**Data Source: MIMIC III**

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**Table Used:**

ADMISSIONS, CHARTEVENTS, CPTEVENTS, D\_ITEMS, D\_LABITEMS, DIAGNOSES\_ICD, D\_ICD\_DIAGNOSES, PRESCRIPTIONS, SERVICES

**Query:**

SELECT patients.subject\_id, patients.gender, patients.expire\_flag, admissions.diagnosis, chartevents.itemid, chartevents.value, chartevents.valuenum, 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, prescriptions.drug

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

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

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

WHERE cptevents.costcenter = 'ICU' AND services.curr\_service = 'SURG'

**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.