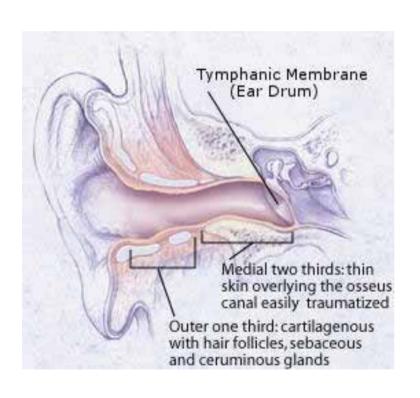
Otitis Externa

Pieter Naudé

Anatomy



- 2.5 cm
- S-shaped
- Isthmus
- Hair follicles
- Sebaceous + ceruminous glands
- Cerumen = protective

- Acute Otitis Externa AOE
 - Diffuse "swimmer's ear"
 - Localized furunculosis
- Chronic Otitis Externa COE
 - Otomycosis
 - Non-infective
- Necrotising / Malignant OE
- Herpes Zoster Oticus (Ramsey-Hunt)

Background:



- Infection of EAC
- Bacterial
 - Pseudomonas
 - Staph aureus
- Rarely complications
- Acute morbidity
- M = F
- All ages
 - (peak=7-12y)

Pathophysiology:





- Trapped moisture
 - Swimmers
 - Humid climates
- Trauma to EAC
 - Cotton buds
 - Paper clips
 - Pencils

"Ear cleaning – 15 rupees"



History:



- 1-2 days progressive ear pain
- Itching
- Purulent discharge
- Conductive hearing loss
- Feeling of fullness or pressure
- Exposure to water

Examination:



- Pain on gentle traction of auricle
- Peri-auriclular adenitis
- Speculum:
 - Erythema
 - Oedema
 - Moist debris in canal
 - TM difficult to visualise

Diagnosis:



- D_x usually made on <u>history</u> + <u>physical</u> exam
- Lab:
 - Swab for MCS if not responding on R_x
- Imaging:
 - Only if complicated
- Other:
 - Screen for DM (glucostix)

Treatment:



- Topical
 - Quadriderm
 - a/b eardrops
- Systemic
 - Oral a/b usually not indicated
 - Analgesia
- Keep ear dry

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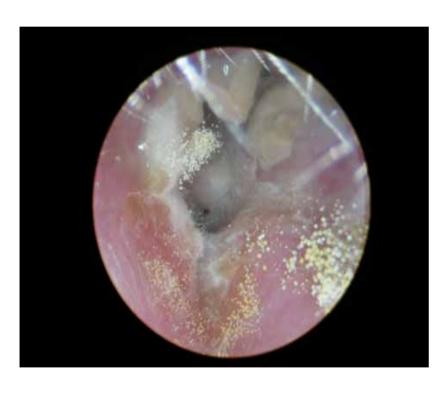
AOE – localised / furunculosis



- Usually in lateral ⅓
- Pustule → furuncle
- Localised symptoms
- Staph
- R_x:
- not abscess
 - Oral a/b
 - Analgesia
- Abscess
 - I&D

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COE - otomycosis



- Aspergillus and Candida most common
- 1° pathogen or superimposed infection

COE - otomycosis



- S_x as for AOE
- Pruritus ++
- R_x:
- topical antifungal (Quadriderm)
- Acetic acid

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COE – non-infective



- Chronic eczematoid external otitis /
- Seborrhoeic dermatitis
- Canal is red, scaly, dry
- Can have 2° bact inf
- Older women
- Hair over ears

COE – non-infective



- Lichenification if chronic
- Rx:
 - Hydrocortisone
 - Treat overlying infection if present

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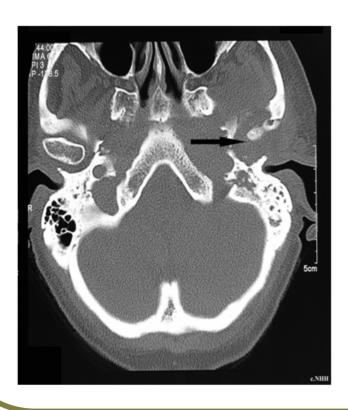
Necrotising / Malignant OE



- DM, elderly, immunocompromised
- Pseudomonas common
- Begins as AOE
- Progresses to skull base osteomyelitis
- Resultant CN neuropathies
- Deep pain ++

Necrotising / Malignant OE

Diagnosis:



- Clinical
- Laboratory
- Suspicions not responding on R_x
- CT

Necrotising / Malignant OE

Treatment:

- IV anti-Pseudomonal antibiotics (4w)
- Local canal debridement
- Pain control
- R_x underlying condition

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Herpes Zoster Oticus



- Ramsey-Hunt syndrome
- Herpes zoster of pinna ('shingles')
- Otalgia and facial paralysis
- Varicella zoster virus dormant in nerve or ganglion

Herpes Zoster Oticus



- Burning pain
- Headache, malaise, fever for a few days
- Vesicles appear 3 7 days after onset of pain
- Usually erupt on the antihelix, conchal bowl, and postero-lateral EAC

Herpes Zoster Oticus

Treatment:

- Acyclovir
- Oral steroids
- Corneal protection

Credits / references

- Grand Rounds Of The UTMB
 Department Of Otolaryngology
 - http://www.utmb.edu
- Otolaryngology Houston
 - http://www.ghorayeb.com