Supplemental Table. Case definitions using ninth and 10 revision of the *International Classification of Diseases Clinical Modification and Related Health Problems* (ICD-9-CM and ICD-10-CM) diagnostic codes

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| Endocarditis |
| **ICD-9-CM codes** |
| 421.0: Acute and subacute endocarditis |
| 421.1: Acute and subacute endocarditis not elsewhere classified |
| 421.9: Acute endocarditis unspecified |
| 424.9: Endocarditis, valve unspecified |
| **ICD-10-CM codes** |
| I33.0 Acute and subacute infective endocarditis |
| I39 Endocarditis and heart valve disorders in diseases classified elsewhere |
| I33.9 Acute and subacute endocarditis, unspecified |
| I38 Endocarditis, valve unspecified |
| I39 Endocarditis and heart valve disorders in diseases classified elsewhere |
| Medication or drug overdose/dependence |
| **ICD-9-CM Ccdes, 900/E codes** |
| 960–979.9 |
| E850–E858.9 |
| E950–E950.5 |
| E962.0 |
| E980–E980.5 |
| 292.0 Drug withdrawal |
| 304.0–304.02: Opioid type dependence |
| 304.20–304.22: Cocaine dependence |
| 304.40–304.42: Amphetamine and other psychostimulant dependence, unspecified use |
| 304.5–304.52: Hallucinogen dependence |
| 304.60–304.62: Other specified drug dependence |
| 304.70–304.72: Combinations of opioid type drug with any other drug dependence, unspecified use |
| 304.80–304.82: Combinations of drug dependence excluding opioid type drug, unspecified use |
| 304.90: Unspecified drug dependence, unspecified |
| ICD-10-CM T Codes |
| T36–T50 (ending in A or D only and EXCLUDING all codes in which the second to last character (7th position) is a 5 (adverse effect) or 6 (under-dosing)). |
| F19.939: Drug withdrawal |
| F14.20: Cocaine dependence, uncomplicated |
| F15.20: Other stimulant dependence, uncomplicated |
| F11.20: Opioid dependence, uncomplicated; |
| F16.20: Hallucinogen dependence, uncomplicated |
| F19.20: Other psychoactive substance dependence, uncomplicated |
| **Hepatitis C codes** |
| ICD-9 Codes 070.41, 070.44, 070.51, 070.54, 070.70/1; V02.62 |
| ICD-10 Codes B1711, B182, B170, B1920, B1921, Z2252 |
| **Human immunodeficiency virus codes** |
| ICD-9 Codes 070.41, 070.44, 070.51, 070.54, 070.70/1; V02.62 |
| ICD-10 Codes B20, B21-B24, B9735, Z21, R75, B97 |