**Supplemental content.**

Table that illustrates the ICD-9-CM Based Classification of TBI, ARDS/ALI, co-morbidities, and acute organ dysfunctions used in this study)

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| --- | --- | --- |
| **ICD9-CM or CPT code** | **Description** | **References** |
| 800.0-804.9, 800.10-800.19, 800.20-800.29, 800.30-800.39, 800.40-800.49, 801.10-801.19, 801.20-801.29, 801.30-801.39, 801.40-801.49, 850, 851.0-851.9, 852.01, 852.20-852.30, 852.41 and 853.01 | Traumatic brain injury | (11, 17, 41, 43) |
| 518.5, 518.8296.70, 96.71, 96.72 | Pulmonary insufficiency following trauma and surgery, acute respiratory distress syndrome, continuous mechanical ventilation | (32, 42) |
| 0.38, 112.5,785.52, 995.91, 995.92 | Severe sepsis and septic shock | (5, 27) |
| 458.0, 458.8, 458.9, 796.3, 785.51, 785.59 | Cardiovascular dysfunction, hypotension, shock | (27) |
| 286.2, 286.6, 286.9, 287.3-5 | Hematological dysfunction, disseminated intravascular coagulation, purpura fulminans, coagulopathy, thrombocytopenia  | (27) |
| 570, 572.2, 573.3 | Hepatic dysfunction, acute hepatic failure, hepatic encephalopathy, hepatitis  | (27) |
| 584, 580, 585, 39.95 | Renal dysfunction, acute renal failure, acute glomerulonephritis, renal shutdown, hemodialysis | (27) |
| 293, 348.1, 348.3, 780.01, 780.09, 89.14  | Neurological dysfunction, transient organic psychosis, anoxic brain injury, encephalopathy, coma. altered consciousness, electroencephalography | (27) |
| 428.0-428.9401 249, 250491, 492, 496 571.0585, 586196, 199  | Comorbidities (Charlson)Congestive heart failure HypertensionDiabetes mellitusCOPDChronic liver failureChronic kidney diseaseCancer | (13, 27, 30) |