**Supplemental Table 2: Summary of Algorithm Features Utilized to Derive Prediction**

ABORh Blood Typing International Normalization Ratio

Absolute Basophil Count Magnesium Level

Absolute Eosinophil Marital Status

Absolute Lymphocyte Count\* Mean Cell Volume

Absolute Monocyte Count\* Oxygen Saturation (%)

Absolute Neutrophil Count\* Partial Thromboplastin Time

Age Phosphorus Level

Alanine Aminotransferase Platelets\*

Albumin Level Potassium Level

Alkaline Phosphatase Prothrombin Time

Anion Gap\* Race

Arterial Blood Gases Red Blood Cell Count

Aspartate Aminotransferase Red Blood Cell Morphology

Blood Pressure, Noninvasive, Diastolic\* Red Cell Distribution Width

Blood Pressure, Noninvasive, Systolic\* Respiration Rate\*

Bilirubin Direct Richmond Agitation-Sedation Scale

Bilirubin Indirect Sodium Level

Bilirubin Total Temperature (degrees Fahrenheit)\*

Blood Urea Nitrogen\* Urinalysis Parameters, including:

Calcium Level Total Urine Appearance

Carbon Dioxide Urine Bacteria

Chloride Urine Blood

Creatinine\* Urine Glucose

Department Urine Ketones

Fraction of Inspired Oxygen (%) Urine Leukocyte Esterase

Gender Urine Nitrite

Glucose Level Urine pH

Heart Rate\* Urine Red Blood Cells

Height and Weight Urine Specific Gravity

Hematocrit Urine White Blood Cells

Hemoglobin Venous Blood Gases

Hospital Location White Blood Cell Count\*

Hospital Service

\*Feature also represented using various time derivations such as maximum value, minimum value, mean, and rate of change over prior 24 hours