Put A Lid On It
“Eyelids”

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Objectives

- Lid anatomy
- Malfunctions of the eyelid
- Diseases of the eyelid
- Impact upon vision
  - Spectacles
  - Contact lenses
- Surgeries associated with the eyelid

Anatomy

- Punctum

Eyelid Anatomy

Understanding eyelid anatomy aids in understanding the condition and educating the patients

Anatomy Cont....

- Muscle function
- Nerve innervation
- Positions

Internal and External

- Observe the patient
- Identify defect
- Signs and symptoms documented

What function does the punctum have?
Tear Components Review

- Lipid Layer – prevents evaporation
- Aqueous Layer - hydration
- Mucus Layer – sticks tear to the eye (goblet cells)
- Other components

5th Cranial Nerve - Trigeminal

- Corneal sensitivity
- Lacrimal gland innovation
- The trigeminal nerve is a nerve responsible for sensation in the face and motor functions such as biting and chewing. The largest of the cranial nerves, its name derives from the fact that each trigeminal nerve has three major branches: the ophthalmic nerve, the maxillary nerve, and the mandibular nerve. The ophthalmic and maxillary nerves are purely sensory, and the mandibular nerve has sensory and motor functions

Facial Nerve 7th Cranial Nerve

- The facial nerve is the seventh cranial nerve, or simply cranial nerve VII. It emerges from the brainstem between the pons and the medulla, controls the muscles of facial expression, and functions in the conveyance of taste sensations from the anterior two-thirds of the tongue and oral cavity

Ocular Surface Disease

- We no longer call OSD “dry eyes”
- This disease is impacting millions
- Target women more than men
Dacryocystitis

- Dacryocystitis is an infection of the lacrimal sac, secondary to obstruction of the nasolacrimal duct at the junction of lacrimal sac. The term derives from the Greek dákryon, cysta, and -itis. It causes pain, redness, and swelling over the inner aspect of the lower eyelid and epiphora. When nasolacrimal duct obstruction is secondary to a congenital barrier it is referred to as dacrocystocele. It is most commonly caused by Staphylococcus aureus and Streptococcus pneumoniae.

Nasal Lacrimal Duct Obstruction

- Punctum: 1 upper and 1 lower
- Lid position
- Trauma / Disease
- Nose surgery

Entropion

- Entropion (en-TROH-pee-on) is a condition in which your eyelid turns inward so that your eyelashes and skin rub against the eye surface. This causes irritation and discomfort.

Ectropion

- Ectropion (ek-TROH-pee-on) is a condition in which your eyelid turns outward. This leaves the inner eyelid surface exposed and prone to irritation.
- Ectropion is more common in older adults, and it generally affects only the lower eyelid. In severe ectropion, the entire length of the eyelid is turned out. In less severe ectropion, only one segment of the eyelid sags away from the eye.

Eyelid Tatoo

- Growing trends
- Eyebrow tattooing most common form
- Permanent make-up

Floppy Eye Lid Syndrome

- More common
- Dx often missed
- Reoccurring eye infections
Cancer of the lids

- Look for unexplained missing eyelashes upon slit lamp exam
- Early detection and intervention produces most successful outcomes

Surgery

- Ocular facial plastic surgeon
- Mistakes can be permanent
- Seek specialist

Gold Weights

Dermatochalasis

Causes of Droopy Lids

Over 425 causes of droopy eyelids
- Aging
- Muscular
- Neurological
- Congenital
- Acquired
  - Disease
  - Trauma

Marcus Gunn

- Marcus Gunn phenomenon (a.k.a. Marcus Gunn Jaw-Winking, or Trigemino-oculomotor Synkineses) is an autosomal-dominant condition with incomplete penetrance, in which nursing infants will have rhythmic upward jerking of their upper eyelid. This condition is characterized as a synkinesis: when two or more muscles that are independently innervated have either simultaneous or coordinated movements.

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Chalazions

Cyst and Tumors

- Ocular Facial Plastic Surgeon
- Some are cancerous
- Refer immediately for suspicious growth

Sarcoidosis

- Sarcoidosis is the growth of tiny collections of inflammatory cells (granulomas) in different parts of your body — most commonly the lungs, lymph nodes, eyes and skin.
- Doctors believe sarcoidosis results from the body’s immune system responding to an unknown substance, most likely something inhaled from the air.

Sarcoidosis 2

DEMODEX
Ptosis

- Congenital
- Acquired
  - Traumatic
  - Dermatochalasis
  - Muscle involvement
  - Nerve innervation
- Pseudo

Trauma 1

Trauma Cont...

Trauma 2 Door Hook

- Ocular Facial Surgeon
- Emergency room repairs
- Children

Dermatochalasis Surgery

- Very common
- Drooping eyelids due to excess skin
- Not cosmetic
- Insurance covers

Eyelid Tumor

- Can be serious, even deadly
- Testing is highly recommended
- Mohs dermatologist will likely be included in the process
Ptosis Repair

Eczema

- Eyelid eczema: Eyelid eczema is a chronic skin condition affecting the eyelids. The skin of the eyelids becomes itchy, red and scaly. Often other parts of the body also have eczema.

Hemangioma

- A hemangioma is a benign and usually self-involuting tumor of the endothelial cells that line blood vessels that is characterised by increased number of normal or abnormal vessels filled with blood. It usually appears in the first weeks of life and grows most rapidly over the first six months.

Disease (Shingles)

- Shingles, also known as zoster, herpes zoster, or zona, is a viral disease characterized by a painful skin rash with blisters involving a limited area. Typically the rash occurs on either the left or right of the body or face in a single stripe. Two to four days before the rash occurs there may be pain or tingling in the area.

Trichiasis

- Trichiasis is a medical term for abnormally positioned eyelashes that grow back toward the eye, touching the cornea or conjunctiva. This can be caused by infection, inflammation, autoimmune conditions, congenital defects, eyelid agenesis and trauma such as burns or eyelid injury.

Xanthelasma
Clogged Meibomian Glands

- MDG = meibomian gland dysfunction
- Major contributor to Ocular Surface Disease
- Should be inspected at every comprehensive exam and when case Hx dictates

New advancing implant

- Technology is always being developed and we must consider new advances as potential options for our patients

Impact Upon Vision

- Spectacles
  - Changes in vision
- Contact Lenses
  - Comfort

Thank you

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