**SQL – MIMIC Code**

**To Search ICD\_9 Codes:**

1. First just google icd9\_code for specific disease; Example – Cardiac arrest = 427.5 (this can be complicated because some diseases have multiple codes and not all are well validated);
   1. Note: mimic database assumes that the decimal is in between third or fourth positions)
2. We can initially find population of interest, by querying the diagnoses\_icd9 table

SELECT \* FROM mimiciii.diagnoses\_icd  
WHERE icd9\_code = '4275';

1. In postgres server, the following d\_icd\_diagnoses table provides the definition of the diagnosis code, so that we can be sure it indicates cardiac arrest

SELECT \* FROM mimiciii.d\_icd\_diagnoses

WHERE icd9\_code = '4275';

According to MIMC the following unit abbreviations are as follows: A screenshot of a cell phone

Description automatically generated

To find patients within the CCU:

SELECT \* FROM mimiciii.icustays  
WHERE first\_careunit = 'CCU';

Tying all together, we want to find patients with cardiac arrests admitted to at the beginning or end of their ICU Stay:

SELECT \*

FROM mimiciii.diagnoses\_icd

INNER JOIN mimiciii.icustays

ON diagnoses\_icd.subject\_id = icustays.subject\_id

WHERE icd9\_code = '4275'

AND (first\_careunit = 'CCU' or last\_careunit = 'CCU');