
Cerner - Millennium Data for Researchers

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VA Informatics &
Computing
Infrastructure

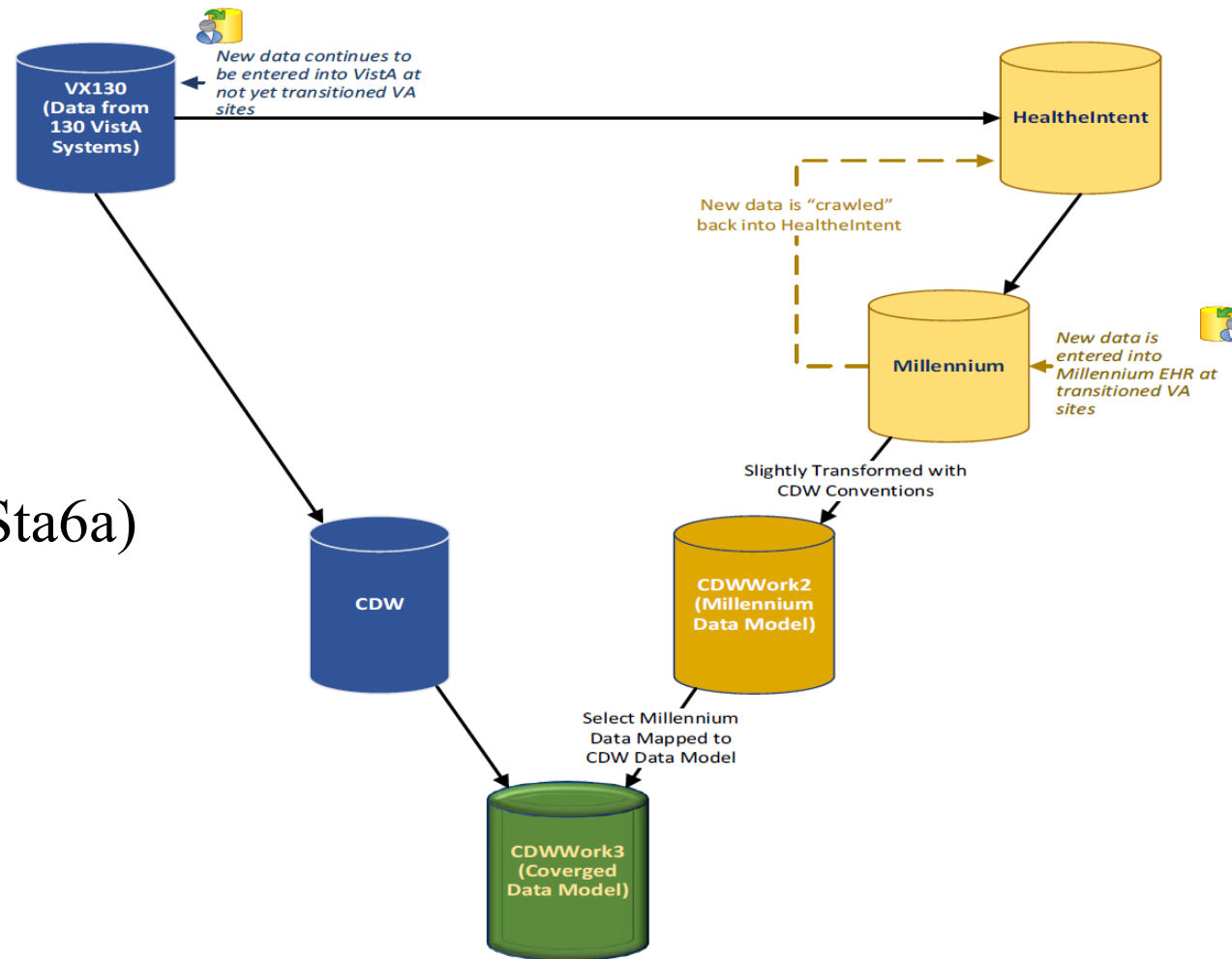


Agenda

- Millennium Data Background
- How to get Millennium Data
 - What is it going to look like in a Research Database
- Resources
- Lessons Learned

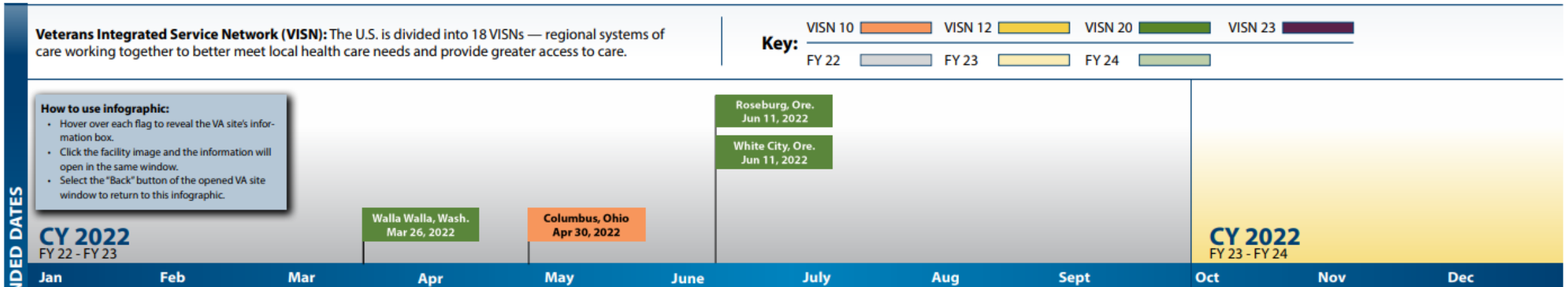
Data Structure

Sta3n vs StaPa (Sta6a)

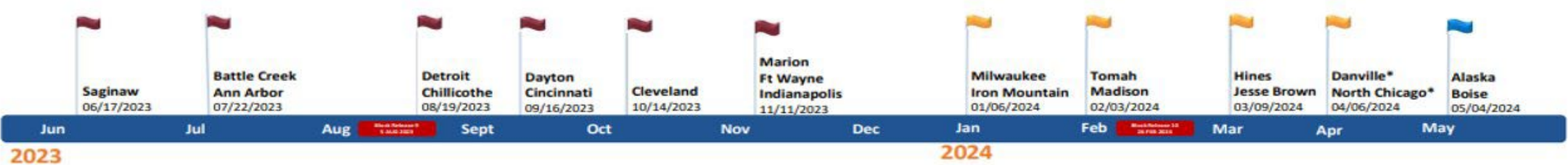


Sites Already Transitioned

Spokane, Wash. 10/24/2020



Timeline for Transition



Currently Forecasted Block & Cube Release

- 28 OCT 2022 - Cube Release
- 18 FEB 2023 – Block Release 8
- 5 AUG 2023 – Block Release 9
- 26 FEB 2024 – Block Release 10
- 5 AUG 2024 – Block Release 11
- 10 FEB 2025 – Block Release 12

*Go Live date dependent on Current State Review funding and execution

Electronic Health Record Modernization Integration Office

Legend

- VISN 10
- VISN 20
- VISN 12
- VISN 23
- VISN 15



Obtaining Millennium Data

- Submit an amendment to DART (Data Sources)



- Look for an email from me
 - Consultation
 - Millennium needs
 - Cohort recreation
 - What to expect
 - Resources

What To Expect In Your ORD Space

- + Src.CohortCrosswalk
- + Src.CohortPatientICN
- + Src.CohortPatientSID
- + Src.CohortPatientSSN
- + Src.CohortScrSSN



- + Src.CohortCrosswalk
- + Src.CohortDescription
- + Src.CohortPatientICN
- + Src.CohortPatientSID
- + Src.CohortPatientSSN
- + Src.CohortScrSSN
- + Src2.CohortPersonSID

- Src.CohortCrosswalk
 - Columns
 - PatientSID (PK, int, not null)
 - ScrSSN (varchar(50), null)
 - PatientSSN (varchar(50), null)
 - PatientICN (varchar(50), null)
 - PatientIEN (varchar(50), null)
 - Sta3n (smallint, null)



- Src.CohortCrosswalk
 - Columns
 - PatientSID (PK, int, not null)
 - ScrSSN (varchar(50), null)
 - PatientSSN (varchar(50), null)
 - PatientICN (varchar(50), null)
 - PatientIEN (varchar(50), null)
 - Sta3n (smallint, null)
 - PersonSID (int, null)
 - PersonID (varchar(50), null)

What To Expect Continued

- + [icon] Src.Outpat_ProblemList
- + [icon] Src.Outpat_VDiagnosis
- + [icon] Src.Outpat_VDiagnosis_Recent
- + [icon] Src.Outpat_VExam
- + [icon] Src.Outpat_Visit
- + [icon] Src.Outpat_Visit_Recent
- + [icon] Src.Outpat_VisitLogic
- + [icon] Src.Outpat_VPatientEd
- + [icon] Src.Outpat_VProcedure
- + [icon] Src.Outpat_VProcedure_Recent
- + [icon] Src.Outpat_VProcedureCPTModifier
- + [icon] Src.Outpat_VProcedureDiagnosis

Src = CDWork

- + [icon] Src2.EncMill_Encounter_NC
- + [icon] Src2.EncMill_EncounterAlias_NC
- + [icon] Src2.EncMill_EncounterAppeal_NC
- + [icon] Src2.EncMill_EncounterAssociatedPerson_NC
- + [icon] Src2.EncMill_EncounterAvoidableDay_NC
- + [icon] Src2.EncMill_EncounterCareCommunication_NC
- + [icon] Src2.EncMill_EncounterCareCommunicationRelation_NC
- + [icon] Src2.EncMill_EncounterCareManagement_NC
- + [icon] Src2.EncMill_EncounterCarePeriod_NC
- + [icon] Src2.EncMill_EncounterCarePeriodActivity_NC
- + [icon] Src2.EncMill_EncounterCarePeriodType_NC

Src2 = CDWork2

- + [icon] Src3.RxOut_RxOutput_EHR
- + [icon] Src3.RxOut_RxOutputFill_EHR
- + [icon] Src3.RxOut_RxOutputSig_EHR

Src3 = CDWork3

Important Factors Impacting Your Cohort

■ Static Cohort vs Live Data

- Patient identifiers being added
 - PatientSIDs
 - PersonSIDs
- Asking your Provisioning Data Manager on the correspondence site for a cohort refresh
 - Monthly, Quarterly, Yearly

Resources

■ VINCI Curated SOPs

- https://vhacdwdwhweb100.vha.med.va.gov/phenotype/index.php/Category:VINCI_SOP

Pages in category "VINCI SOP"

The following 58 pages are in this category, out of 58 total.

A

- VINCI:Addresses (Patient) SOP, VINCI
- VINCI:Age & Gender at Event (VINCI)
- VINCI:All Upcoming Appointments SOP (VINCI)
- VINCI:Appointments - Millennium SOP, VINCI

B

- VINCI:BMI - Millennium SOP, VINCI
- VINCI:BMI (VINCI)

C

- VINCI:Calculate Median, VINCI
- VINCI:CDW Meta Data Search SOP, VINCI
- VINCI:Combat Veterans (VINCI)
- VINCI:COVID-19 SOPs (VINCI)
- VINCI:CPT Codes SOP, VINCI

D

- VINCI:Date of Death SOP, VINCI
- VINCI:Demographic - Millennium SOP, VINCI
- VINCI:Distance (Patient Address from Station) SOP, VINCI

E

- VINCI:EGFR VINCI

F

- VINCI:Facilities SOP, VINCI
- VINCI:Filter By Station SOP, VINCI

G

- VINCI:Get PatientICN - Millennium SOP, VINCI

H

- VINCI:Health Factor - Millennium SOP, VINCI
- VINCI:Hemoglobin A1C SOP (VINCI)

I

- VINCI:ICD Code PIT SOP (VINCI)
- VINCI:ICD Codes - Millennium SOP, VINCI
- VINCI:ICD Codes SOP, VINCI
- VINCI:ICD Procedure Codes SOP, VINCI

L

- VINCI:Labs - Millennium SOP, VINCI
- VINCI:Labs SOP, VINCI
- VINCI>Last VA Visit SOP, VINCI
- VINCI:Living Patients SOP, VINCI
- VINCI:Loop to Pull Counts for Columns, VINCI

M

- VINCI:Medication Adherence (VINCI)
- VINCI:Medications Inpatient - Millennium SOP, VINCI
- VINCI:Medications Outpatient - Millennium SOP, VINCI
- VINCI:Medications SOP, VINCI
- VINCI:Most Closed BMI of Certain Interested Date (VINCI)

N

- VINCI:Name and SSN - Millennium SOP, VINCI
- VINCI:Name and SSN SOP (VINCI)

O

- VINCI:OEF/OIF Veterans (VINCI)

P

- VINCI:Patient Contact - Millennium SOP, VINCI
- VINCI:Patient Flag SOP, VINCI
- VINCI:Period of Service SOP, VINCI
- VINCI:Phone Number SOP (VINCI)
- VINCI:PIT CPT and Procedure Codes SOP (VINCI)
- VINCI:Primary Care Provider - Millennium SOP, VINCI
- VINCI:Primary Care Provider SOP, VINCI
- VINCI:Procedures - Millennium SOP, VINCI

R

- VINCI:Race & Ethnicity (VINCI)
- VINCI:Radiology SOP (VINCI)

S

- VINCI:Search TIU for Keyword, VINCI
- VINCI:Standard Exclusionary Criteria, VINCI
- VINCI:Standard Exclusion - Millennium SOP, VINCI
- VINCI:Stop Codes - Millennium SOP, VINCI
- VINCI:Stop Codes SOP, VINCI

V

- VINCI:VA Veterans Choice Program, (VINCI)
- VINCI:Visits - Millennium SOP, VINCI
- VINCI:Visits SOP, VINCI
- VINCI:Vitals - Millennium SOP, VINCI
- VINCI:Vitals SOP, VINCI

W

- VINCI:Wiki Template (VINCI)



VINCI Data Services Millennium Experts

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Other Teams

- VIREC
- PERC
- REDE
- Cerner SME
- BISL

Lessons Learned

- Identifiers
- Encounters / Visits
- Demographics
- Diagnosis / Procedures
- Primary Care Provider Team
- Health Factors / Power Forms
- Medications

Identifiers

■ PersonSID

- Millennium Identifier
- In CDWork3 the PersonSID is used as the PatientSID

■ PatientICN

- Continues to be the nationwide identifier for the patient
- Will be the same in Vista and Millennium Data

Identifiers Continued

■ Get PatientICN from PersonSID

```
-- X.X   Get all ICN for Cohort
DROP TABLE IF EXISTS #MillICNCohort;

SELECT DISTINCT
    COH.PersonSID
    ,LEFT(SPA.AliasName,10) AS PatientICN -- If you find you have high percentage >5%
INTO
    #MillICNCohort
FROM
    <Cohort, varchar(100), #Cohort> as COH
LEFT JOIN
    Src2.SVeteranMill_SPersonAlias AS SPA
    ON     SPA.PersonSID = COH.PersonSID
        AND SPA.ActiveIndicator = 1
        AND GETDATE() BETWEEN SPA.BeginEffectiveDateTime AND SPA.EndEffectiveDateTime
        AND SPA.AliasPool = 'ICN'
        AND SPA.PersonAliasType = 'Veteran ID'
WHERE
    1 = 1
;
-- XX rows;          XXm:XXs
```

```
-- X.X   Update Cohort with ICN using EDIPI
UPDATE COH
SET COH.PatientICN = D.MVIPersonICN
FROM
    #MillICNCohort AS COH
INNER JOIN
    Src2.SVeteranMill_SPersonAlias AS B
    ON     COH.PersonSID = B.PersonSID
        AND B.ActiveIndicator = 1
        AND GETDATE() BETWEEN B.BeginEffectiveDateTime AND B.EndEffectiveDateTime
        AND B.PersonAliasTypeCodeValueSID= 1800223089 -- 'EDIPI'
INNER JOIN
    Src.SVeteran_SMVIPersonSiteAssociation AS D
    ON     B.AliasName = D.EDIPI
        AND D.MVIAssigningAuthoritySID = 3
        AND (D.ActiveMergedIdentifierCode IS NULL OR D.ActiveMergedIdentifierCode = 'A')
WHERE
    COH.PatientICN IS NULL;
-- XX rows;          XXm:XXs
```

Identifiers Continued

■ Get PersonSID from PatientICN

```
-- X.X Get EDIPI for cohort of PatientICNs

DROP TABLE IF EXISTS #Cohort_With_EDIPI;

SELECT
    COH.PatientICN
    ,D.EDIPI
INTO
    #Cohort_With_EDIPI
FROM
    <Cohort, varchar(100), #Cohort> AS COH
LEFT JOIN
    Src2.SVeteran_SMVIPersonSiteAssociation AS D
    ON      D.MVIPersonICN = COH.PatientICN
    AND D.MVIAssigningAuthoritySID = 3
    AND (D.ActiveMergedIdentifierCode IS NULL OR D.ActiveMergedIdentifierCode = 'A')

-- XX rows;          XXm:XXs
```

```
-- X.X Get PersonSID Added to Cohort

DROP TABLE IF EXISTS #Cohort_With_PersonSID;

WITH CTE AS(
    SELECT
        COH.PatientICN
        ,MILL.PersonSID
    FROM
        #Cohort_With_EDIPI AS COH
    INNER JOIN
        Src2.SVeteranMill_SPersonAlias AS MILL
        ON      LEFT(MILL.AliasName,10) = COH.PatientICN
        AND MILL.ActiveIndicator = 1
        AND GETDATE() BETWEEN MILL.BeginEffectiveDateTime AND MILL.EndEffectiveDateTime
        AND MILL.AliasPool = 'ICN'
        AND MILL.PersonAliasType = 'Veteran ID'

    UNION
    SELECT
        COH.PatientICN
        ,MILL.PersonSID
    FROM
        #Cohort_With_EDIPI AS COH
    INNER JOIN
        Src2.SVeteranMill_SPersonAlias AS MILL
        ON      MILL.AliasName = COH.EDIPI
        AND MILL.ActiveIndicator = 1
        AND GETDATE() BETWEEN MILL.BeginEffectiveDateTime AND MILL.EndEffectiveDateTime
        AND MILL.PersonAliasTypeCodeValueSID= 1800223089
)
SELECT
    A.PatientICN
    ,B.PersonSID
INTO
    #Cohort_With_PersonSID
FROM
    <Cohort, varchar(100), #Cohort> AS A
LEFT JOIN
    CTE AS B
    ON      A.PatientICN = B.PatientICN

-- XX rows;          XXm:XXs
```


Encounters / Visits

```
-- X.X      Get Millennium Visits
DROP TABLE IF EXISTS #MillVisits;
SELECT
    ENC.PersonSID
    --,COALESCE(ENC.RegistrationDateTime, ENC.PreRegistrationDateTime) AS VisitDateTime
INTO
    #MillVisits
FROM
    Src2.EncMill_Encounter AS ENC
INNER JOIN
    Src2.Mill_VALocations AS VALC
ON
    VALC.OrganizationNameSID = ENC.OrganizationNameSID
WHERE
    ENC.BeginEffectiveDateTime <= CAST(GETDATE() AS Datetime2(0))
AND ENC.EndEffectiveDateTime >= CAST(GETDATE() AS Datetime2(0))
AND ENC.ActiveIndicator = 1
AND ENC.EncounterTypeClass IN ('OUTPATIENT', 'EMERGENCY', 'HOME HEALTH', 'RECURRING')
AND (ENC.EncounterType IN
    ('EMERGENCY', 'HOME HEALTH', 'DAY SURGERY', 'OCCUPATIONAL HEALTH'
    , 'TELEHEALTH', 'OUTPATIENT', 'OUTPATIENT IN A BED', 'CARE COORDINATION'
    , 'CARE TRANSITIONS', 'RECURRING', 'HBPC', 'TELEPHONE'
    )
    -- Community Care
    --OR ENC.EncounterType like '%Community%Care%' --Uncomment if community care data is needed
    )
AND COALESCE(ENC.RegistrationDateTime, ENC.PreRegistrationDateTime) >= CAST(DateAdd(MONTH, -XX, GetDate()) AS Datetime2(0))
AND COALESCE(ENC.RegistrationDateTime, ENC.PreRegistrationDateTime) < CAST(GetDate() AS Datetime2(0))
--AND VALC.STAPA = 'XXXXX'--Uncomment out this line if need to limit StaPa
```

Encounters / Visits Continued

```
SELECT
    ENC.PersonSID
    --,CASE
    -- WHEN ENC.DischargeDateTime < GETDATE() THEN ENC.DischargeDateTime
    -- ELSE COALESCE(ENC.InpatientAdmitDateTime, ENC.RegistrationDateTime)
    -- END AS VisitDateTime
FROM
    Src2.EncMill_Encounter AS ENC
INNER JOIN
    Src2.Mill_VALocations AS VALC
    ON VALC.OrganizationNameSID = ENC.OrganizationNameSID
WHERE
    ENC.BeginEffectiveDateTime <= CAST(GETDATE() AS Datetime2(0))
    AND ENC.EndEffectiveDateTime >= CAST(GETDATE() AS Datetime2(0))
    AND ENC.ActiveIndicator = 1
    AND (ENC.EncounterType in ('Inpatient','SNF Inpatient','Observation')
        -- Community Care
        --OR ENC.EncounterType in ('Community Care Inpatient','Community Care SNF') --Uncomment if community care data is needed
    )
    AND (
        (COALESCE(ENC.InpatientAdmitDateTime, ENC.RegistrationDateTime) >= CAST(DateAdd(MONTH, -XX, GetDate()) AS Datetime2(0))
        AND COALESCE(ENC.InpatientAdmitDateTime, ENC.RegistrationDateTime) < CAST(GetDate() AS Datetime2(0)))
        OR
        (ENC.DischargeDateTime >= CAST(DateAdd(MONTH, -XX, GetDate()) AS Datetime2(0))
        AND ENC.DischargeDateTime < CAST(GetDate() AS Datetime2(0)))
    )
    --AND VALC.STAPA = 'XXXXX'--Uncomment out this line if need to limit StaPa
```

Demographics

```
-- X.X    Get Demographics

DROP TABLE IF EXISTS #MillPatientDemographic;

SELECT DISTINCT
    COH.PatientICM
    ,COH.PersonSID
    ,SP.Race
    ,SP.EthnicGroup
    ,SP.Sex
    ,SP.BirthDateTime
    --,SP.MaritalType
    --,SP.Religion
    ,CAST(DATEDIFF(DAY, SP.BirthDateTime, GETDATE())/365.25 AS INT) AS Age --If they
INTO
    #MillPatientDemographic
FROM
    <Cohort, varchar(100), #Cohort> AS COH
LEFT JOIN
    Src2.SVeteranMill_SPerson AS SP
    ON      SP.PersonSID = COH.PersonSID
        AND SP.ActiveIndicator = 1
        AND GETDATE() BETWEEN SP.BeginEffectiveDateTime AND SP.EndEffectiveDateTime
WHERE
    1 = 1

-- XX rows;          XXm:XXs
```

Demographics Continued

```
62 Select Distinct
63   Sex
64 FROM
65   CDWork2.SVeteranMill.SPerson
66 ORDER BY
67   Sex
```

110 %

Sex	
1	*Implied NULL*
2	*Missing*
3	*Unknown at this time*
4	Female
5	Male
6	Unknown/undifferentiated

```
61
62 Select Distinct
63   Race
64 FROM
65   CDWork2.SVeteranMill.SPerson
66 ORDER BY
67   Race
```

110 %

Race	
1	*Implied NULL*
2	*Missing*
3	*Unknown at this time*
4	American Indian or Alaska Native
5	Asian
6	Black or African American
7	Native Hawaiian or Pacific Islander
8	Other Race
9	White

```
62 Select Distinct
63   EthnicGroup
64 FROM
65   CDWork2.SVeteranMill.SPerson
66 ORDER BY
67   EthnicGroup
```

110 %

EthnicGroup	
1	*Implied NULL*
2	*Missing*
3	*Unknown at this time*
4	Hispanic or Latino
5	Not Hispanic or Latino
6	zMultiple

Diagnosis/Procedures

- Cerner Millennium is a commercial product
- VA does not typically do billing
- Diagnosis and Procedures
 - Extracted from same domains
 - Can exist in Billing or Encounter or Both

Diagnosis/Procedures Continued

```
-- X.X Look Up ICD Codes

SELECT DISTINCT
  NC.SourceIdentifier AS [ICD10 Code]
  ,NC.SourceString AS [ICD10 Description]
FROM
  CDWork2.NDimMill.Nomenclature AS NC
WHERE
  (REPLACE(NC.SourceIdentifier, '.', '') LIKE 'XXX%' -- Enter ICD
  --AND REPLACE(NC.SourceIdentifier, '.', '') NOT LIKE 'XXX%'
  )
  AND NC.PrincipleType = 'Disease or Syndrome'
  AND NC.SourceVocabulary = 'ICD-10-CM'
  AND NC.ActiveIndicator = 1
  AND NC.SourceString IS NOT NULL
ORDER BY
  NC.SourceIdentifier;

-- XX rows;          XXm:XXs

-- X.X Create DIM Table for ICD Code

DROP TABLE IF EXISTS #MillDiagnosisSID_XXX;

SELECT DISTINCT
  NC.NomenclatureSID
  INTO
  #MillDiagnosisSID_XXX
FROM
  CDWork2.NDimMill.Nomenclature AS NC
WHERE
  (REPLACE(NC.SourceIdentifier, '.', '') LIKE 'XXX%' -- Enter ICD
  --AND REPLACE(NC.SourceIdentifier, '.', '') NOT LIKE 'XXX%'
  )
  AND NC.PrincipleType = 'Disease or Syndrome'
  AND NC.SourceVocabulary = 'ICD-10-CM'
  AND NC.ActiveIndicator = 1;

-- XX rows;          XXm:XXs
```

```
-- X.X Look Up Procedure Codes

SELECT
  NC.SourceIdentifier
  ,NC.SourceString
  ,NC.SourceVocabulary
  ,NC.ContributorSystem
FROM
  CDWork2.NDimMill.Nomenclature AS NC
WHERE
  REPLACE(NC.SourceIdentifier, '.', '') LIKE 'XXX%' -- Ente
  AND NC.PrincipleType = 'Procedure'
  AND NC.SourceVocabulary IN ( 'CPT4', 'HCPCS', 'ICD-10-PCS')
  AND NC.ActiveIndicator = 1
ORDER BY
  NC.SourceIdentifier

-- XX rows;          XXm:XXs

-- X.X Create DIM Table for Procedure Code

DROP TABLE IF EXISTS #MillProcedureSID_XXX;

SELECT
  NC.NomenclatureSID
  INTO
  #MillProcedureSID_XXX
FROM
  CDWork2.NDimMill.Nomenclature AS NC
WHERE
  REPLACE(NC.SourceIdentifier, '.', '') LIKE 'XXX%' -- Ente
  AND NC.PrincipleType = 'Procedure'
  AND NC.SourceVocabulary IN ( 'CPT4', 'HCPCS', 'ICD-10-PCS')
  AND NC.ActiveIndicator = 1

-- XX rows;          XXm:XXs
```

Primary Care Provider Team

- RPCMM is authoritative source

```
;WITH CTE_Patient AS
(
  SELECT *
  FROM (
    SELECT
      COH.PatientICN
      --,COH.PersonSID
      ,PA.AliasName AS EDIPI
      ,ROW_NUMBER()OVER(PARTITION BY AliasName ORDER BY PA.ActiveStatus) AS RN
    FROM
      <Cohort, varchar(100), #Cohort> AS COH
    INNER JOIN
      Src2.SVeteranMill_SPersonAlias AS PA
    ON
      COH.PersonSID = PA.PersonSID
    WHERE
      PA.AliasPoolCodeValueSID = 1800015320
      AND (PA.ActiveIndicator = 1 OR PA.ActiveStatus = 'Combined')) AS Z
  WHERE
    RN = 1
)
```

```
],CTE_Staff AS (
  SELECT
    SP.Namelast AS PCP_LastName
    ,SP.NameFirst AS PCP_FirstName
    ,PA.AliasName AS StaffEDIPI
    --,SP.Email AS PCP_Email
    ,SP.PositionTask AS PCP_PositionTitle
  FROM
    Src2.SStaffMill_SPersonStaff AS SP
  INNER JOIN
    Src2.SStaffMill_SPersonStaffAlias AS PA
  ON
    SP.PersonStaffSID = PA.PersonStaffSID
  WHERE
    PA.AliasPoolCodeValueSID = 1800592474
    AND SP.ActiveIndicator = 1
    AND PA.ActiveIndicator = 1
)
```

Primary Care Provider Team Continued

```
CTE_Final AS(
SELECT
    P.PatientICN
    ,S.PCP_LastName
    ,S.PCP_FirstName
    ,S.PCP_PositionTitle
    --,S.PCP_Email
    ,A.RelationshipStartDate AS PCP_RelationshipStartDate
    ,A.InstitutionCode AS PCP_FacilityCode
    ,I.OfficialVAName AS PCP_Facility
    ,Dense_Rank () OVER (PARTITION BY COH.PatientICN, A.Sta3n Order By A.RelationshipStartDate DESC) AS DRank
FROM
    SPV.RPCMM.CurrentPatientProviderRelationship AS A
INNER JOIN
    CDWork.NDim.RPCMMTeam AS B
    ON A.RPCMMTeamSID = B.RPCMMTeamSID
INNER JOIN
    CDWork.NDim.RPCMMTeamRole AS TR
    ON A.PrimaryProviderTeamRoleSID = TR.RPCMMTeamRoleSID
INNER JOIN
    CTE_Patient AS P
    ON A.PatientIEN = P.EDIPI
    AND A.PatientSID = 0 -- To get facilities transitioned to Millennium
LEFT JOIN
    CTE_Staff AS S
    ON A.PrimaryProviderIEN = S.StaffEDIPI
INNER JOIN
    CDWork.Dim.Institution AS I
    ON I.InstitutionCode = A.InstitutionCode
    AND I.Sta3n = A.Sta3n
WHERE
    A.RelationshipStartDate <= CAST(GETDATE() AS DateTime2(0))
    AND ( A.RelationshipEndDate IS NULL
    OR A.RelationshipEndDate >= CAST(GETDATE() AS DateTime2(0))
    AND TR.PrimaryCarePositionIndicator = 'Y'
    AND A.PCMSTDTeamCareType_ID IN ('7', '13') --Primary Care Team care type
    AND A.TeamPatientAssignStatus = 'Active'
    AND A.PrimaryCarePositionFlag = 'Y'
)
Select Distinct
    PatientICN
    ,PCP_LastName
    ,PCP_FirstName
    ,PCP_PositionTitle
    ,PCP_RelationshipStartDate
    --,PCP_Email
    ,PCP_FacilityCode
    ,PCP_Facility
INTO
    #MillPrimaryCareProvider
FROM
    CTE_Final
WHERE
    DRank = 1;
```


Health Factors / Power Forms

- Health Factors and Surveys are in Power Forms
 - On our SOP you can see the large DIM table creation
- Additional Source is Social History Data
 - TaskAssay from CareChartMill.SocialHistoryActivityResponse

TaskAssay	
1	*Implied NULL*
2	*Missing*
3	*Unknown at this time*
4	Completed Smoking Cessation Education
5	Describe Your Child
6	Education About Screen Time Given
7	Exercise TPW
8	Have Any Fears or Worries?
9	Home Equipment
10	Home Schooled
11	How Do You Deal With Your Fears?
12	How Do You Feel About Yourself?
13	phys act con
14	phys act inten
15	Reason Cessation Teaching Not Completed
16	School District
17	School Grade
18	School Name
19	School Phone Number
20	School Psychologist/Counselor/Nurse
21	School Psychologist/Counselor/Nurse Phon
22	Screen Time Hours Per Day
23	Services Children Receive
24	SHX Activity level work
25	SHX Agency(s)/Others notified

26	SHX Alcohol abuse in household
27	SHX Alcohol amount average
28	SHX Alcohol amount max
29	SHX Alcohol amount at risk
30	SHX Alcohol Date Last Used
31	SHX Alcohol drinks more than intended
32	SHX Alcohol frequency
33	SHX Alcohol household concern
34	SHX Alcohol previous treatment
35	SHX Alcohol readiness to change
36	SHX Alcohol started drinking age
37	SHX Alcohol stopped drinking age
38	SHX Alcohol type
39	SHX Alcohol use
40	SHX Alcohol use interfere with work
41	SHX Are your partners?
42	SHX Average Cigarette packs per day
43	SHX Caffeine intake
44	SHX Cigarette use
45	SHX Concerns for family members at home
46	SHX Condition self assessment
47	SHX Diet
48	SHX Diet description
49	SHX Diet restrictions
50	SHX E-Cigarette Frequency of Duration

51	SHX E-Cigarette Passive Exposure
52	SHX E-Cigarette Started At Age
53	SHX E-Cigarette Stopped At Age
54	SHX E-Cigarette type
55	SHX E-Cigarette use
56	SHX Eating disorders
57	SHX Employment/School status
58	SHX Environment risks
59	SHX Exercise duration
60	SHX Exercise type
61	SHX Exposure to Secondhand Smoke
62	SHX Family/Friends available to help
63	SHX Feels stressed
64	SHX Feels unsafe at home
65	SHX Financial concerns
66	SHX Gender Identity
67	SHX Guardian Information
68	SHX Hazardous equipment operation
69	SHX Highest education level
70	SHX History of sexual abuse
71	SHX Injuries/Abuse in household
72	SHX Injuries/Abuse type
73	SHX IV drug use
74	SHX Lives with
75	SHX Living situation

76	SHX Major illness in household
77	SHX Marital Status of Parents
78	SHX Marital Status of Patient
79	SHX Name of agencies notified
80	SHX Number of current partners
81	SHX Number of lifetime partners
82	SHX Other contraceptive use
83	SHX Other employment/school concerns
84	SHX Other history details
85	SHX Other history name
86	SHX Other sexual concerns
87	SHX Other Tobacco type
88	SHX Other Tobacco use
89	SHX Preferred pronouns
90	SHX Previous employment/school
91	SHX Primary Care Giver
92	SHX Religious restrictions
93	SHX Safe place to go
94	SHX School concerns
95	SHX School Type
96	SHX Sexual orientation
97	SHX Sexually active
98	SHX Sexually active at age
99	SHX Sibling Information
100	SHX Sleeping concerns

101	SHX Smokeless Tobacco use
102	SHX Smoker in household
103	SHX Spouse Name
104	SHX Substance abuse frequency
105	SHX Substance abuse household concern
106	SHX Substance abuse in household
107	SHX Substance abuse interfered with work
108	SHX Substance abuse previous treatment
109	SHX Substance abuse readiness to change
110	SHX Substance abuse started at age
111	SHX Substance abuse stopped at age
112	SHX Substance abuse type
113	SHX Substance abuse use
114	SHX Tobacco amount per day
115	SHX Tobacco number of years
116	SHX Tobacco previous treatment
117	SHX Tobacco readiness to change
118	SHX Tobacco started at age
119	SHX Tobacco stopped at age
120	SHX Tobacco total pack years
121	SHX Tobacco type
122	SHX Tobacco use
123	SHX Total years of smoking cigarettes
124	SHX Uses alternative healthcare
125	SHX Uses condoms

126	SHX Vitamins/Supplements
127	SHX Wants to lose weight
128	SHX Work hazards
129	SHX Work/School description
130	Sleep number of hours per night
131	Smoking/Tobacco Cessation Teaching co...
132	Special Services and Community Resources

Medications

- Medications are difficult
 - No true DIM table to search for medication names
 - Outpatient vs Inpatient need different logic

- Suggest if you are diving in deeply to medications to join one of the Millennium Rx Work Groups.



QUESTIONS??

