

TABLE OF CONTENTS

Sections and Statistics:

Basic Optics

Slide sets: 26

Fundamentals/Embryology/Low Vision/Trauma (FELT)

Slide sets: 26

Glaucoma

Slide sets: 22

Cornea/External Disease

Slide sets: 45

Lens/Cataract

Slide sets: 16

Neuro-Ophthalmology

Slide sets: 19

Oculoplastics

Slide sets: 20

Pediatrics/Strabismus

Slide sets: 22

Retina/Vitreous

Slide sets: 67

Uveitis

Slide sets: 29

Refractive Surgery

Slide sets: 8

TOTAL:

Slide sets: ~300

Slides: 27,000+

START BASIC OPTICS (BO)

BO1. Vergence: Basics. KW: Vergence; diopters

BO2. Vergence: Lenses. KW: Lenses; divergence; convergence

BO3. Vergence: The vergence formula. KW: Vergence formula

BO4. Focal Points. KW: Primary focal point; secondary focal point; conjugate points

BO5. The far point and refractive error. KW: Far point; myopia; hyperopia; Gllstrand reduced schematic eye

BO6. The essence of spectacle correction. KW: Refraction; myopia; hyperopia

BO7. Vertex distance. KW: Vertex distance; refraction

BO8. The error lens concept. KW: Refraction; refractive error; error lens

BO9. The near point. KW: Near point

BO10. Astigmatic refractive error: Introduction. KW: Cylindrical lenses; astigmatism; spherical equivalent; spherocylindrical lens

BO11. The conoid of Sturm. KW: Conoid of Sturm; cylindrical lenses; astigmatism; spherical equivalent; spherocylindrical lens

BO12. Astigmatic refractive correction: Retinoscopy. KW: Conoid of Sturm; astigmatism; retinoscopy

BO13. Astigmatic refractive correction: Jackson cross. KW: Cylindrical lenses; astigmatism; spherical equivalent; spherocylindrical lens; Conoid of Sturm; Jackson cross lens; bisector angle

BO14. Astigmatic refractive correction: Types of astigmatism. KW: Compound myopia; simple myopia; mixed astigmatism; simple hyperopia; compound hyperopia; astigmatism; against the rule astigmatism; with the rule astigmatism

BO15. Astigmatic refractive error: The power cross. KW: Astigmatism; power cross.

BO16. Refraction basics. KW: Refractive index; the normal

BO17. Snell's law. KW: Snell's law; paraxial rays; Fermat's principle of least time; critical angle; optical axis

BO18. Refraction: Points and planes. KW: Primary focal plane; secondary focal plane; nodal point; optical axis; thin lens; thick lens

BO19. Ray tracing. KW: Real object/image; virtual object/image; ray tracing

BO20. Transverse magnification. KW: Transverse magnification

BO21. Axial magnification. KW: Axial magnification; indirect ophthalmoscopy

BO22. Angular magnification. KW: Angular magnification; simple magnifier

BO23. Telescopes. KW: Astronomical telescope; Galilean telescope; angular magnification

BO24. Bifocal add: Image jump and image displacement. KW: Bifocal; flat-top segment; round-top segment; image jump; image displacement; Prentice's rule

BO25. Mirrors. KW: Mirrors; reflection; concave mirror; convex mirror; plane mirror; center of curvature; radius of curvature

BO26. Chromatic aberration. KW: Refractive surgery; aberrations; chromatic aberration; night myopia

END BASIC OPTICS (BO)

START FUNDAMENTALS/EMBRYOLOGY/LOW VISION/TRAUMA (FELT)

FELT1. EOM fiber types. KW: Fundamentals; extraocular muscle innervation; extraocular muscles

FELT2. EOM innervation. KW: Fundamentals; extraocular muscle innervation; extraocular muscles

FELT3. Sherrington's law and Hering's law. KW: Fundamentals; extraocular muscles; Sherrington's law; Hering's law; DVD; Duane syndrome; cardinal positions of gaze; yoke muscles

FELT4. PAX Ophthalmicana. KW: Fundamentals; aniridia; cataracts (congenital); PAX6 gene; PAX3 gene; PAX2 gene; Peters anomaly; optic nerve hypoplasia; aniridia; Waardenburg syndrome

FELT5. Lens embryology. KW: Fundamentals; embryology; lens/cataract; Mittendorf dot; persistent fetal vasculature (PFV); Bergmeister papilla; prepapillary vascular loop; persistent hyperplastic primary vitreous (PHPV); primary vitreous; secondary vitreous; tertiary vitreous; tunica vasculosa lentis; pediatrics

FELT6. Optic nerve anatomy. KW: Fundamentals; neuro-ophthalmology; optic nerve head (ONH); optic disc; Parinaud syndrome; glaucoma; papilledema; intracranial pressure (ICP)

FELT7. Anterior segment dysgenesis. KW: Embryology; cornea; pediatrics; Axenfeld-Reiger; posterior keratoconus; Peters anomaly; Alagille syndrome; aniridia; arcus senilis; arcus juvenilis; posterior embryotoxon; anterior embryotoxon; anterior gerotoxon; xanthelasma; WAGR complex; microspherophakia

FELT8. Heterochromia iridis. KW: Fundamentals; iris; pediatrics; Horner syndrome; Waardenburg syndrome; juvenile xanthogranuloma (JXG); retinoblastoma; siderosis; hypertelorism; telecanthus; melanoma (choroidal); incontinentia pigmenti; oculodermal melanocytosis; dystopia canthorum; synophrys

FELT9. Abnormalities of pupil structure. KW: Fundamentals; pediatrics; iris; ectopia lentis et pupillae; microspherophakia; coloboma

FELT10. Developmental abnormalities of the optic nerve head. KW: Fundamentals; pediatrics; neuro-ophthalmology; optic nerve head; coloboma (optic nerve head); megalopapilla; optic pit/hole; morning-glory disc; optic nerve hypoplasia; superior segmental optic nerve hypoplasia (SSONH); tilted-disc syndrome; CHARGE association; de Morsier syndrome; periventricular leukomalacia; superior segmental hypoplasia

FELT11. Pediatric corneal epithelial trauma. KW: Trauma; cornea; pediatrics

FELT12. Hyphema. KW: Trauma; pediatrics; hyphema; sickle-cell disease

FELT13. Sickle-cell disease and the eye. KW: Fundamentals; pediatrics; retina/vitreous; sickle-cell disease

FELT14. Ectopia lentis. KW: Fundamentals; lens/cataract; Marfan syndrome; homocystinuria; aniridia; lens subluxation; ectopia lentis; simple ectopia lentis; ectopia lentis et pupillae; microspherophakia

FELT15. Ischemic ocular conditions associated with cataracts. KW: Fundamentals; lens/cataract; anterior segment ischemia syndrome; ocular ischemia syndrome (OIS); strabismus

FELT16. Blood and thunder and salmon and silver and bronze. KW: Fundamentals; central retinal vein occlusion (CRVO); retina/vitreous; cornea/external disease; Behçet disease; sickle-cell disease; Fuchs dystrophy; Stargardt disease; iridocorneal endothelial syndrome

FELT17. Acid-base injury of the ocular surface. KW: Fundamentals; trauma; chemical injury; cornea/external disease; cornea; conjunctivitis

FELT18. Low Vision: Visual deficits, refraction, magnification, telescopes. KW: Fundamentals; low vision; refraction; magnification; telescopes.

FELT19. Scleral rupture. KW: Trauma; scleral rupture

FELT20. Aicardi syndrome. KW: Aicardi syndrome.

FELT21. Eye embryology made simply ridiculous. KW: Embryology; pediatrics; posterior embryotoxon; Axenfeld-Reiger; posterior keratoconus; Peters anomaly; neurocrisopathy

FELT22. A smooth shout-out to Dr. Fuchs. KW: Fuchs endothelial dystrophy; Fuchs adenoma; Fuchs marginal keratitis; Dalén - Fuchs nodule; Fuchs heterochromic iridocyclitis; Fuchs coloboma; Fuchs spot; Fuchs crypts; medulloepithelioma

FELT23. HIV and the eye. KW: HIV; AIDS; Herpes zoster ophthalmicus (HZO); acute retinal necrosis (ARN); progressive outer retinal necrosis (PORN); CMV retinitis; Kaposi sarcoma; immune recovery uveitis

FELT24. Peters anomaly. KW: Embryology; cornea; pediatrics; Peters anomaly

FELT25. Type I DM. KW: Fundamentals; type 1 DM; juvenile-onset DM; insulin-dependent DM (IDDM); Wolfram syndrome; retina/vitreous; diabetic retinopathy

FELT26. Lasers: Pew! Pew!. KW: Fundamentals; refractive surgery; cornea; keratorefractive surgery; excimer laser; femtosecond laser; laser-tissue interaction; fluence; PDT; plasma; photocoagulation; YAG

END FUNDAMENTALS/EMBRYOLOGY/LOW VISION/TRAUMA

START GLAUCOMA

G0. Glaucoma overview. KW: Glaucoma; primary open-angle glaucoma (POAG); angle-closure glaucoma; visual fields; optic nerve head; intraocular pressure (IOP)

G1. Types of pediatric glaucoma. KW: Glaucoma; pediatrics; glaucoma (congenital); glaucoma (juvenile)

G2. Primary congenital glaucoma. KW: Glaucoma; pediatrics; glaucoma (congenital)

G3. Childhood glaucoma: Treatment. KW: Glaucoma; pediatrics; glaucoma (congenital); goniotomy; trabeculotomy

G4. Pseudoexfoliation syndrome vs pigment dispersion syndrome. KW: Glaucoma; lens/cataract; cataract surgery; pseudoexfoliation syndrome (PXS); pigment dispersion syndrome (PDS); Sampaolesi line; Scheie stripe; Zentmayer line; Krukenberg spindle

G5. β -blocker side effects. KW: Glaucoma; fundamentals; β -blockers

G6. Post filtering-surgery infection. KW: Glaucoma; retina/vitreous; uveitis; endophthalmitis

G7. The Goldmann equation. KW: Glaucoma; fundamentals; Goldmann equation; aqueous formation; trabecular meshwork; conventional outflow; unconventional outflow; pressure-dependent outflow; pressure-independent outflow; uveoscleral outflow; TM outflow

G8. Ocular hypotensive medicines. KW: Glaucoma; glaucoma medicines; beta blockers; selective alpha agonists; prostaglandin analogues; miotics; rho kinase inhibitors; carbonic anhydrase inhibitors; nonselective alpha/beta agonists

G9. Applanation tonometry. KW: Glaucoma; fundamentals; applanation tonometry

G10. The jacked-up angle. KW: Glaucoma; trauma; angle recession; cyclodialysis cleft; iridodialysis; angle-recession glaucoma

G11. Retinal ganglion cell types and visual field testing. KW: Glaucoma; fundamentals; ganglion cells; perimetry; standard automated perimetry (SAP); short-wavelength automated perimetry (SWAP); frequency doubling technology (FDT); visual fields

G12. Glaucoma and ethnicity. KW: Glaucoma; glaucoma (ethnicity); pseudoexfoliation syndrome (PXS); glaucoma (open angle; OAG); glaucoma (angle closure); glaucoma (normal-tension)

G13. Open-angle glaucoma: Secondary. KW: Glaucoma; glaucoma (secondary); phacolytic glaucoma; phacoantigenic glaucoma; lens-particle glaucoma; phacomorphic glaucoma; Posner-Schlossman syndrome; Fuchs heterochromic iridocyclitis (FHI); lens/cataract; cataract; hemolytic glaucoma; ghost-cell glaucoma; Schwartz syndrome; episclera; episcleral venous plexus; episcleral venous pressure (EVP); orbital varix; drug-induced glaucoma; steroid-induced glaucoma; pseudoexfoliation syndrome (PXS); pigmentary dispersion glaucoma (PDS)

G14. Secondary open-angle glaucoma after intraocular bleed. KW: Glaucoma; trauma; glaucoma (secondary); hyphema; secondary open-angle glaucoma; vitreous hemorrhage; hemolytic glaucoma; ghost-cell glaucoma; Schwartz syndrome

G15. Open-angle glaucoma: Primary. KW: Glaucoma; glaucoma (open angle; OAG); primary open angle glaucoma (POAG); corneal hysteresis

G16. Secondary angle-closure glaucoma. KW: Glaucoma; glaucoma (angle closure); ocular ischemic syndrome (OIS); central retinal vein occlusion (CRVO); iridocorneal endothelial syndrome (ICE); Neovascular glaucoma (NVG); neovascularization of the iris (NVI); neovascularization of the angle (NVA); Marfan syndrome; ectopia lentis; phacomorphic glaucoma; aphakic glaucoma; aqueous misdirection syndrome; persistent fetal vasculature (PFV); epithelial ingrowth; fibrous ingrowth; topiramate; medulloepithelioma

G17. Acute primary angle-closure glaucoma. KW: Glaucoma; gonioscopy; primary angle-closure glaucoma; iridotomy; iridoplasty; pupilloplasty

G18. Primary angle-closure glaucoma. KW: Glaucoma; glaucoma (angle closure); gonioscopy; plateau iris syndrome; acute angle closure glaucoma; subacute angle closure glaucoma; chronic angle closure glaucoma

G19. Glaucoma clinical trials. KW: Glaucoma; glaucoma clinical trials; Tube versus Trabeculectomy (TVT) Study; Collaborative Normal-Tension Glaucoma Study; Advanced Glaucoma Intervention Study; Glaucoma Laser Trial; Collaborative Initial Glaucoma Treatment Study; Early Manifest Glaucoma Trial; Ocular Hypertension Treatment Study

G20. Unilateral elevated IOP. KW: Glaucoma; glaucoma (unilateral); Fuchs heterochromic iridocyclitis (FHI); Posner-Schlossman syndrome; lens/cataract; cataract; Grave's disease; Arlt's triangle

G21. Normal-tension glaucoma. KW: Glaucoma; normal-tension glaucoma; Posner-Schlossman syndrome; pigment-dispersion syndrome; Scheie stripe; Zentmayer line

G22. Lens-induced secondary open-angle glaucoma. KW: Glaucoma; lens/cataract; cataract surgery; trauma; glaucoma (secondary); secondary open-angle glaucoma; phacolytic glaucoma; phacoantigenic glaucoma; lens-particle glaucoma; immunology; adaptive immune response; innate immune response; mature cataract; hypermature cataract; intumescent cortical cataract; morgagnian cataract; Argentinian flag sign

END GLAUCOMA

START CORNEA/EXTERNAL DISEASE

K1. Conjunctivitis occurring within the first month of life. KW: External disease; conjunctivitis; conjunctivitis (neonatal); ophthalmia neonatorum; pediatrics

K2. Adenoviral conjunctivitis. KW: External disease; conjunctivitis; epidemic keratoconjunctivitis (EKC); pharyngoconjunctival fever (PCF)

K3. Acute/hyperacute conjunctivitis. KW: External disease; conjunctivitis

- K4. Regarding interstitial keratitis. KW: Cornea; keratitis; keratitis (interstitial, IK); Cogan syndrome; syphilis (congenital); trachoma
- K5. Horizontal corneal lines vs vertical corneal lines. KW: Cornea; pediatrics; glaucoma; Haab striae; Vogt striae; posterior polymorphous dystrophy (PPMD); Khodadoust line
- K6. Vernal keratoconjunctivitis (VKC) vs atopic keratoconjunctivitis (AKC). KW: External disease; conjunctivitis; atopic keratoconjunctivitis (AKC); vernal keratoconjunctivitis (VKC); pediatrics
- K7. Superior limbic keratoconjunctivitis. KW: Superior limbic keratoconjunctivitis; SLK, contact lens keratoconjunctivitis
- K8. Re Stevens-Johnson syndrome: True, False, or Controversial? KW: External disease; cornea; Stevens-Johnson syndrome (SJS); pediatrics; erythema multiforme minor; erythema multiforme major; toxic epidermal necrolysis (TEN); symblepharon
- K9. The STUMPED mnemonic for infantile cloudy cornea. KW: Cornea; pediatrics; STUMPED mnemonic; Goldenhar syndrome; dermoid; dermolipoma; glaucoma (pediatric); Peters anomaly; congenital hereditary endothelial dystrophy (CHED); congenital hereditary stromal dystrophy (CHSD); congenital glaucoma; sclerocornea
- K10. Congenital/developmental cornea issues. KW: Cornea; pediatrics; megalocornea; microcornea; cornea plana; posterior embryotoxon; epidermal (limbal) dermoid
- K11. Is it ICE, PPMD or Fuchs? KW: Iridocorneal endothelial syndrome; posterior polymorphous dystrophy; Fuchs endothelial dystrophy
- K12. Corneal ectasias. KW: Cornea; ectasia (cornea); keratoconus (KCN); keratoglobus; pellucid marginal degeneration; keratorefractive surgery; Ehlers-Danlos syndrome; osteogenesis imperfecta
- K13. Selected systemic diseases of childhood with corneal findings. KW: Cornea; pediatrics; Wilson's disease; Kayser-Fleischer ring; syphilis (congenital); cystinosis; Riley-Day syndrome; cysteamine; Fanconi syndrome
- K14. Re contact lenses: What does the term *Dk* mean? KW: Cornea; contact lens
- K15. Glands of the orbit (but not that one). KW: External disease/cornea; tear film; meibum; sebum; Meibomian gland; sebaceous gland; gland of Zeis; gland of Moll; gland of Wolfring; gland of Krauss; matrix metalloproteinase 9 (MMP-9); doxycycline
- K16. Blepharitis: Staph, MGD, Seborrheic, Rosacea, Demodex. KW: Cornea/external disease; external disease; meibomian gland disease (MGD); blepharitis; dry eye syndrome (DES); Rosacea; seborrheic blepharitis; Demodex

K17. It's dendritiform keratopathy, haters. KW: Cornea/external disease; cornea; keratitis; keratitis (infectious); dendritic keratitis; Thygeson's; HSV keratitis; epithelial basement membrane disease; *Acanthamoeba*; herpes zoster ophthalmicus (HZO)

K18. Managing blepharitis. KW: External disease/cornea; blepharitis; Demodex; lid hygiene; meibomian gland disease; lid hygiene

K19. Dry eye syndrome: Dietary factors. External disease/cornea; dry eye syndrome

K20. Langerhans vs Langhans cells. KW: Cornea/external disease; fundamentals; Langerhans cell; dendritic cell; antigen presenting cell (APC)

K21. Hypersensitivity reactions of the ocular surface. KW: Cornea/external disease; fundamentals; Type I, Type II, Type III, Type IV hypersensitivity reactions

K22. Corneal transparency. KW: Cornea/external disease; cornea; fundamentals

K23. Anterior HSV dz. KW: Cornea/external disease; cornea; external disease; keratitis; keratitis (infectious); herpes simplex (HSV); uveitis; glaucoma; Herpetic Eye Disease Study (HEDS)

K24. Surfer's eye. (Surfer's eye?) KW: Cornea/external disease; cornea; external disease; pterygium; dellen; Stocker line; pinguecula

K25. Conjunctival neoplasms. KW: Cornea/external disease; external disease; neoplasm; neoplasm (conjunctival); melanoma (conjunctival); neoplasm (squamous cell); complexion-associated melanosis (CAM)

K26. Iridocorneal endothelial (ICE) syndrome. KW: Iridocorneal endothelial syndrome; ICE; Cogan-Reese syndrome, essential iris atrophy; Chandler syndrome

K27. All the following are associated with follicular conjunctivitis except... KW: External disease; conjunctivitis; epidemic keratoconjunctivitis (EKC); trachoma; pharyngoconjunctival fever (PCF); Chlamydia; Parinaud oculoglandular syndrome

K28. Corneal wound healing. KW: Cornea/external disease; cornea; cornea (wound healing); fundamentals

K29. All the following concerning mucous membrane pemphigoid (MMP) are true *except*... KW: Cornea/external disease; external disease; cornea; mucous membrane pemphigoid (MMP); ocular cicatricial pemphigoid (OCP); pseudopemphigoid; symblepharon

K30. Corneal iron lines. KW: Cornea/external disease; cornea; fundamentals; glaucoma; Stocker line; Ferry line; Hudson-Stähli line; Fleischer line

K31. Keratitis bugs. KW: Cornea/external disease; cornea; keratitis; keratitis (infectious); contact lens

K32. Infectious keratitis: Short answers. KW: Cornea/external disease; cornea; keratitis; keratitis (infectious); keratitis (fungal); keratitis (Acanthamoeba)

K33. Concerning PUK... KW: Cornea/external disease; cornea; keratitis; keratitis (infectious); keratitis (peripheral); Behçet disease; Mooren's ulcer; Terrien's marginal degeneration; rheumatoid arthritis; Wegener's granulomatosis; polyarteritis nodosa; relapsing polychondritis; Churg-Strauss disease

K34. Restasis. KW: Cornea/external disease; Restasis; cyclosporine; external disease; blepharitis; dry eye syndrome (DES)

K35. Filamentary keratitis. KW: Cornea/external disease; cornea; keratitis; keratitis (filamentary); dry eye syndrome (DES)

K36. Seasonal allergic conjunctivitis (SAC) vs perennial allergic conjunctivitis (PAC). KW: Cornea/external disease; external disease; conjunctivitis; seasonal allergic conjunctivitis (SAC); perennial allergic conjunctivitis (PAC)

K37. HZO manifestations. KW: Cornea/external disease; cornea; external disease; herpes zoster ophthalmicus (HZO); retina; uveitis; neuro-ophthalmology; optic neuritis; disc edema

K38. Concerning keratoconus. KW: Cornea/external disease; cornea; keratoconus; Fleischer ring; Rizutti's sign; Munson's sign; Vogt lines; collagen cross-linking (CXL); deep anterior lamellar keratoplasty (DALK); intrastromal corneal ring segments (ICRS); Khodadoust line

K39. Phlyctenulosis. KW: Cornea/external disease; cornea; external disease; phlyctenulosis; hypersensitivity reactions

K40. Corneal dystrophies: READ ME FIRST. KW: Cornea/external disease; cornea; epithelial basement membrane dystrophy; Meesmann's dystrophy; Lisch epithelial corneal dystrophy; gelatinous droplike corneal dystrophy; subepithelial mucinous corneal dystrophy; Reis-Bückler corneal dystrophy; Thiel-Behnke corneal dystrophy; lattice dystrophy type 1; lattice dystrophy variant types; granular dystrophy type 1; granular dystrophy type 2; Meretoja syndrome; macular dystrophy; Schnyder corneal dystrophy; congenital stromal corneal dystrophy; fleck corneal dystrophy; posterior amorphous corneal dystrophy; pre-Descemet corneal dystrophy; Fuchs endothelial corneal dystrophy; posterior polymorphous dystrophy (PPMD); congenital hereditary endothelial dystrophy

K41. Corneal dystrophies: Epithelial and subepithelial dystrophies. KW: Cornea/external disease; cornea; epithelial basement membrane dystrophy; Meesmann's dystrophy; Lisch epithelial corneal dystrophy; gelatinous droplike corneal dystrophy; subepithelial mucinous corneal dystrophy

K42. Corneal dystrophies: Epithelial-stromal TGFBI dystrophies. KW: Cornea/external disease; cornea; Reis-Bückler corneal dystrophy; Thiel-Behnke corneal dystrophy; lattice dystrophy type 1; lattice dystrophy variant types; granular dystrophy type 1; granular dystrophy type 2; Meretoja syndrome

K43. Corneal dystrophies: Stromal dystrophies. KW: Cornea/external disease; cornea; macular dystrophy; Schnyder corneal dystrophy; congenital stromal corneal dystrophy; fleck corneal dystrophy; posterior amorphous corneal dystrophy; pre-Descemet corneal dystrophy

K44. Corneal dystrophies: The Big 3. KW: Cornea/external disease; cornea; macular dystrophy; granular dystrophy type 1; granular dystrophy type 2; lattice dystrophy

K45. Corneal dystrophies: Endothelial dystrophies. KW: Cornea/external disease; cornea; Fuchs endothelial corneal dystrophy; posterior polymorphous dystrophy (PPMD); congenital hereditary endothelial dystrophy

END CORNEA/EXTERNAL DISEASE

START LENS/CATARACT

L1. Cataracts: True/False. KW: Lens/cataracts; cataracts (congenital); cataracts (lamellar); myotonic dystrophy; Alport syndrome; retinoblastoma; persistent hyperplastic primary vitreous (PHPV)

L2. Post-op endophthalmitis after cataract surgery. KW: Lens/cataract; cataract surgery; endophthalmitis; Endophthalmitis Vitrectomy Study (EVS); toxic anterior segment syndrome (TASS); intracameral antibiotics; acute post-op endophthalmitis; chronic post-op endophthalmitis; UGH syndrome

L3. Re microspherophakia. KW: Lens/cataract; microspherophakia; glaucoma; Weill-Marchesani syndrome; familial oculorenal syndrome; ectopia lentis et pupillae; Lowe syndrome; Alport syndrome

L4. Lenticonus: Wadda ya know? KW: Lens/cataract; lenticonus; lenticonus (anterior); lenticonus (posterior); pediatrics; Alport syndrome; Lowe syndrome; ciliopathies; Bardet-Biedl syndrome; Alström syndrome; Joubert syndrome; Senior-Løken syndrome

L5. Lens luxation/subluxation in the pediatric population. KW: Lens/cataract; pediatrics; lens subluxation; ectopia lentis (simple); ectopia lentis et pupillae; Marfan syndrome; aniridia; homocystinuria

L6. Choroidal hemorrhage. KW: Lens/cataract; cataract surgery; choroidal hemorrhage

L7. Lens measurements. KW: Lens/cataract; fundamentals; lens; zonules

L8. Shallow anterior chamber after cataract surgery. KW: Lens/cataract; cataract surgery; choroidal detachment; pupillary block; suprachoroidal hemorrhage; expulsive choroidal hemorrhage; aqueous misdirection syndrome

L9. Lens proteins. KW: Lens/cataract; fundamentals; lens; lens proteins

L10. Lens metabolism. KW: Lens/cataract; fundamentals; lens; lens metabolism

L11. Property of a dispersive or a cohesive viscoelastic. KW: Lens/cataract; cataract surgery; viscoelastics

L12. IOLs. KW: Lens/cataract; cataract; cataract surgery; IOLs; presbyopia-correcting IOLs; intraocular lens (IOL); multifocal IOL; accommodative IOL; non-accommodative IOL; refractive IOL; diffractive IOL; posterior capsular opacification (PCO); Elschnig pearls; Soemmering ring; Wedl cells; modulation transfer function (MTF); dysphotopsias; presbyopia; presbyopia-correcting IOLs; monovision

L13. Anterior vs posterior polar cataracts. KW: Lens/cataract; lens; cataract (polar); cataract

L14. Identify the cataract type: NSC, cortical, and PSC. KW: Lens/cataract; cataract; nuclear sclerotic cataract (NSC); cortical cataract; posterior subcapsular cataract (PSC); snowflake cataract

L15. Cataracts associated with blunt trauma or radiation. KW: Lens/cataract; cataract; trauma; Vossius ring; glassblower's cataract; exfoliation

L16. IOL calculations. KW: Lens/cataract; cataract surgery; intraocular lens (IOL); IOL calculations; keratorefractive surgery; radial keratotomy; LASIK; SRK; Holladay; Haigis

END LENS/CATARACT

START NEURO-OPHTH

N1. Miscellaneous neuro. KW: Neuro-ophthalmology; nystagmus; Tolosa-Hunt syndrome; chronic progressive external ophthalmoplegia (CPEO); pediatrics; botulism

N2. Visual field defects. KW: Neuro-ophthalmology; glaucoma; visual fields; Fuchs coloboma (tilted disc syndrome)

- N3. Horner syndrome: Central, pre-ganglionic or post-ganglionic. KW: Neuro-ophthalmology; Horner syndrome; Wallenberg syndrome; carotid dissection; hydroxyamphetamine (Paradrine); denervation supersensitivity; sympathetic pathway; deep petrosal nerve; greater petrosal nerve; vidian nerve; vidian canal; lateropulsion; ocular lateropulsion
- N4. Anisocoria. KW: Neuro-ophthalmology; anisocoria; pupil; Adie syndrome; Parinaud syndrome; oculogyric crisis
- N5. On Leber's hereditary optic neuropathy. KW: Neuro-ophthalmology; Leber's hereditary optic neuropathy (LHON); optic neuropathy
- N6. Apparent optic nerve head swelling in childhood. KW: Neuro-ophthalmology; disc edema; optic neuropathy; optic neuritis; papilledema; optic nerve head (ONH)
- N7. Idiopathic intracranial hypertension. KW: Neuro-ophthalmology; disc edema; papilledema; pseudotumor cerebri (PC); isotretinoin; optic nerve head (ONH)
- N8. Typical optic neuritis. KW: Neuro-ophthalmology; optic neuropathy; optic nerve head (ONH); optic neuritis; Optic Neuritis Treatment Trial (ONTT); multiple sclerosis (MS); neuromyelitis optica (NMO)
- N9. Systemic drugs and ocular toxicity: Acquired optic neuropathy. KW: Neuro-ophthalmology; optic neuropathy; ethambutol; rifampin; isoniazid; streptomycin; linezolid; chloramphenicol; ; isotretinoin; cyclosporine
- N10. Which of the following concerning CPEO are incorrect? KW: Neuro-ophthalmology; chronic progressive external ophthalmoplegia (CPEO); Kearns-Sayre syndrome; Tensilon; edrophonium; myasthenia gravis (MG); myotonic dystrophy
- N11. CHAMPS. KW: Neuro-ophthalmology; optic neuritis; multiple sclerosis; optic neuropathy; optic nerve head (ONH); Controlled High-risk subject Avonex in Multiple sclerosis Prevention Study (CHAMPS)
- N12. Motility disorders: Nontraumatic isolated CN6 palsy. KW: Neuro-ophthalmology; sixth-nerve palsy; abducens nerve palsy
- N13. Motility disorders: Nontraumatic isolated CN3 palsy. KW: Neuro-ophthalmology; third-nerve palsy; oculomotor nerve palsy; CN3 palsy; compressive CN3 palsy; ischemic CN3 palsy; aneurysmal CN3 palsy; posterior communicating artery aneurysm (PComm aneurysm); aberrant regeneration; primary aberrant regeneration; pupillary pathway; sympathetic pathway; parasympathetic pathway
- N14. Motility disorders: Fascicular syndromes. KW: Neuro-ophthalmology; fascicular syndromes; sixth-nerve palsy; abducens nerve palsy; third-nerve palsy; oculomotor nerve

palsy; Nothnagel syndrome; Benedikt syndrome; Weber syndrome; Gradenigo syndrome; Millard-Gubler syndrome; Claude syndrome

N15. Optic nerve sheath fenestration. KW: Neuro-ophthalmology; optic nerve sheath fenestration; idiopathic intracranial hypertension (IIH); optic nerve head (ONH); papilledema; nonarteritic anterior ischemic optic neuropathy (NAION); surgical spaces; the Ischemic Optic Neuropathy Decompression Trial (IONDT)

N16. Parinaud syndrome. KW: Neuro-ophthalmology; light-near dissociation; lid retraction; convergence-retraction nystagmus; dorsal midbrain syndrome; pretectal syndrome; oculozytic crisis

N17. Ischemic optic neuropathy. KW: Neuro-ophthalmology; optic neuropathy; optic nerve head (ONH); nonarteritic anterior ischemic optic neuropathy (NAION), arteritic anterior ischemic optic neuropathy (AAION), giant cell arteritis (GCA); temporal arteritis (TA); posterior ischemic optic neuropathy (PION)

N18. Motility disorders: Overview. KW: Neuro-ophthalmology; motility disorders; supranuclear pathway; infranuclear pathway; internuclear pathway; medial longitudinal fasciculus (MLF); internuclear ophthalmoplegia; supranuclear palsy; fascicular syndromes

N19. Motility disorders: The sinus, the fissure, and the apex. KW: Neuro-ophthalmology; motility disorders; cavernous sinus; superior orbital fissure; Tolosa-Hunt syndrome; Dorello's canal; inferior petrosal sinus; orbital apex; carotid-cavernous sinus fistula

N20. Motility disorders: Internuclear ophthalmoplegia. KW: Neuro-ophthalmology; motility disorders; internuclear pathway; medial longitudinal fasciculus (MLF); internuclear ophthalmoplegia; CN6 nuclear palsy; WEBINO; pseudo-INO; Cogan lid twitch; one-and-a-half syndrome; eight-and-a-half syndrome

END NEURO-OPHTH

START OCULOPLASTICS

O1. Congenital lid abnormalities. KW: Oculoplastics; ankyloblepharon; ankyloblepharon filiform adnatum; euryblepharon; cryptophthalmos; epiblepharon; coloboma (lid); tarsal kink; dystopia canthorum; cryptophthalmos; epicanthus; blepharophimosis syndrome

O2. Congenital ptosis. KW: Oculoplastics; ptosis; ptosis (congenital); myogenic dysgenesis; Marcus Gunn jaw wink; congenital cranial dysinnervation disorder; frontalis sling

O3. Is it ectropion, or DES? KW: Oculoplastics; ectropion; dry eye syndrome (DES)

O4. Managing paralytic ectropion. KW: Oculoplastics; ectropion; paralytic ectropion; facial palsy; tarsorrhaphy (63 slides)

O5. Graves (thyroid eye disease). KW: Oculoplastics; orbit; Graves disease; thyroid eye disease; myasthenia gravis

O6. The pathogenesis of lower-lid involitional entropion vs ectropion. KW: Oculoplastics; entropion; ectropion; lateral tarsal strip; re-insertion of lower-lid retractors; Quickert sutures; Whitnall's ligament; Lockwood's ligament; lateral orbital tubercle of Whitnall; levator aponeurosis; horns of the levator aponeurosis; orbital and palpebral lobes of the lacrimal gland; orbicularis oculi; muscle of Riolan; gray line; capsulopalpebral head; capsulopalpebral fascia

O7. Congenital ectropion. KW: Oculoplastics; pediatrics; ectropion; ectropion (congenital); blepharophimosis syndrome; epicanthus; telecanthus; eyelid lamellae

O8. Congenital nasolacrimal duct obstruction and dacryoceles. KW: Oculoplastics; orbit; pediatrics; congenital nasolacrimal duct obstruction (congenital NLDO); dacryocystocele; dacryoceles; mucocele; amniotocele; meningocele; encephalocele; meningoencephalocele

O9. Pigmented eyelid and epibulbar lesions. KW: melanoma (eyelid); melanoma (conjunctival); ocular melanocytosis; oculodermal melanocytosis; nevus of Ota

O10. Vascular lesions of the orbit. KW: Oculoplastics; orbit; pediatrics; capillary hemangioma; lymphangioma; cavernous hemangioma; port-wine stain

O11. The 'vicious cycle' of spastic entropion. KW: Oculoplastics; entropion; entropion (spastic); Quickert sutures

O12. Dermoid cysts, and dermoid cysts. KW: Oculoplastics; orbit; pediatrics; dermoid cyst; epidermoid cyst

O13. Orbital rhabdomyosarcoma. KW: Oculoplastics; orbit; pediatrics; rhabdomyosarcoma; embryonal rhabdomyosarcoma; alveolar rhabdomyosarcoma

O14. Orbital neuroblastoma. KW: Oculoplastics; orbit; pediatrics; neuroblastoma; opsoclonus; opsoclonus-myoclonus-ataxia syndrome (OMAS)

O15. Differential for an intraconal mass. KW: Oculoplastics; orbit; cavernous hemangioma; hemangiopericytoma; fibrous histiocytoma; Schwannoma

O16. Lacrimal gland enlargement. KW: Oculoplastics; orbit; lacrimal gland; sarcoidosis; pleomorphic adenoma; adenoid cystic carcinoma

O17. Eye bones (comprising the orbit). KW: Oculoplastics; orbit; fundamentals

O18. Proptosis. KW: Oculoplastics; orbit; proptosis; Graves disease; thyroid eye disease (TED); pediatrics; lymphangioma; orbital cellulitis; rhabdomyosarcoma; optic nerve glioma

O19. Anticoagulation and blepharoplasty. KW: Oculoplastics; blepharoplasty; orbit

O20. Cicatricial ectropion, cicatricial entropion. KW: Oculoplastics; ectropion; entropion; cicatricial ectropion; cicatricial entropion; trichiasis; distichiasis; trachoma

O21. Acquired ptosis. KW: Oculoplastics; involutional ptosis; aponeurotic dehiscence; myotonic dystrophy; myasthenia gravis; botulism; chronic progressive external ophthalmoplegia (CPEO)

END ORBIT/PLASTICS

START PEDIATRICS/STRABISMUS

P1. Pediatric pre-septal cellulitis. KW: Pediatrics; orbit; oculoplastics; cellulitis (pre-septal)

P2. Pediatric orbital cellulitis. KW: Pediatrics; orbit; oculoplastics; pseudotumor (orbital)

P3. Intraocular tumors in childhood. KW: Pediatrics; neoplasm; retina/vitreous; neoplasm (intraocular); retinoblastoma; juvenile xanthogranuloma (JXG); medulloepithelioma; diktyoma; congenital hyperplasia of the retinal pigment epithelium (CHRPE); osteoma; focal choroidal hemangioma; diffuse choroidal hemangioma; Gardner syndrome; Muir-Torre syndrome; combined hamartoma of the retina and RPE; melanocytoma; iris mammilations

P4. Nystagmus. KW: Pediatrics; nystagmus; spasmus nutans; opsoclonus; congenital ocular motor apraxia; latent nystagmus; manifest latent nystagmus; periodic alternating nystagmus; monocular nystagmus of childhood; gaze-evoked nystagmus; Alexander's law; Heimann-Bielschowsky phenomenon

P5. Comitant esotropia. KW: Pediatrics; strabismus; esotropia; nystagmus; spasm of the near; Ciancia syndrome; latent nystagmus; nystagmus blockage syndrome; AC/A ratio; accommodative esotropia; refractive esotropia

P6. Comitant exotropia. KW: Pediatrics; strabismus; exotropia; intermittent exotropia; convergence insufficiency; tenacious proximal fusion; divergence excess; basic XT; AC/A ratio

P7. Vertical deviations. KW: Pediatrics; strabismus; Brown syndrome; dissociated vertical deviation (DVD); dissociated torsional deviation (DTD); dissociated horizontal

deviation (DHD); dissociated strabismus complex (DSC); superior oblique; inferior oblique; Maddox rod; head-tilt test; double elevator palsy; monocular elevation deficiency; Marcus-Gunn jaw wink

P8. A or V pattern strabismus. KW: Pediatrics; strabismus; strabismus (A/V pattern); craniosynostosis; craniofacial malformations; Crouzon syndrome; Apert syndrome; Pfeiffer syndrome; hypertelorism; telecanthus; spina bifida

P9. Duane's retraction syndrome. KW: Pediatrics; strabismus; Duane's retraction syndrome; Goldenhar syndrome; congenital cranial dysinnervation disorder

P10. Phakomatoses. KW: Pediatrics; phakomatoses; Neurofibromatosis; tuberous sclerosis; von Hippel-Lindau; Sturge-Weber; ataxia-telangiectasia; incontinentia pigmenti; racemose angioma; diffuse choroidal hemangioma; Klippel-Trénaunay syndrome; combined hamartoma of the retina and RPE

P11. Phakomatoses: Quick hitters. KW: Pediatrics; phakomatoses; Neurofibromatosis; tuberous sclerosis; von Hippel-Lindau; Sturge-Weber; ataxia-telangiectasia; incontinentia pigmenti; racemose angioma; diffuse choroidal hemangioma; Klippel-Trénaunay syndrome

P12. Shaken baby syndrome. KW: Pediatrics; trauma; shaken baby syndrome; retina/vitreous; hemorrhages (retinal)

P14. Sensory response in strabismus: Retinal correspondence, visual confusion *and* diplopia, and sensory adaptations. KW: Pediatrics; strabismus; anomalous retinal correspondence (ARC); normal retinal correspondence (NRC); visual confusion; diplopia; suppression; monofixation syndrome; Panum's area; empirical horopter; Vieth-Muller circle; stereopsis

P15. Pediatric orbital tumors. KW: Pediatrics; neoplasm; neoplasm (orbit); oculoplastics; orbit; optic nerve glioma; fibrous dysplasia; capillary hemangioma; cavernous hemangioma; rhabdomyosarcoma; neuroblastoma; port-wine stain; plexiform neurofibroma

P16. Galactosemia. KW: Pediatrics; cataract; cataract (congenital); galactosemia

P17. Aniridia: True/False. KW: Pediatrics; iris; aniridia; Wilms tumor; WAGR complex; PAX6 gene; WT1 gene; limbal stem cell deficiency

P18. Albinism and the eye. KW: Pediatrics; albinism; nystagmus; Chediak-Higashi syndrome; Hermansky-Pudlak syndrome; albinoidism, Nettleship-Falls albinism

P19. Iris issues in kids: Cysts, nodules and ectropion. KW: Pediatrics; iris; Lisch nodules; Brushfield spots, juvenile xanthogranuloma (JXG); iris cysts; congenital iris ectropion

syndrome; ectropion uveae; iris mammillations; Wolfflin nodules; ocular melanocytosis; oculodermal melanocytosis; Nevus of Ota

P20. Pediatric leukemia and the eye. KW: Pediatrics; retina/vitreous; hemorrhage (retinal); Roth spots; heterochromia iridis

P21. Botox: It's not just for vain rich people anymore! KW: Pediatrics; oculoplastics; Botox; strabismus

P22. Craniofacial malformations. KW: Pediatrics; oculoplastics; craniofacial malformations; craniosynostosis; Crouzon syndrome; Apert syndrome; Pfeiffer syndrome; Saethre-Chotzen syndrome; Goldenhar syndrome; Treacher Collins syndrome; Pierre Robin sequence; fetal alcohol syndrome; Stickler syndrome; branchial (pharyngeal) arches

END PEDIATRICS/STRABISMUS

START RETINA/VITREOUS

R1. Coats disease vs retinoblastoma. KW: Retina/vitreous; pediatrics; neoplasm; neoplasm (intraocular); retinoblastoma (Rb); Coats disease

R2. Concerning retinoblastoma. KW: Retina/vitreous; pediatrics; retinoblastoma (Rb); neoplasm; neoplasm (intraocular); exophytic retinoblastoma; endophytic retinoblastoma, diffuse infiltrating retinoblastoma; masquerade syndrome

R3. Vitreoretinal dystrophies. KW: Retina/vitreous; dystrophy (vitreoretinal); hyaloideoretinopathies; X-linked juvenile retinoschisis; Goldmann-Favre disease; enhanced S-cone syndrome/disease; Norrie disease; Norrie disease-pseudoglioma (NDP) gene; familial exudative vitreoretinopathy (FEVR); Wagner's disease; Jansen's disease; Stickler syndrome; Knobloch syndrome

R4. Causes of spontaneous vitreous hemorrhage in a child. KW: Retina/vitreous; pediatrics; hemorrhage (vitreous)

R5. Differential for a retinitis pigmentosa-like fundus. KW: Retina/vitreous; pediatrics; retinitis pigmentosa (RP); metabolic syndromes; Bassen-Kornzweig disease; abetalipoproteinemia; chronic progressive external ophthalmoplegia (CPEO); Kearns-Sayre syndrome; cancer-associated retinopathy (CAR); peroxisomal disorders; Zellweger syndrome; neonatal adrenoleukodystrophy (NALD); infantile Refsum disease; neuronal ceroid lipofuscinoses; Batten disease; ciliopathies; Bardet-Biedl syndrome; Alström syndrome; Joubert syndrome; Senior-Løken syndrome; LCAT deficiency; fish eye disease; Tangier disease

- R6. What clinical entities besides retinopathy of prematurity produce dragged fovea and/or disc? KW: Retina/vitreous; pediatrics; retinopathy of prematurity (ROP); Toxocara chorioretinopathy; incontinentia pigmenti (IP); familial exudative vitreoretinopathy (FEVR)
- R7. Leukocoria DDX. KW: Retina/vitreous; pediatrics; leukocoria; retinoblastoma (Rb); Coats disease; persistent hyperplastic primary vitreous (PHPV)
- R8. Retinopathy of prematurity. KW: Retina/vitreous; pediatrics; retinopathy of prematurity (ROP); plus disease; rush disease; threshold disease; ET-ROP; BEAT-ROP; CRYO-ROP
- R9. Congenital/stationary retinal disease. KW: Retina/vitreous; pediatrics; congenital stationary night blindness (CSNB); fundus albipunctatus; retinitis punctata albescens; Oguchi disease; enhanced S-cone disease/syndrome; dark adaptation
- R10. Stargardt disease vs Fundus flavimaculatus. KW: retina/vitreous; pediatrics; dystrophy (retina); Stargardt disease; fundus flavimaculatus; lipofuscin; A2E; ABCA4
- R11. Best disease, and adult-onset foveomacular vitelliform dystrophy. KW: Retina/vitreous; Best disease; pediatrics; adult vitelliform disease; electro-oculogram (EOG); dystrophy (retina); pattern dystrophy; adult-onset foveomacular vitelliform dystrophy; butterfly dystrophy; reticular dystrophy; fundus pulverulentus
- R12. White-centered retinal hemorrhages. KW: Retina/vitreous; hemorrhage (retinal); Roth spots
- R13. Coats disease. KW: Retina/vitreous; Coats disease; MacTel Type I
- R14. Anterior PHPV vs Rb. KW: Retina/vitreous; pediatrics; retinoblastoma (Rb); persistent hyperplastic primary vitreous (PHPV); cataract
- R15. Diffuse unilateral subacute neuroretinitis. KW: Retina/vitreous; diffuse unilateral subacute neuroretinitis (DUSN); uveitis
- R16. White dot syndromes. KW: Retina/vitreous; white dot syndromes; uveitis; birdshot chorioretinopathy; serpiginous retinopathy; acute zonal occult outer retinopathy (AZOOR); multiple evanescent white dot syndrome (MEWDS); multifocal choroiditis and panuveitis (MCP); punctate inner choroiditis (PIC); acute posterior multifocal placoid pigment epitheliopathy (APMPPE); diffuse unilateral subacute neuroretinitis (DUSN), serpiginous-like choroiditis; Acute syphilitic posterior placoid chorioretinopathy
- R17. Retinal anatomy and histology. KW: Retina/vitreous; retinal anatomy/histology; fundamentals; retinal pigment epithelium (RPE); Bruch's membrane; retina

anatomy/histology; OCT; sdOCT; interdigitation zone; ellipsoid (zone); myoid (zone); external limiting membrane; Henle's layer

R18. ARN vs PORN (vs CMV). KW: Acute retinal necrosis (ARN); progressive outer retinal necrosis (PORN); AIDS; uveitis; retinal detachment (RD); CMV retinitis; syphilitic retinitis

R19. Fluorescein angiography: Basics. KW: Retina/vitreous; fundamentals; fluorescein angiography (FA)

R20. Choroidal melanoma: Evaluation. KW: Retina/vitreous; retina; choroidal melanoma; Callender system

R21. Choroidal melanoma: Epidemiology. KW: Retina/vitreous; retina; choroidal melanoma

R22. BRAO and CRAO. KW: Retina/vitreous; branch retinal artery occlusion (BRAO); central retinal artery occlusion (CRAO)

R23. Ocular ischemic syndrome (OIS) vs partial/mild CRVO. KW: Retina/vitreous; ocular ischemic syndrome (OIS); central retinal vein occlusion (CRVO); carotid endarterectomy (CEA)

R24. Idiopathic macular hole. KW: Retina/vitreous; idiopathic macular hole; posterior vitreous detachment (PVD); perifoveal vitreous detachment

R25. Plaquenil maculopathy. KW: Plaquenil, plaquenil maculopathy; color vision; multifocal ERG (mfERG); fundus autofluorescence (FAF); optical coherence tomography (OCT)

R26. HTNive oculopathy. KW: Retina/vitreous; fundamentals; neuro-ophthalmology; hypertensive retinopathy; Elschnig spots; Siegrist streaks; hypertensive retinopathy; hypertensive choroidopathy; hypertensive optic neuropathy

R27. Persistent fetal vasculature (PFV). KW: Retina/vitreous; pediatrics; persistent fetal vasculature (PFV); persistent hyperplastic primary vitreous (PHPV); tunica vasculosa lentis; hyaloid artery; Cloquet canal; lens/cataract; glaucoma

R28. Differentiating RRD from retinoschisis. KW: Retina/vitreous; retinal detachment (RD); retinoschisis

R29. The differential for a bull's eye maculopathy. KW: Retina/vitreous; retina; bull's eye maculopathy; age-related macular degeneration (ARMD)

- R30. Working up a CWS in a nondiabetic patient. KW: Retina/vitreous; retina; cotton-wool spots (CWS); interferon alfa-2a; interferon retinopathy; systemic lupus erythematosus; Purtscher retinopathy; radiation retinopathy
- R31. Diabetic retinopathy: The basics. KW: Retina/vitreous; retina; diabetic retinopathy; Diabetic Retinopathy Study (DRS); Early Treatment of Diabetic Retinopathy Study (ETDRS); nonproliferative diabetic retinopathy; proliferative diabetic retinopathy; panretinal photocoagulation (PRP); VEGF
- R32. Diabetic retinopathy: DME. KW: Retina/vitreous; retina; diabetic retinopathy; Early Treatment of Diabetic Retinopathy Study (ETDRS); diabetic macular edema (DME); VEGF; clinically significant macular edema (CSME); Protocol I; VIVID; VISTA (113 slides)
- R33. CME with vs without leakage on FA. KW: Retina/vitreous; retina; cystoid macular edema (CME); retinitis pigmentosa (RP); diabetes; diabetic retinopathy; glaucoma
- R34. The DCCT and UKPDS. KW: Retina/vitreous; retina; diabetes; Diabetic Control and Complications Trial (DCCT); United Kingdom Prospective Diabetic Study (UKPDS)
- R35. Retinal detachment overview. KW: Retina/vitreous; retina; retinal detachment (RD); rhegmatogenous retinal detachment (RRD); tractional retinal detachment (TRD); exudative retinal detachment (ERD); posterior vitreous detachment (PVD); Wieger's ligament; premacular bursa
- R36. Retinal lesions and their relationship to rhegmatogenous retinal detachment. KW: Retina/vitreous; retina; retinal detachment (RD); retinal tears; retinal holes; retinal dialyses; lattice degeneration; meridional folds; vitreoretinal tufts; cobblestone degeneration; enclosed ora bays; peripheral cystoid degeneration
- R37. Rhegmatogenous retinal detachment repair. KW: Retina/vitreous; retina; retinal detachment (RD); Lincoff rules
- R38. Retinitis pigmentosa. KW: Retina/vitreous; retina; retinitis pigmentosa (RP); Usher syndrome; retinitis punctata albescens; fundus albipunctatus; fundus flavimaculatus
- R39. Leber's congenital amaurosis. KW: Retina/vitreous; retina; retinitis pigmentosa (RP); Leber's congenital amaurosis (LCA); retinitis pigmentosa (RP); metabolic syndromes; Infantile Refsum disease; Bardet-Biedl complex; Infantile phytanic acid storage disease; ciliopathies; peroxisomal disorders; Alström syndrome; Senior-Løken syndrome
- R40. Vitreous body and PVD. KW: Retina/vitreous; vitreous; posterior vitreous detachment (PVD)

R41. Valsalva, Terson and Purtscher's retinopathies. KW: Retina/vitreous; retina; retinal hemorrhage; trauma; Purtscher flecken; glaukomflecken

R42. Gyrate atrophy vs choroideremia. KW: Retina/vitreous; retina; gyrate atrophy; choroideremia

R43. BRVO. KW: Retina/vitreous; retina; branch retinal vein occlusion (BRVO)

R44. Retinal vein occlusion. KW: Retina/vitreous; retina; central retinal vein occlusion (CRVO); the Central Vein Occlusion Study (CVOS); branch retinal vein occlusion (BRVO); the Branch Vein Occlusion Study (BVOS); hyperviscosity syndrome; Waldenström macroglobulinemia; multiple myeloma; polycythemia vera; vortex veins

R45. PRP and its complications. KW: Retina/vitreous; retina; diabetic retinopathy; fundamentals; lasers (retina)

R46. Choroidal melanoma: The COMS. KW: Retina/vitreous; retina; choroidal melanoma; Collaborative Ocular Melanoma Study (COMS)

R47. Central serous chorioretinopathy. KW: Retina/vitreous; retina; central serous chorioretinopathy (CSC); photodynamic therapy (PDT); sildenafil; MEK inhibitors

R48. Pigment epithelial detachment (PED). KW: Retina/vitreous; retina; retinal pigment epithelium (RPE); pigment epithelial detachment (PED); drusenoid PED; fibrovascular PED; serous/hemorrhagic PED; age-related macular degeneration (ARMD); drusen; basal laminar drusen; basal linear drusen; pseudodrusen; reticular drusen; soft drusen; hard drusen; Bruch's membrane

R49. ARMD risk factors, and differential. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); pattern dystrophy; polypoidal choroidal vasculopathy (PCV); retinal arterial microaneurysm; Vitelliform exudative macular detachment; cuticular drusen; ICG angiography

R50. ARMD: The AREDS. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); Age-Related Eye Disease Study (AREDS)

R51. ARMD: Therapies under development. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); VEGF trap; anecortave; squalamine; RNAi

R52. Causes of CNVM. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); choroidal neovascular membrane (CNVM); Sorsby's fundus dystrophy; angioid streaks

R53. MacTel for short. KW: Retina/vitreous; retina; macular telangiectasia (MacTel); Coats disease; placental growth factor (PGF)

R54. CNVM: Define these terms. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); choroidal neovascular membrane (CNVM); Macular Photocoagulation Study (MPS); Verteporfin In Photodynamic therapy study (VIP); Treatment of ARMD with Photodynamic therapy study (TAP); photodynamic therapy (PDT)

R55. PDT. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); choroidal neovascular membrane (CNVM); photodynamic therapy (PDT); Macular Photocoagulation Study (MPS)

R56. ARMD: VEGF. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); fundamentals; vascular endothelial growth factor (VEGF)

R57. ARMD: Anti-VEGF therapy: Pegaptanib. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); pegaptanib; Macugen; Fovista

R58. ARMD: Anti-VEGF therapy: Pegaptanib clinical trials. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); pegaptanib; Macugen; VEGF Inhibition Study In Ocular Neovascularization (VISION)

R59. ARMD: Anti-VEGF therapy: Ranibizumab, bevacizumab and aflibercept. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); ranibizumab; Lucentis; bevacizumab; Avastin; aflibercept; Eylea

R60. ARMD: Anti-VEGF therapy: Ranibizumab and bevacizumab clinical trials. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); ranibizumab; Lucentis; MARINA; ANCHOR; bevacizumab; Avastin; PIER; PrONTO; CATT

R61. Angioid streaks. KW: Retina/vitreous; retina; angioid streaks; retinal pigment epithelium (RPE); pseudoxanthoma elasticum (PXE); Paget's disease of bone; Ehlers-Danlos disease; sickle-cell disease; lacquer cracks

R62. Systemic drugs and retinal toxicity: Matching. KW: Retina/vitreous; retina; corneal verticillata; Fabry's disease; chlorpromazine; tamoxifen; canthaxanthin; isotretinoin; cidofovir; thioridazine; digitalis, MEK inhibitors; sildenafil; Bietti crystalline retinopathy; talc retinopathy

R63. Besides DM, SS, C/BRVO, what are some causes of retinal neo? KW: Retina/vitreous; retina; uveitis; Eale's disease

R64. Choroidal nevi and choroidal melanoma. KW: Retina/vitreous; retina; choroidal nevi; choroidal melanoma

R65. Choroidal melanoma: DDX. KW: Retina/vitreous; retina; choroidal nevi; choroidal melanoma; focal choroidal hemangioma; osteoma; CHRPE; age-related macular degeneration (ARMD); ultrasonography; *a*-scan; *b*-scan

R66. ARMD: Anti-VEGF therapy: Aflibercept clinical trials. KW: Retina/vitreous; retina; age-related macular degeneration (ARMD); vascular endothelial growth factor (VEGF); aflibercept; Eyelea; ranibizumab; Lucentis; bevacizumab; Avastin; VIEW

R67. Retinal laser lenses. KW: Retina/vitreous; laser; laser lenses

R68. Eales disease vs Susac syndrome. KW: Retina/vitreous; uveitis; Eales disease; Susac syndrome; SICRET syndrome; vasculitis

END RETINA/VITREOUS

START UVEITIS

U1. Retinal vasculitis. KW: Uveitis; vasculitis; arteritis; sarcoid; Behçet disease; systemic lupus erythematosus (SLE); Churg-Strauss disease; polyarteritis nodosa (PAN); Wegener granulomatosis; sarcoid; Eales disease; Susac syndrome; multiple sclerosis

U2. Pediatric uveitis. KW: Uveitis; uveitis (pediatric); pediatrics; juvenile rheumatoid arthritis (JRA); retinoblastoma; masquerade syndrome; cataracts

U3. Common ocular parasitic pathogens. KW: Uveitis; *Acanthamoeba*; oculo-plastics; cornea/external disease; external disease; *Toxoplasma*; keratitis (infectious); cornea; blepharitis; *Microsporidia*; *Toxocara*; *Onchocerca*; *Loa Loa*; *Phthirus*; *Demodex*

U4. Scleritis. KW: Uveitis; scleritis; scleromalacia perforans; episcleritis; infectious scleritis

U5. Intraocular foreign body (IOFB). KW: Uveitis; intraocular foreign body (IOFB); retina/vitreous; chalcosis; siderosis; nyctalopia

U6. Sympathetic ophthalmia (SO) and Vogt-Koyanagi-Harada (VKH) disease. KW: Uveitis; Vogt-Koyanagi-Harada (VKH) disease; sympathetic ophthalmia (SO); Dalen-Fuchs nodule; Sugiura sign; Ohno sign; vitiligo; poliosis; bilateral diffuse uveal melanocytic proliferation (BDUMP)

U7. Toxoplasmosis: Posterior segment infection. KW: Uveitis; retina/vitreous; toxoplasmosis; AIDS

U8. Post-traumatic endophthalmitis. KW: Uveitis; *Bacillus cereus*; endophthalmitis

U9. Common ocular fungal pathogens. KW: Uveitis; cornea/external disease; cornea; trauma; endophthalmitis; oculo-plastics; orbit; orbital cellulitis

U10. Intro to uveitis: Overview, profiling, and classification. KW: Uveitis; SUN working group

U11. Anterior granulomatous uveitis, and acute nongranulomatous unilateral anterior uveitis. KW: Uveitis; anterior granulomatous uveitis; sarcoid; TB; syphilis; Posner-Schlossman syndrome; pigment dispersion syndrome (PDS); ankylosing spondylitis; reactive arthritis; HLA-B27

U12. Acute nongranulomatous bilateral anterior uveitis. KW: Uveitis; tubulointerstitial nephritis and uveitis (TINU); drug-induced uveitis; inflammatory bowel disease; HLB-B27; psoriatic arthritis

U13. Chronic anterior uveitis. KW: Uveitis; juvenile idiopathic arthritis (JIA); Fuch's heterochromic iridocyclitis (FHI)

U14. Intermediate uveitis. KW: Uveitis; intermediate uveitis; pars planitis

U15. Sarcoid uveitis. KW: Uveitis; sarcoid; granulomatous uveitis; Heerfordt syndrome; Löfgren syndrome; panuveitis.

U16. Syphilitic uveitis. KW: Uveitis; syphilis; posterior uveitis; panuveitis; congenital syphilis; acquired syphilis.

U17. Behçet disease. KW: Uveitis; Behçet disease; posterior uveitis; panuveitis; hypopyon

U18. TB uveitis. KW: Uveitis; posterior uveitis; panuveitis; TB; BCG

U19. Lyme uveitis. KW: Uveitis; posterior uveitis; intermediate uveitis; panuveitis; Lyme disease

U20. Rubella and rubeola. KW: Uveitis; Rubella; German measles; rubeola; measles; subacute sclerosing panencephalitis; TORCHES

U21. Ocular histoplasmosis syndrome. KW: Uveitis; Ocular histoplasmosis syndrome (OHS); choroidal neovascular membrane (CNVM); Macular Photocoagulation Study (MPS), Submacular surgery Trial (SST)

U22. Ocular toxocariasis. KW: Uveitis; ocular toxocariasis; retinoblastoma; FEVR; DUSN

U23. Endogenous endophthalmitis. KW: Uveitis; masquerade syndrome; endogenous endophthalmitis; endogenous bacterial endophthalmitis; endogenous fungal endophthalmitis; *Candida*; *Cryptococcus*; *Aspergillus*; *Coccidioides*

U24. Panuveitis: Leptospirosis and Whipple's disease. KW: Uveitis; panuveitis; leptospirosis; Whipple's disease; oculomasticatory myorhythmia

U25. Bartonellosis. KW: Uveitis; Bartonellosis; cat-scratch disease (CSD); neuroretinitis; Parinaud oculoglandular syndrome

U26. Masquerade syndromes. KW: Uveitis; masquerade syndrome; primary CNS lymphoma (PCNSL); retinoblastoma (Rb); toxoplasmosis; leukemia; bilateral diffuse uveal melanocytic proliferation (BDUMP)

U27. Uveitis quick hitters part one. KW: Uveitis

U28. Uveitis quick hitters part deux. KW: Uveitis

U29. Drug-induced uveitis. KW: Uveitis; drug-induced uveitis; rifabutin; cidofovir; Sulfonamides; Bisphosphonates; anti-TNF agents; Diethylcarbamazine; Metipranolol; Cholinesterase inhibitors; bCG

END UVEITIS

START REFRACTIVE SURGERY

RS1. Refractive surgery: Overview. KW: Refractive surgery; cornea; keratorefractive surgery; LASIK; radial keratotomy (RK); LASEK; Epi-LASIK; PRK; INTACS; conductive keratoplasty (CK)

RS2. Keratorefractive surgery: Complications. KW: Refractive surgery; cornea; keratorefractive surgery; LASIK; diffuse lamellar keratitis (DLK), haze, sterile infiltrates, central toxic keratopathy; macrostriae; microstriae; flap dislocation

RS3. Corneal optics. KW: Refractive surgery; refractive index; cornea; keratorefractive surgery; prolate; oblate; spherical; spherical aberration; Q factor; Q value; fundamentals; keratometry; corneal topography; corneal tomography; corneal apex; corneal vertex; optical/pupillary axis; visual axis; topographer axis; vertex normal

RS4. Photoablative refractive surgery. KW: Refractive surgery; cornea; keratorefractive surgery; LASIK; LASEK; Epi-LASIK; PRK; SMILE; the Munnerlyn formula

RS5. Intraocular refractive surgery. KW: Refractive surgery; cataract surgery; refractive lens exchange; phakic IOL; image minification

RS6. Aberrations. KW: Refractive surgery; aberrations; spherical aberration; Q factor; Q value; night myopia; wavefront analysis; coma; trefoil; Zernike polynomials

RS8. Incisional corneal refractive surgery. KW: Refractive surgery; radial keratotomy (RK); arcuate keratotomy (AK); limbal relaxing incisions (LRI); coupling

RS9. Corneal-inlay, collagen-shrinkage, and cross-linking refractive surgery. KW: Refractive surgery; intrastromal corneal ring segments (ICRS); conductive keratoplasty (CK); corneal cross-linking (CXL); Kamra; small-aperture inlays (SAI); beanbag effect; keratoconus (KCN); corneal ectasia

END REFRACTIVE SURGERY