Glue Ear (OME)

Will Kendall, Tim Williams

Overview

- What is glue ear?
- Aetiology
- Presentation
- Diagnosis
- -When to refer
- Management



Otitis Media with Effusion/Glue Ea

- Collection of serous/mucoid fluid within middle ear
- No signs of acute inflammation
- 1 6 years old
- winter months.
- resolves within 3 months
- can recur
- 5-10% of cases last > a year.
- occur
 - after acute otitis media
 - persists secondary to impaired eustachian tube function
 - persistent inflammation or low grade infection.



Presentation in children

- Hearing loss
- Intermittent mild ear pain with fullness/popping.
- history of
 - recurrent ear infection,
 - URTIs
 - or nasal obstruction.

On examination:

Opacification of drum and/or retraction (occasionally bulging)
Fluid level/bubbles
Loss of light reflex/more diffuse
Minimal inflammation or discharge.



Diagnosis

Table 1. The diagnostic features of acute otitis media and otitis media with effusion.

Symptom or sign	Acute otitis media	Otitis media with effusion
Earache, fever, or irritability	V	Usually absent
Middle ear effusion	V	V
Opaque drum	V	May be absent
Bulging drum	May be √	Usually absent; drum is often retracted
Impaired drum mobility	V	V
Hearing loss	√ but not the predominant symptom	Usually √

Management

- Active observation 2-3 months
- Reassurance and parental advice *
- No need for
 - antibiotics,
 - steroids,
 - antihistamines
 - or decongestants



- If persisting after 3 months refer for audiometry testing or ENT opinion.
- An ENT opinion is also required if
 - There is severe hearing loss
 - There is significant impact on development
 - In children with Down syndrome or cleft palate
 - Features suggest an alternative diagnosis
 - ? Cholesteatoma

Following referral to

- Further observation repeated hearing t
- Hearing aids
- Auto-inflation techniques
- Surgery
 - insertion of ventilation tubes (grommets) improves hearing in children with (OME) for up to 12 months after surgery,
 - but effect diminishes from 6 months onwards
 - no evidence that language or speech development is improved.

(see Criteria for commissioning grommets in children)

- OME suspicious!
 - particularly if unilateral.
- Eustachian tube dysfunction
 - severe sinusitis,
 - recurrent URTI
 - chronic allergy.
- Other causes include
 - Post radiotherapy or surgery
 - Nasopharyngeal Ca
 - Severe septal deviation
 - Barotrauma





