**Supplemental Appendix:**

**International Classification of Diseases, Clinical Modification, Version 9 and 10 (ICD 9/10) codes used to define**

**medically attended acute respiratory illness visits**

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| **CODE GROUP** | **ICD 9 CODE** | **CONDITION** |
| Viral and chlamydial infection in conditions classified elsewhere and of unspecified site | 79.99 | Unspecified viral infection |
| Diseases of ear and mastoid process | 382.0\* | Acute suppurative otitis media |
| Diseases of ear and mastoid process | 382.4\* | Unspecified suppurative otitis media |
| Diseases of ear and mastoid process | 382.9\* | Unspecified otitis media |
| Acute respiratory infections | 460.\* | Acute nasopharyngitis (common cold) |
| Acute respiratory infections | 461.\* | Acute sinusitis |
| Acute respiratory infections | 464.\* | Acute laryngitis and tracheitis |
| Acute respiratory infections | 465.\* | Acute upper respiratory infections of multiple or unspecified sites |
| Acute respiratory infections | 466.\* | Acute bronchitis and bronchiolitis |
| Pneumonia and influenza | 480.\* | Viral pneumonia |
| Pneumonia and influenza | 483.\* | Pneumonia due to other specified organism |
| Pneumonia and influenza | 484.\* | Pneumonia in infectious diseases classified elsewhere |
| Pneumonia and influenza | 485.\* | Bronchopneumonia, organism unspecified |
| Pneumonia and influenza | 486.\* | Pneumonia, organism unspecified |
| Pneumonia and influenza | 487.\* | Influenza |
| Pneumonia and influenza | 488.\* | Influenza due to identified avian influenza virus |
| Chronic obstructive pulmonary disease and allied conditions | 490.\* | Bronchitis, not specified as acute or chronic |
| Chronic obstructive pulmonary disease and allied conditions | 491.\* | Chronic Bronchitis |
| Chronic obstructive pulmonary disease and allied conditions | 493.\* | Asthma |
| General symptoms | 780.60 | Fever, unspecified |
| Symptoms involving respiratory system and other chest symptoms | 786.2\* | Cough |
| Dyspnea and respiratory abnormalities | 786.07 | Non-specific wheezing; excludes asthma |

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| **Code Group** | **ICD10 code** | **Condition** |
| Acute respiratory infections | J00 | Acute nasopharyngitis [common cold] |
| Acute respiratory infections | J01.\* | Acute sinusitis |
| Acute respiratory infections | J02.\* | Acute pharyngitis |
| Acute respiratory infections | J03.\* | Acute tonsillitis |
| Acute respiratory infections | J04.\* | Acute laryngitis and tracheitis |
| Acute respiratory infections | J05.\* | Acute obstructive laryngitis [croup] and epiglottitis |
| Acute respiratory infections | J06.\* | Acute upper respiratory infections of multiple and unspecified sites |
| Acute respiratory infections | J20.\* | Acute bronchitis |
| Acute respiratory infections | J21.\* | Acute bronchiolitis |
| Chronic obstructive pulmonary disease and allied conditions | J40.\* | Bronchitis, not specified as acute or chronic |
| Chronic obstructive pulmonary disease and allied conditions | J41.\* | Simple and mucopurulent chronic bronchitis |
| Chronic obstructive pulmonary disease and allied conditions | J42.\* | Unspecified chronic bronchitis |
| Chronic obstructive pulmonary disease and allied conditions | J44.\* | Other chronic obstructive pulmonary disease |
| Chronic obstructive pulmonary disease and allied conditions | J45.\* | Asthma |
| Diseases of ear and mastoid process | H66.0\* | Acute suppurative otitis media |
| Diseases of ear and mastoid process | H66.4\* | Suppurative otitis media, unspecified |
| Diseases of ear and mastoid process | H66.9 | Otitis media, unspecified |
| Diseases of ear and mastoid process | H67.\* | Otitis media in diseases classified elsewhere |
| Dyspnea and respiratory abnormalities | R06.2 | Wheezing |
| General symptoms | R50.9 | Fever, unspecified |
| General symptoms | R68.83 | Chills (without fever) |
| Pneumonia and influenza | A37.01 | Whooping cough due to Bordetella pertussis with pneumonia |
| Pneumonia and influenza | A37.11 | Whooping cough due to Bordetella parapertussis with pneumonia |
| Pneumonia and influenza | A37.81 | Whooping cough due to other Bordetella species with pneumonia |
| Pneumonia and influenza | A37.91 | Whooping cough, unspecified species with pneumonia |
| Pneumonia and influenza | B25.0 | Cytomegaloviral pneumonitis |
| Pneumonia and influenza | J09.\* | Influenza due to certain identified influenza viruses |
| Pneumonia and influenza | J10.\* | Influenza due to other identified influenza virus |
| Pneumonia and influenza | J11.\* | Influenza due to unidentified influenza virus |
| Pneumonia and influenza | J12.\* | Viral pneumonia, not elsewhere classified |
| Pneumonia and influenza | J13.\* | Pneumonia due to Streptococcus pneumoniae |
| Pneumonia and influenza | J14.\* | Pneumonia due to Hemophilus influenzae |
| Pneumonia and influenza | J15.\* | Bacterial pneumonia, not elsewhere classified |
| Pneumonia and influenza | J16.\* | Pneumonia due to other infectious organisms, not elsewhere classified |
| Pneumonia and influenza | J17.\* | Pneumonia in diseases classified elsewhere |
| Pneumonia and influenza | J18.\* | Pneumonia, unspecified organism |
| Symptoms involving respiratory system and other chest symptoms | R05 | Cough |