|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Description** | **Type** | **Value Range** |
| EncounterID | hospitalization id |  |  |
| PatientID | Patient ID |  |  |
| time | time |  |  |
| **Demographics** |  |  |  |
| AgeInYears | Age | Numeric |  |
| GenderCode | Sex. See categorical values below. | Categorical | [‘F’,’M’] |
| F | Female |  |  |
| M | Male |  |  |
| height | Height | Numeric | In cm |
| weight | Weight | Numeric | In kg |
|  |  |  |  |
| **Vital signs** |  |  |  |
| temp | Temperature | Numeric | Convert temp in Celsius (i.e. 24 to 46) to Fahrenheit(75 to 115) |
| hr | Heart rate | Integer | [0,250] |
| rr | Respiratory rate | Integer | [0,80] |
| sbp | Systolic blood pressure | Integer | [0,300] |
| dbp | Diastolic blood pressure | Integer | [0,200] |
| gcs | Glasgow Coma Scale | Integer | [3,15] |
| rass | Richmond Agitation Sedation Scale | Integer | [-4,4] |
| shock\_indx | Shock Index (= hr/sbp) | Numeric |  |
| spo2 | Pulse oximetry | Numeric | [0,100] |
|  |  |  |  |
| **Respiratory Data** |  |  |  |
| fi02 | Fraction of inspired oxygen | Integer | [21,100] |
| pf | ( = Pa02/Fi02) (carry forward most recent fi02 to calculate so long as respiratory support device remains the same) | Numeric | [40,700] |
| sf | Calculated using SpO2 and FiO2 based on XX et al | Numeric |  |
| peep | Positive end-expiratory pressure | Integer | [0,40] |
| plat | Plateau pressure | Numeric | [5,50] |
| mairp | Mean Airway Pressure | Numeric | [5,90] |
| ve | Minute ventilation | Numeric | [2.5,60] |
| o2flow\_rate | Oxygen flow rate | Numeric | [0,60] |
| Vte | Exhaled tidal volume | Numeric |  |
| Vtset | Set Tidal Volume | Numeric | [150,1000000000] |
| oi | Oxygenation Index  ( = FiO2\*MairP/PaO2)  (should carry forward fi02 and mairp to calculate) | Numeric | [0.1,100] |
| Compliance | Lung Compliance  ( = Vte/(plat - peep) ) | Numeric | [0,200] |
| VR | Ventilatory Ratio,  see Pratik et al | Numeric | [0.4,10] |
| support | support has 9 unique categorical values. See categorical values of “support” below | Categorical | [‘hfnc’,’invasive’,  ’noninvasive’,’ra’,  ’supl\_mask’,’supl\_nc’,  ‘supl\_nrb’,’supl\_trach’,  ‘unknown’] |
| hfnc | Heated High Flow Nasal Cannula |  |  |
| invasive | Invasive Mechanical Ventilation |  |  |
| noninvasive | Noninvasive Mechanical Ventilation |  |  |
| ra | Room Air |  |  |
| supl\_mask | Supplemental Oxygen by Face Mask |  |  |
| supl\_nc | Supplemental Oxygen by Nasal Cannula |  |  |
| supl\_nrb | Supplemental Oxygen by Non-rebreather |  |  |
| supl\_trach | Supplemental Oxygen by Tracheostomy Mask |  |  |
| unknown | Respiratory Support Not Documented |  |  |
|  |  |  |  |
| **Labs** |  |  |  |
| lactate | Lactate | Numeric | [0-30] |
| ph | pH | Numeric | [6.5-8] |
| paco2 | Partial pressure of carbon dioxide | Numeric | [5,200] |
| pao2 | Partial pressure of oxygen | Numeric | [5-700] |
| na | sodium | Numeric | [80-200] |
| k | potassium | Numeric | [1,10] |
| hco2 | Bicarbonate level | Numeric | [5-50] |
| bun | Blood urea nitrogen | Numeric | [0-300] |
| cr | Creatinine | Numeric | [0,20] |
| alb | Albumin level | Numeric | [0-8] |
| tp | Total protein | Numeric |  |
| tbili | Total bilirubin | Numeric | [0,50] |
| ast | Aspartate aminotransferase | Numeric | [0,10000] |
| hgb | Hemoglobin | Numeric | [2,20] |
| wbc | White blood cell count | Numeric | [0,100] |
| plt | platelet | Numeric | [0,1000] |
| inr | International normalized ratio | Numeric | [0,30] |
| ptt | Partial thromboplastin time | Numeric | [0,200] |
| bnp | Brain natriuretic peptide | Numeric | [0,1000] |
| trop | Troponin | Numeric | [0,50] |
| procalcitonin | Procalcitonin | Numeric |  |
| d-dimer | D-dimer | Numeric | [0-50] |