**Supplementary Table 1:** List of Codes Used to Define Infection-Related Outcomes

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| **Site of Infection** | **Diagnosis** | **International Classification of Disease (ICD)-9 Codes** | **International Classification of Disease (ICD)-10 Codes** |
| Lower respiratory tract infections | Pneumonia | 052.1, 055.2, 480, 481, 482.0, 482.1, 482.2, 482.3, 482.4, 482.81, 482.82, 482.83, 482.84, 482.89, 482.9, 483.0, 483.1, 483.8, 484.1, 484.7, 484.8, 485, 486, 487, 488 | A48.1, B01.2, B05.2, B25.0, J10, J11, J12, J13, J14, J15, J16, J17, J18 |
| Lower respiratory tract infections | Other acute lower respiratory infections | 033, 039.1, 041.2, 115, 116.0, 117.3, 130.4, 466, 484.3, 484.6 | A37, A42.0, B39, B40, B44, B48.5, B58.3, B59, B95.3, J20, J21, J22, U04 |
| Lower respiratory tract infections | Abscessus pulmonis | 513 | J85 |
| Lower respiratory tract infections | Empyema pleurae | 510 | J86 |
| Upper respiratory tract infections | Mastoiditis | 383.0 | H70 |
| Upper respiratory tract infections | Nasopharyngitis | 032.1, 032.2 | A36.1 |
| Upper respiratory tract infections | Sinusitis | 461 | J01 |
| Upper respiratory tract infections | Pharyngitis | 034.0 | J02 |
| Upper respiratory tract infections | Pharyngeal, retropharyngeal, and parapharyngeal abscess | 032.1, 475, 478.21, 478.22, 478.24, 478.71 | J36, J39.0, J39.1 |
| Upper respiratory tract infections | Tonsillitis | 032.0, 463 | A36.0, J03 |
| Upper respiratory tract infections | Laryngitis and tracheitis | 032.3, 464, 465, 572.0 | A36.2, J04, J05 |
| Upper respiratory tract infections | Acute upper respiratory infections of multiple and unspecified sites | 032.81, 032.82, 032.83, 032.84, 032.9, 465 | A36.8, A36.9, J06 |
| Upper respiratory tract infections | Infection of ear and acute otitis media | 380.1, 382.0 | H60.0, H60.1, H60.2, H60.3, H65.1, H66, H68.0 |
| GI infections | Intestinal infectious disease | 001, 002, 003, 004, 005, 006, 007, 008, 009, 040.4 | A00, A01, A02, A03, A04, A05, A06, A07, A08 |
| GI infections | Viral hepatitis | 070.0, 070.1, 070.20, 070.21, 070.30, 070.31, 070.41, 070.42, 070.43, 070.51, 070.52, 070.53 | B15, B17, B25.1 |
| GI infections | Cholangitis | 574.0, 574.3, 574.6, 575.0, 576.1, 576.1 | K80.0, K81.0, K83.0, B25.8 |
| GI infections | Liverabscess | 572.0 | K75.0 |
| GI infections | Infectious esophagitis | 054.6, 054.7 | B00.8, K23.80 |
| Skin and subcutaneous tissue infections | Erysipelas | 035 | A46 |
| Skin and subcutaneous tissue infections | Dermatophytosis and other superficial mycoses | 110, 111 | B35, B36 |
| Skin and subcutaneous tissue infections | Cellulitis and abscess | 680, 681, 682 | L02, L03 |
| Skin and subcutaneous tissue infections | Herpes virus | 052.2, 052.8, 052.9, 053.2, 053.7, 053.8, 053.9, 054.1, 054.2, 054.5, 054.8, 054.9 | B00, B01, B02, B05, B06, B08, B09, A60 |
| Skin and subcutaneous tissue infections | Other local infections of skin, oral tissue, and subcutaneous tissue | 032.85, 527.3, 528.3, 683, 684, 685, 686, 695.81, 728.86 | A36.3, K11.3, K11.4, K11.5, K11.6, K11.7, K11.8, K11.9, K12.0, K12.1, K12.2, L00, L01, L04, L05, L08, L30.3, M72.6 |
| Urinary tract infections | Nephritis | 590 | N10 |
| Urinary tract infections | Acute prostatis and prostate abscess | 601.0, 601.1, 601.2, 601.3 | N41.0, N41.2, N41.3 |
| Urinary tract infections | Cystitis | 595.0 | N30.0 |
| Urinary tract infections | Salpingitis and oophoritis | 614.0 | N70.0 |
| Urinary tract infections | Syphilis | 090, 091, 092, 093, 094, 095, 096, 097 | A50, A51, A52, A53, I98.0 |
| Urinary tract infections | Gonorrhea | 098 | A54 |
| Urinary tract infections | Chlamydia | 099.1 | A55, A56 |
| Urinary tract infections | Orchitis and epididymitis | 604 | N45 |
| Urinary tract infections | Other urinary tract infections | 599.0, 614.3, 614.5 | N39.0, N73.3, N77.1 |
| Musculoskeletal infections | Infectious arthritis | 711.0, 711.1, 711.4, 711.5, 711.6, 711.7, 711.8, 711.9 | M00, M01 |
| Musculoskeletal infections | Infective myositis | 728.0 | M60.0 |
| Cardiac  Infections | Acute infective pericarditis and endocarditis | 421.0, 421.1 | I30.1, I33.0 |
| Nonclassified infections | Infection of the eye | 054.4, 077, 373.1, 373.2 | B00.5, B30, H00, H03.1, H06.1, H13.1, H19.1, H19.2 |
| Nonclassified infections | Infections in the nervous system | 027.0, 036, 045, 046, 047, 048, 049, 052.0, 052.7, 053.0, 053.1, 054.3, 055.0, 055.1, 056.0, 062, 63, 064, 071, 320, 321.0, 321.1, 321.2, 321.3, 323.0, 323.1, 323.2, 323.4, 324.0, 324.1, 324.9 | A32.1, A39, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, B00.3, 0.4, B00.5, 0.6, B00.7, 0.8, B00.9, 1.0, B01.1, 1.2, B01.3, 1.4, B01.5, 1.6, B01.7, 1.8, B01.9, 2.0, B02.1, 2.2, B02.3, 2.4, B02.5, 2.6, B02.7, 2.8, B02.9, 3.0, B03.1, 3.2, B03.3, 3.4, B03.5, 3.6, B03.7, 3.8, B03.9, 4.0, B01.0, B02.1, B05.1, B06.0, G00, G01, G02, G04, G05, G06, G07 |
| Nonclassified infections | Sepsis, systemic inflammatory response syndrome of infectious origin, and septic shock | 614.0, 027.0, 038.0, 038.1, 038.2, 038.3, 038.4, 038.8, 995.90, 995.91 | A02.1, A32.7, A39.2, A39.4, A39.8, A39.9, A40, A41, B37.7, R57.2, R65.0, R65.1 |
| Nonclassified infections | Certain bacterial disease | 020, 021, 022, 023, 024, 025, 026, 027.0, 027.1, 027.2, 027.8, 027.9, 034.1, 037, 038.3, 039.0, 039.2, 039.3, 039.8, 039.9, 040.0, 040.3, 040.81, 040.82, 040.89, 041.0, 041.1, 041.3, 041.4, 041.5, 041.6, 041.7, 041.81, 041.82, 041.83, 041.84, 041.85 | A20, A21, A22, A23, A24, A25, A26, A27, A28, A32, A34, A35, A38, A42, A43, A44, A48.0, A48.2, A48.3, A48.4, A48.5, A48.6, A48.7, A48.8, A48.9, A49.0, A49.1, A49.2, A49.3, A49.4, A49.5, A49.6, A49.7, A49.8, A49.9, B95, B96, B97 |
| Nonclassified infections | Spirochetal disease | 087, 101, 102, 103, 104.0, 104.8, 104.9 | A65, A66, A67, A68, A69 |
| Nonclassified infections | Rickettsiosis | 080, 081, 082, 083 | A75, A76, A77, A78, A79 |
| Nonclassified infections | Viral infections | 055.7, 055.8, 055.9, 056.7, 056.8, 056.9, 057, 058, 059, 060, 061, 064, 65, 066, 072, 074.0, 074.1, 074.2, 074.3, 074.8, 075, 078.2, 078.4, 078.5, 078.5, 078.5, 078.6, 078.7, 078.8, 079 | A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, B25, B26, B27, B33, B34 |
| Nonclassified infections | Mycoses | 039.4, 112, 114, 116.1, 116.2, 117.0, 117.1, 117.2, 117.4, 117.5, 117.6, 117.7, 117.8, 117.9, 118 | B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B59 |
| Nonclassified infections | Protozoal diseases | 084, 085, 086, 088.82, 088.89, 120, 121, 122, 123.0, 123.1, 123.2, 123.3, 123.4, 123.5, 123.6, 123.8, 123.9, 124, 125.0, 125.1, 125.2, 125.3, 125.4, 125.5, 125.6, 125.7, 125.9, 126, 127.0, 127.1, 127.2, 127.3, 127.4, 127.5, 127.6, 127.7, 127.8, 127.9, 128, 130.0, 130.3, 130.5, 130.7, 130.8, 130.9 | A07.2, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83 |
| Nonclassified infections | Mycobacterial infections | 010, 011, 012, 013, 014, 015, 016, 017, 018, 031 | A15, A16, A17, A18, A19, A31, K23.0, K67.3, K93.0, M01.1, M49.0, M90.0, N33.0, N74.0, N74.1 |
| Nonclassified infections | Unspecified infectious diseases | 136.9 | B99.9 |