Tearing and Lacrimal Drainage

Describe the anatomy of the drainage system?

2mm-7mm-3-4mm-10mm (sac)-12mm (bone)- 3-5 mm out

What causes tearing?

Reflex, eyelid malpositions, lacrimal drainage obstruction

Describe the tear pump.

Opposite of what you think:
Close>sac opens and draws
Open>Sac collapses forcing tears down NLD (Rosenmuller)

Treat Obstructive tearing.

Punctal ectropion or stenosis: punctoplasty

Punctal dilation

DCR

1. 8mm incision 10mm from rim
2. reflect periosteum to posterior lacrimal crest revealing fossa
3. enter nose with curved hemostat and then rongeur to posterior lacrimal crest and past anterior crest anteriorlly
4. Flaps created in sac and nasal mucosa
5. 6-0 vicrayl to suture edges of flaps
6. Close skin

Complications?

Nose bleed: nasal packs, embolization
Scar: massage
90-95% success rate

CanaliculoDCR for proxiaml obstruction with 8mm of healthy canaliculus
ConjunctivoDCR the proxiaml end is shot