Definitions

Myringitis

- Red (inflammed) eardrum
- Positive predictive value (PPV) for AOM is as low as 7%

Acute otitis media (AOM)

- Middle ear infection
 - o Inflammation acute pain, fever, myringitis
 - o Purulent effusion \pm discharge (with perforation the pain $\downarrow \downarrow$)
 - Bulging drum with loss of mobility (85-99% PPV)

Otitis media with effusion (OME)

- AKA serous otitis media
- Fluid (non-purulent) behind drum, no inflammation
- May last 6-16 wks → glue ear

Chronic supporative otitis media

- Persistent inflammation >6wks
- Perforated eardrum
- Draining exudate

Management

- Poorer outcome factors: young age, child care, dummy use, family history, formula feeding, prev episodes, ?parental smoking
- Analgesia
 - o Ibuprofen or paracetamol
 - o Topical LA (Auralgin) or natropathic ear drops may be beneficial at 30mins
- Decongestants & antihistamines not helpful in AOM
- Oral Antibiotics
 - 66% resolve within 24hrs whether given ABx or not.
 - o 80% resolve without ABx in 2-7 days.
 - o If treated with ABx only 7% children have no pain after 48hrs.
 - No benefit over placebo in hearing changes or recurrence rate
 - No conclusive proof of decrease in mastoiditis with ABX
 - Greatest benefit from ABx if age<2 or high fever & vomiting
 - o Side effects from ABx in 1:6 children treated (e.g. nausea, diarrhoea, rash)
 - First line: amoxicillin 15mg/kg tds PO x 5d
 if penicillin allergic: a macrolide e.g. azithromycin 10mg/kg od PO x 3d
 2nd line: Augmentin 22.5mg/kg bd PO if no improvement after 3d
 - 5 days is normally as effective as 10 days.
 - No evidence that higher doses more effective
 - Prophylactic ABx halve yearly recurrence rate if high risk
- Topical ABx (ciprofloxacin) if perforation

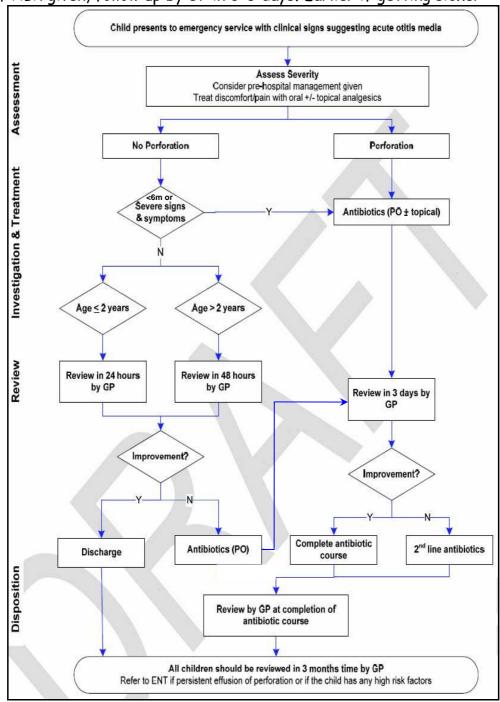
Summary of AOM Mx

If realistically likely bacterial AOM:

- Red, bulging drum, purulent effusion/discharge, treat by age:
 - o <=6mo: Analgesia + Antibiotics</p>
 - o >6mo 2 yrs: Analgesia + Delay ABx 24hrs unless severe
 - 2ys: Analgesia + Delay ABx 48hrs unless severe

o Have lower threshold for ABx in Indigenous children

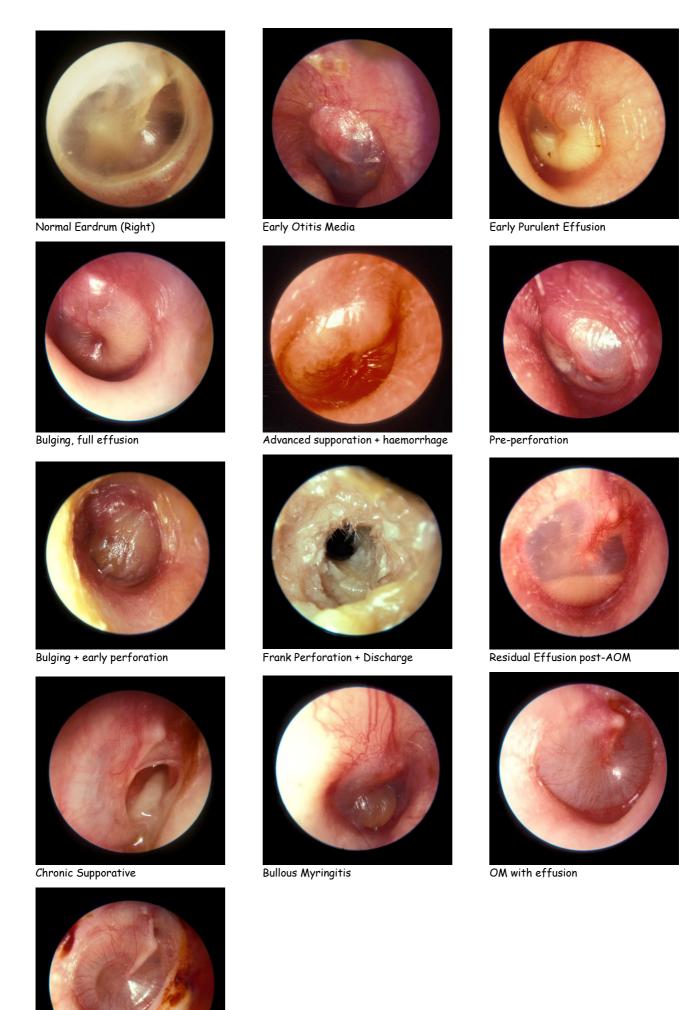
 \circ If ABx given, follow up by GP in 3-5 days. Earlier if getting sicker



Notes: Severe Sign/Symptoms = Vomiting + High Fever.
 Only add topical ABx if perforation or in situ grommet.

Complications

- Effusion post-AOM:
 - o 50% at 1 month
 - o 10% at 3 months
 - If hearing loss → ENT specialist
- Mastoiditis- Rare <1:2000
- Meningitis
- Facial paralysis
- Intracranial abscess
- Lateral sinus thrombosis
- Recurrence: if >3 episodes in 6mo or 4 in 1 yr \rightarrow ENT specialist
- Chronic supporative OM or retracted tympanic membrane: → ENT specialist



Glue Ear - drum retraction, opaque fluid