**Appendix 1.**

Lower Respiratory Infection ICD-9 Codes:

466.0, 466.11, 466.19, 480.1, 487.0, 487, 487.8, 488.1, 003.22, 011.6, 021.2, 022.1, 031.0, 033.0, 033.1, 033.8, 033.9, 039.1, 052.1, 055.1, 073.0, 079.6, 095.1, 112.4, 114.0, 115.05, 115.15, 115.95, 130.4, 136.3, 480.0, 480.2, 480.3, 480.8, 480.9, 481, 482.0, 482.1, 482.2, 482.9, 485, 486, 482.3, 482.4, 482.8, 483, 484

Respiratory Failure ICD-9 Codes:

518.81, 518.82, 518.83, 518.84, 799.1, 799.0

Asthma ICD-9 Codes:

493.00, 493.01, 493.02, 493.10, 493.11, 493.12, 493.20, 493.21, 493.22, 493.81, 493.82, 493.90, 493.91, 493.92

Primary Sepsis ICD-9 Codes:

003.1, 020.2, 022.3, 031.2, 036.2, 038.0, 038.10, 038.11, 038.12, 038.19, 038.2, 038.3, 038.40, 03841, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 054.5, 117.3, 117.5, 785.52, 790.7

Asthma Exacerbation ICD-9 Codes:

493.01, 493.02, 493.11, 493.12, 493.21, 493.22, 493.91, 493.92