**Supplement 1: Description of ICD-9 codes**

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| **Codes** | **Description** |
| **Cirrhosis** |
| 571.2 | Alcoholic cirrhosis |
| 571.5 | Cirrhosis from all others other than alcohol |
| 571.6 | Biliary cirrhosis |
| **Diagnostic ERCP** |
| 51.10 | Endoscopic retrograde cholangiopancreatography (ERCP) |
| 51.11 | Endoscopic retrograde cholangiography (ERC) |
| 51.14 | Other closed (endoscopic) biopsy of biliary duct or sphincter of Oddi |
| 52.13 | Endoscopic retrograde pancreatography (ERP) |
| 52.14 | Closed (endoscopic) biopsy of pancreatic duct |
| **Therapeutic ERCP** |
| 51.84 | Endoscopic dilation of ampulla and biliary duct |
| 51.85 | Endoscopic sphincterotomy and papillotomy |
| 51.86 | Endoscopic insertion of naso-biliary drainage tube |
| 51.87 | Endoscopic insertion of stent (tube) into bile duct |
| 51.88 | Endoscopic removal of stone(s) from biliary tract |
| 52.93 | Endoscopic insertion of stent (tube) into pancreatic duct |
| 52.94 | Endoscopic removal of stone(s) from pancreatic duct |
| 52.97 | Endoscopic insertion of naso-pancreatic drainage tube |
| 52.98 | Endoscopic dilation of pancreatic duct |