**Supplementary Table 1** ICD-09 codes to define organ failure and categorization of hospitalizations as acute on chronic liver failure (ACLF).

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| --- | --- |
| DIAGNOSIS | ICD-9 |
| Cardiovascular |
| Central venous pressure | 89.62 |
| Pulmonary artery/wedge pressure | 89.64 |
| Arterial line | 89.61 |
| Septic shock | 785.52 |
| Severe sepsis | 995.92 |
| Pulmonary |
| Mechanical ventilation | 96.7, 96.70, 96.71, 96.72 |
| Renal |
| Hemodialysis | 39.95 |
| Acute kidney failure | 584.6, 584.7 |
| Brain |
| Hepatic encephalopathy | 070.0, 070.20, 070.22, 070.21, 070.23, 70.42, 070.43, 070.44, 070.49, 070.6, 070.71 |

**Supplementary Table 2** ICD-09 codes used for analysis on hospital resources

|  |  |
| --- | --- |
| VARIABLE | ICD-9 |
| Palliative care | V667 |
| Ventilator | 96.7, 96.70, 96.71, 96.72 |
| Hemodialysis | 39.95 |
| Blood transfusion | 99.03, 99.04, 9.05, 99.06 |
| Endoscopic evaluation | 42.91, 42.33, 42.24, 43.41 |