*Supplementary table: ICD-9 codes of otitis media related diagnoses used*

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| **ICD-9 diagnosis** | **Description** | **ICD-9 code** |
| **Otitis media** |  |  |
|  | Suppurative and unspecified otitis media | 382 |
|  | Other and unspecified chronic non-suppurative otitis media | 3813 |
|  | Non-suppurative otitis media, not specified as acute or chronic  | 3814 |
|  | Acute suppurative otitis media | 3820 |
|  | Unspecified chronic suppurative otitis media  | 3823 |
|  | Unspecified suppurative otitis media  | 3824 |
|  | Unspecified otitis media  | 3829 |
|  | Unspecified mastoiditis  | 3839 |
|  | Acute non-suppurative otitis media, unspecified | 38100 |
|  | Acute serous otitis media  | 38101 |
|  | Chronic serous otitis media, simple or unspecified | 38110 |
|  | Acute suppurat. otitis media without spontan. rupture of eardrum  | 38200 |
|  | Acute suppurat. otitis media with spontan. rupture of eardrum | 38201 |
|  | Acute mastoiditis without complications  | 38300 |
|  | Subperiosteal abscess of mastoid | 38301 |
|  | Cholesteatoma, unspecified  | 38530 |