

Retina Curriculum Roadmap

3/26/24

Didactic sessions

Introductory

Introduction - Indirect ophthalmoscopy, scleral depression, cell phone fundus photography (Hwang)

Pre-OKAPS

1. Retina & Body - Systemic inherited diseases, drug toxicities affecting the retina, myopia, ERG/VEP (Hwang)
2. Retinal Dystrophies - Macular and retinal dystrophies, macular telangiectasias, CSNB, achromatopsia (Bernstein)
3. Retinal Vascular - Diabetic retinopathy, retinal vein occlusions, retinal artery occlusions, cystoid macular edema (Joel Welch)
4. Macular Degeneration - Macular degeneration, causes of choroidal neovascularization, central serous chorioidopathy (SV&F)
5. Tumors (Craven)
6. OKAPs review (all 4 retina fellows) - residents request 2 hours for this

Expectations on rotation

Vacation - please let the retina fellows know at least 2 weeks in advance

Retina fellows conference:

- journal club: you must present at every journal club that occurs while you are on rotation
- medical or surgical case conference: you must attend every conference while you are on rotation; you should present once at either conference

FA conference presentations:

- you must present at two FA conferences while you are on rotation
- please keep the didactic aspect of your presentation brief

FA conference (each topic to be covered every 2-3 years, Dr. Hwang to schedule topics per conference)

First session every year by retina fellows

imaging technologies (including adaptive optics and OCT-A) / anatomy

Vascular diseases

hypertensive retinopathy, choroidopathy, and optic neuropathy

ocular ischemic syndrome

PAMM

retinal arterial macroaneurysm

sickle retinopathy

radiation retinopathy

Pediatric retina

Coats

x-linked retinoschisis

persistent fetal vasculature

familial exudative vitreoretinopathy

prepapillary vascular loop/congenital macrovessel

Trauma-ish

Valsalva retinopathy

Purtscher retinopathy

terson retinopathy

sclopetaria

Choroidal diseases

choroidal nonperfusion and atrophy

choroidal folds

uveal effusion syndrome

bilateral diffuse uveal melanocytic proliferation

Other

exudative retinal detachment

retinoschisis

optic pit maculopathy

laser pointer retinopathy/phototoxicity/solar retinopathy

submacular hemorrhage

guidelines on FA conference presentations:

- focus on interpretation of imaging
- less lecture, more discussion
- fewer powerpoint slides

Retina rotation (fellows)

retinal detachment & repair

epiretinal membrane, macular hole, vitreomacular traction

vitreous opacities

lasers

cataract surgery complications (endophth., retained lens, IOL dislocation, choroidal hemorrhage)

To be covered on call (fellows)

Trauma (commotio, choroidal rupture, macular hole, open globe, intraocular foreign body)

Posterior vitreous detachment, peripheral retinal findings, retinal tears,

Laser therapy

Vitreoretinal surgery

Required clinical skills

DFE with scleral depression, identification and description of type of retinal tear / RD

Imaging interpretation (OCT, FA, ICG when applicable, electrophysiology)

PRP laser (10 PRPs required for graduation)

Retrobulbar anesthesia

Intravitreal injections (Eylea / Avastin / Ozurdex / Triamcinolone)

B-scan to assess for RT / RD / PVD

Other resources available to residents to review on their own

Moran CORE lectures

ASRS Image Bank (<https://imagebank.asrs.org/>)

Ryan's retina (full text available in Bloomberg library or electronically via ClinicalKey)

Retina Today (<http://retinatoday.com/>)

Eyetube AMD resource center (<https://eyetube.net/resources/amd-disease-education/>)

Retina podcasts:

- Straight from the cutter's mouth

- Retina radio today
- Eyes4Ears