Ophthalmology Rotation	
Primary Goals for this Rotation	Competencies
GOAL I: Prevention, Counseling and Screening (Ophthalmology). Understand the pediatrician's role in preventing ophthalmic disease, injury and dysfunction throug counseling, screening and early intervention.	gh
 Counsel patients and families regarding prevention strategies related to the eyes, including: a) Prophylaxis in the neonatal period for ophthalmia neonatorum b) Importance of protective eye wear for sports, chemical splashes, ultraviolet light exposure and other activities that warrant eye protection (e.g., helmet with cage or face mask, goggles) c) Full-time eye protection for children with irreversible poor vision in one eye 	K, PC, IPC
 2. Provide routine screening for visual acuity and eye disorders in the newborn nursery, office and school setting. Screen for: a) physical findings (white pupil, etc.) b) Visual acuity c) Strabismus/amblyopia 	K, PC
 3. Screen for and routinely refer infants with family history of any of the following conditions: a) Pediatric cataract b) Pediatric glaucoma c) Retinoblastoma d) Strabismus/amblyopia e) Metabolic or genetic disorders / syndromes 	K, PC
 4. Screen for and provide routine ophthalmology referral for children with medical conditions associated with eye disease, including: a) Juvenile rheumatoid arthritis b) Extreme low birth weight c) Prematurity d) Suspected shaken baby syndrome e) Severe head trauma 	K, PC, IPC, SBP
GOAL II Normal vs. Abnormal (Ophthalmology). Differentiate normal from pathoeye conditions.	ologic
1. Explain to parents the normal development of visual acuity and visual tracking in children.	K, IPC
 Distinguish normal or clinically insignificant eye findings from potentially serious ones, including: 	K

		 a) Variations in pupil size b) Variations in eyelid structure c) Coloration of the conjunctiva d) Coloration of the iris e) Appearance of the optic disk f) Variation of tearing and minor eye discharge g) Pseudostrabismus h) Pseudostrabismus vs. strabismus i) Anomalous head position (tilt) j) Variation in eyelid position (ptosis) 	
	3.	Demonstrate ability to do a good funduscopic examination on children, using mydriatics if needed.	K, PC
	4.	Request or perform and interpret the following clinical studies useful in evaluating eye conditions: conjunctival swab for culture and chlamydia FA, fluorescein eye exam, radiologic studies of head and orbit, including plain film, CT and MRI.	K, PC, IPC
GOA appro	L III: U opriately	ndifferentiated Signs and Symptoms (Ophthalmology). Evaluate and	
	1.	 Create a strategy to determine if the following presenting signs and symptoms are caused by an ophthalmologic condition, and if so, treat or refer appropriately: a) Red eye (painless or painful) b) Strabismus (exotropia, esotropia, pseudoesotropia, lazy eye, crossed eyes) c) White light reflex d) Scleral pigmentation e) Eyelid swelling f) Proptosis g) Decreased visual acuity h) Asymmetric pupillary size or light response i) Unequal red reflex j) Unequal visual acuity or fixation k) Blurry or indistinct optic disc margins (papilledema, optic neuritis) 	K, PC, IPC, SBP
GOA patiei	L IV: C nts with	ommon Conditions Not Referred (Ophthalmology). Diagnose and manage common ophthalmologic conditions that generally do not require referral.	
	1.	 Diagnose and manage the conditions listed below: a) Non-herpetic viral and non-gonococcal bacterial conjunctivitis b) Corneal abrasion c) Periorbital cellulitis (uncomplicated, in the child 5 years or older) d) Hordeolum (stye) and chalazion e) Simple congenital nasolacrimal duct obstruction in the first year of life f) Uncomplicated foreign bodies of the conjunctiva 	K, PC

g)	Minor lid lacerations not involving the lid margin, lacrimal system or	
b)	ptosis Small subconjunctival hemorrhage (unless 360 degrees)	
i)	Periocular ecchymosis	
GOAL V: Condition	s Generally Referred (Ophthalmology). Recognize, provide initial	
management and referral.	ter appropriately conditions that usually require ophthalmologic	
1. Recogn refer th	ize, provide initial evaluation and management of, and appropriately ese conditions:	
a) b) c) d) e) f) g) h) i) j) k) l) m) n) o) p) q) r) s) t) u) v) w) x) y)	Amblyopia Cataract Corneal opacity or edema Ectopia lentis Chemical burns/conjunctivitis Complicated and intraocular foreign bodies Decreased visual acuity Sight-threatening ptosis Strabismus and nystagmus Glaucoma Herpetic conjunctivitis/keratitis Gonococcal conjunctivitis/keratitis Gonococcal conjunctivitis Uveitis Red eye and/or corneal ulcer in the contact lens-wearer Aniridia Periorbital cellulites (complicated, or in a child under 5 years of age) Orbital cellulitis Retinopathy of prematurity in at-risk neonates Acute infantile dacryocystitis with cellulitis Significant eye trauma manifested by hyphema, extraocular muscle palsy Globe penetration, irregular pupil, iritis, or orbital fracture White, black (absent), or significantly asymmetric pupillary reflex Congenital malformations of the eye or periocular structures (e.g., periorbital hemangiomas) Orbital tumor (e.g., rhabdomyosarcoma with proptosis) Papilledema	K, PC, IPC, SBP
2. Discuss ophtha describ expertis	the role and scope of practice of optometrists, pediatric and general mologists, and ophthalmology subspecialists (e.g., retina, cataracts); e situations where referral is indicated to an individual with pediatric se; work effectively with these professionals in the care of children.	K, PC, IPC, I SBP
GOAL VI: Ophthali ophthalmologic path	mologic Signs of Systemic Disorders. Recognize various signs of ology that may be manifestations of systemic disorders.	
1 Recogn	ize these signs as notential manifestations of systemic disorders and	
manage	e and refer when appropriate:	K, PC, IPC,
a) b)	Retinal hemorrhages (e.g., child abuse, leukemia) Iritis (e.g., juvenile rheumatoid arthritis, inflammatory bowel disease)	

c) Cataracts (e.g., metabolic disorders, genetic malformation		
d) Papilledema (e.g. increased intracranial pressure)		
e) Chorioretinitis (e.g., toxoplasmosis, cytomegalovirus)		
f) Subconjunctival hemorrhage (e.g., pertussis, thrombocytopenia,		
covert suffocation)		
 g) Periorbital ecchymosis (e.g., neuroblastoma) b) Estenia lentia (e.g., Marfan andrema, homen actinumia) 		
 n) Eccopia ientis (e.g., Marian syndrome, nomocystinuria) i) Nystagmus (e.g., central pervous system appormalities, chemical 		
poisoning)		
j) Incomplete eye movements (e.g., VI cranial nerve palsy due to		
increased intracranial pressure, metastatic tumor to orbit)		
 k) Painful red eye (e.g., endophthalmitis due to sepsis or meningitis, orbital involvement of leukemia, thyroid eye disease) 		
GOAL VII: Diagnostic and Screening Procedures (Ophthalmology). Perform diagnostic and screening procedures associated with pediatric ophthalmology.		
1. Develop proficiency in the following procedures:		
a) Vision screening (acuity and strabismus: color blindness)		
b) Fluorescein dye test to detect corneal abrasion		
c) Conjunctival swab for bacteria and chlamydia		
d) Removal of simple corneal foreign body	K DC	
f) Lid eversion	K, FC	
g) Funduscopic exam		
h) Eye irrigation		
i) Cover-uncover test (strabismus)		
j) Corneal light reflex test		
2. Request and interpret (with the radiologist) results of common imaging procedures used in the diagnosis and management of onbthalmologic	K PC IPC	
conditions (orbital radiographs, head CT, head MRI).		
Procedures		
GOAL VIII: Technical and therapeutic procedures. Describe the following procedures,		
including how they work and when they should be used; competently perform those		
commonly used by the pediatrician in practice.		
Conjunctival swab		
Eye: contact lens removal		
Eye: irrigation		
Eye: eyelid eversion		
Eye: fluorescein eve evam		
Foreign body removal (simple): conjunctiva		
COAL IX: Diagnostic and screening procedures Describe the following tests or		
procedures, including how they work and when they should be used, competently perform		
those commonly used by the pediatrician in practice.		
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Vision screening

Core Competencies: K - Medical Knowledge

- PC Patient Care and Procedural Skills
- IPC Interpersonal and Communication Skills
- **P** Professionalism
- PBLI Practice-Based Learning and Improvement
- SBP Systems-Based Practice

Terror mance Expectations by Devel of Training				
	Beginning	Developing	Accomplished	Competent
	Description of identifiable	Description of identifiable	Description of identifiable	Description of identifiable
	performance	characteristics reflecting	performance	characteristics reflecting
	characteristics	development and	characteristics	the highest level of
	reflecting a	movement toward	reflecting near	performance.
	performance.	mastery of performance.	performance.	
Medical	PL1	PL1, PL2	PL2, PL3	PL3
Knowledge				
Patient Care and	PL1	PL1, PL2	PL2, PL3	PL3
Procedural Skills				
Interpersonal and	PL1	PL1, PL2	PL2, PL3	PL3
Communication				
Skills				
Professionalism		PL1	PL2, PL3	PL3
Practice-Based	PL1	PL1, PL2	PL2, PL3	PL3
Learning and			·	
Improvement				
Systems-Based	PL1	PL1, PL2	PL2, PL3	PL3
Practice		, i i i i i i i i i i i i i i i i i i i		

Performance Expectations by Level of Training

Milestones assessed on this rotation are:

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice				
Level 1	Level 2	Level 3	Level 4	Level 5
Develops an answerable clinical question and demonstrates how to access available evidence, with guidance	Independently articulates clinical question and accesses available evidence	Locates and applies the evidence, integrated with patient preference, to the care of patients	Critically appraises and applies evidence, even in the face of uncertainty and conflicting evidence to guide care tailored to the individual patient	Coaches others to critically appraise and apply evidence for complex patients