**Validation of ICD-9-CM/ICD-10-CM Codes for Automated Electronic Scoring of**

**APACHE II, APACHE III, and SAPS II Patient Data Collection Form**

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| **Patient Demographics** | | |
| **Age** | \_\_\_\_\_\_\_\_ years | |
| **Gender** | Male | Female |
| **Weight** | \_\_\_\_\_\_\_\_ kg | |
| **Race** | African-American Asian Hawaiian/Pacific Islander  Native American Other Unknown White/Caucasian | |
| **Type of admission** | \_\_\_\_\_\_\_\_ Scheduled surgical (at least 24 hours in advance)  \_\_\_\_\_\_\_\_ Medical (without surgical procedures within 7 days of ICU admission)  \_\_\_\_\_\_\_\_ Unscheduled surgical (added to OR schedule within 24 hours of the operation) | |
| **ICU length of stay** | \_\_\_\_\_\_\_\_ days | |
| **Discharge disposition** | Living | Deceased |

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| **Laboratory** | **Minimum Value** | | **Maximum Value** | |  |
| **Sodium** | | \_\_\_\_\_\_\_\_ mEq/L | | \_\_\_\_\_\_\_\_ mEq/L |  |
| **Potassium** | | \_\_\_\_\_\_\_\_ mEq/L | | \_\_\_\_\_\_\_\_ mEq/L |  |
| **Bicarbonate** | | \_\_\_\_\_\_\_\_ mEq/L | | \_\_\_\_\_\_\_\_ mEq/L |  |
| **Creatinine** | | \_\_\_\_\_\_\_\_ mg/dl | | \_\_\_\_\_\_\_\_ mg/dl |  |
| **BUN** | | \_\_\_\_\_\_\_\_ mg/dL | | \_\_\_\_\_\_\_\_ mg/dL |  |
| **Glucose** | | \_\_\_\_\_\_\_\_ mg/dl | | \_\_\_\_\_\_\_\_ mg/dl |  |
| **Albumin** | | \_\_\_\_\_\_\_\_ g/dl | | \_\_\_\_\_\_\_\_ g/dl |  |
| **Bilirubin** | | \_\_\_\_\_\_\_\_ mg/dl | | \_\_\_\_\_\_\_\_ mg/dl |  |
| **Arterial pH** | | \_\_\_\_\_\_\_\_ | | \_\_\_\_\_\_\_\_ |  |
| **PaCO2** | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg |  |
| **PaO2** | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg |  |
| **VO2 Saturation** | | \_\_\_\_\_\_\_\_ | | \_\_\_\_\_\_\_\_ |  |
| **VpO2** | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg |  |
| **VpCO2** | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg |  |
| **Venous pH** | | \_\_\_\_\_\_\_\_ | | \_\_\_\_\_\_\_\_ |  |
| **Venous bicarbonate** | | \_\_\_\_\_\_\_\_ mEq/L | | \_\_\_\_\_\_\_\_ mEq/L |  |
| **WBC** | | \_\_\_\_\_\_\_\_ x 109/L | | \_\_\_\_\_\_\_\_ x 109/L |  |
| **Hematocrit** | | \_\_\_\_\_\_\_\_ % | | \_\_\_\_\_\_\_\_ % |  |

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| **Vital Signs** | **Minimum Value** | | **Maximum Value** | |  |
| **Temperature** | | | \_\_\_\_\_\_\_\_ C | | \_\_\_\_\_\_\_\_ C | |
| **Heart rate** | | | \_\_\_\_\_\_\_\_ bpm | | \_\_\_\_\_\_\_\_ bpm | |
| **Respiratory rate** | | | \_\_\_\_\_\_\_\_ bpm | | \_\_\_\_\_\_\_\_ bpm | |
| **Mechanical ventilation or CPAP** | | | Yes No | | Yes No | |
| **FiO2** | | | \_\_\_\_\_\_\_\_ % | | \_\_\_\_\_\_\_\_ % | |
| **Systolic blood pressure** | | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg | |
| **Diastolic blood pressure** | | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg | |
| **Mean arterial pressure** | | | \_\_\_\_\_\_\_\_ mmHg | | \_\_\_\_\_\_\_\_ mmHg | |

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| **Critical Care View** | |
| **Glasgow coma score eye** | \_\_\_\_\_\_\_\_ Normal response  \_\_\_\_\_\_\_\_ Response to Voice  \_\_\_\_\_\_\_\_ Response to Pain  \_\_\_\_\_\_\_\_ No Response |
| **Glasgow coma score verbal** | \_\_\_\_\_\_\_\_ Oriented  \_\_\_\_\_\_\_\_ Confused  \_\_\_\_\_\_\_\_ Inappropriate words  \_\_\_\_\_\_\_\_ Incomprehensible speech  \_\_\_\_\_\_\_\_ No response |
| **Glasgow coma score motor** | \_\_\_\_\_\_\_\_ Obey commands  \_\_\_\_\_\_\_\_ Localize pain  \_\_\_\_\_\_\_\_ Flexion withdrawal  \_\_\_\_\_\_\_\_ Flexion abnormal  \_\_\_\_\_\_\_\_ Extension  \_\_\_\_\_\_\_\_ No response |
| **Glasgow coma score (lowest)** | \_\_\_\_\_\_\_\_ |
| **Urine output (total in 1st 24 hours)** | \_\_\_\_\_\_\_\_ cc/day |
| **Cardiac arrest (within 1st 24 hours)** | Yes No |

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| **DRG** | **ICD-9-CM/ICD-10-CM** | **Comorbidities (in the H&P or first ICUprogress note)** | |
|  |  | **Liver** | \_\_\_\_\_\_\_\_ Cirrhosis  \_\_\_\_\_\_\_\_ Upper GI bleeding  \_\_\_\_\_\_\_\_ Hepatic failure  \_\_\_\_\_\_\_\_ Encephalopathy  \_\_\_\_\_\_\_\_ Coma |
|  |  | **Cardiovascular** | \_\_\_\_\_\_\_\_ Heart failure |
|  |  | **Respiratory** | \_\_\_\_\_\_\_\_ Chronic restrictive, obstructive, or vascular disease  \_\_\_\_\_\_\_\_ Chronic hypoxia  \_\_\_\_\_\_\_\_ Hypercapnia  \_\_\_\_\_\_\_\_ Secondary polycythemia  \_\_\_\_\_\_\_\_ Pulmonary hypertension  \_\_\_\_\_\_\_\_ Respiratory dependency |
|  |  | **Renal** | \_\_\_\_\_\_\_\_ Acute renal failure  \_\_\_\_\_\_\_\_ Receiving chronic dialysis |
|  |  | **Immunocompromised** | \_\_\_\_\_\_\_\_ Metastatic cancer  \_\_\_\_\_\_\_\_ Immunosuppression  \_\_\_\_\_\_\_\_ Chemotherapy  \_\_\_\_\_\_\_\_ Radiation  \_\_\_\_\_\_\_\_ Long-term or high-dose steroids  \_\_\_\_\_\_\_\_ Leukemia  \_\_\_\_\_\_\_\_ Multiple myeloma  \_\_\_\_\_\_\_\_ Lymphoma  \_\_\_\_\_\_\_\_ AIDS |