**ICP Data – Datasheets and Pre-processing**

1. apacheP.csv

Has 5 columns.

‘patientunitstayid’ – Primary Key

‘admitdiagnosis’ – Primary Diagnosis

‘apachescore’ – Severity of Illness score calculated at admission

‘actualicumortality’ – Primary Outcome

‘actualhospitalmortality’ – Alternate Primary Outcome

Pre-processing required: Change in values for ‘apachescore’ < 1 to NA. Do not delete the rows with NA and do not impute.

1. diagP.csv

Has 5 columns.

‘patientunitstayid’ – Primary Key

‘activeupondischarge’ – Boolean

‘diagnosisstring’ – Describes the diagnosis.

‘icd9code’ – Ignore for this analysis.

‘diagnosispriority’ – Categorizes the ‘diagnosisstring’ into Primary, Major and Other.

Pre-processing required: Delete ‘icd9code’ column. Delete rows with ‘activeupondischarge’ = FALSE. Select only rows that have ‘diagnosispriority’ = Primary or Major. Needs further pre-processing to reduce it to just 1 row for each ‘patientunitstayid’. We can do this when we look at the data together.

1. examP.csv

Has 5 columns.

‘patientunitstayid’ – Primary Key

‘physicalexamoffset’ – Time in minutes from admission to the ICU. Used to develop the Secondary Key

‘physicalexampath’ – Describes the data element tested. Used to select the rows we need from this datasheet.

‘physicalexamvalue’ – Ignore for this analysis.

‘physicalexamtext’ – Gives the value for the data element in ‘physicalexampath’.

Pre-processing required: Delete rows with ‘physicalexamoffset’ < 0. Create a new column labeled ‘Time’. ‘Time’ will be the Secondary Key. ‘Time’ = ‘physicalexamoffset’ / 60

Select only rows for which ‘physicalexampath’ has one of the following data elements.

* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Vital Sign and Physiological Data/FiO2%/FiO2%
* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Vital Sign and Physiological Data/O2 Sat%/O2 Sat% Current
* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Vital Sign and Physiological Data/PEEP/PEEP
* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Vital Sign and Physiological Data/Resp Mode/spontaneous
* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Vital Sign and Physiological Data/Resp Mode/ventilated
* notes/Progress Notes/Physical Exam/Physical Exam/Constitutional/Weight and I&O/Weight (kg)/Admission
* notes/Progress Notes/Physical Exam/Physical Exam/Head and Neck/Eyes/Pupils/(reaction)/both do not react to light
* notes/Progress Notes/Physical Exam/Physical Exam/Head and Neck/Eyes/Pupils/(reaction)/react to light
* notes/Progress Notes/Physical Exam/Physical Exam/Head and Neck/Eyes/Pupils/(symmetry)/equal
* notes/Progress Notes/Physical Exam/Physical Exam/Head and Neck/Eyes/Pupils/(symmetry)/unequal R>L
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Cranial Nerves/abnormal
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Cranial Nerves/normal
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/10
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/11
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/12
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/13
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/3
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/4
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/5
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/6
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/7
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/8
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/9
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Eyes Score/1
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Eyes Score/2
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Eyes Score/3
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Eyes Score/4
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Affect/calm/appropriate
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Affect/withdrawn
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Level of Consciousness/comatose
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Level of Consciousness/normal LOC
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Level of Consciousness/obtunded
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Level of Consciousness/sedated
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Level of Consciousness/somnolent
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Mental Status/Orientation/unable to assess orientation
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/1
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/2
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/3
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/4
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/5
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Motor Score/6
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Score/estimated due to meds
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Score/scored
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Score/unable to score due to meds
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Verbal Score/1
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Verbal Score/2
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Verbal Score/3
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Verbal Score/4
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/GCS/Verbal Score/5
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Motor/decreased strength
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Reflexes/Abnormal Reflex/diffusely
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Reflexes/decreased
* notes/Progress Notes/Physical Exam/Physical Exam/Neurologic/Sensation/no response to pain
* notes/Progress Notes/Physical Exam/Physical Exam/Pulmonary/Airway/intubated
* notes/Progress Notes/Physical Exam/Physical Exam/Pulmonary/Airway/tracheostomy

Needs further pre-processing to organize the ‘physicalexampath’ into fewer elements. We can do this when we look at the data together.

1. infsP.csv

Has 4 columns.

‘patientunitstayid’ – Primary Key

‘infusionoffset’ – Time in minutes from admission to the ICU. Used to develop the Secondary Key

‘drugname’ – Gives the drug name and units of measurement.

‘drugrate’ – Gives the value for drug dose.

Pre-processing required: Delete rows with ‘infusionoffset’ < 0. Create a new column labeled ‘Time’. ‘Time’ will be the Secondary Key. ‘Time’ = ‘infusionoffset’ / 60

1. InOutP.csv
2. labs.csv

Select rows with ‘labname’ = one of the following:

albumin, ALT (SGPT), AST (SGOT), bedside glucose, BUN, creatinine, direct bilirubin, fibrinogen, FiO2, glucose, Hct, Hgb, ionized calcium, lactate, O2 sat (%), paCO2, paO2, Peak Airway/Pressure, PEEP, pH, platelets x 1000, PT – INR, Respiratory Rate, sodium, Spontaneous Rate, Vent Rate