OTORRHOEA

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Otorrhoea can be defined as *discharge from the ear* and may originate from the **ear** canal or the **middle ear**.

It is often associated with **hearing loss** and there is frequently no pain associated. There is a spectrum of discharge, ranging from soft wax (yellow/white and mistaken for pathological discharge) through clear, mucoid and frankly purulent fluid that may have an offensive odour.

Causes

Click for Table 1 "characteristics of otorrhoea"

External ear canal

•	<u>Acute otitis externa</u>	otalgia predominatesotorrhoea is common
•	<u>Dermatitides</u>	- psoriasis - eczema
•	<u>Chronic otitis externa</u>	 often bilateral and painless relapsing canal skin thick and easily traumatised
•	<u>Furunculosis</u>	 throbbing pain (SEVERE) seropurulent discharge when abscess ruptures

Middle ear

- two main types, both causing otorrhoea and hearing loss and invariably associated with tympanic membrane (TM) defect

- otalgia is often not a feature

• <u>Chronic suppurative otitis media</u> (tubotympanic)

- acute otitis media causes TM rupture resulting in mucopurulent discharge
- if inflammation persists and TM fails to heal, perforation remains (usually in the *pars tensa*) and there is recurrent mucoid discharge.

• <u>Chronic suppurative otitis media (attico-antral)</u>

- long-standing Eustachian tube dysfunction may result in TM retraction or perforation in the attic region
- associated with cholesteatoma and scanty, offensive otorrhoea
- hearing loss often marked
- bone erosion may occur and involve middle or posterior cranial fossae with resulting intracranial complications

• **Discharging mastoid cavities**

- following mastoid surgery, some patients experience persistent otorrhoea

• Fractured temporal bone

click for Table 2 "persistently discharging mastoid cavities"

- hearing loss perforated tympanic membrane / blood in middle ear
 - ossicular chain disruption
 - fracture involves cochlea

- otorrhoea - blood

- csf

• <u>Otorrhoea after grommets</u>

- grommets may become infected, producing mucoid otorrhoea
- swimming controversial

Management

- Carefully examine discharge appearance and odour may give diagnosis
- Integrity of tympanic membrane must be assessed

<u>External ear</u>	 systemic or topical antibiotics as appropriate toilette to remove all debris 1% hydrocortisone cream to control dermatitis
Middle ear	 conservative treatment with toilette and topical antibiotic drops is effective in most cases unless: cholesteatoma is present, requiring surgery
<u>Fractured</u> temporal bone	otorrhoea usually resolves spontaneouslyantibiotic use controversial
Grommets	 mop / suction and instil antibiotic drops "pump" tragus to allow drops to penetrate middle ear persistent otorrhoea - ? remove grommets ?