

Supplementary Table 1 List of ICD-10 diagnoses and procedure codes

| Condition | ICD-10 codes |
|---------------------------|---|
| Acute Cholangitis | K8030, K8031, K8032, K8033, K8034, K8035, K8036, K8037 |
| Cholecystectomy | 0FT44ZZ, OFB44ZZ, OF544ZZ, OF540ZZ, OFB40ZZ, OFT40ZZ, 8E0W0CZ, 8E0W3CZ, 8E0W4CZ, 8E0W7CZ, 8E0W8CZ, 8E0WXCZ |
| ERCP | 0FJB8ZZ, 0FJD8ZZ, 0FJB8ZZ, 0FB58ZX, 0FB68ZX, 0FB88ZX, 0FB98ZX, 0FBC8ZZ, OF558ZZ, OF568ZZ, OF588ZZ, OF598ZZ, OF5C8ZZ, 0FB58ZZ, 0FB68ZZ, 0FB88ZZ, 0FB98ZZ, 0FBC8ZZ, OF758ZZ, OF768ZZ, OF788ZZ, OF798ZZ, OF7C8ZZ, OF9C8ZZ, OF9580Z, OF9680Z, OF9880Z, OF9980Z, OF9C80Z, OF758DZ, OF7C8DZ, OF788DZ, OF798DZ, OF9580Z, OF9680Z, OF9880Z, OF9980Z, OF9C80Z, OFC58ZZ, OFC68ZZ, OFC88ZZ, OFC98ZZ, OFCC8ZZ, OFF58ZZ, OFF68ZZ, OFF88ZZ, OFF98ZZ, OFFC8ZZ, OFJD8ZZ, OFBD8ZX, OFBF8ZX, OF5D8ZZ, OF5F8ZZ, OFBD8ZZ, OFBF8ZZ, OF7D8DZ, OF7F8DZ, OF9F80Z, OFCD8ZZ, OFCF8ZZ, OFFD8ZZ, OFFF8ZZ, OF9D80Z, OF9F80Z, OF7D8ZZ, OF7F8ZZ, 4A0C8BZ |
| Acute Respiratory Failure | J9600, J9690, J80, J95821, J952, J953, J95811, J95812 |
| Vasopressors | 3E030XZ, 3E033XZ, 3E040XZ, 3E043XZ, 3E050XZ, 3E053XZ, 3E060XZ, 3E063XZ |
| Septic Shock | R65.21 |
| Hypertension | I10 |
| Diabetes Mellitus | E11 |
| Acute Kidney Injury | N17 |
| Chronic Kidney Disease | N18 |
| Stage 2 | N18.2 |
| Stage 3 | N18.3 |
| Stage 4 | N18.4 |
| Stage 5 | N18.5 |

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|---------------------------|----------------|
| Unspecified | N18.9 |
| ESRD | Z992, N186 |
| Chronic Pulmonary Disease | J40-J47 |
| Congestive Heart Failure | I50 |
| Nicotine Dependence | F17.2, Z87.891 |
| Alcohol Dependence | F10 |
