Table S1. Variables evaluated for inclusion in ICU Discharge Readiness Score models.

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| Admission Characteristics: |
| ICU Visit number |
| Age |
| ICU Length of Stay*a* |
| Hospital Length of Stay*a* |
| Admission Source |
| Admission Diagnosis*b* |
| Operative Admission Diagnosis*c* |
| Elective Surgical Admission Diagnosis*c* |
| APACHE IV Score |
| Body Mass Index (BMI) |
| Ward type |
| Gender |
| ICU Interventions: |
| Time since central line removal |
| Airway status |
| Ventilation status |
| Time since continuous infusion |
| Time since ventilation |
| Lactate count*d*  |
| Hemoglobin count*d*  |
| FiO2 worst*e* |
| Last day laboratory values: |
| Anion Gap (maximum) |
| Serum Creatinine (maximum) |
| White Blood Cell Count (average) |
| Serum Bicarbonate (average) |
| Hemoglobin (average) |
| Hemoglobin (minimum) |
| Hemoglobin (coefficient of variation) |
| Bilirubin (average) |
| Serum Lactate*f*  |
| Blood Glucose (average) |
| Blood Glucose (coefficient of variation) |
| Blood Glucose (maximum) |
| Hypoglycemia |
| Serum Sodium (average) |
| pH (average)*g* |
| Serum Potassium (average) |
| Serum Potassium (minimum) |
| Last day physiology:  |
| Respiratory Rate (average) |
| Respiratory Rate (maximum) |
| Respiratory Rate (minimum) |
| Respiratory Rate (coefficient of variation) |
| SpO2 (minimum) |
| SpO2 (average) |
| SpO2 (coefficient of variation) |
| Most recent GCS |
| Change in GCS over last 24 hours |
| Heart Rate (average) |
| Heart Rate (minimum) |
| Heart Rate (maximum) |
| Heart Rate (coefficient of variation) |
| Systolic Blood Pressure (average) |
| Systolic Blood Pressure (minimum) |
| Systolic Blood Pressure (maximum) |
| Systolic Blood Pressure (coefficient of variation) |
| Diastolic Blood Pressure (average) |
| Diastolic Blood Pressure (minimum) |
| Diastolic Blood Pressure (maximum) |
| Diastolic Blood Pressure (coefficient of variation) |
| Temperature (average) |

*a.* ICU and Hospital length of stay capped at 30 days. *b*. Missing classified as “Other”. *c*. Missing classified as “False”. *d*. Number of lab draws in the preceding 24 hours. *e*. Considered equal to room air (21%) if missing. *f*. Considered 0 if missing. *g*. Considered normal if missing.

APACHE = Acute Physiology and Chronic Health Evaluation; FiO2 = fraction of inspired oxygen; SpO2 = Percent Oxygen Saturation.