

Ear Discharge in Adults

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Red flags

- Severe persistent ear pain, headache, cranial nerve neuropathy
- Malignant otitis externa
- Suspected skull base osteomyelitis or mastoiditis
- Cellulitis of the pinna
- Clear fluid discharge following head trauma

Assessment

1. Examine ear with otoscope:
 - Consider **conditions** that can cause ear discharge.

Conditions

Causes of ear discharge in adults:

- *Common causes:*
 - *Otitis externa*
 - *Otitis externa with associated otitis media*
 - *Otitis media with a ruptured tympanic membrane*
 - *Rarer causes to consider:*
 - *Discharging tympanostomy tube – consider Post-operative Grommets Care*
 - *Foreign body in ear.*
 - *Skull fracture – clear thin to bloody discharge with history of head injury*
 - The nature of the discharge may be a clue to diagnosis.
2. If uncertain of aetiology or not responding to first line treatment, **swab for microscopy and culture.**

Swabbing for microscopy and culture

- *Useful due to the increasing rate of multi-resistant organisms and can help target more appropriate antibiotic treatment.*
- *Can help differentiate between otitis externa where staphylococcal, pseudomonal, or fungal infections will be present rather than the respiratory pathogens which are seen with a perforation.*

Management

Manage depending on cause:

Management of otitis externa

- *For suspected bacterial cause:*
 - *Prescribe Ciproxin HC (ciprofloxacin 0.2% + hydrocortisone 1%) 5 drops twice a day for 10 days.*
 - *If oedematous canal and drops unable to penetrate insert Pope Otowick.*
 - *To view Pope Otowick insertion (43 sec.) video [CLICK HERE](#)*

- *May fall out or is easily removed in 24 to 48 hours.*
- *If still present when reviewed after 3 to 5 days, may require gentle removal with forceps.*

- Educate patient on **proper use of drops**.

Proper use of topical drops

- *Mop ear secretions with twisted tissue paper (tissue spears) or cotton wool before inserting drops:*
 - *Lie the patient with the affected ear pointing upwards.*
 - *Instil prescribed number of drops into the ear canal without dropper touching the ear.*
 - *Apply gentle pressure to the tragus (ear flap), pressing several times in a pumping action promoting deep penetration of the drops down the ear canal.*
 - *Keep the patient in position for 3 minutes.*
 - *Do not plug the canal after administering the drops.*
- *Remind the patient to keep the ear canal dry e.g., wear ear plugs, use shower cap when showering.*
- *For suspected fungal cause:*
 - *Prescribe:*
 - *Locacorten Vioform eardrops: 5 drops twice a day for 10 days, or*
 - *Kenacomb otic/Otocomb (triamcinolone 0.1% + neomycin 0.25% + gramicidin 0.025% + nystatin 100 000 units/mL) ear drops: 5 drops twice a day for 10 days.*
 - *If fungal infection does not resolve, refer for [urgent or routine ENT referral](#).*
- *Advise patients:*
 - *pain is significant and will take a few days to settle. Regular analgesia is very important.*
 - *avoid any swimming until otalgia has completely gone.*
 - *consider preventative drops after swimming such as aqua ear.*

Acute otitis media with tympanic membrane perforation

Prescribe ciprofloxacin ear drops and advise proper use of drops.

Ciprofloxacin ear drops

- *Ciprofloxacin 0.3% ear drops 5 drops, twice daily after dry mopping, until the middle ear has been free of discharge for at least 3 days.*
- *This may require prolonged or recurrent periods of treatment. Seek ENT advice if still symptomatic after 4 to 6 weeks.*
- *Ciprofloxacin ear drops are PBS-funded for patients with chronic suppurative otitis media (CSOM), who are either of:*
 - *Aboriginal and Torres Strait Islander persons. Ask the patient their ethnicity*
 - *or aged < 18 years with perforation of the tympanic membrane, and/or grommets in situ.*
- *Ciprofloxacin ear drops are not ototoxic and are preferred over aminoglycoside based ear drops.*

Prescribe antibiotics for adults.

Antibiotics for adults

- Only treat adults with otitis media if infection is suppurative, associated with discharge, or patient is systemically unwell.
 - Amoxicillin 500 mg orally, 8 hourly for 5 days
 - If inadequate response to amoxicillin in 48 to 72 hours:
Amoxicillin/clavulanic acid 500/125 mg orally, 8 hourly for 5 to 7 days
 - If allergic to penicillin:
 - Cefuroxime 500 mg orally, 12 hourly for 5 days
 - Trimethoprim/sulfamethoxazole 160/800 mg orally, 12 hourly for 5 days

Advise continue drops for 48 hours after discharge has resolved.

Keep ear dry and review to ensure resolution.

Discharging tympanostomy tubes

- Can be treated with steroid and antibiotic drops, such as Ciproxin HC (non-ototoxic drops) or Sofradex (potential but very rare ototoxicity).

Steroid and antibiotic ear drops

- There is a very small risk (1 in 1000 to 1 in 10,000) of inner ear damage when ototoxic ear drops (e.g., Sofradex, Soframycin, Kenacomb) are used if there is perforation or patent ventilation tube.
 - There is considerable debate, but there have been very few cases of ototoxicity reported.
 - Most experts feel the risk is very small and while Ciproxin HC is preferable, if unavailable, Sofradex or similar may be used in the short term.
 - Not treating in this group can increase the risk of sensorineural hearing loss.
 - Review after 1 week, and if no improvement, request [ENT assessment](#).
 - Kenacomb is not effective, as it is too viscous.
- Consider adding oral antibiotics if:
 - fever or systemically unwell, or
 - one week of drops have not resolved the discharge.
- Locorten Vioform is not recommended due to adverse effects.
- In an acute perforation where the drops are used for < 2 weeks, the risk of causing harm is very low. Drops concentrate medication in the ear and clear the discharge better than oral antibiotics.

Chronic suppurative otitis media (CSOM)

- Clean the external ear canal well with suction or under direct vision with cotton wool on a probe, followed by ear drops containing antibiotic and steroid 3 to 4 times daily. Evidence suggests that quinolone antibiotic drops are most effective e.g., Ciproxin HC.
- If patient presents with CSOM and a discharging ear that is not responding to antibiotic and steroid drops, arrange [urgent ENT, head, and neck surgery referral](#) within 4 weeks.

Referral

- If any red flags, arrange [immediate ENT referral or admission](#)
- If otitis externa with severe pain and/or canal oedema at first presentation, arrange [urgent ENT surgery referral](#) within 1 week.
- If non-responsive otitis externa, and:
 - significant oedema or pain, and non-responsive, consider [urgent or routine ENT surgery referral](#).
 - significant white canal debris is present after the inflammation has settled, arrange [urgent or routine ENT surgery referral](#).
- Arrange [urgent or routine ENT surgery referral](#) if:
 - chronic otitis media is not responding to treatment (aural polyps, cholesteatoma, myringitis, abnormal drum and discharge),
 - tympanic membrane perforation with frequent annoying discharge, or significant hearing impairment and unable to use hearing aids.
 - ventilation tube discharge which is not settling after one course of drops (with or without oral antibiotics) for suction and further management. Include swab result.

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