

**Supplemental Table S1.** Search terms and ICD-9 codes of pneumococcal disease.

Manifestation	ICD-9-CM Code
Pneumonia	481
	482.9 and 041.2
	485 and 041.2
	486 and 041.2
	482.9
	485
	486
	480.x
	481
	482.x
	483.x
	484.x
	485
	486
	487.0
Meningitis	320.1
	320.2 and 041.2
	320.82/320.9 and 041.2
	322.9 and 041.2
	320.2
Bacteremia	320.82/320.9
	038.2
	038.0 and 041.2
	038.9 and 041.2
	790.7 and 041.2
	038.0
	038.9
	790.7
AOM	381.x
	382.x
	384.0

AOM: acute otitis media; ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification.