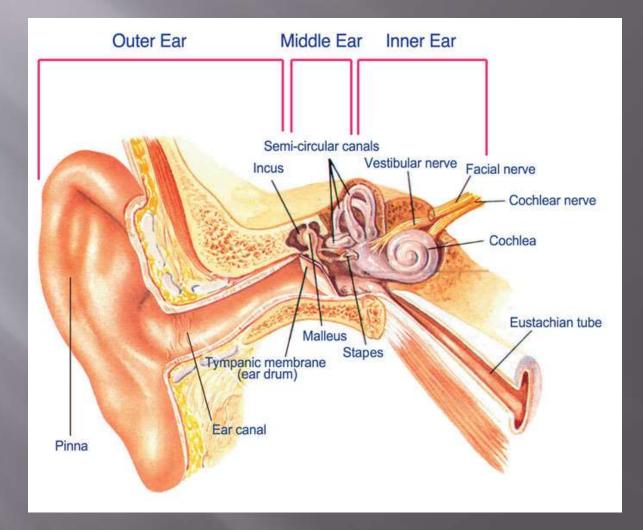
DIFFERENTIAL DIAGNOSIS OF EAR DISCHARGE Dr.Santosh B.Mane MBBS.MS(ENT)

Anatomy



Different diseases causing ear discharge

- Otitis externa
- Acute suppurative otitis media(ASOM)
- Chronic suppurative otitis media(CSOM)
- Malignancy of temporal bone
- □ CSF otorrhoea.

Otitis Externa-Furunculosis

- Acute localized infection
 Lateral 1/3 of posterosuperior canal
 Obstructed apopilosebaceous unit
- Pathogen: S. aureus



Furunculosis: Treatment

- Local heat
- Analgesics
- Oral anti-staphylococcal antibiotics like Amoxycillin,Azithromycin,etc
- Incision and drainage reserved for localized abscess
- □ IV antibiotics for soft tissue extension.

Otomycosis

Michael Saunders FRCS

- Mostly in children who are exposed to warm, moist climates or who have a Hx of chronic use of antibiotic ear drops.
 Fungal infection of EAC skin
- Primary or secondary
 Most common organisms: Aspergillus and Candida





Otomycosis: Signs

- Canal erythaema
- Mild oedema
- White, gray, green, yellow or black fungal debris Otomycosis: Sympt
- Often indistinguishable from bacterial OE
- Pruritus deep within the ear
- Otorrhoea
- Dull pain
- Hearing loss (obstructive)
- Tinnitus





Otomycosis: Treatment

Thorough cleaning and drying of canal
 Microscopic suction clearence..
 Topical antifungals.

Malignant (Necrotising)Otitis Externa

- Potentially lethal infection of EAC and surrounding structures
- *Pseudomonas aeruginosa* is the usual culprit
- Risk Factors:
 - Diabetes Mellitus
 - Elderly
 - Immunocompromised state
 - Human Immunodeficiency Virus (HIV)

Signs & Symptoms

- Similar to Otitis Externa except
 - Severe, unrelenting Ear Pain and Headache
 - Persistent discharge
 - Does not respond to topical medications
 - Commonly associated with Diabetes Mellitus
- Granulation tissue.
- Extra-auricular findings
 - Cervical Lymphadenopathy
 - Trismus (TMJ involvement)
 - Facial Nerve Palsy .
 - Associated with poor prognosis





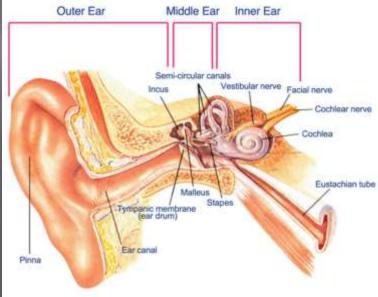
Treatment

- Intravenous antibiotics (fluoroquinolones) for at least 4 weeks.
- Local canal debridement until healed
- Pain control
- Hyperbaric oxygen experimental
- Surgical debridement for refractory cases

Middle ear

Mucopurulent yellowish or green coloured discharge.
 A.S.O.M.(Acute suppurative Otitis media)

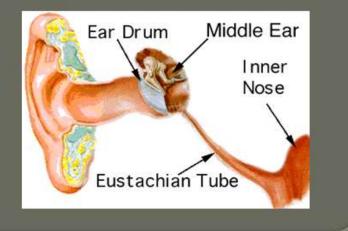
C.S.O.M.(Chronic suppurative Otitis media)

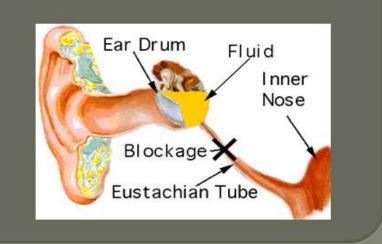


ASOM

- Acute inflammation of the middle ear clefT.
 Commonly seen in children.
- Usually consequent to an upper respiratory tract infection.

Pathology





Treatment

Treat URTI

- Broad spectrum antibiotics like amoxycillin/ ampicillin/ erythromycin.
- Parenteral if complications suspected
- Nasal decongestants
- Analgesics.

C.S.O.M.

- Chronic suppurative otitis media
- Continuous or intermittent ear discharge
- Foul smelling
- Permanent perforation of tympanic membrane.
- Hearing loss
- > Sometime may present with complicatons...





Investigations for CSOM

Examination under microscope (Otomicroscopy)

- Pure tone audiometry
- X-ray mastoid: B/L lateral oblique (Schuller)
 Sometimes HRCT TEMPORAL BONE if any

suspected complications.

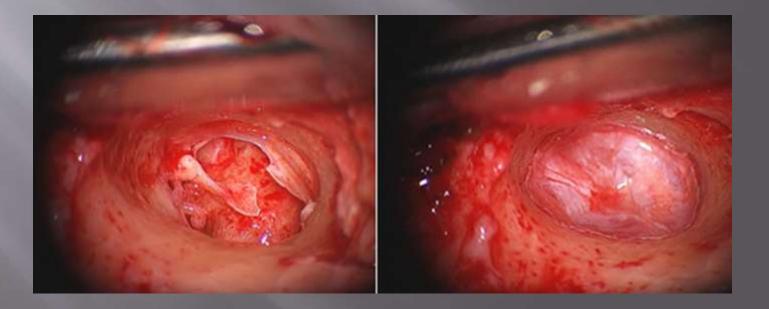


- Precautions
- Aural toilet
- Antibiotics : Systemic & Topical
- Antihistamines : Systemic & Topical
- Nasal decongestants : Systemic & Topical
- Treatment of respiratory infection & allergy.

Surgical Treatment

TYMPANOPLASTY

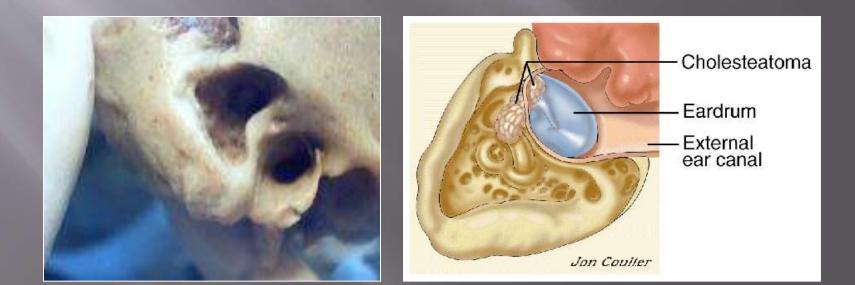
'Removal of disease and reconstruction of hearing mechanism'



Mastoidectomy

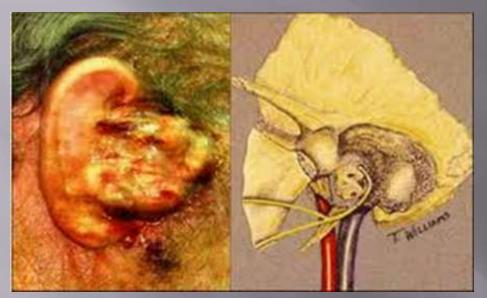
 Intact (bony ear) canal wall mastoidectomy

Canal wall down mastoidectomy
 Radical Mastoidectomy (dead ear)
 Modified Radical Mastoidectomy



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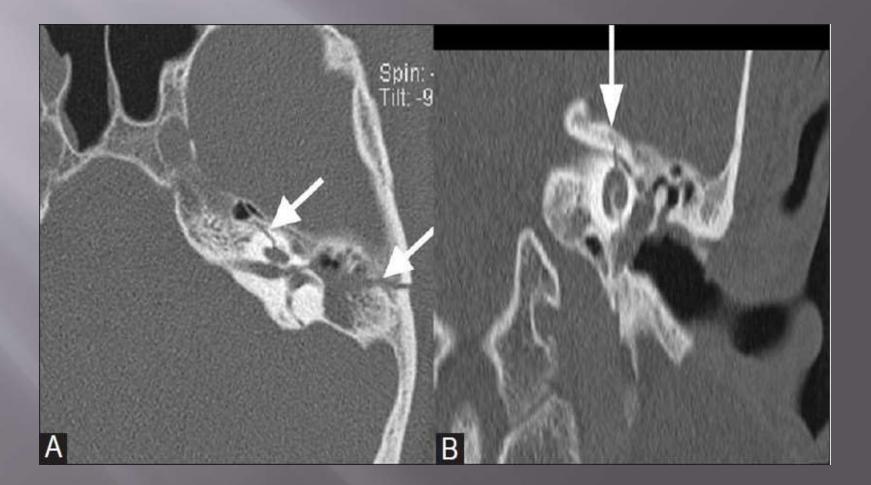


- Common in old age group
 Blood stained ear discharge
 Facial palsy
- Treatment-Complete excision of temporal bone

C.S.F.Otorrhoea

- Clear watery discharge
- The most common cause is trauma causing fracture of temporal bone
- Malignancy
- C.S.O.M.
- □ Iatrogenic.

HRCT Temporal Bone



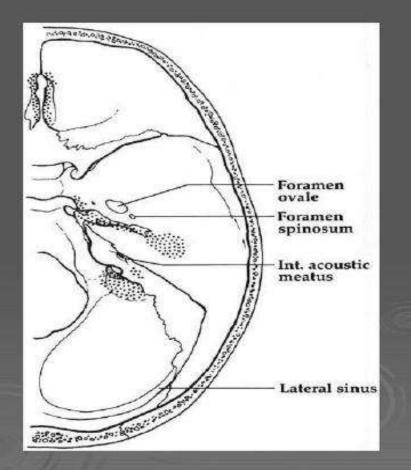
Surgical approaches

Transmastoid

 Not ideal for large defects (>2cm), multiple defects, or defects that extend anteriorly

Middle cranial fossa

- Technically challenging
- Best exposure
- Combined approach



o Thank you....!!!





- Opd facilities
- > Nasal endoscopy
- > Videolaryngoscopy
- Ear microscopy
- Ent consultation



Operation theatre



>Ear surgeries like Tympoanoplasty, Mastoidectomy Myringotomy, Facial Nerve decompression. >Nose surgeries like Septoplasty, FESS(functional endoscopic sinus surgery) Rhinoplasty. > Throat surgeries like Tonsillectomy, Adenoiectomy, Vocal cord surgeryetc







Audiometry
Hearing aid
Speech thearpy



o Thank you....!!!