---------------------------------------------------

--BY : Fatemeh Torabi

--DT : 2019-Mar-01

--schema: 0866

---------------------------------------------------

--STUDY SPECIFICATIONS:

--START\_DT : 01-01-2000

--END\_DT : 01-01-2018

--AGE : 18+

--GNDER : 1,2

----------------------------------------------------

--MASTER TABLES OF CONDITIONS

----------------------------------------------------

--WLGP DATASET:

--------------------------------------------

--AF : SAILW0594V.GP\_AF\_20170905

--AC AND AP : SAILW0594V.GP\_AC\_AP\_20170905

--CHAD(expect DIAB) : "SAILW0594V"."GP\_CHAD\_20170905"

--DIAB : "SAILW0594V"."GP\_DIAB\_20170905"

--HASBLED DRUGS : "SAILW0594V"."GP\_DRUG\_HASBLED\_20170905"

--INR : "SAILW0594V"."GP\_INR\_20170905"

--RENAL & LIVER : "SAILW0594V"."GP\_RENAL\_LIVER\_20170905"

-- PEDW DATASET:

-- A TABLE CONTAINING CHADS AND HASBLED CONDITONS EXCEPT(MIs) : SAILW0594V.PEDW\_CHAD\_HAS\_20170906

----------------------------------------------

--AF IN WLGP:

----------------------------------------------

--CODE UPDATED

**CREATE** **TABLE** SAILW0866V.GP\_AF\_20170905 **AS**(

--INSERT INTO SAILW0866V.GP\_AF\_20170905 ---257,412

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD, CD.PREF\_TERM\_30,CD.READ\_TYPE,

GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,GP.ALF\_MTCH\_PCT

--CD.READ\_CODE

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0866V"."CD\_READ\_20170814"

**WHERE** READ\_TYPE='AF'

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

**COMMIT**;

--CHECK:

**SELECT** \* **FROM** "SAILW0866V"."GP\_AF\_20170905"

**SELECT** **COUNT**(**DISTINCT** ALF\_PE) **FROM** "SAILW0866V"."GP\_AF\_20170905"--129,518

-------------------------------------------------

--AC OR AP PRESCRIPTION FROM WLGP:

-------------------------------------------------

--CODE UPDATED

**ALTER TABLE** SAILW0866V.GP\_AC\_AP\_20170905 activate **not** logged **initially**

**COMMIT**;

**CREATE** **TABLE** SAILW0866V.GP\_AC\_AP\_20170905 **AS**(

--INSERT INTO SAILW0866V.GP\_AC\_AP\_20170905 ---37,605,610

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD,CD.PREF\_TERM\_30, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

GP.ALF\_MTCH\_PCT,CD.READ\_CODE, CD.READ\_TYPE,CD.READ\_CAT,CD.DRUG\_CAT

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0866V"."CD\_DRUG\_AC\_AP\_20170814"

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

--FETCH FIRST 2 ROWS ONLY

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

**COMMIT**;

--------------------------------------------------

--HASBLEAD MEDICATION

--------------------------------------------------

--CODE UPDATED

**ALTER TABLE** SAILW0866V.GP\_DRUG\_HASBLED\_20170905 activate **not** logged **initially**

**COMMIT**;

**CREATE** **TABLE** SAILW0866V.GP\_DRUG\_HASBLED\_20170905 **AS** (

--INSERT INTO SAILW0866V.GP\_DRUG\_HASBLED\_20170905 ---16,648,323

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD,CD.PREF\_TERM\_30, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

GP.ALF\_MTCH\_PCT,CD.READ\_CODE, CD.READ\_TYPE,CD.READ\_CAT

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0866V"."CD\_DRUG\_HASBLED\_20170814"

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

**COMMIT**;

--------------------------------------------------

--CHADSVASC: CONG-HEARTH FAILURE/Hypertension/Stroke.TIA.Thrombo / Vascular (diabetes part uses another separate code lists)

--------------------------------------------------

**ALTER** **table** SAILW0866V.GP\_CHAD\_20170905 activate **not** logged **initially**

**COMMIT**

**CREATE** **TABLE** SAILW0866V.GP\_CHAD\_20170905 **AS** (

--INSERT INTO SAILW0866V.GP\_CHAD\_20170905 ---1,773,160

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, CD.PREF\_TERM\_30, GP.EVENT\_CD,GP.EVENT\_VAL, GP.ALF\_MTCH\_PCT, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

CD.READ\_CODE, CD.READ\_TYPE,CD.CHADSVASC

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0866V"."CD\_READ\_20170814"

**WHERE** CHADSVASC **IN** ('Heart failure','hypertension','Heart failure','v')

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

**COMMIT**;

--------------------------------------------------

--CHADSVASC: DIABETES part uses another separate code lists)

--------------------------------------------------

**ALTER** **table** SAILW0866V.GP\_DIAB\_20170905 activate **not** logged **initially**

**COMMIT**

**CREATE** **TABLE** SAILW0866V.GP\_DIAB\_20170905 **AS**(

--INSERT INTO SAILW0866V.GP\_DIAB\_20170905 ---

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD,CD.TERM\_30 PREF\_TERM\_30, GP.ALF\_MTCH\_PCT, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

CD.READ\_CD READ\_CODE

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0866V"."CD\_READ\_JR\_DIAB\_20170814"

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CD

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

**COMMIT**;

**SELECT** **COUNT**(\*) **FROM** "SAILW0866V"."GP\_DIAB\_20170905" --1,616,364

--------------------------------------------------

--RENAL DISEASE

-------------------------------------------------

**ALTER TABLE** SAILW0866V.GP\_RENAL\_LIVER\_20170905 activate **not** logged **initially**

**COMMIT**;

**CREATE** **TABLE** SAILW0866V.GP\_RENAL\_LIVER\_20170905 **AS**(

--INSERT INTO SAILW0866V.GP\_RENAL\_LIVER\_20170905 ---1,773,160

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD, CD.PREF\_TERM\_30, GP.ALF\_MTCH\_PCT, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

CD.READ\_CODE, CD.HASBLED

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** "SAILW0594V"."CD\_READ\_20170814"

**WHERE** HASBLED **IN** ('impaired liver function','Impaired renal failure')

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

)

**WITH** **NO** **DATA**

--------------------------------------------------

--Labile INR

--------------------------------------------------

**ALTER TABLE** SAILW0866V.GP\_INR\_20170905 activate **not** logged **initially**

**COMMIT**;

**CREATE** **TABLE** SAILW0866V.GP\_INR\_20170905 **AS**(

--INSERT INTO SAILW0866V.GP\_INR\_20170905

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD,CD.PREF\_TERM\_30,GP.EVENT\_VAL, GP.ALF\_MTCH\_PCT, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

CD.READ\_CODE

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**select** \* **from** "SAILUKHDV"."READ\_CD\_CV2\_SCD"

**where** read\_code **like** '42QE%'

) cd

**ON**

GP.EVENT\_CD=CD.READ\_CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2000'

**FETCH** **FIRST** 2 **ROWS** **ONLY**

)

**WITH** **NO** **DATA**

**COMMIT**

**SELECT** **COUNT**(\*) **FROM** SAILW0866V.GP\_INR\_20170905 ---7,451,112

---------------------------------------------------------

**CREATE** **TABLE** SAILW0866V.PEDW\_CHAD\_HAS\_20170906 (

ALF\_E **BIGINT**,

GNDR\_CD **CHAR**(1),

ADMIS\_DT **DATE**,

DISCH\_DT **DATE**,

CURR\_PROV\_UNIT\_CD **CHAR**(6),

ALF\_STS\_CD **CHAR**(2),

EPI\_NUM **CHAR**(2),

EPI\_STR\_DT **DATE**,

EPI\_END\_DT **DATE**,

EPI\_DIAG\_1234 **VARCHAR**(260),

OPER\_CD **VARCHAR**(10),

DIAG\_CD\_1234 **CHAR**(4),

DIAG\_DESC\_4 **VARCHAR**(255),

ICD\_TYPE **VARCHAR**(255),

PREV\_MI **VARCHAR**(255),

CHADVASC **VARCHAR**(255),

HAS\_BLED **VARCHAR**(255),

OTHER **VARCHAR**(255),

STROKE\_TYPE **VARCHAR**(255)

)

DISTRIBUTE **BY** HASH(ALF\_E,CURR\_PROV\_UNIT\_CD);

**COMMIT**;

**CALL** FNC.REORG('SAILW0866V.PEDW\_CHAD\_HAS\_20170906')

**INSERT INTO** SAILW0866V.PEDW\_CHAD\_HAS\_20170906

**SELECT**

sp.alf\_pe, sp.gndr\_cd,sp.admis\_dt,

sp.disch\_dt, sp.curr\_prov\_unit\_cd, sp.alf\_sts\_cd,

ep.epi\_num, ep.epi\_str\_dt,ep.epi\_end\_dt,

ep.diag\_cd\_1234 epi\_diag1234, ep.oper\_cd,

diag.diag\_cd\_1234,

Icd.DIAG\_DESC\_4, ICD.ICD\_TYPE, ICD.PREV\_MI, ICD.CHADSVASC,ICD.HAS\_BLED,ICD.OTHER,ICD.STROKE\_TYPE

**from**

SAIL0866V.PEDW\_SPELL\_20190131 sp

**left** **join**

SAIL0866V.PEDW\_EPISODE\_20190131 ep

**on**

sp.prov\_unit\_cd=ep.prov\_unit\_cd

**AND**

sp.SPELL\_NUM\_PE=ep.SPELL\_NUM\_PE

**AND**

sp.alf\_sts\_cd **in** ('1','4','39')

**left** **join**

SAIL0866V.PEDW\_DIAG\_20190131 diag

**on**

diag.prov\_unit\_cd=sp.prov\_unit\_cd

**and**

diag.SPELL\_NUM\_PE=sp.SPELL\_NUM\_PE

**and**

diag.epi\_num=ep.epi\_num

**RIGHT OUTER** **join**

(

**SELECT** \* **FROM** "SAILW0594V"."CD\_ICD10\_20170814"

**WHERE**

CHADSVASC **IS** **NOT** **NULL**

**OR**

HAS\_BLED **IS** **NOT** **NULL**

**OR** PREV\_MI **IS** **NOT** **NULL**

) icd

**ON**

diag.diag\_cd\_1234=icd.diag\_cd\_4

**COMMIT**;

---------------------------------------------------------

--BLEEDING EVENTS PEDW AND WLGP

---------------------------------------------------------

**SELECT** \* **FROM** SAILW0866V.CD\_ICD10\_BLEED\_20181220

--PEDW TABLE OF ALL BLEEDING EVENTS:

**ALTER TABLE** SAILW0866V.PEDW\_BLEED\_20190714 activate **not** logged **initially**

**CREATE** **TABLE** SAILW0866V.PEDW\_BLEED\_20190714 **AS** (

--insert into SAILW0866V.PEDW\_BLEED\_20190714

**select**

sp.ALF\_PE, sp.gndr\_cd,sp.admis\_dt,

sp.admis\_mthd\_cd,sp.admis\_source\_cd,

sp.disch\_dt,sp.disch\_mthd\_cd,sp.pat\_class\_cd,

sp.curr\_prov\_unit\_cd, sp.alf\_sts\_cd,

ep.epi\_num, ep.epi\_str\_dt,ep.epi\_end\_dt, ep.age\_epi\_str\_yr,

SUBSTR(**UPPER**(ep.Diag\_cd\_123),1,3)||SUBSTR(**UPPER**(ep.DIAG\_CD\_4),1,1) epi\_diag\_1234 ,

diag.diag\_cd\_1234,

icd.CODE, ICD.DESCRIPTION, ICD.NAME

**from**

SAIL0866V.PEDW\_DIAG\_20190515 diag

**RIGHT OUTER JOIN** (

**SELECT** \* **FROM** SAILW0866V.CD\_ICD10\_BLEED\_20181220

) icd

**on**

diag.diag\_cd\_1234=icd.CODE

**LEFT** **JOIN**

SAIL0866V.PEDW\_SPELL\_20190515 sp

**ON**

diag.prov\_unit\_cd=sp.prov\_unit\_cd

**and**

diag.SPELL\_NUM\_PE=sp.SPELL\_NUM\_PE

**AND**

sp.alf\_sts\_cd **in** ('1','4','39')

**left** **join**

SAIL0866V.PEDW\_EPISODE\_20190515 ep

**on**

sp.prov\_unit\_cd=ep.prov\_unit\_cd

**AND**

sp.SPELL\_NUM\_PE=ep.SPELL\_NUM\_PE

**AND**

diag.epi\_num=ep.epi\_num

)**WITH** **NO** **DATA**;

**COMMIT**

-----------------------------------------------------------

**ALTER TABLE** SAILW0866V.GP\_BLEED\_20190714 activate **not** logged **initially**

**COMMIT;**

**CREATE** **TABLE** SAILW0866V.GP\_BLEED\_20190714 **AS**(

--INSERT INTO SAILW0866V.GP\_BLEED\_20190714

**SELECT**

GP.ALF\_PE,GP.ALF\_STS\_CD, GP.EVENT\_DT, GP.EVENT\_CD,CD.DESCRIPTION,GP.EVENT\_VAL, GP.ALF\_MTCH\_PCT, GP.LOCAL\_NUM\_PE, GP.GNDR\_CD, GP.WOB,GP.REG\_CAT\_CD,GP.PRAC\_CD\_PE,

CD.CODE

**FROM**

SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820 GP

**RIGHT** **JOIN**

(

**SELECT** \* **FROM** SAILW0866V.CD\_READ\_BLEED\_20181220

) cd

**ON**

GP.EVENT\_CD=CD.CODE

**WHERE** **YEAR**(GP.EVENT\_DT) >= '2012'

---FETCH FIRST 2 ROWS ONLY

)

**WITH** **NO** **DATA**

--CREATING STUDY TABLE:

--INDEX DATE: '2017-01-01'

--INCLUSION CRITERIA IN THIS TABLE:

1. Appearance **of** **at** least one **of** the AF **READ** codes **in** patients **primary** care records.
2. **Time** period will be January 2000 onwards (**or** relevant **start** **date** **for** **data** ommencing **after** 2000).
3. The comorbidities will be extracted **FROM** relevant datasets
4. **ALL** AGES
5. **ALL** GENDERS
6. **IN** THIS **UPDATE** **ALL** EVENTS WERE LIMITED **TO** THE **INDEX** **DATE** **TO** MAKE SURE ABOUT CONSISTANCY
7. A 6 **MONTHS** follow back **AND** follow forward GP **DATA** **WINDOW** **IS** required **FOR** determining the occurrence **OF** events

------------------------------------------------------------

--A TABLE WITH ALL AF ALFS FROM 2000 TO 31-12-2017

--Update it is the same ALF lk table but the flags will be for HAS-BLED analysis and comparison

--this table includes all AF patients from 2000 onward

**CREATE** **TABLE** SAILW0866V.MSC\_HASB\_20190807 **AS** (

--INSERT INTO SAILW0866V.MSC\_HASB\_20190807

**SELECT** **DISTINCT** ALF\_PE, **MIN**(EVENT\_DT) FIRST\_AF\_DIAG\_DT **FROM** "SAILW0866V"."GP\_AF\_20170905"

**WHERE**

alf\_sts\_cd **in** ('1','4','39')

**AND**

alf\_Pe **is** **not** **null**

**AND**

gndr\_cd **is** **not** **null**

**AND**

event\_cd **is** **not** **null**

**AND**

prac\_cd\_Pe **is** **not** **null**

**AND**

local\_num\_PE **is** **not** **null**

**AND**

EVENT\_DT <= '2018-01-01'

**GROUP** **BY** ALF\_PE

)**WITH** **NO** **DATA**;

**COMMIT**;

-----------------------------------------------

--WOB / GNDR\_CD / DEATH\_DT

-----------------------------------------------

**ALTER** **TABLE** SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** WOB **DATE**

**ADD** **COLUMN** GNDR\_CD **INTEGER**

**ADD** **COLUMN** DEATH\_DT **DATE**

**MERGE** **INTO**

SAILW0866V.MSC\_HASB\_20190807 S

**USING**

(

**SELECT** **distinct** \* **FROM**

-- SAIL0866V.ADDE\_DEATHS\_20180608

SAIL0866V.WDSD\_AR\_PERS\_20181101

-- WHERE

-- DOD

-- DEATH\_DT

-- <= '2018-01-01'

) A

**ON**

S.ALF\_PE=A.ALF\_PE

**WHEN** **MATCHED** **THEN**

**UPDATE**

**SET**

S.WOB=A.WOB,

S.GNDR\_CD=A.GNDR\_CD,

-- S.DEATH\_DT=A.DOD

-- S.DEATH\_DT=A.DEATH\_DT

**COMMIT**;

---------------------------------------------------------

**MERGE** **INTO**

SAILW0866V.MSC\_HASB\_20190807 S

**USING**

(

**SELECT** ALF\_PE, DEATH\_DT, DEC\_SEX\_CD, DEC\_LSOA\_CD **FROM** "SAIL0866V"."ADDE\_DEATHS\_20180608"

**WHERE** ALF\_PE **IN**

(

**SELECT** **DISTINCT** ALF\_PE **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE** GNDR\_CD **IS** **NULL**

)

) A

**ON**

S.ALF\_PE=A.ALF\_PE

**WHEN** **MATCHED** **THEN**

**UPDATE**

**SET**

S.GNDR\_CD=A.DEC\_SEX\_CD

--check:

**SELECT** **COUNT**(\*) **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE**

GNDR\_CD **IS** **NULL** --0

--FILLING GNDR GAPS USING GP DATA:

**MERGE** **INTO**

SAILW0866V.MSC\_HASB\_20190807 S

**USING**

(

**SELECT** **DISTINCT** ALF\_PE, GNDR\_CD **FROM** SAIL0866V.WLGP\_GP\_EVENT\_ALF\_CLEANSED\_20180820

**WHERE** ALF\_PE **IN**(

**SELECT** **DISTINCT** ALF\_PE **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE** GNDR\_CD **IS** **NULL**

)

) A

**ON**

S.ALF\_PE=A.ALF\_PE

**WHEN** **MATCHED** **THEN**

**UPDATE**

**SET**

S.GNDR\_CD=A.GNDR\_CD

**COMMIT**

**SELECT** **COUNT**(\*) **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE**

GNDR\_CD **IS** **NULL** --0

---HURRAY! GNDR GAP IS FILLED NO NULL GNDERS :) check before hurray for AF s

---------------------------------------------------------------------------

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** GP\_END\_DATE **DATE**

**ADD** **COLUMN** STUDY\_GP\_COVERAGE\_DAYS **INTEGER**

**UPDATE** SAILW0866V.MSC\_HASB\_20190807

**SET**

gp\_end\_date = **NULL**

**COMMIT**

**MERGE** **INTO**

SAILW0866V.MSC\_HASB\_20190807

**AS** A

**USING**

(

**SELECT** **DISTINCT** ALF\_PE, **MAX**(END\_DATE) END\_DT **FROM**

SAIL0866V.WLGP\_CLEAN\_GP\_REG\_BY\_PRAC\_INCLNONSAIL\_MEDIAN\_20180820

**WHERE**

GP\_DATA\_FLAG=1

**GROUP** **BY** ALF\_PE

)

**AS** B

**ON**

A.ALF\_PE=B.ALF\_PE

**WHEN** **MATCHED** **THEN** **UPDATE**

**SET**

A.GP\_END\_DATE=B.END\_DT

---------------------------------------------------

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** STUDY\_START\_DATE **DATE**

**ADD** **COLUMN** STUDY\_END\_DATE **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

study\_start\_date='2017-01-01',

study\_end\_date='2018-01-01'

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** STUDY\_GP\_COVERAGE\_DAYS=

**CASE**

**WHEN** GP\_end\_DATE >= study\_start\_date **THEN**

**DAYS**(GP\_END\_DATE)-**DAYS**(study\_start\_date)

**ELSE** 0

**END**

--------------------------------------------

--DEFINING AGE AS CHASD AND HAS FLAGS

--------------------------------------------

--AGE

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** BASE\_AGE **INTEGER**

**ADD** **COLUMN** DEATH\_AGE **INTEGER**

**COMMIT**

**SELECT** \* **FROM** SAILW0866V.MSC\_HASB\_20190807

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

BASE\_AGE = **CAST**( **DAYS**(STUDY\_START\_DATE)- **DAYS**(WOB)**AS** **INTEGER** ),

DEATH\_AGE = **CAST**( **DAYS**(DEATH\_DT)- **DAYS**(WOB)**AS** **INTEGER** )

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

BASE\_AGE = **CAST**( BASE\_AGE/365.25 **AS** **INTEGER**),

DEATH\_AGE = **CAST**( DEATH\_AGE/365.25 **AS** **INTEGER**)

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** BASE\_AGE = **CASE**

**when** (death\_age **is** **null**) **then** BASE\_AGE

**when** DEATH\_DT > '2018-01-01' **then** BASE\_AGE

**ELSE** DEATH\_AGE

**end**

**COMMIT**

------------------------------------------------------------

-- AGE\_65\_74 / AGE\_OVER\_75

------------------------------------------------------------

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** AGE\_65\_74 **INTEGER**

**ADD** **COLUMN** AGE\_over\_75 **INTEGER**

**ADD** **COLUMN** AGE\_OVER\_65 **INTEGER**

**COMMIT**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** AGE\_65\_74 = **CASE**

**when** BASE\_AGE **BETWEEN** 65 **AND** 74 **THEN** 1

**ELSE** 0

**end**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** AGE\_OVER\_75 = **CASE**

**when** BASE\_AGE >=75 **THEN** 1

**ELSE** 0

**end**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** AGE\_OVER\_65 = **CASE**

**when** BASE\_AGE >= 65 **THEN** 1

**ELSE** 0

**end**

**COMMIT**

------------------------------------------------------------

-- SEX\_FEMALE

------------------------------------------------------------

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** SEX\_FEMALE **INTEGER**

**COMMIT**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** SEX\_FEMALE = **CASE**

**when** GNDR\_CD='2' **THEN** 1

**ELSE** 0

**end**

**COMMIT**

---------------------------------------------------------

--CHADSVASC: FLAGS

------------------------------------------------

------------------------------------------

--STROKE\_TIA\_THROM : CHADS

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **column** STROKE\_CHAD **INTEGER**

**ADD** **COLUMN** STROKE\_CHAD\_1ST\_ADMIS\_DT **DATE**

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **column** STROKE\_CHAD\_BL **INTEGER**

**ADD** **COLUMN** STROKE\_CHAD\_BL\_1ST\_ADMIS\_DT **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

STROKE\_CHAD=0, STROKE\_CHAD\_1ST\_ADMIS\_DT=**NULL**,

STROKE\_CHAD\_BL=0, STROKE\_CHAD\_BL\_1ST\_ADMIS\_DT=**NULL**

**COMMIT**;

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.fIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.HASB\_ALF\_LK\_20190325 **AS** A

**JOIN**

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE** B.CHADVASC **IN** ('s','emolism in S')

**AND**

B.DIAG\_CD\_1234 **NOT** **IN** ('I608','I602','I604','I600','I607','I601','I606','I603','I605','I609')

**AND**

-- B.ADMIS\_DT <= '2017-01-01'

B.ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.fIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.STROKE\_CHAD\_BL=1,

-- GP.STROKE\_CHAD\_BL\_1ST\_ADMIS\_DT=FLAG.MIN\_ADMIS\_DT

GP.STROKE\_CHAD=1,

GP.STROKE\_CHAD\_1ST\_ADMIS\_DT=FLAG.MIN\_ADMIS\_DT

------------------------------------------

--DIABETES (PEDW)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **column** DIAB\_CHAD\_P **INTEGER**

**ADD** **column** DIAB\_CHAD\_1ST\_ADMIS\_DT\_P **DATE**

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **column** DIAB\_CHAD\_P\_BL **INTEGER**

**ADD** **column** DIAB\_CHAD\_1ST\_ADMIS\_DT\_P\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

DIAB\_CHAD\_1ST\_ADMIS\_DT\_P=**NULL** ,DIAB\_CHAD\_P=0,

DIAB\_CHAD\_1ST\_ADMIS\_DT\_P\_BL=**NULL** ,DIAB\_CHAD\_P\_BL=0

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**USING**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.HASB\_ALF\_LK\_20190325 **AS** A

**JOIN**

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE** B.CHADVASC **IN** ('d')

**AND**

-- B.ADMIS\_DT <= '2017-01-01'

B.ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.DIAB\_CHAD\_P\_BL=1,

-- GP.DIAB\_CHAD\_1ST\_ADMIS\_DT\_P\_BL=FLAG.MIN\_ADMIS\_DT

GP.DIAB\_CHAD\_P=1,

GP.DIAB\_CHAD\_1ST\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

------------------------------------------

--DIABETES (GP)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **column** DIAB\_CHAD\_GP **INTEGER**

**ADD** **column** DIAB\_CHAD\_GP\_1ST\_DT **DATE**

**ADD** **column** DIAB\_CHAD\_GP\_BL **INTEGER**

**ADD** **column** DIAB\_CHAD\_GP\_1ST\_DT\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

DIAB\_CHAD\_GP\_1ST\_DT=**NULL** ,DIAB\_CHAD\_GP=0,

DIAB\_CHAD\_GP\_1ST\_DT\_BL=**NULL** ,DIAB\_CHAD\_GP\_BL=0

--IN GP

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**AS** GP

**USING**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_DIAB\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.DIAB\_CHAD\_GP\_BL =1,

-- GP.DIAB\_CHAD\_GP\_1ST\_DT\_BL=FLAG.MIN\_EV\_DT

GP.DIAB\_CHAD\_GP =1,

GP.DIAB\_CHAD\_GP\_1ST\_DT=FLAG.MIN\_EV\_DT

**COMMIT**;

--CHECK:

**SELECT** \* **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE** DIAB\_CHAD\_GP=1

--I AM HERE FINISH ADDING BASELINE AND STUDY CONDITIONS AND THEN READY FOR MODELLING

-------------------------------------------------

--VASCULAR (PEDW)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** VASCULAR\_CHAD\_P **INTEGER**

**add** **column** VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P **DATE**

**add** **column** VASCULAR\_CHAD\_P\_BL **INTEGER**

**add** **column** VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P\_BL **DATE**

**COMMIT**;

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

VASCULAR\_CHAD\_P=0,

VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P=**NULL**,

VASCULAR\_CHAD\_P\_bl=0,

VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P\_bl=**NULL**

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.CHADVASC **IN** ('v')

**AND**

-- B.ADMIS\_DT BETWEEN '2017-01-01' AND '2018-01-01'

B.ADMIS\_DT < '2017-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.VASCULAR\_CHAD\_P\_BL=1,

GP.VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P\_BL=FLAG.MIN\_ADMIS\_DT

GP.VASCULAR\_CHAD\_P=1,

GP.VASCULAR\_CHAD\_1ST\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

------------------------------------------

--VASCULAR (GP)

------------------------------------------

**SELECT** \* **FROM** SAILW0866V.MSC\_HASB\_20190807

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** VASCULAR\_CHAD\_GP **INTEGER**

**ADD** **COLUMN** VASC\_CHAD\_GP\_1ST\_DT **DATE**

**add** **column** VASCULAR\_CHAD\_GP\_BL **INTEGER**

**ADD** **COLUMN** VASC\_CHAD\_GP\_1ST\_DT\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

VASCULAR\_CHAD\_GP=0, VASC\_CHAD\_GP\_1ST\_DT=**NULL**,

VASCULAR\_CHAD\_GP\_BL=0, VASC\_CHAD\_GP\_1ST\_DT\_BL=**NULL**

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_CHAD\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.CHADSVASC **IN** ('v')

**AND**

-- B.EVENT\_DT BETWEEN '2017-01-01' AND '2018-01-01'

B.EVENT\_DT < '2017-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.VASCULAR\_CHAD\_GP\_BL =1,

GP.VASC\_CHAD\_GP\_1ST\_DT\_BL=FLAG.MIN\_EV\_DT

GP.VASCULAR\_CHAD\_GP =1,

GP.VASC\_CHAD\_GP\_1ST\_DT=FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--CHF (PEDW)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** CHF\_CHAD\_P **INTEGER**

**add** **column** CHF\_CHAD\_1ST\_ADMIS\_DT\_P **DATE**

**add** **column** CHF\_CHAD\_P\_BL **INTEGER**

**add** **column** CHF\_CHAD\_1ST\_ADMIS\_DT\_P\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

CHF\_CHAD\_P=0, CHF\_CHAD\_1ST\_ADMIS\_DT\_p=**NULL**,

CHF\_CHAD\_P\_BL=0, CHF\_CHAD\_1ST\_ADMIS\_DT\_p\_BL=**NULL**

--IN PEDW

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.CHADVASC **IN** ('HF')

**AND**

-- B.ADMIS\_DT < '2017-01-01'

B.ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.CHF\_CHAD\_P\_BL=1,

-- GP.CHF\_CHAD\_1ST\_ADMIS\_DT\_P\_BL=FLAG.MIN\_ADMIS\_DT

GP.CHF\_CHAD\_P=1,

GP.CHF\_CHAD\_1ST\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

------------------------------------------

--CHF (GP)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** CHF\_CHAD\_GP **INTEGER**

**ADD** **COLUMN** CHF\_CHAD\_1ST\_EV\_GP **DATE**

**add** **column** CHF\_CHAD\_GP\_P **INTEGER**

**ADD** **COLUMN** CHF\_CHAD\_1ST\_EV\_GP\_P **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

CHF\_CHAD\_GP=0,CHF\_CHAD\_1ST\_EV\_GP=**NULL**,

CHF\_CHAD\_GP\_P=0,CHF\_CHAD\_1ST\_EV\_GP\_P=**NULL**

**COMMIT**;

--IN GP

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_CHAD\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.CHADSVASC **IN** ('Heart failure')

**AND**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.CHF\_CHAD\_GP\_P =1,

-- GP.CHF\_CHAD\_1ST\_EV\_GP\_P=FLAG.MIN\_EV\_DT

GP.CHF\_CHAD\_GP =1,

GP.CHF\_CHAD\_1ST\_EV\_GP=FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--RENAL DISEASE :

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** RENAL\_HAS\_GP **INTEGER**

**add** **column** RENAL\_HAS\_GP\_DT **DATE**

**add** **column** RENAL\_HAS\_GP\_BL **INTEGER**

**add** **column** RENAL\_HAS\_GP\_DT\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

RENAL\_HAS\_GP=0, RENAL\_HAS\_GP\_DT=**NULL**,

RENAL\_HAS\_GP\_BL=0, RENAL\_HAS\_GP\_DT\_BL=**NULL**

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_RENAL\_LIVER\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.HASBLED **IN** ('Impaired renal failure')

**AND**

b.EVENT\_DT < '2017-01-01'

-- b.EVENT\_DT BETWEEN '2017-01-01' AND '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.RENAL\_HAS\_GP\_BL=1,

GP.RENAL\_HAS\_GP\_DT\_BL =FLAG.MIN\_EV\_DT

GP.RENAL\_HAS\_GP=1,

GP.RENAL\_HAS\_GP\_DT =FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--LIVER DISEASE

------------------------------------------

**SELECT** **DISTINCT** HAS\_BLED **FROM** SAILW0594V.PEDW\_CHAD\_HAS\_20170906 ---impaired liver function

**SELECT** **DISTINCT** HASBLED **FROM** "SAILW0594V"."GP\_RENAL\_LIVER\_20170905" --impaired liver function

**Alter** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** LIVER\_HAS\_GP **INTEGER**

**add** **column** LIVER\_HAS\_GP\_DATE **DATE**

**add** **column** LIVER\_HAS\_GP\_BL **INTEGER**

**add** **column** LIVER\_HAS\_GP\_DATE\_BL **DATE**

**Alter** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** LIVER\_HAS\_P **INTEGER**

**add** **column** LIVER\_HAS\_P\_1ST\_ADMIS\_DT **DATE**

**add** **column** LIVER\_HAS\_P\_BL **INTEGER**

**add** **column** LIVER\_HAS\_P\_1ST\_ADMIS\_DT\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

LIVER\_HAS\_GP=0, LIVER\_HAS\_P=0,

LIVER\_HAS\_P\_1ST\_ADMIS\_DT=**NULL**, liver\_has\_gp\_date=**NULL**,

LIVER\_HAS\_GP\_BL=0, LIVER\_HAS\_P\_BL=0,

LIVER\_HAS\_P\_1ST\_ADMIS\_DT\_BL=**NULL**, liver\_has\_gp\_date\_BL=**NULL**

--FIRST MEGRING PEDW LIVERS:

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.HAS\_BLED **IN** ('impaired liver function')

**AND**

-- B.ADMIS\_DT < '2017-01-01'

B.ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN** **UPDATE**

**SET**

-- GP.LIVER\_HAS\_P\_BL=1,

-- GP.LIVER\_HAS\_P\_1ST\_ADMIS\_DT\_BL=FLAG.MIN\_ADMIS\_DT

GP.LIVER\_HAS\_P=1,

GP.LIVER\_HAS\_P\_1ST\_ADMIS\_DT=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

--MERGE GP LIVERS:

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_RENAL\_LIVER\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.HASBLED **IN** ('impaired liver function')

**AND**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED**

**THEN** **UPDATE**

**SET**

-- GP.LIVER\_HAS\_GP\_BL=1 ,

-- GP.LIVER\_HAS\_GP\_DATE\_BL=FLAG.MIN\_EV\_DT

GP.LIVER\_HAS\_GP=1 ,

GP.LIVER\_HAS\_GP\_DATE=FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--STROKE : HAS\_BLED

------------------------------------------

--GOING TO USE THE SAME FLAG OF CHAD FOR THE SAILW0866V.HASB\_ALF\_LK\_20190325

------------------------------------------

--BLEEDING

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**Add** **column** MJ\_BLEEDING\_HASB\_P **INTEGER**

**ADD** **COLUMN** MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P **DATE**

**Add** **column** MJ\_BLEEDING\_HASB\_P\_BL **INTEGER**

**ADD** **COLUMN** MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** MJ\_BLEEDING\_HASB\_P=0, MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P=**NULL**,

MJ\_BLEEDING\_HASB\_P\_BL=0, MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P\_BL=**NULL**

**COMMIT**;

--------------------------------------

**SELECT** \* **FROM** SAILW0866V.CD\_ICD10\_20170814

**WHERE**

HAS\_BLED **IN** ('bleeding','history of bleeding')

--USING TABLE OF MAJOR BLEEDING FROM SABRE REVIEWED LIST OF BLEEDING CODES:

**SELECT** \* **FROM** SAILW0866V.PEDW\_BLEED\_20190714

------------------------------------------

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

--decided to use the table with SABRE bleeding admissions:

SAILW0866V.PEDW\_BLEED\_20190714 b

/\*

SAILW0866V.PEDW\_CHAD\_HAS\_20170906 AS B

ON A.ALF\_PE=B.ALF\_PE

WHERE

B.HAS\_BLED IN ('bleeding','history of bleeding')

AND

B.ADMIS\_DT <= '2017-01-01'

\*/

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

-- B.ADMIS\_DT < '2017-01-01'

B.ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED**

**THEN** **UPDATE** **SET**

GP.MJ\_BLEEDING\_HASB\_P=1,

GP.MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

GP.MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

GP.MJ\_BLEEDING\_HASB\_P\_BL=1,

GP.MJ\_BLEEDING\_HASB\_1ST\_ADMIS\_DT\_P\_BL=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

**SELECT** **COUNT**(**DISTINCT** ALF\_PE) **FROM** SAILW0866V.MSC\_HASB\_20190807

**WHERE** MJ\_BLEEDING\_HASB\_P =1

------------------------------------------

--HAS\_BLED MEDICATION --LEFT THESE OUT SAILW0866V.WELSH\_STROKE\_20190308 (JULIAN SUGGESTION)

------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**Add** **column** MEDICATION\_HASB **INTEGER**

**Add** **column** MEDICATION\_HASB\_DT **DATE**

**Add** **column** MEDICATION\_HASB\_BL **INTEGER**

**Add** **column** MEDICATION\_HASB\_DT\_BL **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** MEDICATION\_HASB=0, MEDICATION\_HASB\_BL=0

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** ALF\_pE, **MIN**(EVENT\_DT) MIN\_EV\_DT **FROM** "SAILW0866V"."GP\_DRUG\_HASBLED\_20170905"

**WHERE**

EVENT\_DT < '2017-01-01'

**GROUP** **BY** ALF\_PE

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.MEDICATION\_HASB\_BL=1,

GP.MEDICATION\_HASB\_DT\_BL=FLAG.MIN\_EV\_DT

GP.MEDICATION\_HASB=1,

GP.MEDICATION\_HASB\_DT=FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--HYPERTENSION:

------------------------------------------

--DECIDED THAT FOR THE FEASIBILITY PART OF THE STUDY:

--ONLY FLAG CASES WHO HAD A HYPERTENSION DIAGNOSIS IN THEIR GP RECORD

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**add** **column** HYPT\_GP\_BL **INTEGER**

**add** **column** HYPT\_GP\_DT\_BL **DATE**

**add** **column** HYPT\_GP **INTEGER**

**add** **column** HYPT\_GP\_DT **DATE**

**COMMIT**;

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HYPT\_GP=0, HYPT\_GP\_BL=0

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_CHAD\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

B.CHADSVASC='hypertension'

**AND**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED** **THEN** **UPDATE**

**SET**

-- GP.HYPT\_GP\_BL=1,

-- GP.HYPT\_GP\_DT\_BL=FLAG.MIN\_EV\_DT

GP.HYPT\_GP=1,

GP.HYPT\_GP\_DT=FLAG.MIN\_EV\_DT

**COMMIT**;

------------------------------------------

--LABILE INR

------------------------------------------

--WE WANT TO HAVE THREE SEPARATE FLAGS:

-- 1-ANY INR

-- 2-INR>5

-- 3-INR>8

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**Add** **column** INR\_GP\_BL **INTEGER**

**Add** **column** INR\_GP\_DT\_BL **DATE**

**Add** **column** INR\_5\_OR\_ABOVE\_BL **INTEGER**

**Add** **column** INR\_8\_OR\_ABOVE\_BL **INTEGER**

**Add** **column** INR\_GP **INTEGER**

**Add** **column** INR\_GP\_DT **DATE**

**Add** **column** INR\_5\_OR\_ABOVE **INTEGER**

**Add** **column** INR\_8\_OR\_ABOVE **INTEGER**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET**

INR\_GP=0,INR\_5\_OR\_ABOVE=0,INR\_8\_OR\_ABOVE=0,

INR\_GP\_BL=0,INR\_5\_OR\_ABOVE\_BL=0,INR\_8\_OR\_ABOVE\_BL=0

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

"SAILW0866V"."GP\_INR\_20170905" **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**AND**

-- B.EVENT\_VAL >= 5

B.EVENT\_VAL >= 8

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

-- GP.INR\_GP\_BL=1,

-- GP.INR\_GP\_DT\_BL=FLAG.MIN\_EV\_DT

-- GP.INR\_5\_OR\_ABOVE\_BL=1

-- GP.INR\_8\_OR\_ABOVE\_BL=1

-- GP.INR\_GP=1,

-- GP.INR\_GP\_DT=FLAG.MIN\_EV\_DT

-- GP.INR\_5\_OR\_ABOVE=1

GP.INR\_8\_OR\_ABOVE=1

**COMMIT**;

--------------------------------------------------------

--ALCOHORL FLAG FOR HASBLED

--------------------------------------------------------

**Alter** **table**

SAILW0866V.MSC\_HASB\_20190807

**Add** **column** ALCOHOL\_BL **INTEGER**

**Add** **column** ALCOHOL\_DT\_BL **DATE**

**Add** **column** ALCOHOL **INTEGER**

**Add** **column** ALCOHOL\_DT **DATE**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** ALCOHOL=0, ALCOHOL\_BL=0

-------------------

**Merge** **into**

SAILW0866V.MSC\_HASB\_20190807

**as** GP

**using**

(

**SELECT** **DISTINCT** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT, **MIN**(B.EVENT\_DT) MIN\_EV\_DT **FROM**

SAILW0866V.MSC\_HASB\_20190807 **AS** A

**JOIN**

SAILW0866V.GP\_ALOCHOL\_20190310 **AS** B

**ON** A.ALF\_PE=B.ALF\_PE

**WHERE**

-- B.EVENT\_DT < '2017-01-01'

B.EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** A.ALF\_PE, A.FIRST\_AF\_DIAG\_DT

) FLAG

**ON**

GP.ALF\_PE=FLAG.ALF\_PE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.ALCOHOL=1,

GP.ALCOHOL\_DT=FLAG.MIN\_EV\_DT

GP.ALCOHOL\_BL=1,

GP.ALCOHOL\_DT\_BL=FLAG.MIN\_EV\_DT

**SELECT** \* **FROM** SAILW0866V.MSC\_HASB\_20190807

---------------------------------------------------------

--SOME FIELDS NEED TO BE COMBINED PRIOR TO CALCULATIONS:

--THOSE FLAGS WHICH WERE DRIVED SEPARATELY FOR GP AND PEDW

---------------------------------------------------------

--PEDW ONLY FLAGS:

MI

MJ-BLEEDING : MJ\_BLEEDING\_HASB\_P

STROKE : STROKE\_CHAD / STROKE\_HASB\_P

--GP ONLY FLAGS:

AF

AC

AP : AP / AP\_SINGLE / AP\_P2Y12 / AP\_DOUBLE

HAS-BLED-MEDICATION : MEDICATION\_HASB

HYPERTENSION : HYPT\_GP

RENAL : RENAL\_HAS\_GP

LABILE INR : INR\_GP / INR\_5\_OR\_ABOVE / INR\_8\_OR\_ABOVE

--PEDW & GP FLAGS:

CHF : CHF\_CHAD\_GP / CHF\_CHAD\_P

VASCULAR : VASCULAR\_CHAD\_GP / VASCULAR\_CHAD\_P

DIABETES : DIAB\_CHAD\_GP / DIAB\_CHAD\_P

LIVER : LIVER\_HAS\_GP / LIVER\_HAS\_P

--CREATE A COMBINED FLAG FOR PEDW & GP ONES: CHF, VASC, DIAB, LIVER

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** CHF\_CHAD\_COMB **INTEGER**

**ADD** **COLUMN** VASC\_CHAD\_COMB **INTEGER**

**ADD** **COLUMN** DIAB\_CHAD\_COMB **INTEGER**

**ADD** **COLUMN** LIV\_HAS\_COMB **INTEGER**

**ADD** **COLUMN** CHF\_CHAD\_COMB\_BL **INTEGER**

**ADD** **COLUMN** VASC\_CHAD\_COMB\_BL **INTEGER**

**ADD** **COLUMN** DIAB\_CHAD\_COMB\_BL **INTEGER**

**ADD** **COLUMN** LIV\_HAS\_COMB\_BL **INTEGER**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHF\_CHAD\_COMB=0,VASC\_CHAD\_COMB=0,DIAB\_CHAD\_COMB=0,LIV\_HAS\_COMB=0,

CHF\_CHAD\_COMB\_BL=0,VASC\_CHAD\_COMB\_BL=0,DIAB\_CHAD\_COMB\_BL=0,LIV\_HAS\_COMB\_BL=0

**COMMIT**;

--CHF

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHF\_CHAD\_COMB= **CASE**

**when** CHF\_CHAD\_1st\_admis\_dt\_p **IS** **NOT** **NULL** **OR** CHF\_CHAD\_1ST\_EV\_GP **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **END**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHF\_CHAD\_COMB\_BL= **CASE**

**when** CHF\_CHAD\_1st\_admis\_dt\_p\_BL **IS** **NOT** **NULL** **OR** CHF\_CHAD\_1ST\_EV\_GP\_P **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

--VASC

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** VASC\_CHAD\_COMB= **CASE**

**when** VASCULAR\_CHAD\_1st\_admis\_dt\_p **IS** **NOT** **NULL** **OR** VASC\_CHAD\_GP\_1ST\_DT **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** VASC\_CHAD\_COMB\_BL= **CASE**

**when** VASCULAR\_CHAD\_1st\_admis\_dt\_p\_BL **IS** **NOT** **NULL** **OR** VASC\_CHAD\_GP\_1ST\_DT\_BL **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

--DIAB

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** DIAB\_CHAD\_COMB= **CASE**

**when** DIAB\_CHAD\_1st\_admis\_dt\_p **IS** **NOT** **NULL** **OR** DIAB\_CHAD\_GP\_1ST\_DT **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** DIAB\_CHAD\_COMB\_BL= **CASE**

**when** DIAB\_CHAD\_1st\_admis\_dt\_p\_BL **IS** **NOT** **NULL** **OR** DIAB\_CHAD\_GP\_1ST\_DT\_BL **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

--LIV

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** LIV\_HAS\_COMB= **CASE**

**when** LIVER\_HAS\_P\_1st\_admis\_dt **IS** **NOT** **NULL** **OR** LIVER\_HAS\_GP\_DATE **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **END**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** LIV\_HAS\_COMB\_BL= **CASE**

**when** LIVER\_HAS\_P\_1st\_admis\_dt\_BL **IS** **NOT** **NULL** **OR** LIVER\_HAS\_GP\_DATE\_BL **IS** **NOT** **NULL** **THEN** 1

**ELSE** 0 **end**

**COMMIT**;

--CHECKS:

**SELECT** ALF\_pE, LIV\_HAS\_COMB,LIVER\_HAS\_GP,LIVER\_HAS\_P **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE** LIV\_HAS\_COMB=1

---------------------------------------------------------

--HAS-BLEAD CALCULATION: 1-YEAR RISK OF MAJOR BLEEDING INCREASES FOR SCORE ABOVE 3

---------------------------------------------------------

-- HYPERTENSION : HYPT\_GP

-- RENAL : RENAL\_HAS\_GP

-- LIVER : LIV\_HAS\_COMB

-- STROKE : STROKE\_HASB\_P

-- MJ\_BLEEDING : MJ\_BLEEDING\_HASB\_P

-- LABILE INR : INR\_GP / INR\_5\_OR\_ABOVE / INR\_8\_OR\_ABOVE

-- AGE>65 : AGE\_OVER\_65

-- MEDICATION : MEDICATION\_HASB (WE EXCLUDED THESE)

-- ALCOHOL : INCLUDED THESE IN MOST UPDATED COHORT

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** HASBLED\_INR5\_BL **INTEGER**

**ADD** **COLUMN** HASBLED\_INR8\_BL **INTEGER**

**ADD** **COLUMN** HASBLED\_INR5 **INTEGER**

**ADD** **COLUMN** HASBLED\_INR8 **INTEGER**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HASBLED\_INR5=0,HASBLED\_INR8=0, HASBLED\_INR5\_BL=0,HASBLED\_INR8\_BL=0

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HASBLED\_INR5=**CAST**(HYPT\_GP+RENAL\_HAS\_GP+LIV\_HAS\_COMB+

STROKE\_CHAD+MJ\_BLEEDING\_HASB\_P+ALCOHOL+

INR\_5\_OR\_ABOVE+AGE\_OVER\_65 **AS** **INTEGER**)

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HASBLED\_INR8=**CAST**(HYPT\_GP+RENAL\_HAS\_GP+LIV\_HAS\_COMB+

STROKE\_CHAD+MJ\_BLEEDING\_HASB\_P+ALCOHOL+

INR\_8\_OR\_ABOVE+AGE\_OVER\_65 **AS** **INTEGER**)

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HASBLED\_INR5\_BL=**CAST**(HYPT\_GP\_BL+RENAL\_HAS\_GP\_BL+LIV\_HAS\_COMB\_BL+

STROKE\_CHAD\_BL+MJ\_BLEEDING\_HASB\_P\_BL+ALCOHOL\_BL+

INR\_5\_OR\_ABOVE\_BL+AGE\_OVER\_65 **AS** **INTEGER**)

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** HASBLED\_INR8=**CAST**(HYPT\_GP\_BL+RENAL\_HAS\_GP\_BL+LIV\_HAS\_COMB\_BL+

STROKE\_CHAD\_BL+MJ\_BLEEDING\_HASB\_P\_BL+ALCOHOL\_BL+

INR\_8\_OR\_ABOVE\_BL+AGE\_OVER\_65 **AS** **INTEGER**)

**COMMIT**;

**SELECT** **COUNT**(\*) **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE** HASBLED\_INR5 >=3 --13,251

---------------------------------------------------------

--CHADS2VASC2 CALCULATION:

---------------------------------------------------------

**ALTER** **TABLE**

SAILW0866V.MSC\_HASB\_20190807

**ADD** **COLUMN** CHADSVASC\_BL **INTEGER**

**ADD** **COLUMN** CHADSVASC **INTEGER**

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHADSVASC=0, CHADSVASC\_BL=0

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHADSVASC=**CAST**(AGE\_65\_74 + (2\*(AGE\_OVER\_75)) + SEX\_FEMALE + CHF\_CHAD\_COMB

+HYPT\_GP + (2\*(STROKE\_CHAD)) + VASC\_CHAD\_COMB + DIAB\_CHAD\_COMB **AS** **INTEGER**)

**UPDATE**

SAILW0866V.MSC\_HASB\_20190807

**SET** CHADSVASC\_BL=**CAST**(AGE\_65\_74 + (2\*(AGE\_OVER\_75)) + SEX\_FEMALE + CHF\_CHAD\_COMB\_BL

+HYPT\_GP\_BL + (2\*(STROKE\_CHAD)) + VASC\_CHAD\_COMB\_BL + DIAB\_CHAD\_COMB\_BL **AS** **INTEGER**)

**COMMIT**;

**SELECT** **DISTINCT** CHADSVASC, **COUNT**(**DISTINCT** ALF\_pE) **FROM**

SAILW0866V.MSC\_HASB\_20190807

**GROUP** **BY** CHADSVASC

**SELECT** MEDIAN(CHADSVASC) **FROM** SAILW0866V.MSC\_HASB\_20190807

-----------------------------------

--AC AT THE START:

-----------------------------------

**ALTER** **TABLE** SAILW0866V.HASB\_ALF\_LK\_20190325

**ADD** **COLUMN** AC\_BASELINE\_2017 **INTEGER**

**UPDATE** SAILW0866V.HASB\_ALF\_LK\_20190325 **SET** AC\_BASELINE\_2017=0

**MERGE** **INTO** SAILW0866V.HASB\_ALF\_LK\_20190325 A

**USING**

(

**SELECT** **DISTINCT** ALF\_PE **FROM**

SAILW0866V.GP\_AC\_AP\_20170905

**WHERE** READ\_TYPE='anticoag'

**AND** EVENT\_DT **BETWEEN** '2016-10-30' **AND** '2017-01-15'

) B

**ON**

A.ALF\_PE=B.ALF\_PE

**WHEN** **MATCHED** **THEN** **UPDATE**

**SET**

A.AC\_BASELINE\_2017=1

----------------------------------------

--INCIDENT OF MJ BLEEDING FROM 2017-01-01 TO 2018-01-01:

-----------------------------------

**Alter** **table**

SAILW0866V.HASB\_ALF\_LK\_20190325

**Add** **column** MJ\_BLEEDING\_1718\_P **INTEGER**

**ADD** **COLUMN** MJ\_BLEEDING\_1718\_ADMIS\_DT\_P **DATE**

**UPDATE**

SAILW0866V.HASB\_ALF\_LK\_20190325

**SET** MJ\_BLEEDING\_1718\_P=0, MJ\_BLEEDING\_1718\_ADMIS\_DT\_P=**NULL**

**COMMIT**;

**Merge** **into**

SAILW0866V.HASB\_ALF\_LK\_20190325

**as** GP

**using**

(

**SELECT** **DISTINCT** ALF\_PE,**MIN**(ADMIS\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.PEDW\_BLEED\_20190714

**WHERE**

ADMIS\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** ALF\_PE

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.MJ\_BLEEDING\_1718\_P=1,

GP.MJ\_BLEEDING\_1718\_ADMIS\_DT\_P=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

----MJ BLEED IN GP:

**Alter** **table**

SAILW0866V.HASB\_ALF\_LK\_20190325

**Add** **column** MJ\_BLEEDING\_1718\_GP **INTEGER**

**ADD** **COLUMN** MJ\_BLEEDING\_1718\_EVENT\_DT\_GP **DATE**

**UPDATE**

SAILW0866V.HASB\_ALF\_LK\_20190325

**SET** MJ\_BLEEDING\_1718\_GP=0, MJ\_BLEEDING\_1718\_EVENT\_DT\_GP=**NULL**

**COMMIT**;

**Merge** **into**

SAILW0866V.HASB\_ALF\_LK\_20190325

**as** GP

**using**

(

**SELECT** **DISTINCT** ALF\_PE,**MIN**(EVENT\_DT) MIN\_ADMIS\_DT **FROM**

SAILW0866V.GP\_BLEED\_20190714 **WHERE**

EVENT\_DT **BETWEEN** '2017-01-01' **AND** '2018-01-01'

**GROUP** **BY** ALF\_PE

) FLAG

**ON**

GP.ALF\_pE=FLAG.ALF\_pE

**WHEN** **MATCHED**

**THEN**

**UPDATE**

**SET**

GP.MJ\_BLEEDING\_1718\_GP=1,

GP.MJ\_BLEEDING\_1718\_EVENT\_DT\_GP=FLAG.MIN\_ADMIS\_DT

**COMMIT**;

------------------------------------------------------------

--CONSORT:

-------------------------------------------------------------

**SELECT** **COUNT**(**DISTINCT** ALF\_PE) **FROM**

SAILW0866V.MSC\_HASB\_20190807

**WHERE**

(DEATH\_DT **IS** **NULL** **OR** DEATH\_DT > '2017-01-01') --70,471

**AND** ALF\_PE **IN** (**SELECT** **DISTINCT** ALF\_PE **FROM** SAIL0866V.PEDW\_SPELL\_20190515)

**AND** STUDY\_GP\_COVERAGE\_DAYS >= 180 ---59,937 ---59,937

-- LSOA\_CD <> 'NULL'

-- SUBSTRING(LSOA\_CD, 1, 1)='W'

--OVER 18

**AND** BASE\_AGE >= 18

**AND** AC\_BASELINE\_2017=1

--welsh lsoa at diagnosis

**AND** alf\_pe **IN** (**SELECT** \* **FROM** sailw0866v.ALF\_ANALYSED\_MSC\_20190809) ---38,784

----------------------------------------------------

--appendix codes

**SELECT** \* **FROM** SAILW0866V.CD\_READ\_20170814

**ORDER** **BY** READ\_TYPE

**SELECT** \* **FROM** SAILW0866V.CD\_ICD10\_BLEED\_20181220

-------------------------------------------------