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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