

DISEASES OF THE LACRIMAL SYSTEM

Sawa private university

**College of health and medical
technology**

fourth class

Fifth eye disease lecture



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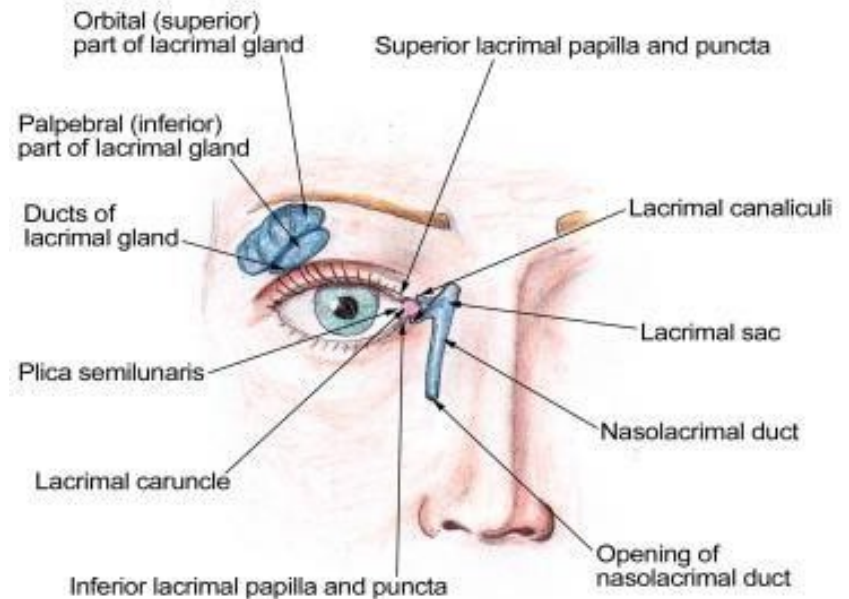
Anatomy & Physiology

Tear production & flow

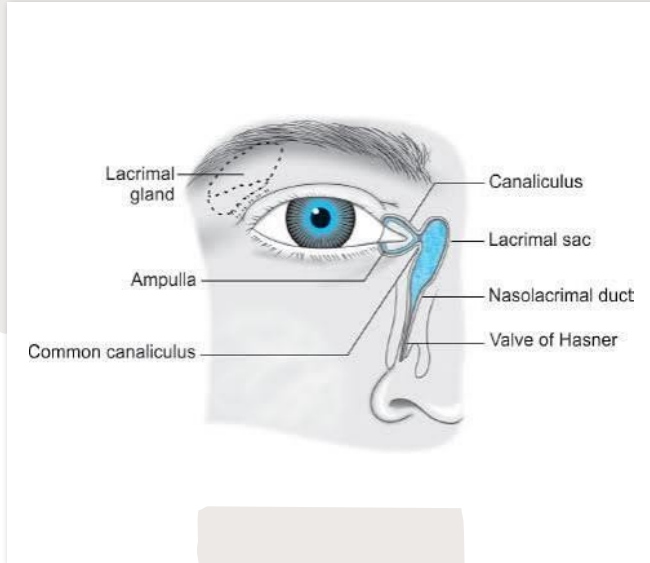
Puncta → Canaliculi →
Lacrimal sac → NLD → Nose

Valves support flow

Drainage by gravity &
blinking



Signs & Symptoms



Epiphora (tearing)

Mucous discharge

Swelling medial canthus

Recurrent conjunctivitis

Classification Overview

Obstruction

Inflammation/Infection

Punctal/Canalicular
disease

NLD Obstruction (Adults)

PANDO common in adults

Due to infection, trauma, age

Back pressure → tearing & discharge

NLD Obstruction (Children)



CNLDO common

Valve of Hasner
membrane

Massage is main
initial treatment

Dacryocystitis



Infection of lacrimal sac

Acute: pain, swelling, discharge

Treat: antibiotics, drainage

Punctal/Canalicular Stenosis



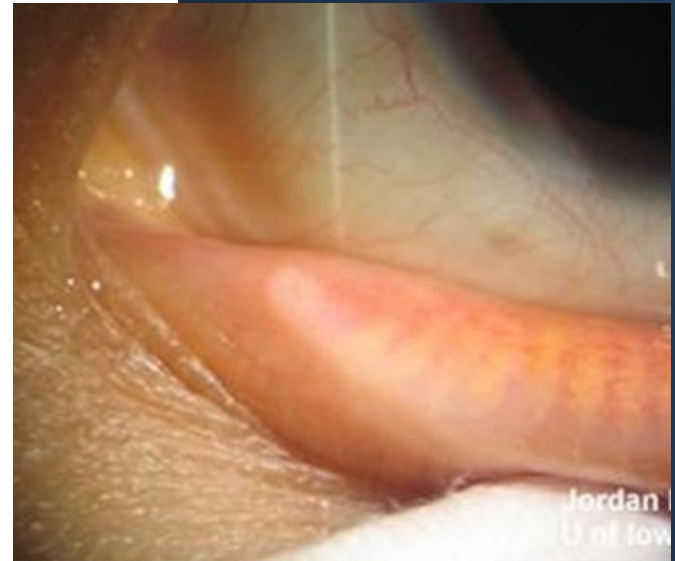
Narrowing



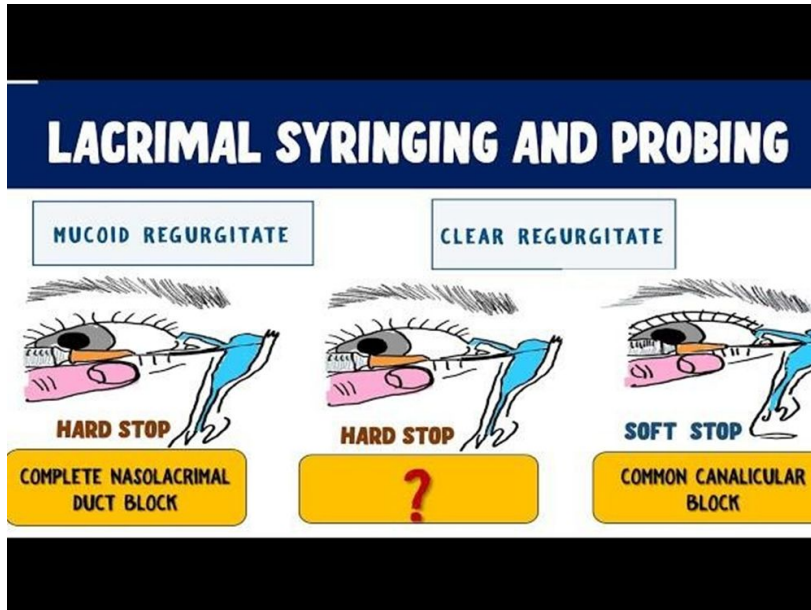
Causes: chronic inflammation, trauma



Treatment:
punctoplasty, stenting



Examination & Diagnosis



History: onset,
discharge



Dye disappearance
test



Irrigation for
patency

Management Principles

Treat ocular surface
first

Massage (infants)

Warm compress in
infection

Referral when
needed

Surgical Options

Silicone stenting

DCR surgery

Punctoplasty

Optometry Role

Screening,
detection

Patient
education

Referral &
follow-up

Summary

Obstruction
→ epiphora

Diagnosis may
require tests

Early referral
prevents
complications