**Supplementary Table 1. International Classification of Diseases (ICD)-9 code for outcome and covariates**

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| --- | --- |
| Impaired or abnormal liver function | 573.8, 794.8 |
| Hepatitis | 573.3, 571.40, 571.41 |
| Chronic liver disease | 571.9, 573.9 |
| Acute liver failure | 570 |
| Chronic liver failure  | 571.8 |
| Hepatocellular carcinoma | 155.0 |
| Cirrhosis  | 571.5 |
| Viral hepatitis B carrier  | V02.61:0 |
| Viral hepatitis C carrier | V02.62:0 |
| Sequalae of chronic liver disease | 572.8 |
| Esophageal varices | 456.0, 456.1 |
| Gastric varices | 456.8 |
| Ascites | 789.5 |
| Spontaneous bacterial peritonitis | 567.2 |
| Portal hypertension | 572.3 |
| Splenomegaly / Hypersplenism | 789.1, 789.2, 789.4 |
| Hepatic encephalopathy | 572.2 |
| Hepatorenal syndrome | 572.4 |
| Liver transplantation | V42.7 |
| Parkinsonism | 332 |
| Tremor | 781.0 |
| Dystonic disorder | 333.6 |
| Convulsion | 780.32 |
| Tics | 307.20 |
| Dementia | 290 |
| Bipolar affective disorder  | 296.7 |
| Depression | 296.2, 296.3, 311 |
| Anxiety | 300.0 |
| Organic affective syndrome | 293.83 |
| Psychosis  | 295, 293.83 |
| Personality disorder | 301 |
| Suicide | E950 |
| Hemolytic anemia | 283.10 |
| Alcoholism | 291, 571.0, 571.1, 571.2, 571.3, 303, 305.0, 980.8, 980.9 |
| Obesity | 278.0, 278.1 |
| Diabetes mellitus | 249, 250 |
| Hypertension | 401-405 |
| Dysplipidemia | 272.0-272.4 |