

OME usually resolves spontaneously within 4–6 weeks. If it persists for >3 months, the condition is referred to as chronic OME or chronic serous otitis media.

Cholesteatomas are accumulations of epithelium or keratin in the middle ear that can enlarge, perforate the tympanic membrane, envelop the ossicles, or destroy surrounding tissue. Cholesteatomas can cause labyrinthitis, hearing loss, cranial nerve palsies, vertigo, meningitis, extradural or brain abscess, and lateral sinus thrombophlebitis.

TREATMENT

Otitis Media with Effusion

OME is treated with myringotomy with tympanostomy tube insertion. For young children with nasal obstruction or recurrent infection, adenoidectomy may be considered. Medications, including antihistamines, glucocorticoids, or antibiotics, do not reliably help. Children at risk for speech or language delay may need earlier referral for more aggressive treatment.

■ ACUTE MASTOIDITIS

Etiology Acute mastoiditis is a serious infection with significant morbidity despite antibiotic and surgical treatment. This condition is most common among children <2 years old but can occur at any age. Acute mastoiditis is often a complication of AOM but may develop without clinically apparent, prior AOM. In older children with acute mastoiditis, clinicians should suspect cholesteatoma.

The pathogenesis of mastoiditis involves spread of organisms from the middle-ear spaces through the aditus ad antrum to the mastoid air cells. *Incipient* mastoiditis consists of fluid within the mastoid air cells, without bony destruction of the bony septa, and can progress to *coalescent* mastoiditis, with destruction of the bony septa. Acute mastoiditis often causes subperiosteal abscess laterally. The organisms most commonly involved in mastoiditis are *S. pneumoniae*, *Streptococcus pyogenes*, *H. influenzae*, *S. aureus*