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| **Variables** | **Variable Explanation** | **Categorization Rules** |
| **Serum Albumin** | Avg Serum Albumin (g/dl) | null = ‘Missing’ <=1.5>1.5 and <=3.5>3.5 and <=4.0>4.0 and <=4.5>4.5 and <=5.0>5.0 and <=100 |
| **Lactate** | Avg blood lactate (mmol/L) | null = ‘Missing’<=0.5>0.5 and <=1.0>1.0 and <=2.0>2.0 and <=4.0>4.0 and <=50 |
| **pH** | Avg pH, Arterial blood gas | null = ‘Missing’<=7.35>7.35 and <=7.40>7.40 and <=7.45>7.45 and <=8.00 |
| **PaCO2** | Avg PaCO2, Arterial blood gas (mmHg) | null = ‘Missing’<=25>25 and <=35>35 and <=45>45 and <=60>60 and <=75>75 and <=200 |
| **ICU admission source** | ICU admission source | Floor/Step Down Unit: 'Acute Care/Floor', 'Floor', 'Step-Down Unit (SDU)', 'Other' ER/Observation:'Chest Pain Center', 'Emergency Department', 'Observation'OR:  'Operating Room', 'PACU', 'Recovery Room'Direct Admit: 'Direct Admit' Otherwise, use as entered in system |

Supplemental Table 1. Criteria for categorizing variables