Evidence Table 2. Populations

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Popova et al., 201012 | AgeOverall:G1: 60 monthsG2: 61 monthsCriteria for DiagnosisTympanometry (interacoustics AT-235h) - Type B tympanograms with fulid level on otoscopy. Pneumatic otoscopy by validated otoscopist.Inclusion* 2007-2009
* Documented bilateral middle effusion for >3 months
* 20 db conductive hearing loss

Exclusion* Previous myringotomy (+/- TT)
* Previous adenoidectomy or tonsillectomy
* Hx of ear surgery
* Cleft palate
* Down's syndrome
* Congenital malformation of ear
* Cholesteatoma or chronic mastoiditis
* Perforation of TM
* Conductive hearing loss due to destructive changes in ME
* Sensoneural hearing loss
 | Baseline TympanometryNRBaseline Hearing or Hearing Loss(500-4000 Hz)Overall: G1: 31.4 dBG2: 32.3 dBns p=0.39Other Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall:G1: 45G2: 44Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Williamson et al., 2009;20 Williamson et al., 200921 | AgeRange: 4-11 yrs oldMean months (SD), (range)G1: 73.3 (20.2) (49-129)G2: 72.1 (18.6) (48-125)Criteria for DiagnosisTympanometryInclusion* Dx of bilateral OME by a nurse
* In the first yr of study children positive screening entered a 3 month period of watchful waiting.
* In yr 2 the protocol was changed and children with histories of bilateral tympanic failure were allowed to be randomized at the first failed screen (50:50).

Exclusion* Tympanometry screen passed
* Large amounts of wax
* Uninterpretable tympanogram
* Children with cleft palate
* Down syndrome
* Primary ciliary dyskinesia
* Karteagner's syndrom
* Immuniodeficiency states
* TTs or tympanic perforation
* Frequent or heavy epistaxis
* Hypersensitivity to mometasone
* Hx of steriod use in previous 3 months
* Children under 4 yrs
 | Baseline TympanometryType C2 (middle ear pressure −200 to −399) n=54Type B (middle ear pressure ≤−400) n=88Baseline Hearing or Hearing LossScale: Sweep audiometry at 25 dB (pass/fail) All enrolled children failed audiometric screenOther Baseline SymptomsNRBaseline Relevant ComorbiditiesHistory, No. (%) Adenoidectomy: 51 (24.5)Tonsillectomy: 23 (11.1)Cleft palate: 17 (8.2)Grommets 49 (23.6)Allergies: 7 (3.4)Baseline % FemaleG1: 48G2: 68Baseline % NonwhiteG1: 3G2: 4 | Insured StatusNHS EnglandStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Licameli et al., 20087 | AgeMean months, (range)Overall: 19 (8-51 )Criteria for DiagnosisNot specifiedInclusion* 3-4 months of medical management for OME prior to randomization

Exclusion* Previous TT
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall: 35.7Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Ragab, 200513 | AgeG1: 4.8 yrG2: 5.2 yrCriteria for DiagnosisHx, pneumo-otoscopic exam, and tympanogramsInclusion* Nov 2002-Jan 2004 patients undergoing surgery for OME

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossAir Bone Gap: G1: 24.7 dBG2: 24.1 dBOther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleNRBaseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Koopman et al., 20046 | AgeChildren aged < 11 yrsCriteria for DiagnosisBinocular otoscopy in combination with Type B tympanogram or pure tone audiometry used for diagnosis. Bilateral tympanogram Type C1 or C2 (Jerger) considered to support diagnosis of OME. If child was too young or failed at audiometric testing, diagnosis based solely on otoscopic findings and hxInclusion* Children aged less than 11 years
* Impaired hearing noticed by parents during at least 3 successive months
* Bilateral OME

Exclusion* Unilateral OME
* Ear effusions without fever, otalgia, or otorrhea
* Poorly cooperative children
* Clinically admitted patients
* Asymmetric perceptive hearing loss (HL)
* Previously operated ears with other than myringotomy or ventialation tubes
 | Baseline TympanometryType B: 362 ears (172 bilaterally)C1: 5 earsC2: 18 (3 bilateral) earsBaseline Hearing or Hearing LossMean duration of hearing loss (months [range])Overall: 6 [3-12] PTAs NR# of children referred for TT because of hearing loss NROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNo. (%) History of: Adenoidectomy: 51 (24.5)Tonsillectomy: 23 (11.1)Cleft palate: 17 (8.2)Ever grommets 49 (23.6)Allergies: 7 (3.4)Baseline % FemaleOverall: 48.1Baseline % NonwhiteOverall: 18.3 Mediterranean: 7.7Black: 6.3Asian: 1.9Other: 2.4  | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Ovesen et al., 200011 | AgeMean (range)Overall: 38 months (1-7 yrs)Criteria for DiagnosisOtomicroscopical exam, tympanometry (middle ear pressure < 200 mm H2O)Inclusion* Children undergoing TT insertion bilaterally for the first time due to OME

Exclusion* Patients with antibiotics within 1 month of surgery
* Patients with other diseases
* Patients with AOM at time of surgery
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesGenerally excludedBaseline % FemaleOverall: 36Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Wielinga et al., 199019 | AgeMean, yrsMales: 7 Females: 6 Criteria for DiagnosisOtoscopy, pure tone audiometry, tympanometryInclusion* Bilateral OME
* 6 months of unsuccessfull treatment with standard decongestive medications
* Mucoid secretion aspiration

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossAirconduction thresholds >20 dB G1: 13G2: 11Other Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall: 40Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Mandel et al., 19899 | AgeOverall: 7 mos -12 yrsGroups without hearing loss, by age grpG1: 7-23 mos n=6 ; 2-5 yrs n=14; 6-12 yrs n=7 G2: 7-23 mos n=8 ; 2-5 yrs n=17; 6-12 yrs n=5 G3: 7-23 mos; n=7; 2-5 yrs n=17; 6-12 yrs n=5 Groups with hearing loss, by age grpG4: 7-23 mos n=7; 2-5 yrs n= 3; 6-12 yrs n=2 G5: 7-23 mos n=6; 2-5 yrs n=4; 6-12 yrs n =1Criteria for DiagnosisValidated otoscopy, tympanometry, middle-ear muscle reflex testingInclusion* Children between 7 mos and 12 yrs of age
* Documented MEE of at least 2 mos duration persisting after at least one 14 day course of antimicrobial drug and pseudoephedine hydrochloride-chlorpheniramine maleate syrup.

Exclusion* Craniofacial malformations
* Down syndrome
* Systemic illness such as asthma, cystic fibrosis or diabetes
* Seizure disorder
 | Baseline TympanometryAcoustic reflex thresholds were estimated for1000 Hz tone ipsilaterally and contralaterally.Baseline Hearing or Hearing LossAudiologic procedures depended upon age.* < 2.5 yrs: were tested in sound field using a head turn response. Speech awareness thresholds and minimum response levels for warbled pure tones were estimated for these children.
* 2.5 – 5 yrs: were tested with play audiometry.
* > 5 yrs: traditional clinical protocol was used for chidren older. Bilateral thresholds under earphones from 500 to 4000 Hertz were obtained.
* SRT for each ear were obtained using age appropriate responses (picture, id or word rep)

Other Baseline SymptomsSignificant hearing loss for randomization: pure tone avg of >20 dB bilaterallyu or >40 dB unilaterally or a speech awareness threshold >20 dB above the age-appropriate level or otalgia or vertigo unresponsive to medical treatment among those who do not have hearing or speech deficiencies.Baseline Relevant ComorbiditiesOtalgia or vertigoBaseline % FemaleOverall: 33  | Insured StatusNRStudy Population Broadly Applicable?YesCommentsParticipants were divided into 2 groups: those with "signifcant" hearing loss (defined arbitrarily as a pure-tone average of >20 dB bilaterally or >40 dB unilaterally, or a speech awareness threshold >20 dB above the age appropriate level) or symptoms consisting of otalgia or vertigo unresponsive to medical treatment, and those who had none of these findings. Within these groups, the subjects were stratified according to age. |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Mandel et al., 19899 | * History of tonsillectomy, adenoidectomy, or TT insertion
* Structual middle-ear abnormality such as tympanic membrane perforation or adhesive OM; cholesteatoma; sensorineural hearing loss or conductive loss not attributable to MEE; severe upper airway obstruction; AOM; or purulent rhinitis.
 | Baseline % NonwhiteOverallBlack: 25.7 |  |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| McRae et al.,198910 | AgeMean, years (range)Overall: 5.8Range: (2.3 -10)Criteria for DiagnosisOtoscopy and impedance audiometryInclusion* Children at head of waiting list for bilateral myringotomy and ventilation tube insertion

Exclusion* Subsequent surgery in study duration
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall: 34Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Lildholdt 19798 | AgeMean years (range)Overall: 4 (1-10) Criteria for DiagnosisBilateral middle ear pressure below -150mm H20. If audiogram was possible a maximum 15dB diff at 500, 1000, 2,000 HzInclusion* Not clearly specified

Exclusion* Previous use of TT, recurrent acute supperative OM, unequal involvemnt of ears, congenital defects such as cleft palate
 | Baseline TympanometryBilateral middle ear pressure below -150mm H20.Baseline Hearing or Hearing LossOverall: If audiogram was possible a a maximum 15dB diff at 500, 1000, 2,000 Hz Other Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleG1: 41G2: 41 Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?No |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Brown et al., 19783 | AgeRange overall, years: 4 to 10 Criteria for DiagnosisHx, otoscopy and pure tone audiometryInclusion* Not specified

Exclusion* Not specified
 | Baseline TympanometryNRBaseline Hearing or Hearing LossPure tome audiometry at 500, 1000, 2000, 4000 Hz G1: 25 dBG2: 23.1 dBOther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleNRBaseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?NoCommentsThe subject population is very marginally described. |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Szeremeta et al., 200016 | AgeMean years, (range)G1: 6.52 (2.74 - 12.52)G2: 7.37 (3.86 - 5.34)Criteria for DiagnosisNRInclusion* Children > 4 years with refractory OME or 2nd middle ear intubation
* Spring operations

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleNRBaseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Iwaki et al., 19985 | AgeOverall: range 3-12 yrsMean, yearsG1: 6.2 G2: 6.5 G3: 5.8 Criteria for DiagnosisNRInclusion* Continuous conductive hearing loss with over 25 dB air-bone gap
* ≥ 6 months resistance to conservative thearpy with medication and politzerization
* Retracted and glue-colored tympanic membrane with type B tympanogram

Exclusion* Craniofacial problems such as cleft palate
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall:38Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Austin, 19942 | AgeNRCriteria for DiagnosisNRInclusion* Indication for adenotonsillectomy and OME, Resistant to ENT or pediatric management

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossAir-Bone GapG1: 29.9 dBG2: 26.6 dBOther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleNRBaseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?NoCommentsRegarding applicability: Not enough information on the sample so it is hard to generalize. |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Abdullah et al., 19941 | AgeMean years (range)Overall: 6 (3-10)Criteria for DiagnosisInclusion* De novo OME

Exclusion* No significant hx of AOM
* No evidence of tympanosclerosis
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall: 36Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Tos and Stangerup, 198917 | Age5 years (no range reported) this is not the baseline age of the initial population, but average age of the 146 people in the study conducted in 1984Criteria for DiagnosisNRInclusion* Bilateral OME

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossSpecify Scale (mean of 250, 1000, 4000 Hz)(250 Hz)G1: 21.7G2: 19.6(1000 Hz)G1: 23G2: 20.4(4000 Hz)G1: 22.8G2: 20.5(Mean)G1: 22.5G2: 20.2Other Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleOverall: NR for baseline cohort;for participants of 1984 study, Overall: 40%Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Slack et al., 198722 | Age< 16 yearsCriteria for DiagnosisNRInclusion* Children <16 years old
* TT inserted for OME in 1983

Exclusion* NR
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleNRBaseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Shishegar and Hoghoghi, 200714 | AgeRange, yearsOverall: 4-8 Criteria for DiagnosisPhysical examinations; otoscopoy, audiometry, tympanometryInclusion* Not specified

Exclusion* Hx of prior adenotonsillectomy, tympanostomy tube iplacement, dry middle ear, cleft palate, and perforated tympanic membrane
 | Baseline TympanometryNRBaseline Hearing or Hearing LossMean pure tone averages in decibels hearing level (db HL) at 500, 1,000 and 2, 000 HZ)G1: 25.1 db HLG2: 26.3 db HLMean ears difference, dB (SD): 1.15 (3.25)Decreased hearing level: 30/30 patients Preoperatively 27 of 30 participants had hearing lossMean speech Reception Threshold (SRT)Mean paired ear as difference (SD): 0.83 dB (5.105)G1: 24.8G2: 25.695%CI=NRp=NROther Baseline SymptomsN (%):Nasal obstruction and snoring: 26 (87)Recurrent otitis media: 24 (80)Serious otitis media 19 (63)History of allergy: 4 (13)Smoking in parents: 10 (33)Allergic signs: 10 (33)Adenoid enlargement 23 (77)Turbinate hypertrophy: 13 (43)Septal deviation: 5 (17) | Insured StatusNRStudy Population Broadly Applicable?NoCommentsUnrepresentative comorbidities, but study says "no significant differences in clinical and demographic variables among treatment groups preoperatively." |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Shishegar and Hoghoghi, 200714(continued) |  | Baseline Relevant ComorbiditiesNRBaseline % FemaleOverall: 37 (11/30 children)G1: 37G2: 37Baseline % NonwhiteNA |  |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| D'Eredità and Shah, 20064 | AgeMean years (range)Overall: 3.7 (2-6)G1:3.8 (2-6)G2:3.6 (2-6)Criteria for DiagnosisTympanometryInclusion* OME for at least 3 months duration

Exclusion* Hx of prior middle ear surgery or PE tube insertion or previous pharyngeal surgery
* Cleft palate, Down syndrome or other syndrome involving the head and neck
* Mental retardation or other known cognitive or psychiatric disorder
 | Baseline TympanometryNRBaseline Hearing or Hearing LossNROther Baseline SymptomsNRBaseline Relevant ComorbiditiesNRBaseline % FemaleG1: 47G2: 47Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?YesCommentsTotal followup was 12 months with post-op evaluations at day 10, 20, 30, 40, 60, and 80 and mo 3,4,6,8, and 12 |

Evidence Table 2. Populations (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Author, Year | AgeCriteria for Diagnosing OMEInclusion CriteriaExclusion Criteria | **Baseline Tympanometry****Baseline Hearing or Hearing Loss****Other Baseline Symptoms****Baseline Relevant Comorbidities****Baseline % Female****Baseline % Nonwhite** | **Insured Status****Study Population Broadly Applicable?****Comments** |
| Vlastos et al., 201118 | AgeMean years (range)G1: 4.6 (3-7)G2: 4.4 (3-7)Criteria for DiagnosisOtoscopy ,tympanometry, pure tone audiometry Inclusion* > 3 yrs
* Scheduled adenoidectomy due to sleep-disordered breathing
* Presence of bilateral OME (the presence of an opaque or thickened tympanic mem- brane, air–fluid level, or bubbles, or the inability to visualise the incudostapedial joint, were considered signs of OME
* Type B tympanogram (compliance <0.2ml).
* Audiogram with an air–bone gap of 20 dB or a hearing loss of 30 dB but no more than 55 dB in at least one frequency in both ears.

Exclusion* No signs of effusion at time of myringotomy
* Children with chronic otitis media
* Structural changes (e.g. tympanic membrane retraction pockets, ossicular chain erosion or cholesteatoma
* Previous ear surgery
* Language delays
* Behavioural problems
* Syndromes
 | Baseline TympanometryNRBaseline Hearing or Hearing LossMean hearing losses at 250, 500, 1000, 2000 and 4000 Hz (range) G1: 31.2 dB (21-39)G2: 32.7 dB (27-37)Other Baseline SymptomsOM-6 ScoreG1: 2.2G2: 2.0Obstructive Sleep Disorders -6 (OSD-6)G1: 3.3G2: 3.4Ears with mucoid fluidG1: 68%G2: 61%Baseline Relevant ComorbiditiesGenerally excludedBaseline % FemaleG1: 44G2: 44Baseline % NonwhiteNR | Insured StatusNRStudy Population Broadly Applicable?Yes |