**Table, Supplemental Digital Content 1. Search strategy**

**Supplementary Figure 1. Quality assessment included studies Prevalence rates otopathogens**

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|  **Search Strategy:** (#1 AND #2) OR (#1 AND #3) |
|  | **PubMed** | **Embase** | **Cochrane Library** |
| #1 | acute otitis media[Title/Abstract] OR AOM[Title/Abstract] OR acute suppurative otitis media[Title/Abstract] OR (acute[Title/abstract] AND (middle ear[Title/Abstract] OR draining ear[Title/Abstract] OR ear discharge [Title/Abstract] OR otorrhea [Title/Abstract] OR otorrhoea [Title/Abstract])) | 'acute otitis media':ab,ti OR 'AOM':ab.ti OR 'acute suppurative otitis media':ab.ti OR ('acute':ab,ti AND ('middle ear':ab,ti OR 'draining ear':ab,ti OR 'ear discharge':ab,ti OR 'otorrhea':ab,ti OR 'otorrhoea':ab,ti)) | ('acute otitis media' OR 'AOM' OR 'acute suppurative otitis media' OR ('acute' AND ('middle ear' OR 'draining ear' OR 'ear discharge' OR 'otorrhea' OR 'otorrhoea'))) |
| #2 | antimicrobial resistance[Title/Abstract] OR anti-microbial resistance[Title/Abstract] OR bacterial resistance[Title/Abstract] OR antimicrobial susceptibility[Title/Abstract] OR antibiotic susceptibility[Title/Abstract] OR resistant organism[Title/Abstract] OR resistant organisms[Title/Abstract] OR resistant otopathogen[Title/Abstract] OR resistant otopathogens[Title/Abstract] OR resistant pathogen[Title/Abstract] OR resistant pathogens[Title/Abstract] OR Streptococcus pneumoniae[Title/Abstract] OR S. pneumoniae[Title/Abstract] OR Haemophilus influenzae[Title/Abstract] OR H. influenzae[Title/Abstract] OR Moraxella catarrhalis[Title/Abstract] OR M. catarrhalis[Title/Abstract] OR Staphylococcus aureus[Title/Abstract] OR S. aureus[Title/Abstract] OR Pseudomonas aeruginosa[Title/Abstract] OR P. aeruginosa[Title/Abstract]  |  'antimicrobial resistance':ab,ti OR 'anti-microbial resistance':ab,ti OR 'bacterial resistance':ab,ti OR 'antimicrobial susceptibility':ab,ti OR 'antibiotic susceptibility':ab,ti OR 'resistant organism':ab,ti OR 'resistant organisms':ab,ti OR 'resistant otopathogen':ab,ti OR 'resistant otopathogens':ab,ti OR 'resistant pathogen':ab,ti OR 'resistant pathogens':ab,ti OR 'Streptococcus pneumoniae':ab,ti OR 'S. pneumoniae':ab,ti OR 'Haemophilus influenzae':ab,ti OR 'H. influenzae':ab,ti OR 'Moraxella catarrhalis':ab,ti OR 'M. catarrhalis':ab,ti OR 'Staphylococcus aureus':ab,ti OR 'S. aureus':ab,ti OR 'Pseudomonas aeruginosa':ab,ti OR 'P. aeruginosa':ab,ti | ('antimicrobial resistance' OR 'anti-microbial resistance' OR 'bacterial resistance' OR 'antimicrobial susceptibility' OR 'antibiotic susceptibility' OR 'resistant organism' OR 'resistant organisms' OR 'resistant otopathogen' OR 'resistant otopathogens' OR 'resistant pathogen' OR 'resistant pathogens' OR 'Streptococcus pneumoniae' OR 'S. pneumoniae' OR 'Haemophilus influenzae' OR 'H. influenzae' OR 'Moraxella catarrhalis' OR 'M. catarrhalis' OR 'Staphylococcus aureus' OR 'S. aureus' OR 'Pseudomonas aeruginosa' OR 'P. aeruginosa') |
| #3 | antibiotic[Title/Abstract] OR antibiotics[Title/Abstract] OR antimicrobial[Title/Abstract] OR antimicrobials[Title/Abstract] OR anti-microbial[Title/Abstract] OR anti-microbials[Title/Abstract] OR anti infective[Title/Abstract] OR topical[Title/Abstract] OR ototopical[Title/Abstract] OR antimicrobial drops[Title/Abstract] OR ear drops[Title/Abstract] OR eardrops[Title/Abstract] | 'antibiotic':ab,ti OR 'antibiotics':ab,ti OR 'antimicrobial':ab,ti OR 'antimicrobials':ab,ti OR 'anti-microbial':ab,ti OR 'anti-microbials':ab,ti OR 'anti infective':ab,ti OR 'topical':ab,ti OR 'ototopical':ab,ti OR 'antimicrobial drops':ab,ti OR 'ear drops':ab,ti OR 'eardrops':ab,ti | ('antibiotic' OR 'antibiotics' OR 'antimicrobial' OR 'antimicrobials' OR 'anti-microbial' OR 'anti-microbials' OR 'anti infective' OR 'topical' OR 'ototopical' OR 'antimicrobial drops' OR 'ear drops' OR 'eardrops') |