.4
S 1200	46792.5±18485.2	12081.9±7490.3	16628.6±10589.8	17867.9±11086.6
S 1300	47330.6±18209.3	12023.3±7134.5	16832.6±9337.9	18255.5±11392.3
S 1400	44196.6±19315.6	11786.1±6619.3	15246.5±10719.3	16972.8±11615.3
S 1500	45476.7±20033.1	11431.7±7221.4	15715.7±11113.5	18122.9±11658.7
S 1600	44903.0±18280.3	12005.4±6821.8	16039.5±10289.4	16661.7±10219.6
S 1700	45810.8±17669.5	11880.5±7562.0	16274.1±10906.8	17454.8±10910.6
S 1800	45010.1±17657.2	12365.0±7065.2	16057.4±10060.6	16429.7±10455.9
S 1900	44084.4±19410.3	11441.9±7119.0	15307.7±10045.3	17248.2±11802.9
S 2000	45767.4±20441.9	11832.0±7879.6	16725.5±11661.5	17082.5±11631.5
S 2100	47121.5±21599.3	11169.0±6907.0	18099.9±12130.4	17694.5±11975.4
S 2200	44890.2±19441.0	12617.4±7627.0	16263.9±9756.1	15950.3±11022.2
S 2300	42898.7±18432.0	12191.6±7648.8	17120.7±11144.1	13453.8±10816.7
S 2400	44604.6±18422.1	11760.6±6897.6	16332.8±9926.5	16350.6±11101.6
S 2500	44566.4±19830.3	11906.0±6676.5	15914.6±9718.1	16651.5±12347.4
S 2600	45520.1±20242.0	11304.2±6239.4	17273.7±10713.1	16822.4±12530.4
S 2700	45543.0±18687.0	12852.0±6964.1	16195.1±11240.6	16335.3±10872.7
S 2800	43954.4±20064.3	12081.9±7078.8	16406.7±11340.1	15292.4±10474.5
S 2900	42684.5±18952.4	11753.0±6693.7	16473.0±11996.9	14366.7±10495.7
S 3000	42092.9±19332.3	12673.5±7329.4	14917.5±11701.8	14425.4±10822.6
S 3100	42314.7±19169.9	11079.8±6578.7	15453.0±11189.6	15657.0±12149.5
S 3200	45397.7±21354.3	10901.3±7645.8	18446.7±11833.4	15952.8±11936.2

TABLE S.80. Table of Horizontal Choroidal Raw Integrated Density of Healthy Cases.

Table of Horizontal Choroidal Raw Integrated Density of Healthy Cases (PV)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	22524.2±10413.6	6987.0±5036.1	9598.2±6115.5	6183.8±6273.4
N 3100	23276.4±12169.0	8132.0±5852.6	10123.5±7257.1	6048.6±6418.5
N 3000	26244.6±12948.4	8211.0±5997.7	10470.3±7494.9	7527.6±6956.7
N 2900	27509.4±14515.4	8812.8±5550.7	11153.7±8745.1	8081.0±7935.0
N 2800	28631.4±14325.0	8412.5±6005.4	11462.3±9230.8	8262.0±7412.3
N 2700	29646.3±13152.5	8565.5±6065.8	12084.5±7916.3	9042.3±8097.8
N 2600	30668.9±17728.1	9141.8±5802.2	12375.2±10290.2	9493.7±8650.0
N 2500	31821.5±15626.5	9809.9±6428.6	12252.8±8048.2	10220.4±9267.1
N 2400	32670.6±17400.1	9373.8±6013.2	12604.7±9163.0	10172.0±10195.7
N 2300	31551.2±14919.5	9950.1±6282.5	12586.8±8603.5	9432.5±7869.4
N 2200	33463.7±15809.1	9664.5±6749.6	13288.1±8419.8	10095.5±8310.7
N 2100	32647.7±15399.4	9753.8±7218.3	13420.7±9267.5	9447.8±8918.7
N 2000	34743.8±17332.3	10768.7±6306.4	13859.3±9498.3	11003.3±8538.9
N 1900	36309.5±15561.6	10215.3±5966.5	14629.4±8673.5	10745.7±8080.2
N 1800	36192.2±17410.7	10763.6±7085.7	14076.0±9398.0	11722.4±9819.4
N 1700	38400.5±18562.2	10587.6±6711.6	15029.7±10488.9	12502.7±9373.6
N 1600	39035.4±14802.9	10166.9±6117.9	15045.0±9021.4	13290.6±9097.3
N 1500	37306.5±15592.8	11051.7±7052.4	12405.8±8787.3	14598.8±9346.9
N 1400	37240.2±17933.9	10977.8±5981.7	13068.8±9849.6	12951.5±10071.6
N 1300	38405.6±16427.7	11283.8±7030.6	14410.1±9344.8	12859.7±10148.1
N 1200	39716.3±18179.1	10886.0±7140.4	14818.1±10127.2	13494.6±9351.1
N 1100	40772.0±18373.9	10868.1±6593.1	15853.4±10962.9	13907.7±9570.4
N 1000	41628.8±18368.8	10993.1±7545.1	16008.9±10534.1	14624.3±9388.7
N 900	42748.2±20151.7	11260.8±6952.8	17008.5±11427.0	14631.9±9003.4
N 800	39285.3±18968.6	11747.9±7108.9	13662.9±10046.2	14257.1±10143.1
N 700	42613.1±20008.1	12709.2±6923.9	15325.5±9618.5	15386.7±10766.7
N 600	46246.8±19517.9	12321.6±7729.7	16677.0±10113.2	16725.5±10482.7
N 500	43459.7±17330.5	12999.9±8017.8	15639.2±10372.4	15384.2±9007.2
N 400	45948.5±19436.9	13645.1±7369.4	16330.2±9829.1	16404.2±10048.2
N 300	48240.9±18016.3	14093.9±6984.5	17317.1±10002.1	17028.9±10912.0
N 200	49898.4±18933.8	14529.9±7528.1	17918.9±10799.1	17674.1±10955.0
N 100	50408.4±20067.0	13354.4±8522.8	17528.7±11460.7	18105.0±9580.6
H 0	48531.6±20114.2	12775.5±7285.7	17837.3±10453.0	17125.8±10216.4
T 100	47343.3±17182.0	12775.5±7285.7	19188.8±10136.4	15208.2±9501.0

Table of Horizontal Choroidal Raw Integrated Density of Healthy Cases (PV)

T 200	47850.8±18716.1	13540.5±8154.7	18485.0±9849.7	15585.6±10407.5
T 300	49944.3±20220.5	13535.4±7041.6	18908.3±10369.8	17327.3±12481.3
T 400	46433.0±20417.1	12444.0±7344.2	17429.3±11480.4	16399.1±11087.4
T 500	46637.0±17205.7	11826.9±5980.4	18130.5±11216.5	16562.3±10457.1
T 600	48146.6±19457.8	12635.3±7710.4	18857.3±9951.0	16552.1±11219.9
T 700	45907.7±19168.9	11671.4±7371.8	18469.7±10372.5	15634.1±10600.8
T 800	41924.6±18451.1	11837.1±7455.7	16740.8±9873.0	13237.1±10330.2
T 900	42174.5±16357.1	11413.8±6983.5	17067.2±10928.4	13530.3±9881.5
T 1000	41047.4±20243.5	10628.4±7357.7	15708.0±11287.6	14547.8±11435.9
T 1100	43673.9±18732.5	11199.6±7026.1	17355.3±9708.3	14968.5±11271.7
T 1200	45015.2±17978.1	11072.1±7340.8	17671.5±10291.8	16088.0±10922.4
T 1300	42299.4±17781.6	11039.0±7803.2	16529.1±9940.6	14621.7±9956.9
T 1400	40583.3±18389.1	11237.9±7538.6	15307.7±10370.7	13900.1±10787.8
T 1500	39846.3±16040.3	11064.5±7132.2	15238.8±8724.1	13395.2±10640.9
T 1600	43151.1±19156.5	10671.8±7122.4	18849.6±11727.5	13540.5±9574.9
T 1700	40718.4±17825.1	11141.0±7170.8	17503.2±11069.0	11944.2±9617.7
T 1800	43370.4±17665.6	12013.1±7169.2	17551.7±10517.0	13744.5±11408.1
T 1900	41710.4±16955.8	10852.8±7260.3	17640.9±10482.0	13132.5±10225.2
T 2000	40491.5±18288.5	10179.6±7110.4	17714.9±11508.4	12416.0±10329.4
T 2100	41090.7±16792.2	11240.4±7636.0	16949.9±10718.0	12729.6±10455.6
T 2200	40565.4±16891.2	10773.8±7551.8	16620.9±9856.3	13012.7±10464.3
T 2300	42562.1±19613.7	12224.7±7596.6	17689.4±10591.7	12525.6±10246.2
T 2400	39346.5±18492.6	11084.9±7242.7	15254.1±10595.2	12864.8±10196.6
T 2500	38862.0±16841.9	11668.8±7530.9	15356.1±10635.1	11719.8±9587.6
T 2600	40065.6±17620.9	11424.0±6871.3	16003.8±10136.4	12461.9±10990.3
T 2700	39604.1±19714.5	10771.2±7255.4	16279.2±11565.6	12426.2±9955.4
T 2800	42669.2±19192.4	11500.5±7072.5	16434.8±11814.5	14545.2±11527.8
T 2900	38836.5±18688.5	10710.0±7712.2	14522.3±10502.3	13456.4±10236.2
T 3000	35350.7±16477.7	11003.3±7049.4	13884.8±10097.2	10314.8±8672.8
T 3100	37816.5±19486.5	11413.8±7644.4	16105.8±11689.2	10217.9±9997.7
T 3200	38153.1±17732.9	10245.9±6886.2	16501.1±10037.1	11337.3±10933.3

TABLE S.81. Table of Vertical Choroidal Feret of Healthy Cases.

Table of Vertical Choroidal Feret of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	62.7±18.2	22.9±5.7	22.5±5.7	21.9±5.6
I 3100	63.8±18.2	23.0±5.7	22.9±5.7	22.1±5.7
I 3000	64.5±18.1	23.3±5.6	23.0±5.7	22.5±5.7
I 2900	65.0±17.8	23.4±5.5	23.3±5.6	22.5±5.5
I 2800	65.5±17.6	23.5±5.5	23.4±5.5	22.6±5.5
I 2700	65.9±17.5	23.7±5.5	23.5±5.5	22.8±5.4
I 2600	66.2±17.4	23.7±5.5	23.7±5.5	22.8±5.5
I 2500	66.3±17.3	23.8±5.5	23.7±5.5	22.9±5.3
I 2400	66.6±17.4	24.0±5.5	23.8±5.5	23.0±5.4
I 2300	67.2±17.5	24.1±5.6	24.0±5.5	23.1±5.5
I 2200	67.7±17.8	24.3±5.7	24.1±5.6	23.4±5.6
I 2100	68.3±18.0	24.4±5.7	24.3±5.7	23.5±5.6
I 2000	68.7±18.1	24.5±5.7	24.4±5.7	23.6±5.6
I 1900	68.9±18.2	24.6±5.8	24.5±5.7	23.8±5.7
I 1800	69.2±18.2	24.7±5.8	24.6±5.8	23.8±5.7
I 1700	69.6±18.3	24.7±5.9	24.7±5.8	23.9±5.8
I 1600	69.7±18.5	24.9±5.9	24.7±5.9	24.0±5.8
I 1500	70.1±18.6	25.0±6.0	24.9±5.9	24.0±5.8
I 1400	70.7±18.8	25.2±6.0	25.0±6.0	24.3±5.9
I 1300	71.0±19.0	25.3±6.0	25.2±6.0	24.3±6.0
I 1200	71.3±18.8	25.3±5.9	25.3±6.0	24.4±5.9
I 1100	71.4±18.7	25.3±5.8	25.3±5.9	24.4±5.9
I 1000	71.6±18.5	25.5±5.8	25.3±5.8	24.5±5.9
I 900	72.1±18.2	25.6±5.8	25.5±5.8	24.6±5.7
I 800	72.6±18.2	25.7±5.8	25.6±5.8	24.8±5.8
I 700	73.1±18.0	25.9±5.6	25.7±5.8	25.1±5.7
I 600	73.6±17.8	26.2±5.6	25.9±5.6	25.3±5.7
I 500	74.2±17.4	26.4±5.5	26.2±5.6	25.4±5.6
I 400	75.1±17.0	26.7±5.4	26.4±5.5	25.7±5.4
I 300	76.2±17.0	27.0±5.5	26.7±5.4	26.0±5.5
I 200	77.1±17.1	27.2±5.6	27.0±5.5	26.4±5.6
I 100	77.7±17.4	27.3±5.5	27.2±5.6	26.5±5.6
V 0	78.0±17.4	27.3±5.6	27.3±5.5	26.7±5.6
S 100	77.9±17.4	27.3±5.6	27.3±5.6	26.6±5.5
S 200	77.7±17.3	27.2±5.5	27.2±5.5	26.5±5.5

Table of Vertical Choroidal Feret of Healthy Cases (Pixel)

S 300	77.2±16.9	27.1±5.4	27.1±5.4	26.4±5.4
S 400	76.6±16.2	26.9±5.2	26.9±5.2	26.2±5.2
S 500	76.3±15.7	26.8±5.0	26.8±5.0	26.0±5.0
S 600	76.1±15.4	26.7±4.9	26.7±4.9	25.9±4.9
S 700	75.9±15.4	26.6±4.9	26.6±4.9	25.9±5.0
S 800	75.6±15.4	26.6±4.9	26.6±4.9	25.8±4.9
S 900	75.5±15.3	26.5±4.9	26.5±4.9	25.8±4.8
S 1000	75.2±15.2	26.4±4.9	26.4±4.9	25.7±4.8
S 1100	75.0±14.8	26.4±4.7	26.4±4.7	25.7±4.6
S 1200	75.1±14.4	26.4±4.6	26.4±4.6	25.7±4.6
S 1300	75.0±14.3	26.3±4.5	26.3±4.5	25.7±4.6
S 1400	74.6±14.3	26.2±4.6	26.2±4.6	25.5±4.5
S 1500	74.1±14.4	26.1±4.6	26.1±4.6	25.4±4.6
S 1600	74.1±14.4	26.1±4.6	26.1±4.6	25.3±4.5
S 1700	74.0±14.4	26.1±4.6	26.1±4.6	25.3±4.5
S 1800	73.9±14.3	26.0±4.6	26.0±4.6	25.3±4.6
S 1900	73.8±14.3	26.0±4.5	26.0±4.5	25.2±4.7
S 2000	73.7±14.4	26.0±4.6	26.0±4.6	25.2±4.6
S 2100	73.8±14.4	26.0±4.6	26.0±4.6	25.2±4.6
S 2200	73.7±14.8	26.0±4.7	26.0±4.7	25.2±4.6
S 2300	73.5±14.8	25.9±4.7	25.9±4.7	25.2±4.7
S 2400	73.4±15.2	25.8±4.8	25.8±4.8	25.1±4.8
S 2500	73.4±15.3	25.9±4.8	25.9±4.8	25.0±4.8
S 2600	73.1±15.5	25.8±4.9	25.8±4.9	25.0±5.0
S 2700	72.9±15.8	25.7±5.0	25.7±5.0	25.0±5.0
S 2800	72.6±16.0	25.6±5.1	25.6±5.1	24.9±5.1
S 2900	72.1±16.4	25.5±5.2	25.5±5.2	24.7±5.2
S 3000	71.7±17.0	25.4±5.4	25.4±5.4	24.5±5.4
S 3100	71.1±17.4	25.2±5.5	25.2±5.5	24.4±5.6
S 3200	69.7±17.8	24.7±5.7	24.7±5.7	24.0±5.5

TABLE S.82. Table of Horizontal Choroidal Feret of Healthy Cases.

Table of Horizontal Choroidal Feret of Healthy Cases (Pixel)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	42.6±13.7	17.1±4.3	16.5±4.1	15.7±4.1
N 3100	44.9±14.3	17.6±4.5	17.1±4.3	16.4±4.2
N 3000	46.7±14.9	18.3±4.7	17.6±4.5	17.0±4.5
N 2900	48.7±15.3	18.9±4.8	18.3±4.7	17.5±4.6
N 2800	50.6±15.7	19.4±4.9	18.9±4.8	18.0±4.8
N 2700	52.3±15.9	19.8±5.0	19.4±4.9	18.5±4.9
N 2600	54.0±16.1	20.2±5.0	19.8±5.0	19.1±4.9
N 2500	55.0±16.3	20.6±5.1	20.2±5.0	19.4±5.0
N 2400	56.4±16.3	20.9±5.1	20.6±5.1	19.8±5.1
N 2300	57.6±16.4	21.4±5.0	20.9±5.1	20.3±5.0
N 2200	59.1±16.2	21.7±5.1	21.4±5.0	20.6±5.1
N 2100	60.0±16.2	22.0±5.2	21.7±5.1	20.9±5.0
N 2000	61.2±16.2	22.3±5.3	22.0±5.2	21.3±4.9
N 1900	62.1±16.7	22.7±5.3	22.3±5.3	21.6±5.2
N 1800	63.2±17.0	23.0±5.4	22.7±5.3	21.9±5.4
N 1700	64.2±17.1	23.3±5.6	23.0±5.4	22.2±5.4
N 1600	65.0±17.4	23.6±5.6	23.3±5.6	22.4±5.4
N 1500	65.8±17.7	23.9±5.7	23.6±5.6	22.7±5.5
N 1400	66.9±18.1	24.1±5.8	23.9±5.7	23.0±5.8
N 1300	67.9±18.3	24.5±5.9	24.1±5.8	23.4±5.8
N 1200	68.8±18.5	24.7±5.9	24.5±5.9	23.7±5.8
N 1100	69.7±18.5	25.1±5.8	24.7±5.9	23.9±5.9
N 1000	70.7±18.5	25.4±5.9	25.1±5.8	24.2±6.0
N 900	71.9±18.4	25.7±5.9	25.4±5.9	24.7±5.8
N 800	72.9±18.5	26.0±5.9	25.7±5.9	25.0±5.9
N 700	73.6±18.5	26.1±5.9	26.0±5.9	25.2±5.9
N 600	74.2±18.5	26.3±6.0	26.1±5.9	25.4±5.9
N 500	74.7±18.6	26.5±6.1	26.3±6.0	25.5±6.0
N 400	75.4±18.8	26.7±6.2	26.5±6.1	25.8±6.0
N 300	76.1±19.0	27.0±6.2	26.7±6.2	26.0±6.0
N 200	76.8±19.3	27.2±6.3	27.0±6.2	26.1±6.2
N 100	77.6±19.5	27.3±6.2	27.2±6.3	26.5±6.2
H 0	77.9±19.4	27.4±6.1	27.3±6.2	26.6±6.2
T 100	78.2±19.3	27.4±6.1	27.4±6.1	26.6±6.2
T 200	77.9±19.2	27.4±6.1	27.4±6.1	26.6±6.2

Table of Horizontal Choroidal Feret of Healthy Cases (Pixel)

T 300	77.5±19.1	27.2±6.2	27.2±6.2	26.5±6.1
T 400	77.0±19.0	27.0±6.1	27.0±6.1	26.3±6.0
T 500	76.4±18.9	26.8±6.0	26.8±6.0	26.1±6.1
T 600	75.5±18.9	26.6±6.1	26.6±6.1	25.8±6.0
T 700	74.7±19.2	26.3±6.2	26.3±6.2	25.6±6.1
T 800	73.8±19.3	26.0±6.2	26.0±6.2	25.2±6.2
T 900	72.9±19.1	25.8±6.1	25.8±6.1	25.0±6.1
T 1000	72.1±19.0	25.5±6.0	25.5±6.0	24.6±6.1
T 1100	71.5±18.9	25.3±6.0	25.3±6.0	24.5±6.0
T 1200	71.0±19.2	25.2±6.1	25.2±6.1	24.4±6.1
T 1300	70.7±19.2	25.1±6.1	25.1±6.1	24.2±6.0
T 1400	70.4±19.4	25.0±6.2	25.0±6.2	24.1±6.1
T 1500	70.0±19.5	24.9±6.2	24.9±6.2	24.1±6.1
T 1600	69.7±19.7	24.7±6.3	24.7±6.3	24.0±6.2
T 1700	69.3±19.8	24.6±6.3	24.6±6.3	23.9±6.2
T 1800	69.1±19.8	24.5±6.3	24.5±6.3	23.8±6.2
T 1900	68.7±19.6	24.4±6.2	24.4±6.2	23.7±6.2
T 2000	68.3±19.3	24.3±6.2	24.3±6.2	23.5±6.0
T 2100	68.0±19.1	24.2±6.1	24.2±6.1	23.4±6.0
T 2200	67.5±19.0	24.0±6.0	24.0±6.0	23.3±6.0
T 2300	67.3±18.8	23.9±6.0	23.9±6.0	23.3±5.8
T 2400	66.8±18.7	23.8±5.9	23.8±5.9	23.1±5.9
T 2500	66.1±18.5	23.6±5.9	23.6±5.9	22.9±5.8
T 2600	65.1±18.2	23.3±5.8	23.3±5.8	22.4±5.7
T 2700	64.2±18.2	23.0±5.7	23.0±5.7	22.2±5.8
T 2800	63.5±18.1	22.7±5.7	22.7±5.7	22.1±5.7
T 2900	62.7±18.0	22.5±5.7	22.5±5.7	21.8±5.7
T 3000	62.0±17.9	22.3±5.6	22.3±5.6	21.6±5.7
T 3100	61.4±18.0	22.1±5.7	22.1±5.7	21.4±5.6
T 3200	59.9±18.3	21.7±5.7	21.7±5.7	20.9±5.7

TABLE S.83. Table of Vertical Choroidal Feret Angle of Healthy Cases.

Table of Vertical Choroidal Feret Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	96.5±5.4	110.0±11.3	112.5±6.5	109.9±14.0
I 3100	96.4±4.8	108.5±13.3	112.0±6.3	110.2±12.8
I 3000	96.3±4.7	111.1±7.5	111.9±6.2	108.4±14.8
I 2900	95.9±5.4	107.3±13.9	111.6±6.0	107.1±16.0
I 2800	94.9±5.9	107.5±13.4	111.4±5.9	106.0±16.5
I 2700	94.6±5.6	108.9±10.8	111.2±5.7	103.0±18.8
I 2600	95.3±5.4	108.6±11.4	111.0±5.6	105.2±17.1
I 2500	95.5±5.3	107.6±12.7	111.0±5.6	105.3±16.6
I 2400	95.3±5.5	108.5±11.0	111.0±5.6	106.1±15.8
I 2300	96.0±4.6	106.3±14.0	110.8±5.6	107.5±14.5
I 2200	95.1±5.7	107.3±12.6	110.7±5.7	104.9±16.7
I 2100	95.2±5.5	107.6±11.8	110.5±5.7	106.1±15.6
I 2000	95.2±5.4	107.4±12.0	110.4±5.7	106.1±15.2
I 1900	95.2±5.3	106.3±13.3	110.4±5.6	106.3±14.7
I 1800	94.5±5.7	106.4±12.8	110.3±5.4	104.8±15.9
I 1700	94.0±5.7	107.3±11.5	110.1±5.2	101.4±18.1
I 1600	94.9±5.1	106.9±11.8	110.1±5.1	103.6±16.6
I 1500	94.7±5.3	106.1±12.7	110.0±5.1	104.7±15.5
I 1400	93.6±5.9	106.4±12.1	109.9±5.1	102.9±16.9
I 1300	94.4±5.3	106.7±11.6	109.7±5.1	105.1±14.7
I 1200	94.3±5.3	107.1±10.9	109.6±5.0	102.3±17.1
I 1100	93.3±6.0	106.3±11.8	109.6±4.9	99.4±18.9
I 1000	94.3±5.2	107.3±9.8	109.5±4.8	103.7±15.8
I 900	94.7±5.0	106.0±11.7	109.3±4.6	104.7±14.4
I 800	93.9±5.5	107.9±8.1	109.2±4.6	105.0±14.1
I 700	94.7±4.7	106.1±10.8	109.1±4.5	104.1±14.1
I 600	94.3±5.0	105.2±11.6	108.9±4.2	105.0±13.0
I 500	93.8±5.3	106.2±9.6	108.7±4.0	103.4±14.7
I 400	94.1±4.9	106.0±9.4	108.4±3.8	103.9±13.4
I 300	94.0±4.9	106.7±7.6	108.2±3.8	103.2±14.0
I 200	94.2±4.5	106.5±7.8	108.0±3.7	103.0±13.6
I 100	93.5±5.3	105.8±9.2	107.9±3.8	102.4±14.3
V 0	93.5±5.0	103.9±11.9	107.8±3.8	102.2±14.0
S 100	91.7±5.7	103.9±11.9	107.8±3.8	96.6±17.4
S 200	90.9±6.2	105.8±9.2	107.9±3.8	93.1±18.6

Table of Vertical Choroidal Feret Angle of Healthy Cases (Degree)

S 300	90.8±6.2	106.2±8.7	107.9±3.8	93.4±18.5
S 400	91.8±5.7	103.8±12.2	108.0±3.6	95.4±18.3
S 500	91.4±6.0	104.2±11.8	108.0±3.5	95.7±17.9
S 600	91.1±6.0	103.2±12.9	108.1±3.5	94.8±18.3
S 700	90.6±6.1	103.1±13.1	108.1±3.5	93.9±18.7
S 800	90.7±6.1	100.4±15.4	108.2±3.5	95.5±18.4
S 900	90.5±6.2	102.0±14.2	108.2±3.7	94.5±18.6
S 1000	90.6±6.4	101.6±14.8	108.3±3.8	95.3±18.5
S 1100	90.1±6.1	97.9±17.0	108.3±3.7	94.3±18.9
S 1200	90.5±6.0	97.3±17.2	108.3±3.6	97.6±17.5
S 1300	89.1±6.2	96.8±17.4	108.3±3.6	92.9±19.1
S 1400	88.4±5.9	98.1±17.0	108.4±3.6	89.8±19.3
S 1500	88.7±6.0	96.1±17.9	108.5±3.6	90.3±19.3
S 1600	88.9±6.0	94.6±18.3	108.5±3.5	91.1±19.4
S 1700	87.9±5.8	92.1±18.8	108.5±3.6	89.9±19.5
S 1800	88.4±6.2	93.6±18.6	108.5±3.5	90.8±19.6
S 1900	88.7±5.9	91.5±18.9	108.5±3.5	94.3±19.1
S 2000	88.5±5.9	93.3±18.7	108.6±3.5	91.4±19.6
S 2100	87.3±5.4	88.6±18.9	108.5±3.5	90.7±19.6
S 2200	87.7±5.6	91.4±19.0	108.6±3.6	88.6±19.5
S 2300	87.1±5.5	87.5±18.9	108.7±3.6	89.2±19.7
S 2400	87.5±5.8	91.3±19.2	108.7±3.8	89.4±19.8
S 2500	86.9±5.0	87.2±18.9	108.7±3.8	86.8±19.3
S 2600	86.2±5.1	83.2±18.0	108.8±3.8	84.4±19.2
S 2700	86.8±5.8	85.6±18.9	108.9±4.1	84.9±19.2
S 2800	86.2±5.3	83.8±18.6	109.0±4.1	84.7±19.4
S 2900	85.7±4.9	83.3±18.5	109.1±4.2	84.8±19.8
S 3000	85.6±5.1	83.7±19.0	109.3±4.6	84.3±19.8
S 3100	85.3±5.0	82.6±19.0	109.6±5.1	80.3±18.5
S 3200	85.3±5.0	90.4±20.9	110.1±5.3	75.8±16.1

TABLE S.84. Table of Horizontal Choroidal Feret Angle of Healthy Cases.

Table of Horizontal Choroidal Feret Angle of Healthy Cases (Degree)				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	90.4±11.5	104.1±27.6	120.3±10.6	96.0±33.8
N 3100	91.3±11.1	103.9±26.6	120.0±7.7	97.1±31.7
N 3000	91.3±10.8	101.4±26.5	119.0±7.3	98.3±30.5
N 2900	91.2±10.2	100.4±25.8	117.8±7.0	96.3±29.9
N 2800	91.3±9.9	102.5±24.1	116.8±7.0	97.9±28.4
N 2700	90.5±9.6	98.6±25.1	116.1±6.9	96.1±28.2
N 2600	91.0±9.5	99.4±24.1	115.5±6.7	94.6±27.3
N 2500	90.6±9.0	99.5±23.4	115.0±6.4	95.3±26.7
N 2400	90.6±8.9	101.3±22.1	114.4±6.1	94.6±25.9
N 2300	90.2±8.8	95.3±23.4	114.0±6.1	93.6±25.5
N 2200	90.4±8.0	100.5±21.2	113.2±5.6	96.6±24.5
N 2100	89.6±8.2	99.9±21.1	112.9±5.6	92.0±24.7
N 2000	90.0±8.2	101.5±19.9	112.6±5.4	96.5±23.2
N 1900	90.5±7.9	99.5±20.4	112.2±5.3	93.0±23.7
N 1800	90.2±7.9	103.0±17.9	111.9±5.1	92.0±23.4
N 1700	90.9±7.7	101.0±18.9	111.5±4.9	96.0±22.3
N 1600	91.2±7.3	104.3±16.2	111.2±4.9	95.3±22.1
N 1500	90.6±7.2	97.2±20.1	111.0±4.8	92.6±22.4
N 1400	90.3±7.4	100.9±18.1	110.7±4.8	94.5±21.8
N 1300	90.7±7.2	100.7±17.9	110.5±4.8	95.8±21.0
N 1200	91.7±7.0	99.9±18.0	110.2±4.7	97.3±20.3
N 1100	90.3±6.9	103.7±14.8	109.9±4.5	93.2±21.1
N 1000	91.5±6.8	103.4±14.6	109.6±4.2	95.5±20.3
N 900	91.2±6.7	102.8±14.7	109.3±4.1	94.0±20.1
N 800	90.3±6.7	102.8±14.5	109.1±4.0	92.5±20.1
N 700	91.0±6.4	102.3±14.7	108.8±3.9	94.7±19.5
N 600	91.5±6.4	104.6±12.2	108.7±3.9	95.8±18.9
N 500	91.2±6.4	103.7±13.1	108.6±3.9	95.1±19.1
N 400	90.7±6.4	104.1±12.4	108.5±4.0	94.2±19.0
N 300	91.1±6.3	104.6±11.6	108.3±4.0	95.6±18.5
N 200	91.8±6.2	104.0±12.2	108.2±4.1	97.2±17.9
N 100	91.6±6.0	105.3±10.3	108.1±4.1	95.8±18.1
H 0	92.6±5.8	104.7±11.0	108.0±4.0	99.5±16.4
T 100	92.4±5.7	104.7±11.0	107.9±4.0	99.7±16.2
T 200	91.7±5.8	104.8±10.8	107.9±4.0	95.0±18.2

Table of Horizontal Choroidal Feret Angle of Healthy Cases (Degree)

T 300	91.2±6.1	103.3±12.8	108.0±4.0	95.9±18.0
T 400	91.1±6.2	102.9±13.4	108.1±4.0	94.2±18.6
T 500	90.7±6.4	102.5±14.0	108.2±4.0	94.2±19.0
T 600	90.6±6.4	102.9±13.9	108.5±4.1	93.4±19.3
T 700	90.0±6.4	102.8±14.4	108.7±4.4	92.2±19.6
T 800	91.7±6.6	104.6±12.9	108.9±4.4	95.5±19.5
T 900	90.8±6.8	100.1±17.0	109.2±4.5	95.0±19.8
T 1000	90.2±6.9	100.4±16.9	109.3±4.5	93.3±20.6
T 1100	91.2±6.7	101.8±16.3	109.5±4.7	95.3±20.1
T 1200	91.4±6.9	99.7±17.9	109.7±4.8	97.5±19.7
T 1300	91.4±6.8	98.4±18.7	109.8±4.9	99.0±19.2
T 1400	90.9±7.1	96.0±19.8	109.9±5.1	97.6±20.1
T 1500	91.2±7.1	98.0±19.2	110.1±5.3	96.9±20.5
T 1600	91.5±6.9	98.2±19.4	110.2±5.5	97.1±20.5
T 1700	91.2±7.1	95.9±20.3	110.3±5.5	97.9±20.4
T 1800	91.6±7.0	96.3±20.3	110.4±5.6	99.4±19.9
T 1900	90.6±7.3	95.9±20.5	110.5±5.7	98.5±20.3
T 2000	90.7±7.4	98.7±19.6	110.6±5.5	96.1±21.3
T 2100	90.3±7.4	96.8±20.3	110.7±5.3	95.6±21.6
T 2200	90.7±7.4	98.8±19.5	110.7±5.2	96.7±21.4
T 2300	90.3±7.5	94.5±21.1	110.9±5.2	97.7±20.7
T 2400	90.3±7.5	96.1±20.8	110.9±5.1	94.7±21.9
T 2500	90.6±7.5	96.3±20.9	111.1±5.2	95.0±22.0
T 2600	90.3±7.7	96.4±21.2	111.4±5.3	95.0±22.5
T 2700	90.7±7.8	95.0±21.9	111.7±5.3	94.5±22.9
T 2800	90.9±8.0	96.6±21.8	112.0±5.4	95.5±22.9
T 2900	90.3±7.9	97.1±21.8	112.2±5.5	91.8±23.9
T 3000	90.5±8.0	95.6±22.5	112.4±5.5	94.4±23.8
T 3100	90.1±8.3	94.2±23.2	112.7±5.8	91.7±24.3
T 3200	90.0±8.6	101.2±21.4	113.3±6.3	92.2±25.1

TABLE S.85. Table of Vertical Choroidal Circularity of Healthy Cases.

Table of Vertical Choroidal Circularity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.34±0.08	0.60±0.06	0.63±0.08	0.66±0.09
I 3100	0.33±0.08	0.60±0.06	0.63±0.08	0.66±0.09
I 3000	0.33±0.08	0.60±0.07	0.63±0.08	0.66±0.09
I 2900	0.33±0.08	0.59±0.06	0.62±0.08	0.66±0.09
I 2800	0.33±0.08	0.59±0.07	0.62±0.08	0.66±0.09
I 2700	0.32±0.08	0.59±0.07	0.62±0.07	0.65±0.08
I 2600	0.32±0.07	0.59±0.07	0.62±0.07	0.66±0.09
I 2500	0.32±0.07	0.59±0.07	0.62±0.07	0.65±0.08
I 2400	0.32±0.07	0.59±0.07	0.62±0.07	0.65±0.08
I 2300	0.32±0.07	0.59±0.07	0.61±0.07	0.65±0.08
I 2200	0.32±0.08	0.59±0.07	0.61±0.07	0.64±0.09
I 2100	0.32±0.08	0.58±0.06	0.61±0.07	0.65±0.09
I 2000	0.31±0.08	0.58±0.07	0.61±0.07	0.64±0.09
I 1900	0.31±0.08	0.58±0.07	0.61±0.07	0.64±0.09
I 1800	0.31±0.07	0.58±0.07	0.61±0.08	0.64±0.08
I 1700	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.08
I 1600	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.09
I 1500	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.08
I 1400	0.30±0.07	0.58±0.07	0.60±0.08	0.63±0.09
I 1300	0.30±0.07	0.57±0.07	0.60±0.08	0.63±0.09
I 1200	0.30±0.07	0.57±0.07	0.60±0.08	0.63±0.08
I 1100	0.30±0.07	0.58±0.07	0.60±0.07	0.63±0.08
I 1000	0.30±0.06	0.57±0.07	0.60±0.07	0.63±0.08
I 900	0.30±0.06	0.57±0.07	0.59±0.07	0.63±0.08
I 800	0.30±0.06	0.57±0.07	0.59±0.07	0.62±0.08
I 700	0.29±0.06	0.57±0.07	0.59±0.07	0.62±0.08
I 600	0.29±0.06	0.57±0.06	0.59±0.07	0.61±0.08
I 500	0.29±0.06	0.57±0.06	0.58±0.07	0.62±0.08
I 400	0.29±0.05	0.56±0.06	0.58±0.07	0.61±0.07
I 300	0.28±0.05	0.56±0.06	0.58±0.06	0.60±0.08
I 200	0.28±0.05	0.56±0.06	0.57±0.06	0.60±0.07
I 100	0.28±0.05	0.56±0.06	0.57±0.07	0.60±0.08
V 0	0.28±0.05	0.56±0.06	0.57±0.07	0.59±0.07
S 100	0.28±0.05	0.56±0.06	0.57±0.07	0.60±0.07
S 200	0.28±0.05	0.56±0.06	0.57±0.07	0.60±0.08

Table of Vertical Choroidal Circularity of Healthy Cases

S 300	0.28±0.05	0.56±0.06	0.57±0.06	0.60±0.07
S 400	0.28±0.05	0.56±0.06	0.57±0.06	0.60±0.07
S 500	0.28±0.05	0.56±0.05	0.58±0.06	0.60±0.07
S 600	0.28±0.05	0.56±0.05	0.58±0.06	0.60±0.07
S 700	0.28±0.05	0.56±0.05	0.58±0.06	0.60±0.07
S 800	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 900	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 1000	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 1100	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 1200	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 1300	0.28±0.05	0.56±0.05	0.58±0.06	0.61±0.06
S 1400	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.06
S 1500	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.06
S 1600	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.06
S 1700	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.06
S 1800	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 1900	0.29±0.05	0.56±0.05	0.58±0.06	0.61±0.07
S 2000	0.29±0.05	0.56±0.05	0.59±0.06	0.61±0.07
S 2100	0.29±0.05	0.56±0.05	0.58±0.06	0.62±0.06
S 2200	0.29±0.05	0.56±0.05	0.59±0.06	0.62±0.06
S 2300	0.29±0.05	0.57±0.05	0.59±0.06	0.62±0.07
S 2400	0.29±0.05	0.57±0.05	0.59±0.06	0.62±0.07
S 2500	0.29±0.05	0.57±0.05	0.59±0.06	0.62±0.07
S 2600	0.29±0.05	0.57±0.05	0.59±0.06	0.62±0.07
S 2700	0.29±0.05	0.57±0.06	0.59±0.06	0.62±0.07
S 2800	0.29±0.06	0.57±0.06	0.59±0.06	0.62±0.07
S 2900	0.30±0.06	0.57±0.06	0.59±0.07	0.63±0.08
S 3000	0.30±0.06	0.57±0.06	0.59±0.07	0.63±0.08
S 3100	0.30±0.07	0.58±0.06	0.60±0.07	0.63±0.08
S 3200	0.31±0.07	0.59±0.07	0.60±0.07	0.64±0.08

TABLE S.86. Table of Horizontal Choroidal Circularity of Healthy Cases.

Table of Horizontal Choroidal Circularity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	0.45±0.09	0.67±0.05	0.72±0.06	0.76±0.07
N 3100	0.43±0.09	0.66±0.05	0.71±0.06	0.76±0.07
N 3000	0.42±0.09	0.65±0.05	0.70±0.06	0.75±0.08
N 2900	0.41±0.09	0.64±0.05	0.69±0.07	0.73±0.09
N 2800	0.40±0.10	0.64±0.06	0.68±0.07	0.73±0.08
N 2700	0.39±0.09	0.64±0.06	0.68±0.07	0.72±0.08
N 2600	0.38±0.09	0.63±0.06	0.67±0.07	0.71±0.08
N 2500	0.37±0.08	0.63±0.06	0.67±0.07	0.71±0.08
N 2400	0.37±0.08	0.62±0.06	0.66±0.07	0.71±0.08
N 2300	0.36±0.07	0.62±0.06	0.66±0.07	0.69±0.08
N 2200	0.35±0.08	0.62±0.06	0.65±0.07	0.69±0.08
N 2100	0.35±0.07	0.61±0.06	0.64±0.07	0.69±0.08
N 2000	0.34±0.07	0.61±0.06	0.64±0.07	0.67±0.09
N 1900	0.34±0.07	0.61±0.07	0.64±0.07	0.68±0.08
N 1800	0.33±0.07	0.60±0.07	0.63±0.07	0.67±0.08
N 1700	0.33±0.06	0.60±0.06	0.63±0.07	0.67±0.08
N 1600	0.32±0.06	0.60±0.06	0.62±0.07	0.66±0.08
N 1500	0.32±0.07	0.59±0.06	0.62±0.07	0.66±0.09
N 1400	0.32±0.07	0.59±0.07	0.62±0.07	0.65±0.08
N 1300	0.31±0.06	0.58±0.07	0.61±0.07	0.65±0.08
N 1200	0.31±0.07	0.58±0.07	0.61±0.07	0.64±0.09
N 1100	0.31±0.06	0.58±0.06	0.60±0.07	0.64±0.08
N 1000	0.30±0.06	0.58±0.07	0.60±0.07	0.64±0.08
N 900	0.30±0.06	0.57±0.07	0.59±0.07	0.63±0.08
N 800	0.29±0.05	0.57±0.06	0.59±0.07	0.62±0.08
N 700	0.29±0.05	0.57±0.06	0.59±0.07	0.62±0.08
N 600	0.29±0.06	0.57±0.06	0.59±0.07	0.62±0.08
N 500	0.29±0.05	0.57±0.07	0.58±0.07	0.62±0.08
N 400	0.29±0.05	0.57±0.07	0.58±0.07	0.61±0.08
N 300	0.29±0.06	0.56±0.07	0.58±0.07	0.61±0.08
N 200	0.28±0.05	0.56±0.07	0.58±0.07	0.61±0.08
N 100	0.28±0.06	0.56±0.07	0.57±0.07	0.60±0.07
H 0	0.28±0.05	0.56±0.07	0.57±0.07	0.60±0.08
T 100	0.28±0.06	0.56±0.07	0.57±0.07	0.60±0.08
T 200	0.28±0.05	0.56±0.07	0.57±0.07	0.60±0.08

Table of Horizontal Choroidal Circularity of Healthy Cases

T 300	0.28±0.06	0.56±0.06	0.57±0.07	0.60±0.08
T 400	0.28±0.05	0.56±0.06	0.58±0.07	0.60±0.08
T 500	0.28±0.05	0.56±0.06	0.58±0.07	0.61±0.08
T 600	0.29±0.06	0.56±0.06	0.58±0.07	0.61±0.08
T 700	0.29±0.06	0.56±0.06	0.58±0.07	0.61±0.08
T 800	0.29±0.06	0.57±0.06	0.59±0.07	0.62±0.08
T 900	0.30±0.06	0.57±0.07	0.59±0.07	0.62±0.08
T 1000	0.30±0.06	0.57±0.06	0.59±0.07	0.63±0.09
T 1100	0.30±0.06	0.58±0.07	0.60±0.07	0.63±0.08
T 1200	0.30±0.06	0.58±0.07	0.60±0.07	0.63±0.09
T 1300	0.31±0.07	0.58±0.07	0.60±0.08	0.63±0.09
T 1400	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.09
T 1500	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.09
T 1600	0.31±0.07	0.58±0.07	0.60±0.08	0.64±0.09
T 1700	0.31±0.07	0.58±0.07	0.61±0.08	0.64±0.09
T 1800	0.31±0.08	0.58±0.07	0.61±0.08	0.64±0.09
T 1900	0.31±0.07	0.58±0.07	0.61±0.08	0.64±0.09
T 2000	0.32±0.07	0.59±0.07	0.61±0.08	0.65±0.09
T 2100	0.32±0.07	0.59±0.07	0.61±0.08	0.65±0.09
T 2200	0.32±0.07	0.59±0.07	0.61±0.08	0.65±0.09
T 2300	0.32±0.07	0.59±0.07	0.62±0.08	0.64±0.08
T 2400	0.32±0.07	0.59±0.07	0.62±0.08	0.65±0.08
T 2500	0.32±0.07	0.59±0.07	0.62±0.08	0.65±0.08
T 2600	0.32±0.07	0.60±0.07	0.62±0.07	0.66±0.08
T 2700	0.33±0.07	0.60±0.06	0.63±0.07	0.67±0.09
T 2800	0.33±0.07	0.60±0.06	0.63±0.07	0.66±0.08
T 2900	0.34±0.07	0.61±0.06	0.63±0.07	0.67±0.09
T 3000	0.34±0.08	0.61±0.06	0.64±0.07	0.68±0.09
T 3100	0.34±0.08	0.61±0.07	0.64±0.07	0.68±0.09
T 3200	0.35±0.08	0.62±0.07	0.65±0.08	0.68±0.09

TABLE S.87. Table of Vertical Choroidal Aspect Ratio of Healthy Cases.

Table of Vertical Choroidal Aspect Ratio of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
I 3200	7.6 $\pm$ 2.3	2.5 $\pm$ 0.8	2.6 $\pm$ 0.8	2.5 $\pm$ 0.8
I 3100	7.7 $\pm$ 2.3	2.5 $\pm$ 0.8	2.7 $\pm$ 0.8	2.5 $\pm$ 0.8
I 3000	7.8 $\pm$ 2.3	2.6 $\pm$ 0.8	2.7 $\pm$ 0.8	2.6 $\pm$ 0.8
I 2900	7.9 $\pm$ 2.3	2.6 $\pm$ 0.7	2.7 $\pm$ 0.8	2.6 $\pm$ 0.8
I 2800	7.9 $\pm$ 2.2	2.6 $\pm$ 0.7	2.7 $\pm$ 0.7	2.6 $\pm$ 0.7
I 2700	8.0 $\pm$ 2.2	2.6 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.7
I 2600	8.0 $\pm$ 2.2	2.6 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.7
I 2500	8.1 $\pm$ 2.2	2.6 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.7
I 2400	8.1 $\pm$ 2.2	2.7 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.7
I 2300	8.2 $\pm$ 2.2	2.7 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.8
I 2200	8.2 $\pm$ 2.2	2.7 $\pm$ 0.7	2.8 $\pm$ 0.7	2.7 $\pm$ 0.7
I 2100	8.3 $\pm$ 2.2	2.7 $\pm$ 0.8	2.9 $\pm$ 0.8	2.7 $\pm$ 0.7
I 2000	8.4 $\pm$ 2.3	2.7 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.7
I 1900	8.4 $\pm$ 2.3	2.8 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.8
I 1800	8.5 $\pm$ 2.3	2.8 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.8
I 1700	8.5 $\pm$ 2.3	2.8 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.8
I 1600	8.5 $\pm$ 2.3	2.8 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.8
I 1500	8.6 $\pm$ 2.3	2.8 $\pm$ 0.8	2.9 $\pm$ 0.8	2.8 $\pm$ 0.8
I 1400	8.6 $\pm$ 2.4	2.8 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 1300	8.7 $\pm$ 2.4	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 1200	8.7 $\pm$ 2.4	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 1100	8.7 $\pm$ 2.3	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 1000	8.8 $\pm$ 2.3	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 900	8.8 $\pm$ 2.3	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 800	8.9 $\pm$ 2.3	2.9 $\pm$ 0.8	3.0 $\pm$ 0.8	2.9 $\pm$ 0.8
I 700	9.0 $\pm$ 2.3	3.0 $\pm$ 0.7	3.0 $\pm$ 0.8	3.0 $\pm$ 0.8
I 600	9.1 $\pm$ 2.2	3.0 $\pm$ 0.7	3.1 $\pm$ 0.7	3.0 $\pm$ 0.8
I 500	9.1 $\pm$ 2.2	3.1 $\pm$ 0.7	3.1 $\pm$ 0.7	3.0 $\pm$ 0.7
I 400	9.2 $\pm$ 2.2	3.1 $\pm$ 0.7	3.1 $\pm$ 0.7	3.0 $\pm$ 0.7
I 300	9.4 $\pm$ 2.2	3.1 $\pm$ 0.7	3.2 $\pm$ 0.7	3.1 $\pm$ 0.7
I 200	9.5 $\pm$ 2.2	3.2 $\pm$ 0.7	3.2 $\pm$ 0.7	3.1 $\pm$ 0.7
I 100	9.6 $\pm$ 2.2	3.2 $\pm$ 0.7	3.2 $\pm$ 0.7	3.2 $\pm$ 0.7
V 0	9.6 $\pm$ 2.2	3.2 $\pm$ 0.7	3.3 $\pm$ 0.7	3.2 $\pm$ 0.7
S 100	9.6 $\pm$ 2.2	3.2 $\pm$ 0.7	3.3 $\pm$ 0.7	3.2 $\pm$ 0.7
S 200	9.6 $\pm$ 2.2	3.2 $\pm$ 0.7	3.2 $\pm$ 0.7	3.2 $\pm$ 0.7

Table of Vertical Choroidal Aspect Ratio of Healthy Cases

S 300	9.5±2.1	3.1±0.7	3.2±0.7	3.1±0.7
S 400	9.4±2.1	3.1±0.7	3.2±0.7	3.1±0.7
S 500	9.4±2.0	3.1±0.7	3.2±0.7	3.1±0.7
S 600	9.4±1.9	3.1±0.7	3.2±0.6	3.1±0.6
S 700	9.3±1.9	3.1±0.7	3.2±0.6	3.1±0.6
S 800	9.3±1.9	3.1±0.7	3.2±0.6	3.1±0.6
S 900	9.3±1.9	3.0±0.7	3.2±0.6	3.1±0.6
S 1000	9.2±1.9	3.0±0.6	3.1±0.6	3.1±0.6
S 1100	9.2±1.9	3.0±0.6	3.1±0.6	3.1±0.6
S 1200	9.2±1.8	3.0±0.6	3.1±0.6	3.1±0.6
S 1300	9.2±1.8	3.0±0.6	3.1±0.6	3.1±0.6
S 1400	9.2±1.8	3.0±0.6	3.1±0.6	3.0±0.6
S 1500	9.1±1.8	3.0±0.6	3.1±0.6	3.0±0.6
S 1600	9.1±1.8	3.0±0.6	3.1±0.6	3.0±0.6
S 1700	9.1±1.8	3.0±0.6	3.1±0.6	3.0±0.6
S 1800	9.0±1.8	2.9±0.6	3.1±0.6	3.0±0.6
S 1900	9.0±1.8	2.9±0.6	3.1±0.6	3.0±0.6
S 2000	9.0±1.8	2.9±0.6	3.1±0.6	3.0±0.6
S 2100	9.0±1.8	2.9±0.6	3.1±0.6	3.0±0.6
S 2200	9.0±1.9	2.9±0.6	3.1±0.6	3.0±0.6
S 2300	9.0±1.9	2.9±0.6	3.1±0.6	3.0±0.6
S 2400	9.0±1.9	2.9±0.6	3.1±0.6	3.0±0.6
S 2500	9.0±1.9	2.9±0.6	3.1±0.6	3.0±0.6
S 2600	8.9±1.9	2.9±0.6	3.1±0.6	3.0±0.7
S 2700	8.9±2.0	2.9±0.7	3.0±0.7	3.0±0.7
S 2800	8.8±2.0	2.9±0.7	3.0±0.7	2.9±0.7
S 2900	8.8±2.1	2.9±0.7	3.0±0.7	2.9±0.7
S 3000	8.7±2.1	2.8±0.7	3.0±0.7	2.9±0.7
S 3100	8.6±2.2	2.8±0.7	3.0±0.7	2.9±0.7
S 3200	8.5±2.2	2.8±0.7	2.9±0.8	2.8±0.7

TABLE S.88. Table of Horizontal Choroidal Aspect Ratio of Healthy Cases.

Table of Horizontal Choroidal Aspect Ratio of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
N 3200	5.1±1.7	1.8±0.6	1.8±0.6	1.7±0.5
N 3100	5.4±1.8	1.8±0.6	1.9±0.6	1.8±0.6
N 3000	5.6±1.8	1.9±0.6	1.9±0.6	1.9±0.6
N 2900	5.8±1.9	2.0±0.6	2.0±0.6	1.9±0.6
N 2800	6.1±2.0	2.0±0.7	2.1±0.7	2.0±0.6
N 2700	6.3±2.0	2.1±0.7	2.2±0.7	2.1±0.6
N 2600	6.5±2.0	2.2±0.7	2.3±0.7	2.2±0.7
N 2500	6.7±2.0	2.2±0.7	2.3±0.7	2.2±0.7
N 2400	6.8±2.1	2.3±0.7	2.4±0.7	2.2±0.7
N 2300	7.0±2.1	2.3±0.7	2.4±0.7	2.3±0.7
N 2200	7.2±2.0	2.4±0.7	2.5±0.7	2.4±0.7
N 2100	7.3±2.0	2.4±0.7	2.5±0.7	2.4±0.7
N 2000	7.4±2.0	2.5±0.7	2.6±0.7	2.5±0.7
N 1900	7.5±2.1	2.5±0.7	2.6±0.7	2.5±0.7
N 1800	7.7±2.1	2.6±0.7	2.6±0.7	2.5±0.7
N 1700	7.8±2.1	2.6±0.7	2.7±0.7	2.6±0.7
N 1600	7.9±2.2	2.6±0.7	2.7±0.7	2.6±0.7
N 1500	8.0±2.2	2.7±0.8	2.8±0.7	2.7±0.7
N 1400	8.2±2.3	2.7±0.8	2.8±0.8	2.7±0.8
N 1300	8.3±2.3	2.7±0.8	2.8±0.8	2.7±0.8
N 1200	8.4±2.3	2.8±0.8	2.9±0.8	2.8±0.8
N 1100	8.5±2.3	2.8±0.8	2.9±0.8	2.8±0.8
N 1000	8.7±2.3	2.9±0.8	3.0±0.8	2.8±0.8
N 900	8.8±2.3	2.9±0.8	3.0±0.8	2.9±0.8
N 800	9.0±2.3	3.0±0.8	3.0±0.8	3.0±0.8
N 700	9.0±2.3	3.0±0.8	3.1±0.8	3.0±0.8
N 600	9.1±2.3	3.0±0.8	3.1±0.8	3.0±0.8
N 500	9.2±2.3	3.1±0.8	3.1±0.8	3.0±0.8
N 400	9.3±2.4	3.1±0.8	3.1±0.8	3.1±0.8
N 300	9.4±2.4	3.1±0.8	3.2±0.8	3.1±0.8
N 200	9.5±2.4	3.2±0.8	3.2±0.8	3.1±0.8
N 100	9.6±2.4	3.2±0.8	3.2±0.8	3.2±0.8
H 0	9.6±2.4	3.2±0.8	3.3±0.8	3.2±0.8
T 100	9.7±2.4	3.2±0.8	3.3±0.8	3.2±0.8
T 200	9.6±2.4	3.2±0.8	3.3±0.8	3.2±0.8

Table of Horizontal Choroidal Aspect Ratio of Healthy Cases

T 300	9.6±2.4	3.2±0.8	3.2±0.8	3.2±0.8
T 400	9.5±2.4	3.1±0.8	3.2±0.8	3.1±0.8
T 500	9.4±2.4	3.1±0.8	3.2±0.8	3.1±0.8
T 600	9.3±2.4	3.1±0.8	3.2±0.8	3.1±0.8
T 700	9.2±2.4	3.0±0.8	3.1±0.8	3.0±0.8
T 800	9.1±2.4	3.0±0.8	3.1±0.8	3.0±0.8
T 900	8.9±2.4	2.9±0.8	3.1±0.8	3.0±0.8
T 1000	8.8±2.4	2.9±0.8	3.0±0.8	2.9±0.8
T 1100	8.8±2.4	2.9±0.8	3.0±0.8	2.9±0.8
T 1200	8.7±2.4	2.8±0.8	3.0±0.8	2.9±0.8
T 1300	8.7±2.4	2.8±0.8	3.0±0.8	2.9±0.8
T 1400	8.6±2.4	2.8±0.8	3.0±0.8	2.8±0.8
T 1500	8.6±2.5	2.8±0.8	2.9±0.8	2.8±0.8
T 1600	8.5±2.5	2.8±0.8	2.9±0.8	2.8±0.8
T 1700	8.5±2.5	2.7±0.8	2.9±0.8	2.8±0.8
T 1800	8.4±2.5	2.7±0.8	2.9±0.8	2.8±0.8
T 1900	8.4±2.5	2.7±0.8	2.9±0.8	2.8±0.8
T 2000	8.3±2.4	2.7±0.8	2.9±0.8	2.8±0.8
T 2100	8.3±2.4	2.7±0.8	2.8±0.8	2.8±0.8
T 2200	8.2±2.4	2.7±0.8	2.8±0.8	2.7±0.8
T 2300	8.2±2.4	2.6±0.8	2.8±0.8	2.7±0.8
T 2400	8.1±2.4	2.6±0.8	2.8±0.8	2.7±0.8
T 2500	8.0±2.3	2.6±0.8	2.8±0.8	2.7±0.8
T 2600	7.9±2.3	2.6±0.8	2.7±0.8	2.6±0.8
T 2700	7.8±2.3	2.5±0.8	2.7±0.8	2.6±0.8
T 2800	7.7±2.3	2.5±0.7	2.6±0.8	2.6±0.8
T 2900	7.6±2.3	2.5±0.8	2.6±0.8	2.5±0.8
T 3000	7.5±2.3	2.4±0.7	2.6±0.7	2.5±0.8
T 3100	7.4±2.3	2.4±0.7	2.6±0.8	2.5±0.7
T 3200	7.2±2.3	2.4±0.8	2.5±0.8	2.4±0.8

TABLE S.89. Table of Vertical Choroidal Roundness of Healthy Cases.

Table of Vertical Choroidal Roundness of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
I 3200	0.15±0.05	0.45±0.16	0.42±0.14	0.45±0.15
I 3100	0.14±0.05	0.44±0.15	0.41±0.14	0.43±0.14
I 3000	0.14±0.05	0.43±0.15	0.41±0.13	0.43±0.15
I 2900	0.14±0.05	0.43±0.15	0.40±0.13	0.42±0.14
I 2800	0.14±0.05	0.42±0.14	0.40±0.13	0.41±0.13
I 2700	0.14±0.04	0.42±0.13	0.39±0.12	0.41±0.13
I 2600	0.14±0.04	0.41±0.13	0.39±0.12	0.41±0.13
I 2500	0.13±0.04	0.41±0.13	0.39±0.12	0.41±0.13
I 2400	0.13±0.04	0.41±0.13	0.39±0.12	0.41±0.13
I 2300	0.13±0.04	0.40±0.12	0.38±0.12	0.41±0.13
I 2200	0.13±0.04	0.40±0.13	0.38±0.12	0.40±0.13
I 2100	0.13±0.04	0.40±0.13	0.38±0.12	0.39±0.12
I 2000	0.13±0.04	0.40±0.12	0.38±0.12	0.39±0.12
I 1900	0.13±0.04	0.40±0.13	0.38±0.12	0.39±0.12
I 1800	0.13±0.04	0.39±0.12	0.37±0.11	0.38±0.11
I 1700	0.13±0.04	0.39±0.12	0.37±0.11	0.38±0.11
I 1600	0.13±0.04	0.39±0.12	0.37±0.10	0.38±0.11
I 1500	0.13±0.04	0.39±0.12	0.37±0.10	0.38±0.11
I 1400	0.13±0.04	0.38±0.12	0.36±0.10	0.38±0.11
I 1300	0.12±0.04	0.38±0.12	0.36±0.10	0.38±0.12
I 1200	0.12±0.04	0.38±0.11	0.36±0.10	0.38±0.11
I 1100	0.12±0.04	0.38±0.11	0.36±0.10	0.37±0.11
I 1000	0.12±0.03	0.37±0.10	0.36±0.10	0.37±0.11
I 900	0.12±0.03	0.37±0.10	0.35±0.09	0.37±0.10
I 800	0.12±0.03	0.36±0.10	0.35±0.09	0.36±0.10
I 700	0.12±0.03	0.36±0.09	0.35±0.09	0.36±0.09
I 600	0.12±0.03	0.35±0.09	0.34±0.08	0.35±0.09
I 500	0.12±0.03	0.35±0.08	0.34±0.08	0.35±0.09
I 400	0.11±0.03	0.34±0.08	0.33±0.08	0.35±0.08
I 300	0.11±0.03	0.34±0.08	0.33±0.07	0.34±0.08
I 200	0.11±0.03	0.33±0.08	0.33±0.07	0.34±0.08
I 100	0.11±0.03	0.33±0.08	0.32±0.07	0.33±0.08
V 0	0.11±0.03	0.33±0.08	0.32±0.07	0.33±0.08
S 100	0.11±0.03	0.33±0.08	0.32±0.08	0.33±0.08
S 200	0.11±0.03	0.33±0.08	0.32±0.07	0.33±0.08

Table of Vertical Choroidal Roundness of Healthy Cases

S 300	0.11±0.03	0.34±0.08	0.33±0.07	0.33±0.08
S 400	0.11±0.02	0.34±0.08	0.33±0.07	0.34±0.08
S 500	0.11±0.02	0.34±0.08	0.33±0.07	0.34±0.07
S 600	0.11±0.02	0.34±0.08	0.33±0.07	0.34±0.07
S 700	0.11±0.02	0.34±0.08	0.33±0.07	0.34±0.07
S 800	0.11±0.02	0.34±0.08	0.33±0.07	0.34±0.08
S 900	0.11±0.03	0.35±0.08	0.33±0.07	0.34±0.08
S 1000	0.11±0.03	0.35±0.08	0.33±0.08	0.34±0.08
S 1100	0.11±0.03	0.35±0.08	0.33±0.08	0.34±0.08
S 1200	0.11±0.02	0.35±0.08	0.33±0.07	0.34±0.08
S 1300	0.11±0.02	0.35±0.08	0.33±0.07	0.34±0.07
S 1400	0.11±0.03	0.35±0.08	0.33±0.07	0.34±0.07
S 1500	0.11±0.02	0.35±0.08	0.34±0.07	0.35±0.08
S 1600	0.11±0.02	0.35±0.08	0.34±0.07	0.35±0.07
S 1700	0.11±0.02	0.35±0.08	0.34±0.07	0.35±0.07
S 1800	0.12±0.02	0.35±0.08	0.34±0.07	0.35±0.08
S 1900	0.12±0.02	0.35±0.08	0.34±0.07	0.35±0.08
S 2000	0.12±0.02	0.36±0.08	0.34±0.07	0.35±0.08
S 2100	0.12±0.02	0.36±0.08	0.34±0.07	0.35±0.08
S 2200	0.12±0.03	0.36±0.08	0.34±0.07	0.35±0.08
S 2300	0.12±0.03	0.36±0.08	0.34±0.07	0.35±0.08
S 2400	0.12±0.03	0.36±0.08	0.34±0.08	0.35±0.08
S 2500	0.12±0.03	0.36±0.09	0.34±0.08	0.35±0.08
S 2600	0.12±0.03	0.36±0.09	0.34±0.08	0.36±0.09
S 2700	0.12±0.03	0.37±0.09	0.35±0.08	0.36±0.09
S 2800	0.12±0.03	0.37±0.09	0.35±0.08	0.36±0.09
S 2900	0.12±0.03	0.37±0.09	0.35±0.08	0.37±0.10
S 3000	0.12±0.04	0.38±0.10	0.35±0.09	0.37±0.10
S 3100	0.12±0.04	0.38±0.11	0.36±0.11	0.38±0.11
S 3200	0.13±0.04	0.39±0.12	0.37±0.12	0.39±0.12

TABLE S.90. Table of Horizontal Choroidal Roundness of Healthy Cases.

Table of Horizontal Choroidal Roundness of Healthy Cases				
Region	Total Value $\bar{x} \pm \sigma$	Inner Value $\bar{x} \pm \sigma$	Middle Value $\bar{x} \pm \sigma$	Outer Value $\bar{x} \pm \sigma$
N 3200	0.22±0.07	0.62±0.18	0.61±0.18	0.63±0.17
N 3100	0.21±0.07	0.60±0.18	0.59±0.18	0.60±0.17
N 3000	0.20±0.06	0.58±0.18	0.56±0.17	0.59±0.17
N 2900	0.19±0.06	0.55±0.16	0.54±0.17	0.56±0.16
N 2800	0.18±0.06	0.54±0.17	0.51±0.16	0.55±0.16
N 2700	0.18±0.06	0.52±0.17	0.50±0.15	0.53±0.16
N 2600	0.17±0.05	0.51±0.16	0.49±0.15	0.51±0.15
N 2500	0.16±0.05	0.50±0.16	0.47±0.14	0.50±0.16
N 2400	0.16±0.05	0.49±0.15	0.46±0.14	0.49±0.14
N 2300	0.16±0.05	0.47±0.14	0.45±0.13	0.47±0.14
N 2200	0.15±0.04	0.46±0.14	0.43±0.12	0.46±0.14
N 2100	0.15±0.04	0.45±0.13	0.43±0.12	0.45±0.13
N 2000	0.15±0.04	0.44±0.12	0.42±0.12	0.44±0.12
N 1900	0.14±0.04	0.43±0.11	0.41±0.11	0.43±0.12
N 1800	0.14±0.04	0.42±0.11	0.40±0.11	0.42±0.12
N 1700	0.14±0.04	0.41±0.11	0.40±0.10	0.42±0.11
N 1600	0.13±0.03	0.41±0.11	0.39±0.10	0.41±0.11
N 1500	0.13±0.03	0.40±0.11	0.39±0.10	0.40±0.11
N 1400	0.13±0.03	0.40±0.11	0.38±0.10	0.40±0.11
N 1300	0.13±0.03	0.39±0.10	0.38±0.10	0.39±0.10
N 1200	0.13±0.03	0.38±0.10	0.37±0.09	0.39±0.10
N 1100	0.13±0.03	0.37±0.09	0.36±0.09	0.38±0.10
N 1000	0.12±0.03	0.37±0.09	0.36±0.08	0.38±0.09
N 900	0.12±0.03	0.36±0.09	0.35±0.08	0.37±0.09
N 800	0.12±0.03	0.36±0.08	0.35±0.08	0.36±0.08
N 700	0.12±0.03	0.35±0.08	0.34±0.08	0.36±0.08
N 600	0.12±0.03	0.35±0.08	0.34±0.08	0.35±0.08
N 500	0.11±0.03	0.35±0.08	0.34±0.08	0.35±0.08
N 400	0.11±0.03	0.34±0.08	0.34±0.08	0.35±0.08
N 300	0.11±0.03	0.34±0.09	0.33±0.08	0.34±0.08
N 200	0.11±0.03	0.34±0.09	0.33±0.08	0.34±0.09
N 100	0.11±0.03	0.33±0.08	0.33±0.08	0.34±0.08
H 0	0.11±0.03	0.33±0.08	0.33±0.08	0.33±0.08
T 100	0.11±0.03	0.33±0.08	0.32±0.08	0.33±0.08
T 200	0.11±0.03	0.33±0.08	0.32±0.08	0.34±0.08

Table of Horizontal Choroidal Roundness of Healthy Cases

T 300	0.11±0.03	0.34±0.09	0.33±0.08	0.34±0.08
T 400	0.11±0.03	0.34±0.08	0.33±0.08	0.34±0.08
T 500	0.11±0.03	0.34±0.09	0.33±0.08	0.34±0.09
T 600	0.11±0.03	0.35±0.09	0.34±0.08	0.35±0.09
T 700	0.12±0.03	0.36±0.10	0.34±0.09	0.35±0.09
T 800	0.12±0.03	0.36±0.10	0.35±0.09	0.36±0.10
T 900	0.12±0.03	0.37±0.10	0.35±0.09	0.36±0.10
T 1000	0.12±0.03	0.37±0.10	0.35±0.09	0.37±0.10
T 1100	0.12±0.03	0.38±0.11	0.36±0.10	0.37±0.10
T 1200	0.12±0.03	0.38±0.11	0.36±0.10	0.37±0.11
T 1300	0.12±0.04	0.38±0.11	0.36±0.10	0.38±0.11
T 1400	0.13±0.04	0.39±0.12	0.37±0.11	0.38±0.11
T 1500	0.13±0.04	0.39±0.12	0.37±0.11	0.38±0.11
T 1600	0.13±0.04	0.39±0.12	0.37±0.12	0.39±0.12
T 1700	0.13±0.04	0.40±0.13	0.38±0.11	0.39±0.12
T 1800	0.13±0.04	0.40±0.13	0.38±0.12	0.39±0.12
T 1900	0.13±0.04	0.40±0.13	0.38±0.12	0.39±0.13
T 2000	0.13±0.04	0.40±0.13	0.38±0.12	0.39±0.12
T 2100	0.13±0.04	0.41±0.12	0.38±0.11	0.39±0.12
T 2200	0.13±0.04	0.41±0.12	0.38±0.11	0.40±0.12
T 2300	0.13±0.04	0.41±0.12	0.38±0.11	0.40±0.11
T 2400	0.13±0.04	0.41±0.12	0.39±0.10	0.40±0.11
T 2500	0.14±0.04	0.42±0.12	0.39±0.11	0.41±0.12
T 2600	0.14±0.04	0.43±0.12	0.40±0.11	0.42±0.12
T 2700	0.14±0.04	0.43±0.13	0.40±0.11	0.42±0.12
T 2800	0.14±0.04	0.44±0.13	0.41±0.11	0.42±0.12
T 2900	0.14±0.04	0.44±0.13	0.41±0.12	0.43±0.13
T 3000	0.15±0.04	0.45±0.13	0.42±0.12	0.44±0.13
T 3100	0.15±0.05	0.45±0.13	0.42±0.13	0.44±0.12
T 3200	0.15±0.05	0.46±0.14	0.43±0.13	0.46±0.13

TABLE S.91. Table of Vertical Choroidal Solidity of Healthy Cases.

Table of Vertical Choroidal Solidity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
I 3200	0.9964±0.0083	0.9539±0.0252	1.0000±0.0000	1.0219±0.0192
I 3100	0.9948±0.0091	0.9521±0.0207	1.0000±0.0000	1.0267±0.0215
I 3000	0.9939±0.0074	0.9540±0.0198	1.0000±0.0000	1.0234±0.0213
I 2900	0.9945±0.0075	0.9540±0.0186	1.0000±0.0000	1.0255±0.0212
I 2800	0.9953±0.0072	0.9555±0.0183	1.0000±0.0000	1.0269±0.0217
I 2700	0.9959±0.0075	0.9586±0.0163	1.0000±0.0000	1.0266±0.0195
I 2600	0.9970±0.0070	0.9590±0.0180	1.0000±0.0000	1.0294±0.0210
I 2500	0.9967±0.0071	0.9564±0.0187	1.0000±0.0000	1.0279±0.0205
I 2400	0.9949±0.0075	0.9574±0.0183	1.0000±0.0000	1.0241±0.0201
I 2300	0.9951±0.0104	0.9595±0.0173	1.0000±0.0000	1.0239±0.0296
I 2200	0.9964±0.0071	0.9585±0.0193	1.0000±0.0000	1.0240±0.0211
I 2100	0.9967±0.0076	0.9575±0.0219	1.0000±0.0000	1.0282±0.0258
I 2000	0.9965±0.0077	0.9591±0.0206	1.0000±0.0000	1.0271±0.0294
I 1900	0.9970±0.0093	0.9615±0.0210	1.0000±0.0000	1.0249±0.0219
I 1800	0.9969±0.0100	0.9609±0.0229	1.0000±0.0000	1.0233±0.0200
I 1700	0.9963±0.0083	0.9614±0.0209	1.0000±0.0000	1.0230±0.0176
I 1600	0.9976±0.0083	0.9608±0.0209	1.0000±0.0000	1.0252±0.0212
I 1500	0.9964±0.0070	0.9615±0.0199	1.0000±0.0000	1.0249±0.0184
I 1400	0.9964±0.0073	0.9607±0.0207	1.0000±0.0000	1.0242±0.0210
I 1300	0.9953±0.0095	0.9613±0.0194	1.0000±0.0000	1.0221±0.0228
I 1200	0.9967±0.0080	0.9611±0.0174	1.0000±0.0000	1.0254±0.0200
I 1100	0.9960±0.0073	0.9630±0.0197	1.0000±0.0000	1.0235±0.0206
I 1000	0.9970±0.0077	0.9643±0.0203	1.0000±0.0000	1.0239±0.0187
I 900	0.9975±0.0073	0.9668±0.0219	1.0000±0.0000	1.0242±0.0183
I 800	0.9988±0.0077	0.9700±0.0211	1.0000±0.0000	1.0251±0.0193
I 700	0.9987±0.0090	0.9729±0.0211	1.0000±0.0000	1.0195±0.0180
I 600	1.0005±0.0077	0.9719±0.0206	1.0000±0.0000	1.0222±0.0199
I 500	1.0003±0.0079	0.9741±0.0192	1.0000±0.0000	1.0233±0.0185
I 400	0.9989±0.0076	0.9729±0.0210	1.0000±0.0000	1.0202±0.0174
I 300	0.9984±0.0091	0.9749±0.0197	1.0000±0.0000	1.0182±0.0210
I 200	1.0001±0.0077	0.9788±0.0197	1.0000±0.0000	1.0193±0.0158
I 100	1.0013±0.0075	0.9787±0.0204	1.0000±0.0000	1.0188±0.0180
V 0	1.0009±0.0082	0.9781±0.0191	1.0000±0.0000	1.0172±0.0177
S 100	1.0010±0.0073	0.9781±0.0191	1.0000±0.0000	1.0182±0.0174
S 200	1.0011±0.0076	0.9763±0.0206	1.0000±0.0000	1.0220±0.0202

Table of Vertical Choroidal Solidity of Healthy Cases

S 300	0.9999±0.0075	0.9736±0.0219	1.0000±0.0000	1.0208±0.0175
S 400	0.9996±0.0076	0.9727±0.0202	1.0000±0.0000	1.0204±0.0185
S 500	0.9984±0.0076	0.9708±0.0200	1.0000±0.0000	1.0202±0.0173
S 600	0.9982±0.0074	0.9696±0.0191	1.0000±0.0000	1.0213±0.0171
S 700	0.9978±0.0073	0.9684±0.0204	1.0000±0.0000	1.0188±0.0177
S 800	0.9983±0.0081	0.9687±0.0195	1.0000±0.0000	1.0219±0.0211
S 900	0.9977±0.0072	0.9677±0.0183	1.0000±0.0000	1.0208±0.0176
S 1000	0.9984±0.0077	0.9691±0.0183	1.0000±0.0000	1.0196±0.0186
S 1100	0.9980±0.0074	0.9692±0.0184	1.0000±0.0000	1.0204±0.0184
S 1200	0.9972±0.0073	0.9670±0.0189	1.0000±0.0000	1.0199±0.0204
S 1300	0.9976±0.0076	0.9650±0.0199	1.0000±0.0000	1.0213±0.0195
S 1400	0.9977±0.0074	0.9654±0.0177	1.0000±0.0000	1.0220±0.0187
S 1500	0.9973±0.0082	0.9633±0.0176	1.0000±0.0000	1.0228±0.0187
S 1600	0.9973±0.0075	0.9632±0.0176	1.0000±0.0000	1.0230±0.0172
S 1700	0.9969±0.0072	0.9625±0.0179	1.0000±0.0000	1.0220±0.0164
S 1800	0.9959±0.0072	0.9613±0.0158	1.0000±0.0000	1.0219±0.0184
S 1900	0.9950±0.0064	0.9610±0.0134	1.0000±0.0000	1.0210±0.0188
S 2000	0.9952±0.0067	0.9605±0.0145	1.0000±0.0000	1.0222±0.0183
S 2100	0.9960±0.0061	0.9615±0.0119	1.0000±0.0000	1.0229±0.0178
S 2200	0.9950±0.0064	0.9596±0.0133	1.0000±0.0000	1.0237±0.0179
S 2300	0.9958±0.0069	0.9599±0.0147	1.0000±0.0000	1.0239±0.0175
S 2400	0.9959±0.0072	0.9586±0.0135	1.0000±0.0000	1.0242±0.0210
S 2500	0.9969±0.0065	0.9602±0.0159	1.0000±0.0000	1.0285±0.0179
S 2600	0.9972±0.0077	0.9599±0.0168	1.0000±0.0000	1.0261±0.0204
S 2700	0.9954±0.0078	0.9574±0.0164	1.0000±0.0000	1.0237±0.0181
S 2800	0.9957±0.0076	0.9594±0.0166	1.0000±0.0000	1.0237±0.0196
S 2900	0.9965±0.0080	0.9605±0.0178	1.0000±0.0000	1.0262±0.0256
S 3000	0.9963±0.0099	0.9595±0.0189	1.0000±0.0000	1.0264±0.0248
S 3100	0.9981±0.0082	0.9607±0.0216	1.0000±0.0000	1.0302±0.0236
S 3200	1.0013±0.0097	0.9696±0.0239	1.0014±0.0143	1.0328±0.0233

TABLE S.92. Table of Horizontal Choroidal Solidity of Healthy Cases.

Table of Horizontal Choroidal Solidity of Healthy Cases				
Region	Total Value $\bar{X} \pm \sigma$	Inner Value $\bar{X} \pm \sigma$	Middle Value $\bar{X} \pm \sigma$	Outer Value $\bar{X} \pm \sigma$
N 3200	1.0017 $\pm$ 0.0122	0.9434 $\pm$ 0.0339	1.0001 $\pm$ 0.0007	1.0516 $\pm$ 0.0425
N 3100	0.9977 $\pm$ 0.0123	0.9374 $\pm$ 0.0316	1.0000 $\pm$ 0.0000	1.0436 $\pm$ 0.0313
N 3000	0.9948 $\pm$ 0.0108	0.9387 $\pm$ 0.0312	1.0000 $\pm$ 0.0000	1.0456 $\pm$ 0.0346
N 2900	0.9920 $\pm$ 0.0159	0.9401 $\pm$ 0.0311	1.0000 $\pm$ 0.0000	1.0366 $\pm$ 0.0454
N 2800	0.9954 $\pm$ 0.0107	0.9429 $\pm$ 0.0314	1.0000 $\pm$ 0.0000	1.0438 $\pm$ 0.0342
N 2700	0.9940 $\pm$ 0.0106	0.9471 $\pm$ 0.0253	1.0000 $\pm$ 0.0000	1.0367 $\pm$ 0.0274
N 2600	0.9956 $\pm$ 0.0103	0.9471 $\pm$ 0.0280	1.0000 $\pm$ 0.0000	1.0324 $\pm$ 0.0313
N 2500	0.9950 $\pm$ 0.0109	0.9487 $\pm$ 0.0259	1.0000 $\pm$ 0.0000	1.0325 $\pm$ 0.0276
N 2400	0.9952 $\pm$ 0.0091	0.9487 $\pm$ 0.0261	1.0000 $\pm$ 0.0000	1.0355 $\pm$ 0.0219
N 2300	0.9948 $\pm$ 0.0096	0.9534 $\pm$ 0.0229	1.0000 $\pm$ 0.0000	1.0299 $\pm$ 0.0222
N 2200	0.9965 $\pm$ 0.0082	0.9532 $\pm$ 0.0227	1.0000 $\pm$ 0.0000	1.0325 $\pm$ 0.0226
N 2100	0.9963 $\pm$ 0.0097	0.9551 $\pm$ 0.0224	1.0000 $\pm$ 0.0000	1.0327 $\pm$ 0.0227
N 2000	0.9952 $\pm$ 0.0147	0.9561 $\pm$ 0.0235	1.0000 $\pm$ 0.0000	1.0259 $\pm$ 0.0432
N 1900	0.9970 $\pm$ 0.0107	0.9594 $\pm$ 0.0221	1.0000 $\pm$ 0.0000	1.0307 $\pm$ 0.0243
N 1800	0.9977 $\pm$ 0.0088	0.9623 $\pm$ 0.0217	1.0000 $\pm$ 0.0000	1.0293 $\pm$ 0.0210
N 1700	0.9985 $\pm$ 0.0087	0.9613 $\pm$ 0.0235	1.0000 $\pm$ 0.0000	1.0293 $\pm$ 0.0222
N 1600	0.9987 $\pm$ 0.0087	0.9600 $\pm$ 0.0208	1.0000 $\pm$ 0.0000	1.0301 $\pm$ 0.0194
N 1500	0.9974 $\pm$ 0.0098	0.9596 $\pm$ 0.0222	1.0000 $\pm$ 0.0000	1.0266 $\pm$ 0.0285
N 1400	0.9971 $\pm$ 0.0096	0.9603 $\pm$ 0.0191	1.0000 $\pm$ 0.0000	1.0271 $\pm$ 0.0251
N 1300	0.9975 $\pm$ 0.0081	0.9606 $\pm$ 0.0196	1.0000 $\pm$ 0.0000	1.0263 $\pm$ 0.0212
N 1200	0.9970 $\pm$ 0.0105	0.9637 $\pm$ 0.0218	1.0000 $\pm$ 0.0000	1.0258 $\pm$ 0.0291
N 1100	0.9984 $\pm$ 0.0089	0.9666 $\pm$ 0.0212	1.0000 $\pm$ 0.0000	1.0285 $\pm$ 0.0198
N 1000	0.9994 $\pm$ 0.0083	0.9662 $\pm$ 0.0204	1.0000 $\pm$ 0.0000	1.0279 $\pm$ 0.0198
N 900	0.9992 $\pm$ 0.0080	0.9678 $\pm$ 0.0201	1.0000 $\pm$ 0.0000	1.0277 $\pm$ 0.0181
N 800	0.9990 $\pm$ 0.0081	0.9698 $\pm$ 0.0191	1.0000 $\pm$ 0.0000	1.0240 $\pm$ 0.0185
N 700	0.9991 $\pm$ 0.0076	0.9716 $\pm$ 0.0209	1.0000 $\pm$ 0.0000	1.0235 $\pm$ 0.0190
N 600	0.9996 $\pm$ 0.0083	0.9709 $\pm$ 0.0214	1.0000 $\pm$ 0.0000	1.0242 $\pm$ 0.0206
N 500	0.9999 $\pm$ 0.0091	0.9730 $\pm$ 0.0201	1.0000 $\pm$ 0.0000	1.0258 $\pm$ 0.0204
N 400	1.0008 $\pm$ 0.0081	0.9759 $\pm$ 0.0204	1.0000 $\pm$ 0.0000	1.0230 $\pm$ 0.0200
N 300	1.0014 $\pm$ 0.0083	0.9763 $\pm$ 0.0210	1.0000 $\pm$ 0.0000	1.0226 $\pm$ 0.0180
N 200	1.0004 $\pm$ 0.0081	0.9772 $\pm$ 0.0200	1.0000 $\pm$ 0.0000	1.0216 $\pm$ 0.0187
N 100	1.0011 $\pm$ 0.0069	0.9779 $\pm$ 0.0203	1.0000 $\pm$ 0.0000	1.0197 $\pm$ 0.0170
H 0	1.0012 $\pm$ 0.0078	0.9800 $\pm$ 0.0209	1.0000 $\pm$ 0.0000	1.0199 $\pm$ 0.0180
T 100	1.0013 $\pm$ 0.0073	0.9800 $\pm$ 0.0209	1.0000 $\pm$ 0.0000	1.0206 $\pm$ 0.0179
T 200	1.0017 $\pm$ 0.0073	0.9787 $\pm$ 0.0205	1.0000 $\pm$ 0.0000	1.0199 $\pm$ 0.0175

Table of Horizontal Choroidal Solidity of Healthy Cases

T 300	1.0006±0.0078	0.9758±0.0219	1.0000±0.0000	1.0202±0.0164
T 400	0.9996±0.0088	0.9741±0.0218	1.0000±0.0000	1.0205±0.0168
T 500	1.0002±0.0082	0.9723±0.0203	1.0000±0.0000	1.0242±0.0201
T 600	1.0000±0.0075	0.9701±0.0204	1.0000±0.0000	1.0257±0.0174
T 700	0.9982±0.0080	0.9657±0.0230	1.0000±0.0000	1.0242±0.0185
T 800	0.9980±0.0090	0.9663±0.0209	1.0000±0.0000	1.0234±0.0189
T 900	0.9991±0.0084	0.9656±0.0198	1.0000±0.0000	1.0266±0.0212
T 1000	0.9989±0.0082	0.9631±0.0219	1.0000±0.0000	1.0284±0.0219
T 1100	0.9970±0.0074	0.9627±0.0193	1.0000±0.0000	1.0230±0.0171
T 1200	0.9973±0.0079	0.9626±0.0197	1.0000±0.0000	1.0238±0.0216
T 1300	0.9970±0.0078	0.9615±0.0194	1.0000±0.0000	1.0271±0.0205
T 1400	0.9965±0.0072	0.9601±0.0198	1.0000±0.0000	1.0253±0.0203
T 1500	0.9967±0.0070	0.9579±0.0183	1.0000±0.0000	1.0258±0.0227
T 1600	0.9953±0.0073	0.9567±0.0173	1.0000±0.0000	1.0253±0.0179
T 1700	0.9954±0.0071	0.9555±0.0175	1.0000±0.0000	1.0253±0.0208
T 1800	0.9953±0.0066	0.9556±0.0187	1.0000±0.0000	1.0265±0.0198
T 1900	0.9958±0.0082	0.9550±0.0200	1.0000±0.0000	1.0255±0.0207
T 2000	0.9970±0.0083	0.9580±0.0202	1.0000±0.0000	1.0271±0.0235
T 2100	0.9972±0.0084	0.9586±0.0202	1.0000±0.0000	1.0272±0.0232
T 2200	0.9953±0.0086	0.9557±0.0197	1.0000±0.0000	1.0244±0.0219
T 2300	0.9949±0.0089	0.9533±0.0204	1.0000±0.0000	1.0235±0.0212
T 2400	0.9940±0.0099	0.9523±0.0216	1.0000±0.0000	1.0257±0.0236
T 2500	0.9952±0.0089	0.9540±0.0212	1.0000±0.0000	1.0265±0.0218
T 2600	0.9943±0.0078	0.9532±0.0200	1.0000±0.0000	1.0267±0.0200
T 2700	0.9953±0.0075	0.9535±0.0187	1.0000±0.0000	1.0290±0.0211
T 2800	0.9956±0.0069	0.9520±0.0183	1.0000±0.0000	1.0285±0.0238
T 2900	0.9949±0.0084	0.9521±0.0200	1.0000±0.0000	1.0298±0.0216
T 3000	0.9959±0.0085	0.9536±0.0209	1.0000±0.0000	1.0312±0.0269
T 3100	0.9965±0.0096	0.9546±0.0242	1.0000±0.0000	1.0327±0.0253
T 3200	1.0002±0.0109	0.9617±0.0242	1.0014±0.0143	1.0383±0.0313

APPENDIX-2: ETHICAL COMMITTEE APPROVAL



T.C.
HACETTEPE ÜNİVERSİTESİ
Girişimsel Olmayan Klinik Araştırmalar Etik Kurulu

Sayı : 16969557 -1526

Konu :

ARAŞTIRMA PROJESİ DEĞERLENDİRME RAPORU

Toplantı Tarihi : 07 KASIM 2017 SALI
Toplantı No : 2017/24
Proje No : GO 17/670 (Değerlendirme Tarihi: 24.08.2017)
Karar No : GO 17/670- 24

Üniversitemiz Tıp Fakültesi Biyofizik Anabilim Dalı öğretim üyelerinden Doç. Dr. A. Ruhi SOYLU' nun sorumlu araştırmacı olduğu, Prof. Dr. Deniz SOMER, Uzm. Dr. Güner Özkan ÜNEY ile birlikte çalışacakları ve Arş. Gör. Dr. Onur İNAM' ın doktora tezi olan, GO 17/670 kayıt numaralı, "*Optik Koherens Tomografi ile Çekilen Retina ve Koroid Görüntülerinin Sayısal Metodlarla İşlenerek Koroid Vaskülerite ve Doku Dağılım İndekslerinin Hesaplanması*" başlıklı proje önerisi araştırmanın gerekçe, amaç, yaklaşım ve yöntemleri dikkate alınarak incelenmiş olup, etik açıdan uygun bulunmuştur.

1. Prof. Dr. Nurten AKARSU (Başkan)	10 Prof. Dr. Oya Nuran EMİROĞLU (Üye)
2. Prof. Dr. Sevda F. MÜFTÜOĞLU (Üye)	11 Yrd. Doç. Dr. Özay GÖKÖZ (Üye)
3. Prof. Dr. M. Yıldırım SARA (Üye)	İZİNLİ 12. Doç. Dr. Gözde GİRGIN (Üye)
4. Prof. Dr. Needet SAĞLAM (Üye)	13. Doç. Dr. Fatma Visal OKUR (Üye)
5. Prof. Dr. Hatice Doğan BUZOĞLU (Üye)	14. Doç. Dr. Can Ebru KURT (Üye)
İZİNLİ 6. Prof. Dr. R. Köksal ÖZGÜL (Üye)	15. Yrd. Doç. Dr. H. Hüsrev TURNAGÖL (Üye)
7. Prof. Dr. Ayşe Lale DOĞAN (Üye)	16. Öğr. Gör. Dr. Müge DEMİR (Üye)
8. Prof. Dr. Elmas HAN YALÇIN (Üye)	17. Öğr. Gör. Dr. Meltem ŞENGEL (Üye)
9. Prof. Dr. Mintaze Kerem GÜNEK (Üye)	18. Av. Meltem ONURLU (Üye)

APPENDIX-3: ORIGINALITY REPORT



Dijital Makbuz

Bu makbuz ödevinizin Turnitin'e ulaştığını bildirmektedir. Gönderiminize dair bilgiler şöyledir:

Gönderinizin ilk sayfası aşağıda gönderilmektedir.

Gönderen: Onur İnam
Ödev başlığı: Tez Teslim
Gönderi Başlığı: CALCULATION OF CHOROIDAL VA...
Dosya adı: DR._ONUR_NAM_BYF_TEZ_16.08...
Dosya boyutu: 14.13M
Sayfa sayısı: 172
Kelime sayısı: 50,115
Karakter sayısı: 207,029
Gönderim Tarihi: 17-Ağu-2018 01:14AM (UTC+0300)
Gönderim Numarası: 990527838

T.C.
REPUBLIC OF TURKEY
HACETTEPE UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES

CALCULATION OF CHOROIDAL VASCULARITY INDEX AND
TISSUE DISTRIBUTION INDEXES BY DIGITAL PROCESSING
OF RETINAL AND CHOROIDAL IMAGES OBTAINED VIA
OPTICAL COHERENCE TOMOGRAPHY

ONUR İNAM, MD.

Program of Biophysics
PHILOSOPHY OF DOCTORAL (Ph.D.) THESIS

ADVISOR OF THE THESIS
ASSOC. PROF. A. RUHİ SOYLU

ANKARA
2018

CALCULATION OF CHOROIDAL VASCULARITY INDEX AND TISSUE DISTRIBUTION INDEXES BY DIGITAL PROCESSING OF RETINAL AND CHOROIDAL IMAGES OBTAINED VIA OPTICAL COHERENCE TOMOGRAPHY

ORIJINALLIK RAPORU

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BENZERLIK ENDEKSI

%**2**

İNTERNET
KAYNAKLARI

%**1**

YAYINLAR

%**0**

ÖĞRENCİ ÖDEVLERİ

BİRİNCİL KAYNAKLAR

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www-minimax.fnal.gov

İnternet Kaynağı

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Cancer, 2007

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<%**1**

www.spiedigitallibrary.org

9. CURRICULUM VITAE

Onur İnam was born in 1990 in Ankara. After he graduated from Atatürk Anadolu High School in 2007, he became one of the first 100 students in University Entrance Examination over 1,800,000 candidates. He started his education at Hacettepe University Medical Faculty (English) and graduated in 2013. While at the medical school he has been chosen as one of the 8 MD-PhD integrated program student. In the same year he graduated from the medical faculty, he started his residency at Hacettepe University Medical Faculty Department of Ophthalmology. He successfully completed his residency at 2018 and became an ophthalmologist. Meanwhile he completed and got 3 more bachelor's degree as the Public Administration Department of Anadolu University, Management of Health Institutions Department of Anadolu University and International Relations Department of Anadolu University. He continues his education at Philosophy Department of Anadolu University and Justice Department of Atatürk University. He studied at the Harvard University, Toronto University, Genova University and Hospital Clinico San Carlos.