**Data Source: MIMIC III**

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**Table Used:**

ADMISSIONS, CHARTEVENTS, CPTEVENTS, D\_ITEMS, D\_LABITEMS, DIAGNOSES\_ICD, D\_ICD\_DIAGNOSES, INPUTEVENTS\_MV

**Query:**

SELECT patients.subject\_id, patients.gender, patients.expire\_flag, admissions.diagnosis, chartevents.itemid, chartevents.value, chartevents.valuenum, cptevents.cpt\_cd, d\_items.label AS item, d\_labitems.label AS lab\_item, d\_labitems.fluid AS lab\_fluid, d\_labitems.category AS lab\_category, diagnoses\_icd.icd9\_code, d\_icd\_diagnoses.short\_title

FROM patients

INNER JOIN admissions ON patients.subject\_id = admissions.subject\_id

INNER JOIN chartevents ON patients.subject\_id = chartevents.subject\_id

LEFT JOIN d\_items ON chartevents.itemid = d\_items.itemid

LEFT JOIN d\_labitems ON chartevents.itemid = d\_labitems.itemid

INNER JOIN cptevents ON patients.subject\_id = cptevents.subject\_id

INNER JOIN diagnoses\_icd ON patients.subject\_id = diagnoses\_icd.subject\_id

INNER JOIN d\_icd\_diagnoses ON diagnoses\_icd.icd9\_code = d\_icd\_diagnoses.icd9\_code

INNER JOIN inputevents\_mv ON patients.subject\_id = inputevents\_mv.subject\_id

WHERE cptevents.costcenter = 'ICU'

**Notes:**

\* For confidential purposes, all dates are shifted. Since I death time analysis is not included in this project, I didn’t include date of birth/admission/death.

\* Since DRG code is mainly for billing purposes, this project only uses ICD code in analysis and does not include DRG code.

\* There are different data sources related to patients. For example, the input events come from CareVue ICU database (17,527,935 records) and MetaVision ICU database (3,618,991 records). The latter contains more information, so it is chosen for this project (INPUTEVENTS\_MV table).