**OVeRSepsis Telephone Cohort Building SOP**

**Step 1. Pull inpatient data from CDW (SAS code)**

Code location (file name): P:\Codes\Shirley Codes\Pull Data SQL Codes\Final codes to run

* File name: Step1\_OSinpatient\_cdwpull.sas

*Description to determine pull date ranges*: Pull all patients that were admitted from national VA facilities. Example, if pull date (today) is 11/9/21, want patients who were discharged in the previous 16 – 2 days prior to pull date. So discharge dates are between 10/24/21-11/7/21.

Hospital length of stay (LOS) for OverSepsis wanted is between 3-42 days, so count 42 days back from 10/24/21 (because it’s the earliest between the 2 discharge dates: 10/24/21 vs. 11/7/21).

Dates are formulated automatically from today’s pull date so no need to change anything:

declare @currentdate date=getdate();

declare @startdate2 date=getdate()-**58**; /\*16+42=58\*/

declare @enddate2 date=getdate()-**5**; /\*2+3=5\*/

TO DO: Select entire program and hit run, no need to change anything

The output VAPD datasets will be saved in folder: /data/dart/2021/Data/inpatient

Once the SAS dataset is saved as sepsis.OS\_cohort\_&todaysdate, same dataset is uploaded into CDW space as dflt.OS\_cohort\_yyyymmdd

TO CHECK: that all the datasets: 1) sepsis.OS\_cohort\_&todaysdate 2) dflt.OS\_cohort\_yyyymmdd are there

**Step 2. Run the SAS code to collapse data pulled from Step 1 into a VA to VA VAPD (SAS code)**

Code location (file name): P:\Codes\Shirley Codes\Pull Data SQL Codes\Final codes to run

* File name: Step2\_VAtoVAVAPD.sas

This SAS code will collapse the data pulled in from step 1 into a VA to VA VAPD dataset with new\_admitdate3 and new\_dischargedate3 fields.

TO DO: Select all code and hit run.

The output VAPD datasets will be saved in folder: /data/dart/2021/Data/inpatient

To CHECK: Output dataset is called sepsis.VAtoVA\_daily\_yyyymmdd (this daily dataset includes day 0s).

**Step 3. Use SAS Pass Thru to pull in additional data needed from CDW to determine Sepsis patients (SAS code)**

Code location (file name): P:\Codes\Shirley Codes\Pull Data SQL Codes\Final codes to run

* File name: Step3\_SASPT\_pullsepsisdata.sas

This is the SAS Pass Thru code to pull in additional data components from CDW for further data management to identify sepsis telephone cohort from Step 2.

Using: declare @currentdate date=getdate()

declare @startdate2 date=getdate()-**60 /\*need the 24hr prior to ED arrival data, so extended from -58 to -60\*/**

Data components to pull:

* BMCA ABX meds: /data/dart/2021/Data/meds
  + BCMA\_ABX&todaysdate
* Pressor meds: /data/dart/2021/Data/meds
  + BCMA\_Pressor&todaysdate
* EDIS arrival time: /data/dart/2021/Data/EDIS
  + Edis\_arrivaltime&todaysdate
* Vitals (respiration, pulse, temperature): /data/dart/2021/Data/vitals
  + temperature&todaysdate
  + pulse&todaysdate
  + RESPIRATION&todaysdate
* Labs (WBC, Platelet, Lactate, Creatinine, Bilirubin): /data/dart/2021/Data/labs
  + labs.labs&todaysdate
    - this is one dataset that contains all 5 types of labs, which can be filtered by LabGroup
* Mechanical Ventilation (procedure codes): /data/dart/2021/Data/procedures
  + proc\_mechvent&todaysdate
* PulseOX: /data/dart/2021/Data/pulse ox
  + pulseox&todaysdate

TO DO: Select all code and hit run.

TO CHECK: that all the datasets are there in their folders with today’s date

**Step 4. Clean the datasets pulled from Step 3 (SAS Code)**

Code location (file name): P:\Codes\Shirley Codes\Pull Data SQL Codes\Final codes to run

* File name: Step4\_datacleaning.sas

Data components to clean:

* EDIS arrival time: /data/dart/2021/Data/EDIS
  + Edis\_Clean&todaysdate
* Vitals (respiration, pulse, temperature): /data/dart/2021/Data/vitals
  + TEMPERATURE\_Clean&todaysdate
  + Pulse\_Clean&todaysdate
  + RESPIRATION\_Clean&todaysdate
* Mechanical Ventilation (procedure codes): /data/dart/2021/Data/procedures
  + MechVent\_Clean&todaysdate
* Labs (WBC, Platelet, Lactate, Creatinine, Bilirubin): /data/dart/2021/Data/labs
  + bilirubin\_Clean&todaysdate
  + Creatinine\_Clean&todaysdate
  + Platelets\_Clean&todaysdate
  + LACTATE\_Clean&todaysdate
  + WBC\_Clean&todaysdate
* BMCA ABX meds: /data/dart/2021/Data/meds
  + BCMA\_ABXClean&todaysdate
* Pressor meds: /data/dart/2021/Data/meds
  + BCMA\_PressorClean&todaysdate
* PulseOX: /data/dart/2021/Data/pulse ox
  + Pulseox\_clean&todaysdate

TO DO: Select all code and hit run.

TO CHECK: that all the datasets are there in their folders with today’s date

**Step 5. Identify Sepsis Telephone Cohort**

Code location (file name): P:\Codes\Shirley Codes\Pull Data SQL Codes\Final codes to run

* File name: Step5\_ID\_SepsisPatients.sas
  + **Data management to merge the datasets from Step 4 to Step 2 in order to identify Sepsis patients**
    - Dataset location: /data/dart/2021/Data/Telephone Cohort
    - Dataset name: sepsis\_hosps&todaysdate

TO DO: Select all code and hit run.

TO CHECK: that all the datasets are there in their folders with today’s date