

**Supplement Table S1. List of ICD-9 and ICD-10 codes used to identify pneumonia**

	<b>ICD-9</b>	<b>ICD-10</b>
Viral pneumonia	480.x	J12.xx
Pneumonia due to adenovirus	480.0	J12.xx
Pneumonia due to respiratory syncytial virus	480.1	J12.xx
Pneumonia due to parainfluenza virus	480.2	J12.xx
Pneumonia due to other virus not classified otherwise	480.8	J12.xx
Viral pneumonia	480.9	J12.xx
Pneumococcal pneumonia	481	J13
Other bacterial pneumonia	482.xx	J15.xx
Pneumonia due to Klebsiella pneumonia	482.0	J15.xx
Pneumonia due to pseudomonas	482.1	J15.xx
Pneumonia due to Haemophilus influenzae	482.2	J15.xx
Pneumonia due to Streptococcus	482.3x	J15.xx
Pneumonia due to staphylococcus	482.4x	J15.xx
Pneumonia due to other specified bacteria	482.8x	J15.xx
Bacterial pneumonia unspecified	482.9	J15.xx
Pneumonia due to other specified organism	483.x	J16.xx
Pneumonia due to mycoplasma pneumoniae	483.0	J15.7
Pneumonia due to chlamydia	483.1	J16.0
Pneumonia due to other specified organism	483.8	J16.8
Bronchopneumonia and pneumonia, organism unspecified	485	J18.x

Bronchopneumonia and pneumonia, organism unspecified	486	J18.x
Pneumonia in infectious disease classified elsewhere	484	Not applicable
Pneumonia in cytomegalic inclusion disease	484.1	B25.0
Pneumonia in whooping cough	484.3	A37.91
Pneumonia in anthrax	484.5	A22.1
Pneumonia in aspergillosis	484.6	B44.0
Pneumonia in other systemic mycoses	484.7	J17
Pneumonia in other infectious disease classified elsewhere	484.8	J17
Influenza with pneumonia	487.0	J11.00
Ornithoses with pneumonia	73.0	A70 with J17
Pulmonary actinomycosis	39.1	A42.0
Post-measles pneumonia	55.1	B05.2
Salmonella pneumonia	003.22	A02.22
Pneumonia due to toxoplasmosis	130.4	B58.3
Pulmonary tularemia	21.2	A21.2
Varicella pneumonia	52.1	B01.2
Empyema with fistula	510.0	J86.0
Empyema without fistula	510.9	J86.9
Pleurisy with effusion, bacterial cause other than tuberculosis	511.11	J90
Abscess of lung	513.0	J85.1
Pneumocytosis	136.3	B59
Candidiasis of the lung	112.4	B37.1
Primary coccidioidomycosis	114.0	B38.0

Histoplasmosis capsalatum pneumonia	115.05	B39.2
Histoplasmosis duboisii pneumonia	115.15	B39.5 with J17
Histoplasmosis unspecified pneumonia	115.95	B39.9 with J17
Aspiration pneumonia	507.0	J69.0