

Ocutouch®

I. Ocutouch Contents

Section 1. Animated Subjects for Exam/Consultation Room

- I. Normal Eye
 - A. Cornea – overview and cellular detail
 - B. Angle – overview, meshwork detail, normal aqueous flow
 - C. Vitreous/Retina – fundus views, macula overview and cellular detail of retina and choroid
 - D. Optic Nerve – overview and detail from varying angles
 - E. Lens – anatomy and accommodation
 - F. Ciliary body – location and accommodative lens shape action

- II. Cataracts
 - A. Quick Overview of location, extraction, implantation
 - B. Refraction – how cataract affects vision
 - C. Types of Cataracts – frontal and section views, with IOLs types and foldable technique
 - D. Semi-detailed concept of location, extraction, implantation, secondary cataract, laser posterior capsulotomy
 - E. Surgery – generic concept – from incision types, soft and hard nucleus approaches with phaco, other approaches including laser, instruments used, how the phaco system works

- III. Refraction
 - A. Quick click to normal and all refractive errors, including correction with glasses, contacts, laser – includes mechanism of presbyopia and correction.

- IV. Contact Lenses
 - A. Contact types and convex/concave shapes
 - B. Detail of tear film mechanism and oxygen transmission

V. Glaucoma

- A. Aqueous flow – normal, open angle, closed angle
- B. Detection Methods – how the Schiottz, applanation, air-puff tonometer work, funduscopy, gonioscopy, concept of perimetry
- C. Angle/Trabeculum detail and aqueous flow
- D. Grades of Optic nerve damage and respective fields
- E. Types of glaucoma
- F. Treatment methods – drops, laser iridotomy, LTP, trabeculectomy, (external), goniotomy, implants

VI. Cornea and Transplantation

- A. Overview
- B. Surgical steps in concept

VII. Vitreous Detachment/Retinal Detachment

- A. Mechanism of Vitreous detachment – floaters, flashes
- B. Mechanism of Retinal Detachment
- C. Scleral buckle surgery concept
- D. Pneumatic retinopexy concept and laser tear

VIII. Macular Degeneration

- A. Normal macula, wet, dry – overview, detail, cellular detail
- B. Laser treatment concepts
- C. Activated dye laser treatment

IX. Diabetic Retinopathy

- A. Non-proliferative – characteristics and types
- B. Proliferative – characteristics and types
- C. Focal and Panretinal Photocoagulation
- D. Macular Edema – characteristics and maculopathy photocoagulation

X. Lacrimal and Lid

- A. Normal anatomy

- B. Blepharitis
 - C. Chalazion
 - D. Blepharoplasty – concept of repair
 - E. Droopy Lids – concept of repair
 - F. Dry Eyes and
 - G. Excessive tears and punctal plug repair
- XI. Muscles
- A. Anatomy and related eye movement
 - B. Types of Strabismus – normal, eso, exo
 - C. Concepts of Surgical repairs
- XII. Refractive Surgery – intro to refractive errors
- A. RK refraction and surgery
 - B. PRK refraction and surgery for myopia, hyperopia , astigmatism
 - C. AK, Limbal relaxation refraction and surgery
 - D. Broad beam Lasik - refraction and surgery for myopia, hyperopia , astigmatism
 - E. Spot Lasik - refraction and surgery for myopia, hyperopia , astigmatism
 - F. Microkeratome and Laser flap techniques
 - G. Wavefront scanning concept coupled with custom corneal treatment – HOA refraction
 - H. Eye Tracking concept
 - I. Phakic IOL, LTK, PCL, CK, Prelex, Multifocal Lens
 - J. Lasek refraction and surgery for myopia, hyperopia , astigmatism
- XIII. Visual Pathway
- A. Anatomical path
 - B. Comparison with video camera

Section 2. Narrated Exam/Consultation Room Subjects

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- F. Ciliary body – location and accommodative lens shape action

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- A. Overview of location, extraction, implantation
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- VIII. RK/AK, Limbal Relaxation Incisions - refraction and surgery
- IX. PRK- refraction and surgery for myopia, hyperopia, astigmatism
- X. Lasik - refraction, microkeratome, laser flap, surgery for myopia, hyperopia, astigmatism
- XI. Custom Lasik - refraction, microkeratome flap, laser flap, and surgery for myopia, hyperopia, astigmatism, Eye Tracking, Wavefront Scanning, HOA, Custom corneal shaping
- XII. Lasek - refraction and surgery for myopia, hyperopia, astigmatism

Section 3. Animated Atlas of Eye Anatomy Subjects

- I. Sectioning of globe in all standard planes
- II. Anterior segment
- III. Posterior segment
- IV. Cornea – overview and cellular detail
- V. Iris
- VI. Lens
- VII. Angle – overview, meshwork detail, normal aqueous flow
- VIII. Vitreous
- IX. Retina– fundus views

- X. Macula
- XI. Choroid – overview and cellular detail
- XII. Optic Nerve – overview and detail from varying angles
- XIII. Extraocular Muscles – overview, motion of each muscle
- XIV. Lacrimal System – overview and mechanisms
- XV. Boney Orbit – views from all angles
- XVI. Visual Pathway
- XVII. Ciliary Body

Section 4. Waiting Room Compendium Subjects

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Section 5 . Seminar Subjects

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Section 6. (New) The Optical Dispensing Assistant Subjects

I. Optical Choices, Quick-Animated, first-person view, for each Environment listed

in II below.

- A. Bifocal
- B. Trifocal
- C. Progressive
- D. Computer Lenses
- E. Anti-Reflective Coating
- F. Scratch Resist Coating
- G. UV Coating
- H. Polarized Lenses

I. Photochromic Lenses

J. Lens Index Materials

K. Major Tint Groups

II. Major Vision-Lifestyle Environments - in motion

A. Indoor

1. General Living - Reading - TV
2. Kitchen - Standing Work
3. Computer - Office - Desk

B. Outdoor

1. Outdoor Sports - Woods - Field
2. Water - Beach - Boating - Skiing
3. Urban - Work - Leisure

C. Driving

1. Daytime - Sunny
2. Dawn - Dusk - Lowlight
3. Nighttime

III. Optical Explanation Animations – How They Work.

A. Bifocal, Trifocal, Progressive lens configuration and refraction comparison

B. Computer Lenses body and eye motion compared to other lens types

C. Anti-Reflective Coating – refraction with and without coating front, back

D. Scratch Resist Coating – application location

E. UV Coating – with and without coating, and cataract formation

F. Polarized Lenses – pre and post application refraction

G. Lens Index Materials – thickness comparison

H. Particular Uses of various tints

Background

Format: Image menu selectable Flash animations of digitally enhanced, established and well-known hand painted artwork of eye care Artist Stephen F. Gordon based on 21 year, widely disseminated and currently used publications Optometrist-Patient Consultation Illustrations and Physician-Patient Consultation Illustrations exam room portfolios. All images and animations are FULL-SCREEN for optimum viewing by low vision patients. Large text for hearing impaired.

Purpose: Multiple location display modules, using animations for assisting in optimum comprehension of Optometric, Ophthalmic, and Optical concepts and specific clinical/surgical approaches of modern eye care for patient, staff, student, and doctor.

Emphasis on:

- presenting full range from basic concepts for fast understanding to detailed anatomy/surgical approaches, as an all-uses educational product for all levels of education throughout eye clinic and outside.
- easy, intuitive navigation using industry-known images as buttons, familiar to, and currently used daily in still format by eye care specialists.
- already-known, computer-enhanced hand painted illustrations – more aesthetically eye pleasing and viewer acceptable than hard, cold-appearing, solely computer-generated images.

Product Contents Overview

1. Optometrist-Physician-Patient Consultation Exam Room Clinical/Surgical Animation Series - Emphasis on concepts with patient-friendly images. All-Subjects 10 to 30 second animations – one, two or three touch screen touches or mouse clicks to any specific subject animation from main image button menu screen. All Main Subjects of Eye Care –overview, diagnosis, types, treatments. All navigation buttons are illustrations of well-known established artwork (in addition to text title) for fast visual, non-reading, navigation to specific desired subject matter. For eye care specialists to quickly and efficiently answer patient questions in exam room with maximum patient understanding using motion.

2. Prepared Narrative Programs with Music for Exam/Consultation Room - 3 to 6 minute single-subject, voice narrated general overview presentations, animated, on each major subject of eye care. For patient viewing of overview of specific topic as an aid to the doctor consultation.

3. All-Subjects Anatomy Animation Series for Staff, Student, Physician, Patient – Multiple rotation/magnification of all eye anatomy, with and without anatomy labels. Navigation by way of illustration buttons from main screen for fast visual

identification. For more in-depth patient anatomical questions, staff instruction, medical student instruction, doctor to doctor discussion of topics of diagnosis, treatment approach. Using motion to move in and around orbital anatomy to maintain ones perspective of detail being viewed. Details from gross anatomy to cellular level.

4. Main Subjects Fully Interactive Animated Seminars-- Prepared seminars on main subjects of eye care, accessed as full run, user controlled lecture program or individual topic user controlled lecture program. User flexible program length. Accompanying text and labels. Always accessible main menu for flexibility in moving through program. A ready-prepared seminar series for doctors to present at local public information meetings through local clubs or groups. Individual subject selection allows multiple seminar presentations to local groups over time.

5. All-Subjects Waiting Room Animated Loops – Silent and Narrated with music, self-running animated loop with text and caption explanation of all subjects of eye care with subject selection and intermission length choice. For patients in clinic waiting room as interesting, non-technical summary of modern eye care concepts.

New!

6. Optical Dispensing Assistant – First person comparative views for the dispenser to display modern lens and coating choices to the patient, in motion, with explanatory animations of how each works. 1) Patients first select an environment movie scene - one where vision is personally important to their life. 2) Then, the dispenser runs through the quick, comparative, animated visual examples of all modern lens and coating choices, as the patient would “see” them in that personal environment. Designed to help patients make better, faster, expanded, and informed decisions on their lens purchases. They “see” firsthand what they are buying and are convinced of the importance of those choices to their lifestyle - helps reduce their guessing and time-consuming indecision, while establishing the personal, true value of the alternatives.

Availability

Availability of Ocutouch Product: Through non-exclusive, licensed end-user basis per single computer as single display unit only. No Internet nor Intranet use or display. All

images, animations, designs, and text are copyrighted, all rights reserved by Stephen F. Gordon, licensed to Stephen Gordon, Inc. All copying in any form or format, or hard printing is forbidden. License contains restrictions and limits of liability for on-site, end user. Quantity licensed use discounts available. Applicable PC computer format, touch-screen compatible, tablet pc, laptop computer, computer projection system.

All prices, content, and availability of the described programs are subject to change without notice. All uses of all programs and content require full program review and agreement to end user license agreements before public use, which contain limits of liability regarding their use.

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