Pediatric Ocular Emergencies

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Introduction

- Phone Triage
- Expediency of apt.
- Assurance to parents
Types of ocular emergencies

Chemical Burns
Ocular trauma
Laceration treated with superglue
Chalazion

Treatment:
  - Hygiene
  - Omega 3
  - Surgery
  - Leave alone?
Chalazion

Treatment:
- Hygiene
- Omega 3
- Surgery
- Leave alone?
Hot hard-boiled egg
Chalazion treatment
Sports injury
Soccer ball
Commotio Retinae
Head contact sports

Educate patient on the signs and symptoms of retinal detachment
Commotio Retinae
Bruise and hem of retina
Polycarbonate Lenses
Medical-Legal Aspect
Polycarbonate lenses
Legislative battle over Funding budget cuts Ramifications
Polycarbonate lenses

Video Matrix
Red Eye

Viral bacterial allergic
Red Eye
Contact lens complications
Foreign Body
In office versus surgical removal
Retinoblastoma

- White pupil
- Strabismus (eye turns in or out)
- Baylor MD Ap for detection
Cradle
white pupil detection
Retinoblastoma
blowout fracture

- Diplopia (double vision)
- Blunt injury
- Can't look up
- Don't blow nose
blepharitis

- Lid hygiene
- Staph bacteria
- Can lead to styes
corneal ulcer

- Most common marginal staph caused from blepharitis
- Can be contact lens related
Optic nerve drusen

- Can be mistaken for nerve swelling
- Calcific Deposit on Optic Nerve
- Requires ultrasound or B-Scan for diagnosis
papilledema

- Swelling of Optic Nerve
- Rule out brain tumor
- MRI
sudden onset diplopia

- Double Vision
- Other neurological signs: pupils
Sudden onset diplopia

Rule out a brain tumor, MRI, also rule out latent hyperopia
nasolacrimal duct obstruction

- Watery mucous discharge with white quiet eye
- Common at 2 months to 2 years of age
nasolacrimal duct obstruction

- In office treatment
- Surgical treatment with stent / balloon treatment
muscle surgery

- Esotropia
- Exotropia
Convergence Insufficiency

- Doesn't require surgery
- Vision therapy
- Hands on exercise: pencil push-ups
Double vision makes it difficult to read and comprehend.
Pupil Testing

- Penlight or iPhone
- Transilluminator
- Marcus Gunn
- Swinging flashlight test
- Neuro testing

Fig. 2 In Horner's Syndrome, ptosis may occur.
Muscle Testing

- EOMs (extra ocular muscles)
- Review of anatomy
Muscle Testing

- Superior/Inferior Rectus
- Medial/Lateral Rectus
- Superior/Inferior Obliques
Hands on eyedrops installation

- Tips
- iPhone
- Distraction questions
- Proparacaine use
Case Reports

- Trampoline injury
- Go by clinical data rather than history
Case Reports

- Amblyopia
- Lazy Eye
- 3-5% of population
Patching for amblyopia

Inexpensive
Amblyopia

- Patch therapy
- Blur contact lens
- Patching glasses
- Cyclo or atropine eyedrops in good eye
Amblyopia

- Patch hard
- Patch long
- Ortopad
- Slip on patch
Amblyopia

- ACA
- Obamacare
- Inclusion because of grass roots efforts legislatively
- Get Active
Child abuse cases

- Shaken Baby Syndrome
Shaken Baby Syndrome

- Bilateral Detached Retina
- Bilateral retinal hemorrhage
Shaking a baby isn’t. exchangeclubfoundation.org

Crying is ok.
Retinal detachment

Flashes and floaters
Retinal Detachment

- Signs & symptoms
- Flashing lights
- Floaters
- Black curtain
Retinal detachment
Instructional video
Phone triage flashes floaters

Video
“80% of a child's learning is through their vision.”

-American Optometric Association
Learning Disabilities

- ADHD
- Juvenile Delinquents Study
- Non ocular learning difficulties
Headaches

- Migraine
- Refractive
- Non ocular
- Pediatric Neurology
Conclusions

- Recap
- Questions
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