**Supplemental Digital Content 4** - Laboratory Value Reference Ranges

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| **Laboratory Value** | **Critical Low** | **Low** | **Medium** | **High** | **Critical High** |
| Serum creatinine, mg/dL | N/A | Female: <0.5  Male: <0.7 | Female: 0.5 – 1.0  Male: 0.7 – 1.3 | Female: 1.1-2.0  Male: 1.3-2.0 | Female: >2.0  Male: >2.0 |
| Serum glucose, mg/dL | <40 | 40-69 | 70-180 | >180 | N/A |
| Serum potassium, mmol/L | N/A | <3.5 | 3.5 – 5.0 | 5.1-6.0 | >6.0 |
| Serum sodium, mmol/L | N/A | <136 | 136 - 146 | 147-155 | >155 |
| White blood cell count, 109/L | N/A | <4 | 4 - 10 | 11-20 | >20 |
| Hematocrit, % | <21 | Female: 21-35  Male: 21-39 | Female: 36 - 48  Male: 40 - 50 | Female: >48  Male: >50 | N/A |
| Hemoglobin, g/dL | <7.0 | Female: 7.0-11.9  Male: 7.0-13.4 | Female: 12.0 - 16.0  Male: 13.5 - 17.0 | Female: >16.0  Male: >17.0 | N/A |
| Platelet count, 109/L | <50 | 50-149 | 150 – 400 | >400 | N/A |
| International normalized ratio (INR) | N/A | <0.9 | 0.9 – 1.2 | 1.3-2.0 | >2.0 |
| Lactate, mmol/L | N/A | Arterial: <0.5  Venous: <0.5 | Arterial: 0.5 -1.6  Venous: 0.5 - 2.2 | Arterial: 1.7-4.0  Venous: 2.3-4.0 | Arterial: >4.0  Venous: >4.0 |