

Supplements

Supplement 1. List of antibiotics classified as those to treat upper respiratory tract infections

ATC code	Name of substance	ATC code	Name of substance
J01AA01	demeclocycline	J01DD01	cefotaxime
J01AA02	doxycycline	J01DD04	ceftriaxone
J01AA04	lymecycline	J01DD08	cefixime
J01AA06	oxytetracycline	J01DD13	cefpodoxime
J01AA07	tetracycline	J01DD54	ceftriaxone, combinations
J01AA08	minocycline	J01DE01	cefepime
J01AA12	tigecycline	J01DE02	cefpirome
J01BA01	chloramphenicol	J01DH02	meropenem
J01CA01	ampicillin	J01DH03	ertapenem
J01CA02	pivampicillin	J01DH04	doripenem
J01CA04	amoxicillin	J01DH51	imipenem and enzyme inhibitor
J01CA06	bacampicillin	J01DI02	ceftaroline fosamil
J01CA12	piperacillin	J01EE01	sulfamethoxazole and trimethoprim
J01CE01	benzylpenicillin	J01FA01	erythromycin
J01CE02	phenoxymethylpenicillin	J01FA06	roxithromycin
J01CE08	benzathine benzylpenicillin	J01FA09	clarithromycin
J01CR02	amoxicillin and enzyme inhibitor	J01FA10	azithromycin
J01CR05	piperacillin and enzyme inhibitor	J01FA15	telithromycin
J01CR50	combinations of penicillins	J01FF01	clindamycin
J01DA10	cefotaxime	J01FF02	lincomycin
J01DB01	cefalexin	J01FG01	pristinamycin
J01DB03	cefalotin	J01FG02	quinupristin/dalfopristin
J01DB04	cefazolin	J01MA02	ciprofloxacin
J01DB05	cefadroxil	J01MA12	levofloxacin
J01DC01	cefoxitin	J01MA14	moxifloxacin
J01DC02	cefuroxime	J01RA01	penicillins, combinations with other antibacterials
J01DC04	cefaclor	J01XA01	vancomycin
J01DC06	cefonicid	J01XA02	teicoplanin
J01DC08	loracarbef	J01XX08	linezolid
		J01XX09	daptomycin

Supplement 2. ICD-10 codes used to identify bacterial complications

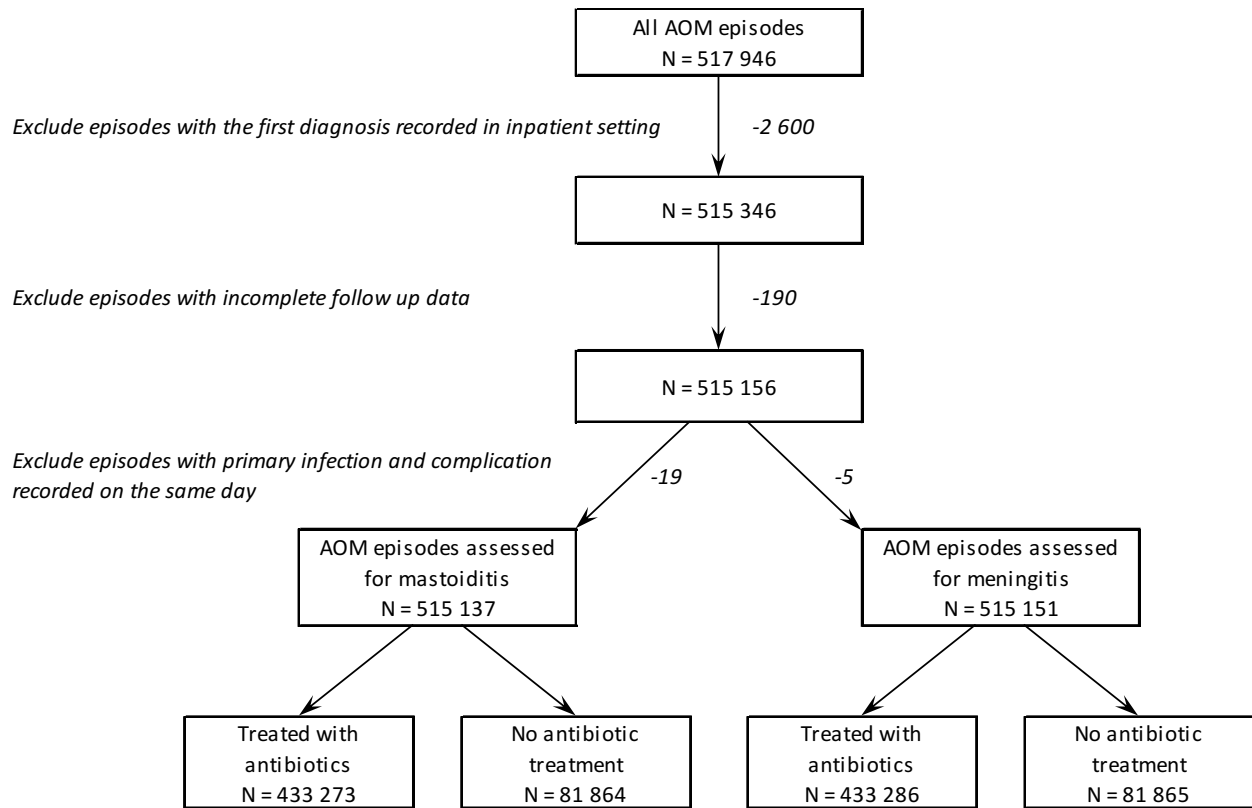
Bacterial complication	ICD-10 code	ICD-10 text
Mastoiditis	H70.0	Acute mastoiditis
	H70.2	Petrositis
	H70.9	Mastoiditis, unspecified
Meningitis	G00.0	Haemophilus meningitis
	G00.1	Pneumococcal meningitis
	G00.2	Streptococcal meningitis
	G00.3	Staphylococcal meningitis
	G00.9	Bacterial meningitis, unspecified
Peritonsillar abscess	J36	Peritonsillar abscess
Retropharyngeal and parapharyngeal abscess	J39.0	Retropharyngeal and parapharyngeal abscess
Invasive group A streptococcal disease	A40.0	Sepsis due to streptococcus, group A
	A40.9	Streptococcal sepsis, unspecified
	M72.6	Necrotizing fasciitis
Pansinusitis	J01.4	Acute pansinusitis
Orbital abscess	H05.0	Acute inflammation of orbit
Extra- and subdural abscess	G06.2	Extradural and subdural abscess, unspecified
Acute ethmoidal sinusitis	J01.2	Acute ethmoidal sinusitis

Supplement 3. ICD-10 codes used to identify primary URTIs

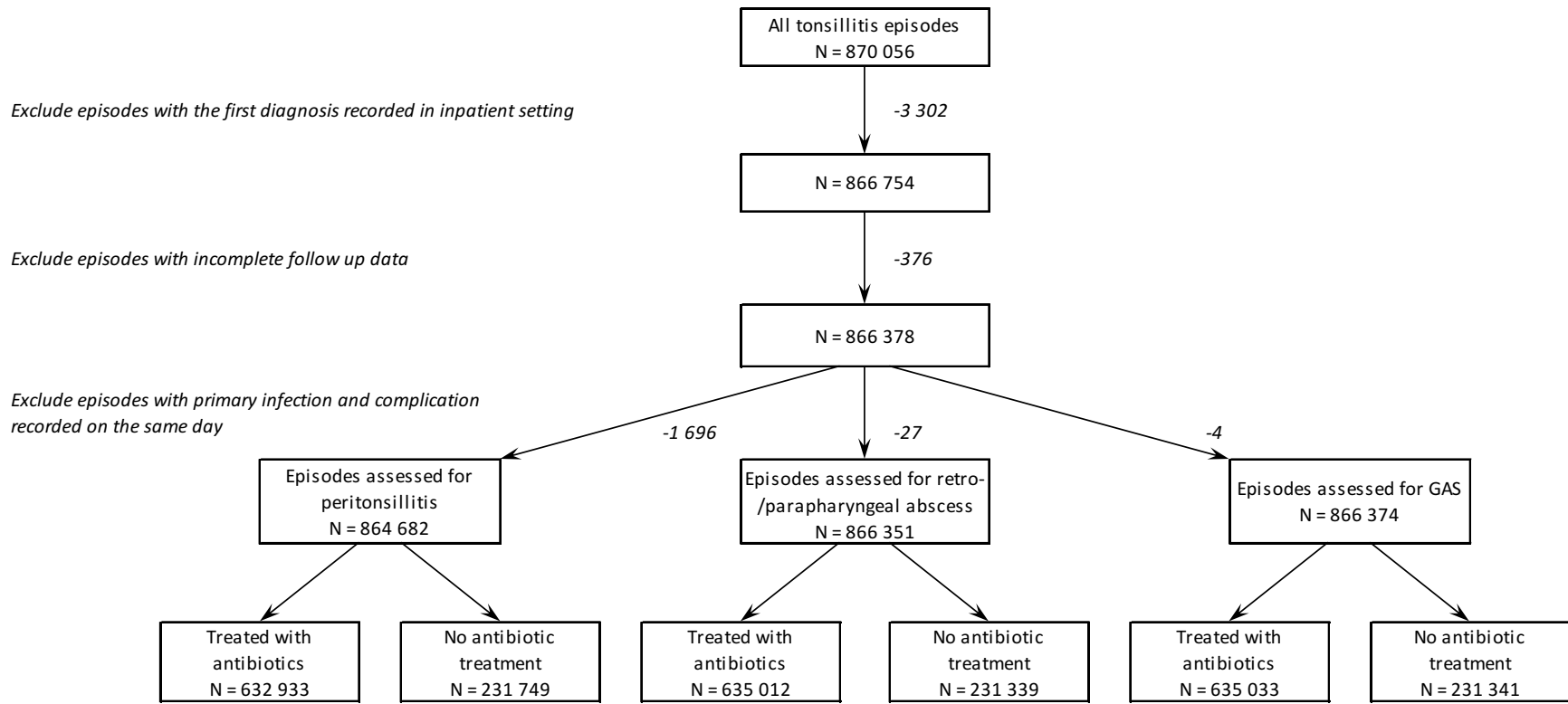
Primary URTIs	ICD-10 code	ICD-10 text
Acute otitis media	H66.0	Acute suppurative otitis media
	H66.9	Otitis media, unspecified
Tonsillitis	J02	Acute pharyngitis
	J03	Acute tonsillitis
Sinusitis	J01.0	Acute maxillary sinusitis
	J01.9	Acute sinusitis, unspecified
	J01	Acute sinusitis (for primary care records only)
Sinusitis and acute upper respiratory tract infections of multiple and unspecified sites	J01.0	Acute maxillary sinusitis
	J01.9	Acute sinusitis, unspecified
	J01	Acute sinusitis (for primary care records only)
	J06.0	Acute laryngopharyngitis
	J06.9	Acute upper respiratory infection, unspecified
	J06	Acute upper respiratory infections of multiple and unspecified sites (for primary care records only)

Supplement 4. Cohort selection flow-chart

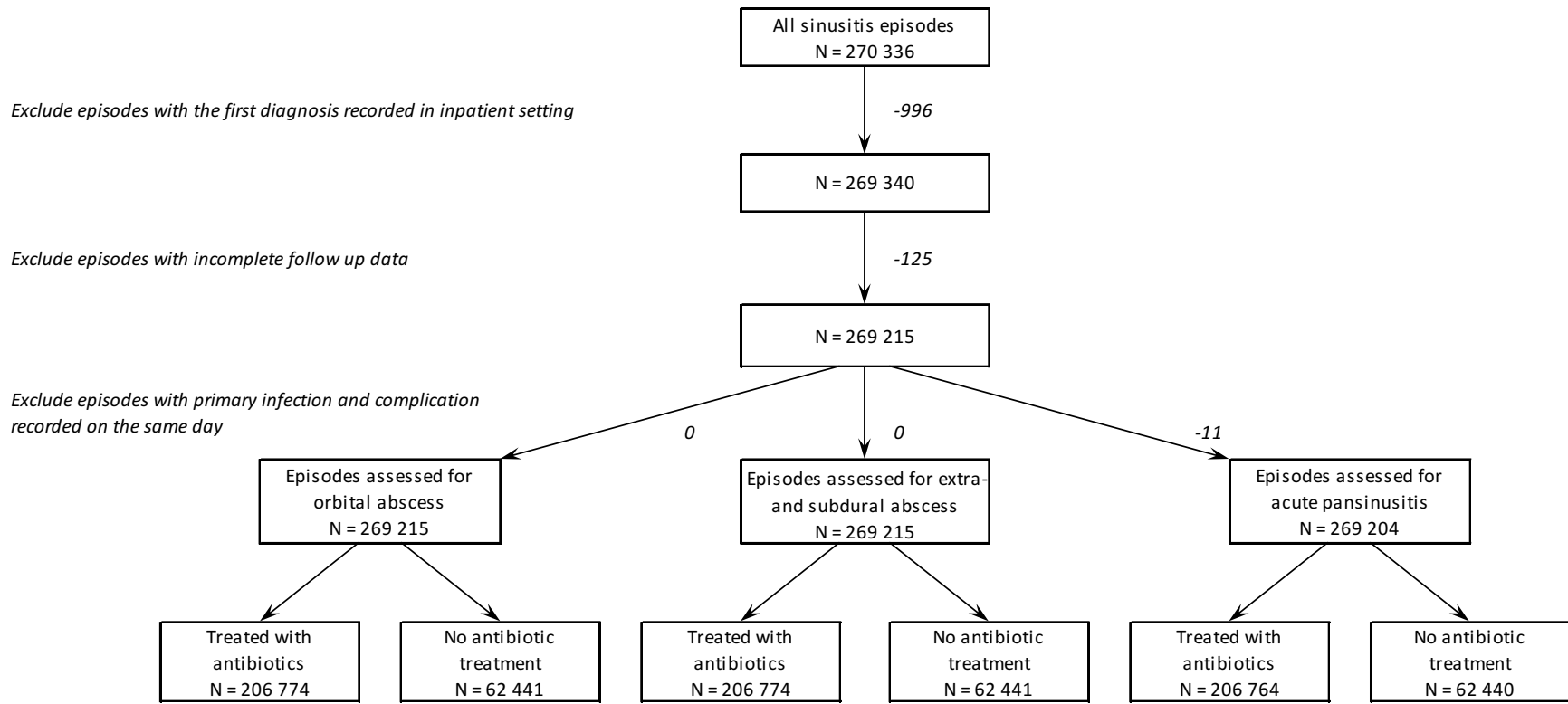
1. Acute otitis media (AOM) cohort



2. Tonsillitis cohort



3. Acute sinusitis cohort



4. Acute sinusitis / acute upper respiratory tract infections of multiple and unspecified sites cohort

