DATABASE & METHODS CYBERSEMINAR SERIES

FY24 Session #:5

Understanding VA-Purchased Community Care Claims and Referrals from the Office of Integrated Veteran Care Consolidated Data Set (IVC_CDS)

February 5, 2024

Hosted by **VIReC**

Erin Beilstein-Wedel, MA

Data Analyst, Access and Community Care Engagement Network Team (ACCENT)

DATABASE & METHODS CYBERSEMINAR SERIES

Informational seminars to help VA researchers access and use VA databases.

Sessions cover…

- VA data sources & data access systems

- Application of VA data to research and quality improvement questions

- Limitations of secondary data use

- Resources to support VA data use

UPCOMING DATABASE & METHODS SESSIONS

First Monday of the month | 1:00pm-2:00pm ET

Date	Topic
3/4/2024	Understanding and Accessing the Office of Connected Care's Patient-Generated Health Data (PGHD) Database

Visit the VIReC Database & Methods Cyberseminar page for more information & registration links.

Visit HSR&D's VIReC Cyberseminar Archive page to watch previous sessions.

Where can I download a copy of the slides?

SAMPLE EMAIL

A Practical Approach to Working with VA-Purchased Community Care Data

Thursday, October 13, 2022
2:00 PM | (UTC-04:00) Eastern Time (US & Canada) | 1 hr

Please download today's slides
~~Please click here for today's live captions~~

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Join from the webinar link
https://veteransaffairs.webex.com/veteransaffairs/j.php?

DATABASE & METHODS CYBERSEMINAR SERIES

FY24 Session #:5

Understanding VA-Purchased Community Care Claims and Referrals from the Office of Integrated Veteran Care Consolidated Data Set (IVC_CDS)
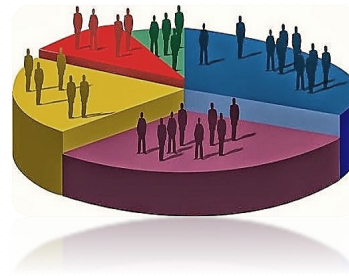
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Poll #1:

*What is your primary **role** in projects using VA data?*

- Investigator, PI, Co-I
- Statistician, methodologist, biostatistician
- Data manager, analyst, or programmer
- Project coordinator
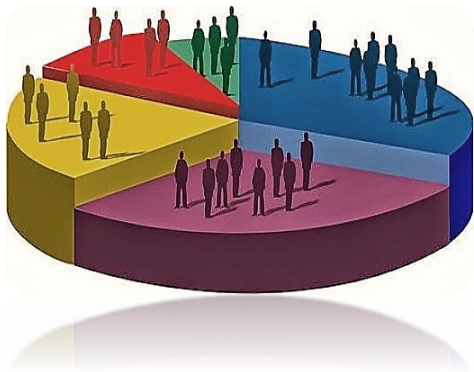- Other – please describe via the chat function

Poll #2:

How many years of experience working with VA data?

- None – I'm brand new to this!
- One year or less
- More than 1, less than 3 years
- At least 3, less than 7 years
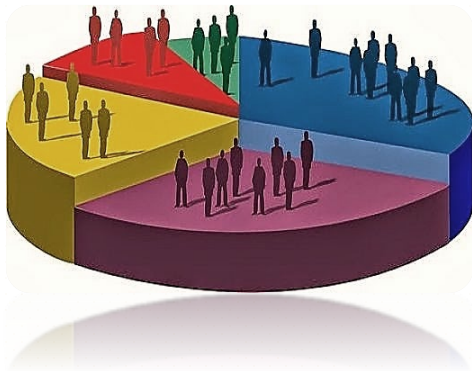- At least 7, less than 10 years
- 10 years or more

Poll #3:

How familiar are you with VA-Purchased Community Care Data?

- No knowledge

- I only have experience with Fee, FBCS or PIT.

- I have analyzed data from ivc_cds (I may or may not have experience with Fee, FBCS or PIT).

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Poll #4:

How do you plan to use community care data?

- Not sure, I'm here to find out more!
- I'm interested mostly in utilization.
- I'm interested mostly in cost.
- Other

Discussants

- Megan Vanneman, PhD (IDEAS / ACCENT)

- Ciaran Phibbs, PhD (Health Economics Resource Center)

- Vilija Joyce, MS (Health Economics Resource Center)

Session roadmap

- Overview of VA-Purchased Community Care

- IVC_CDS Referrals

- IVC_CDS Claims

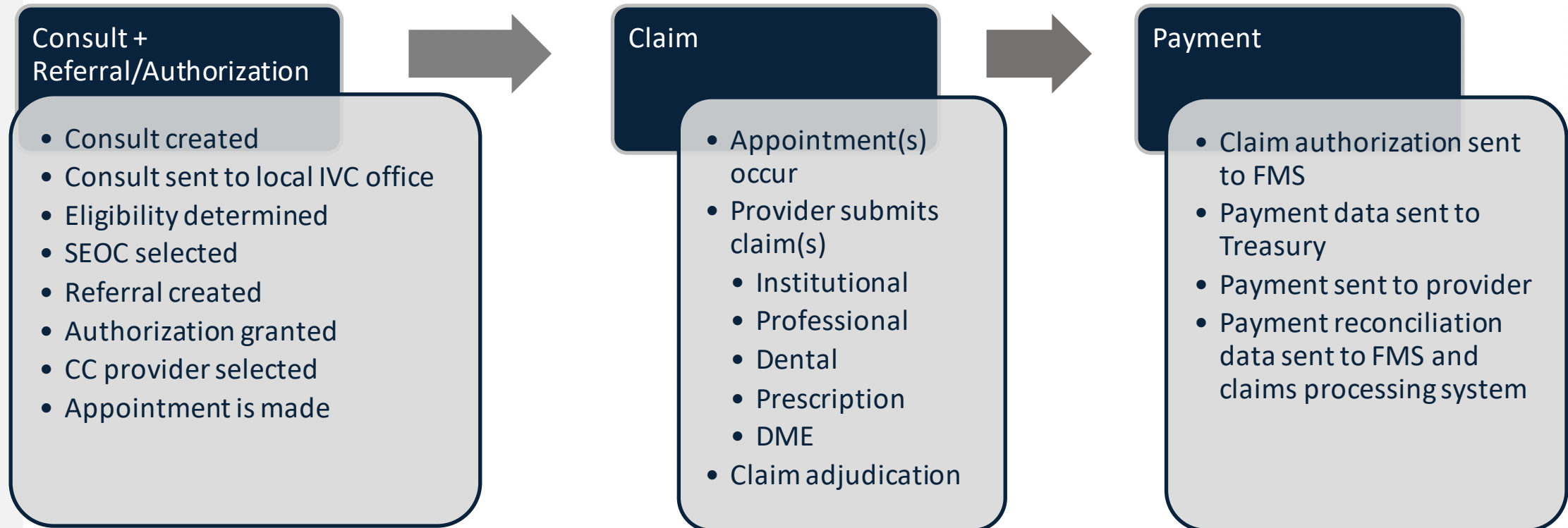- Other IVC_CDS tables

VA-Purchased Community Care Overview

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Overview: What is VA-Purchased Community Care?

- **VA-purchased Care: care paid for by the VA but delivered by providers outside a VA facility**
  - The Office of Integrated Veteran Care (IVC) oversees VA-purchased care
  - Community Care (CC)
    - This care can take place in a multitude of settings
    - Providers could be VA staff at an academic affiliate, DoD providers, Indian Health Services/Tribal Health Program providers, or non-VA providers.
  - Family Member Benefit Program Care
    - Similar to CC, but not part of the contracts that drive CC
    - Often in same databases as CC
    - E.g.: Camp Lejeune FMP, Spina Bifida Health Care Benefits Program, etc.

- **VA-provided Care: care delivered in VA Healthcare Systems (VAHCS) and other VA facilities**

Overview: Community Care Process

Consult + Referral/Authorization

- Consult created
- Consult sent to local IVC office
- Eligibility determined
- SEOC selected
- Referral created
- Authorization granted
- CC provider selected
- Appointment is made

Claim

- Appointment(s) occur
- Provider submits claim(s)
  - Institutional
  - Professional
  - Dental
  - Prescription
  - DME
- Claim adjudication

Payment

- Claim authorization sent to FMS
- Payment data sent to Treasury
- Payment sent to provider
- Payment reconciliation data sent to FMS and claims processing system

SEOC: Standardized Episode of Care
DME: Durable Medical Equipment
FMS: Financial Management System

Accessing/Requesting IVC_CDS Data
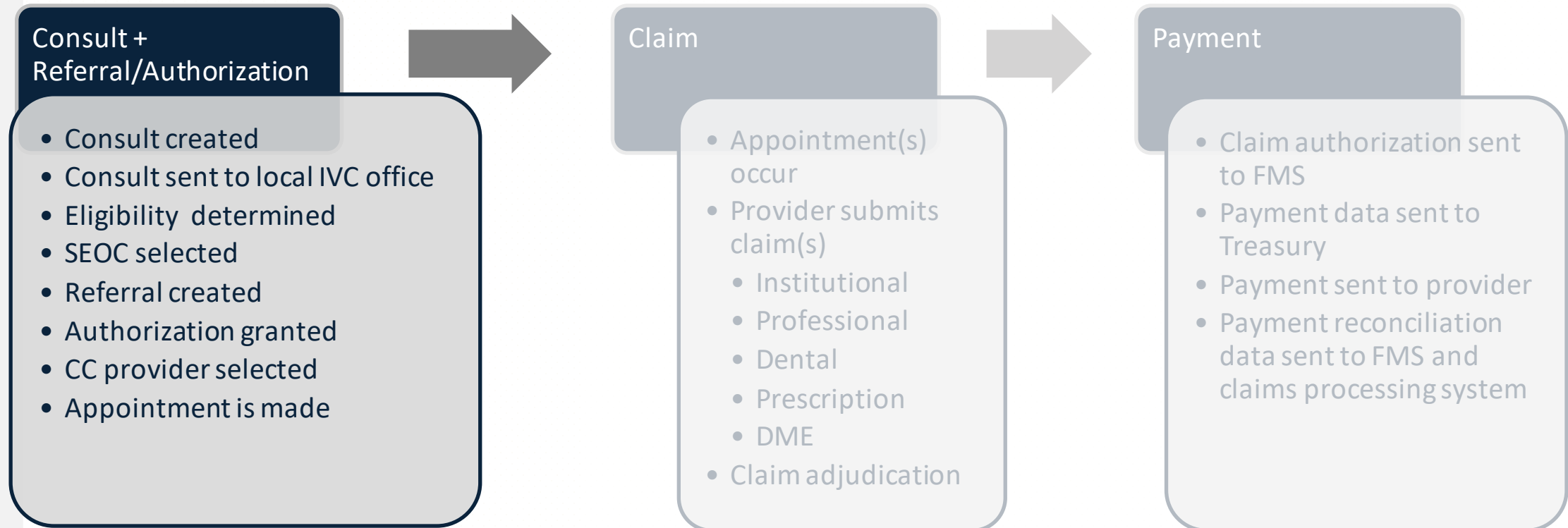
- **Operations:**
  - ePAS: Privileged Read Patient Access (CDW_SPatient)
  - Server: A06
  - Database: CDWWork

- **Research:**
  - DART
    - Real SSN

      Homeless Veterans Registry (Disclaimer)

      IVC Consolidated Data Sets - Real SSN approval required

   Lung Cancer Screening Demonstration Project (LCSDP) Cohort

Referrals

Community Care Process: Referrals

Consult + Referral/Authorization

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IVC_CDS Referrals Data in VA Data Context
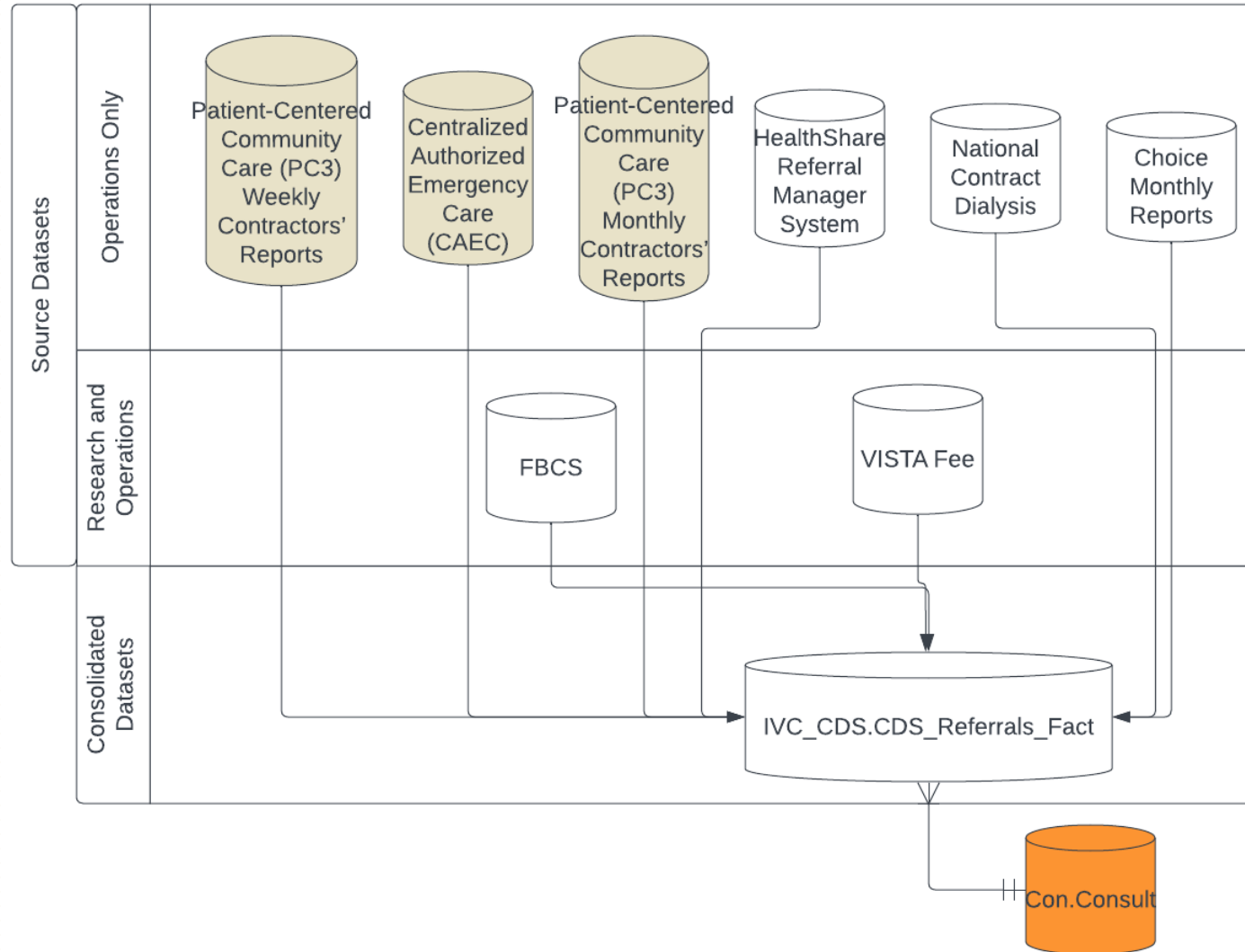
CDS Referrals Table

- Table name: CDS_Referrals_Fact

- Date range: referrals created FY 2018 forward

- One row per: referral
  - Unique Key: ReferralSID
  - May see "duplicates"

- Patient Identifiers
  - PatientICN
  - PatientSSN

CDS Referrals Table Contents

- Type of care referral is for:
  - SEOC
  - CatofCare_Modality

- Referral Status

- Dates related to referral
  - To and From date
  - Accepted
  - First Appointment Made
  - Initial Care Given
  - Episode of Care (EOC) Completed

- Referring facility

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Possible Research Questions

- How many Veterans were referred to the community for Mental Health vs VA?

- How long did it take for a Veteran to receive care in the community?

- How have referral patterns changed over time?

- How many Veterans were referred out to community care, but returned to the VA?

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Tips on Using CDS Referrals Data

- Use ReferralCreateDate field in "where" clause
  - ReferralStatus, ReferralFromDate, and ReferralToDate have NULLs
  - Is partition key for data from RB03

```
from [VINCI_IVC_CDS].[IVC_CDS].[CDS_Referrals_Fact]
where ReferralCreateDate >= convert(date,'2022-10-01')
```

- ReferralStatus
  - In Process: "Approved", "Sent", "Accepted", "Accepted Retro", "First Appointment Made"
  - Referral resulted in at least 1 visit: "Initial Care Given", "Active", "EOC Complete", "Closed"

- Issues with some fields; consult the Source Data Elements document

Tips on Using CDS Referrals Data

- **I'm seeing duplicate referrals! What should I do?**
  - IVC and VSSC have done their best to remove duplicates, so any "duplicates" you see may accurately reflect the truth.

- **Should I limit to [IsInActiveStatus] = 'Y'?**
  - IVC generally does not use the IsInActiveStatus, but it depends on the type of data needed.
  - Won't capture rejected, denied, returned, etc. referrals

- **Happens rarely, but if you see many NULL PatientICNs: wait a day to pull data.**
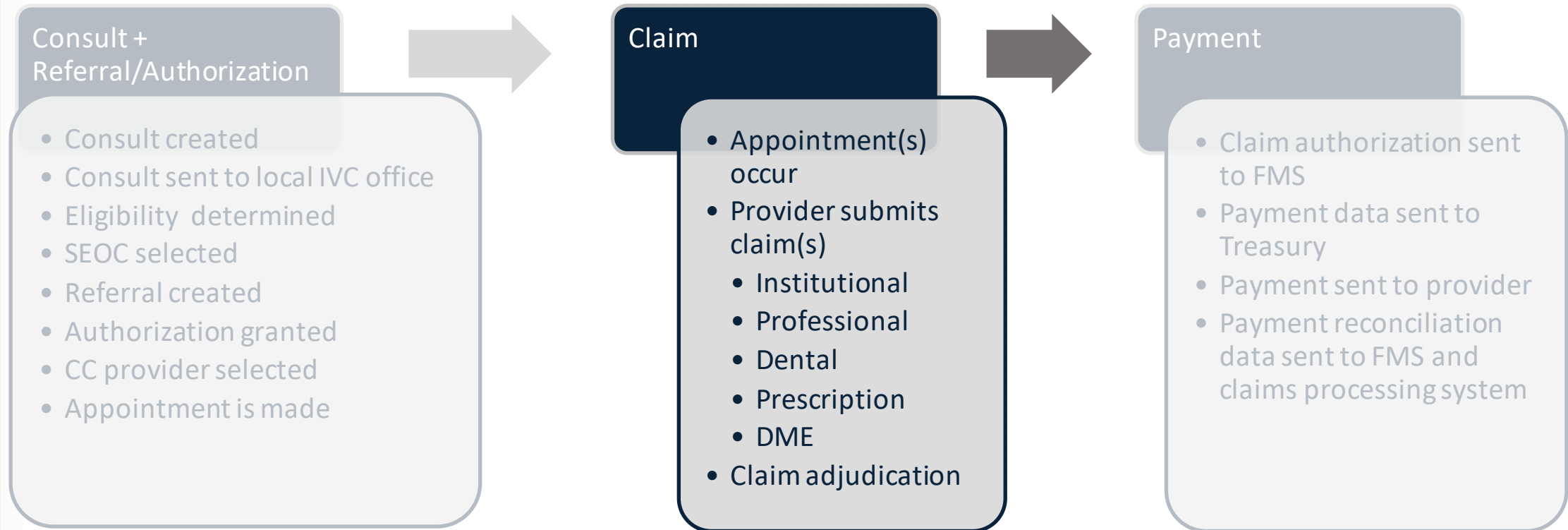
Operations DOEx

- The DOEx from SQL52 will be decommissioned

- Groups using the DOEx should switch to the tables in the ivc_cds schema in CDWWork on A06

DOEx: Data Object Exchange

Claims

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Community Care Process: Claims

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# IVC_CDS Claims Data in VA Data Context
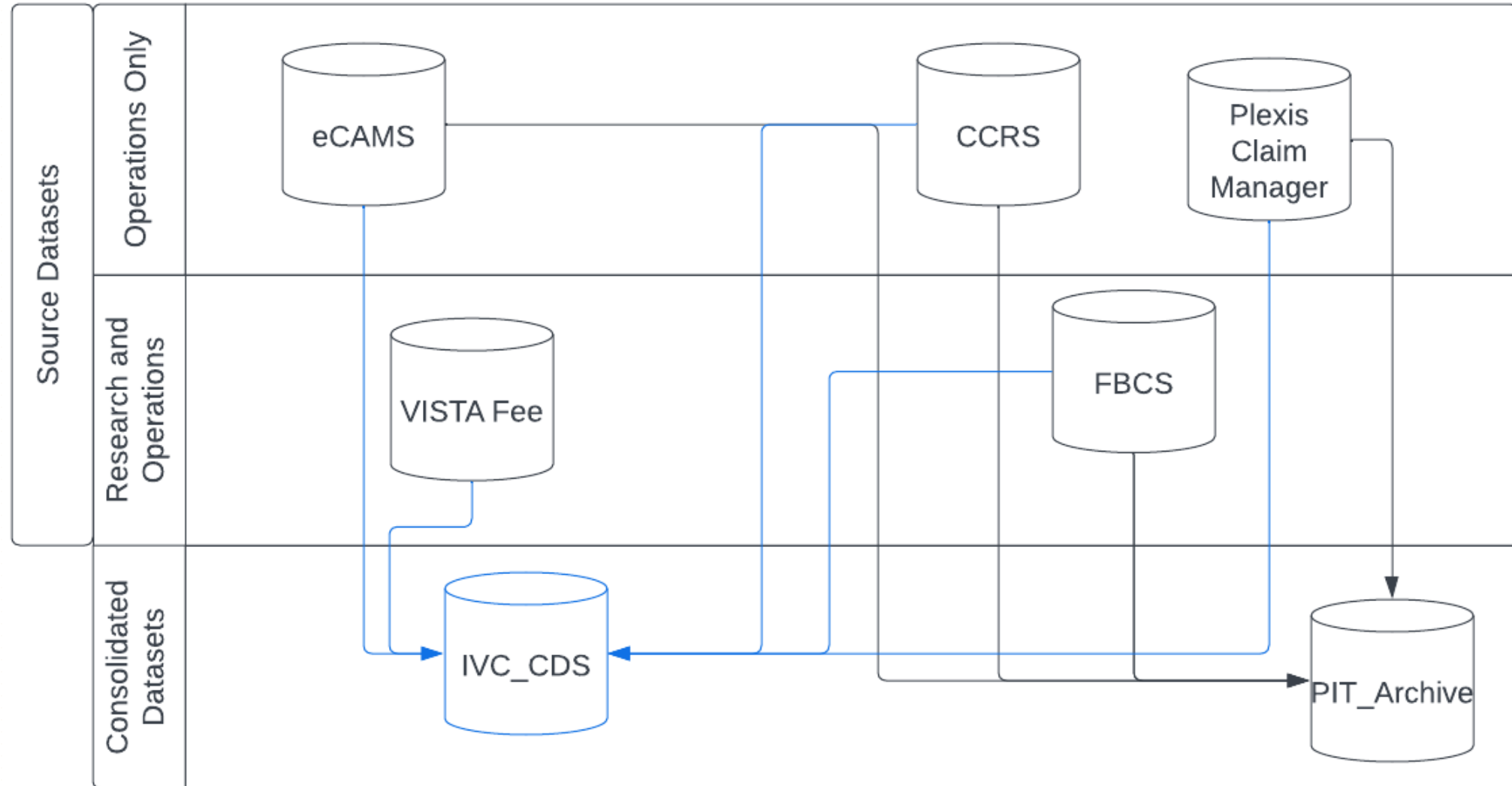
Which Dataset(s) should I use?

- Which claims dataset(s) should I use?
  - Need pharmacy claims: PIT_Archive + Fee
  - Need data FY19 forward <u>only</u> (and no pharmacy): ivc_cds
  - Need data pre-FY19 – January 2023: PIT_Archive* + Fee
  - Need data pre-FY19 – current
    - PIT_Archive* + Fee (through January 2023) AND
    - ivc_cds (February 2023 and later)

*The Office of Integrity and Compliance (owners of PIT) does not want reserachers using PIT_Archive data past FY19. However, given differences between PIT_Archive, Fee, and CDS, we have found it best not to use multiple datasets when using pre-FY19 to January 2023 data, and thus have recommended only using PIT_Archive and Fee. One must use CDS data starting in February 2023 as PIT_Archive data is not currently available during this period.

CDS Claim Tables

Figure 1. Diagram of the IVC CDS Claim Tables

DR-IVC-CDS.pdf (va.gov)

Database & Methods Series
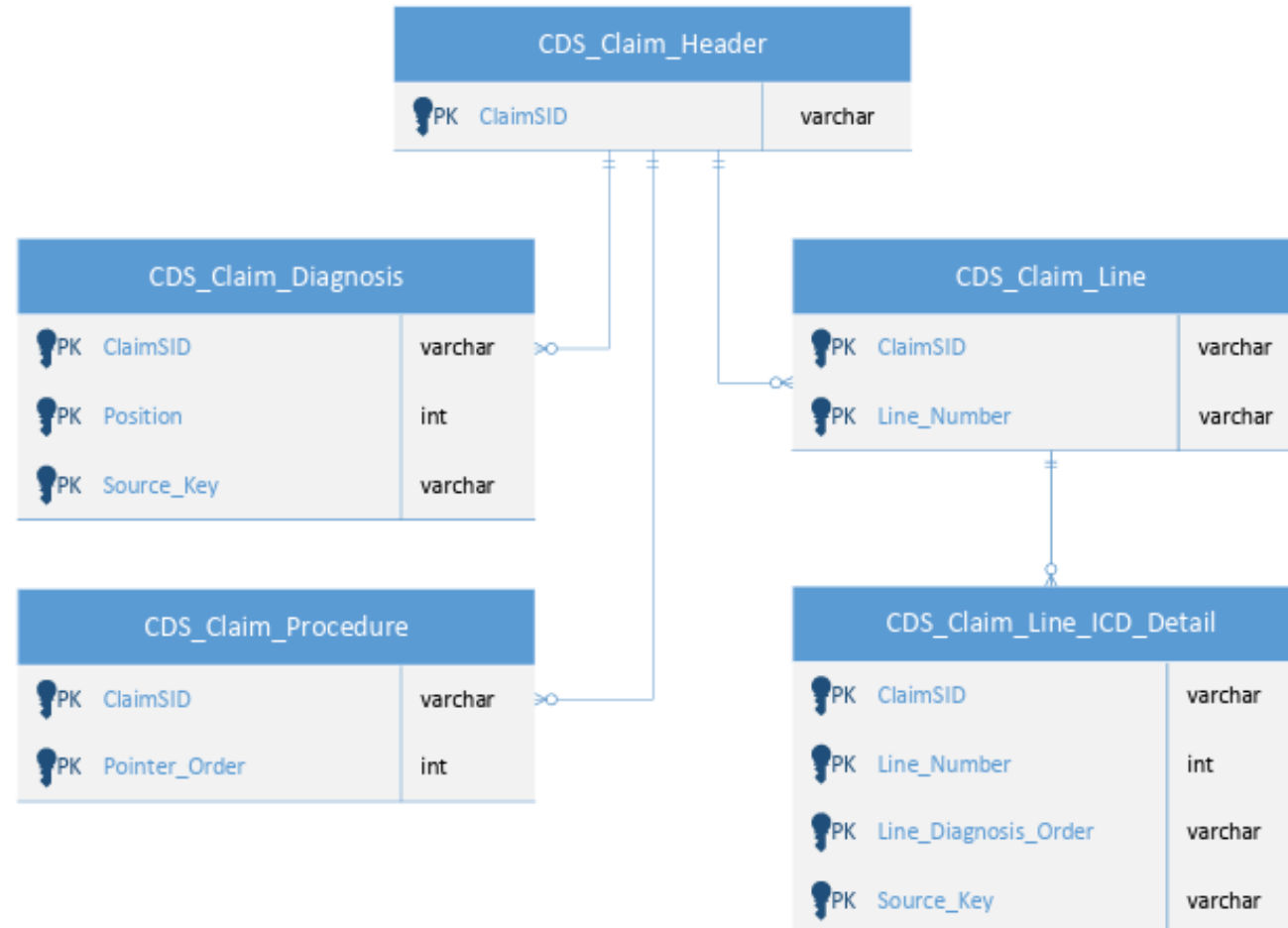
CDS Claims Table

- Date range: FY 2019 forward

- One row per:
  - CDS_Claim_Header: claim
  - CDS_Claim_Procedure: ICD procedure code
  - CDS_Claim_Diagnosis: ICD diagnosis code
  - CDS_Claim_Claim_line: claim line
    - CPT and Revenue Center codes
  - CDS_Claim_Line_ICD_Detail: diagnosis per line

- Patient Identifiers
  - PatientICN
  - PatientSSN

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CDS Claims Table Contents

- Dates
  - Of care
  - Of payments

- Type of Care
  - Bill Type and Place of Service Codes
  - Revenue Center Codes
  - Procedure Codes (CPT and ICD procedure codes)

- Diagnoses

- Identify providers

- Care Cost

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Duplication in CDS Claims Table

- FBCS + FEE

- FBCS + eCAMS

- eCAMS (rejected/denied) + CCRS

- Same PatientICN + Date + CPT, different station

CDS Claim Table: Differences between Operations and Research

- Partition Keys

Table	Partition Field	Data Type
CDS_Claim_Header	Service_Start_Date	Date
CDS_Claim_Line	Service_Start_Date	Date
CDS_Claim_Procedure	Procedure_Date	Date

```
FROM [VINCI_IVC_CDS].[IVC_CDS].[CDS_Claim_Header]
where service_start_date >= convert(date,'2022-10-01')
```

- Deactivated ICNs:
  - Does not apply to VINCI provisioned data/ data on RB03
  - N ICNs = 1,229 (as of 01/29/2024)
  - Operations users should look at (S)Veteran.(S)MVIPerson

Tips for Working With Claims Data

How do I find [specific procedures, care types or diagnoses] in claims data?

- Investigate how topic is billed or identified in private sector, Medicare, or journal articles

- Look at AHRQ and/or CMS measures

- ER Visits: Place of Service Code, Revenue Codes, and CPT codes

- HCPCS II codes for medications given during visit

Tips for Working With Claims Data

Which claim type (institutional or professional) should I look at?

- Not all services have a professional and institutional claim
  - Visit to a chiropractor: professional only
  - Pre-op visit: (likely) professional only
  - Ambulatory Surgery
    - In ambulatory surgery center: professional only
    - In outpatient hospital: institutional
  - Inpatient stay: institutional (and likely also) professional
    - e.g., Anesthesiologist
  - But! Sometimes claims are "missing"
    - Sent to Medicare or private insurer
    - Not submitted (unusual)

Other CDS Tables

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Other CDS Tables and Contents

- CDS_CC_DimFacility: VA facility associated with referral or claim
  - One row per: sta6a/institutioncode

- CDS_Referrals_DimCatOfCareGroupMapping: Crosswalk to consolidated categories of care

CatOfCare_Modality	CatOfCare_ModalityGroup
HOME HEALTH OT	SKILLED HOME HEALTH CARE
HOME HEALTH PT	SKILLED HOME HEALTH CARE
HOME HEALTH RN	SKILLED HOME HEALTH CARE

- CDS_CC_DimPatientDemographics: Patient-level information
  - One row per: PatientICN

- CDS_CC_DimRace: dimension table for patient race

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CDS ERD
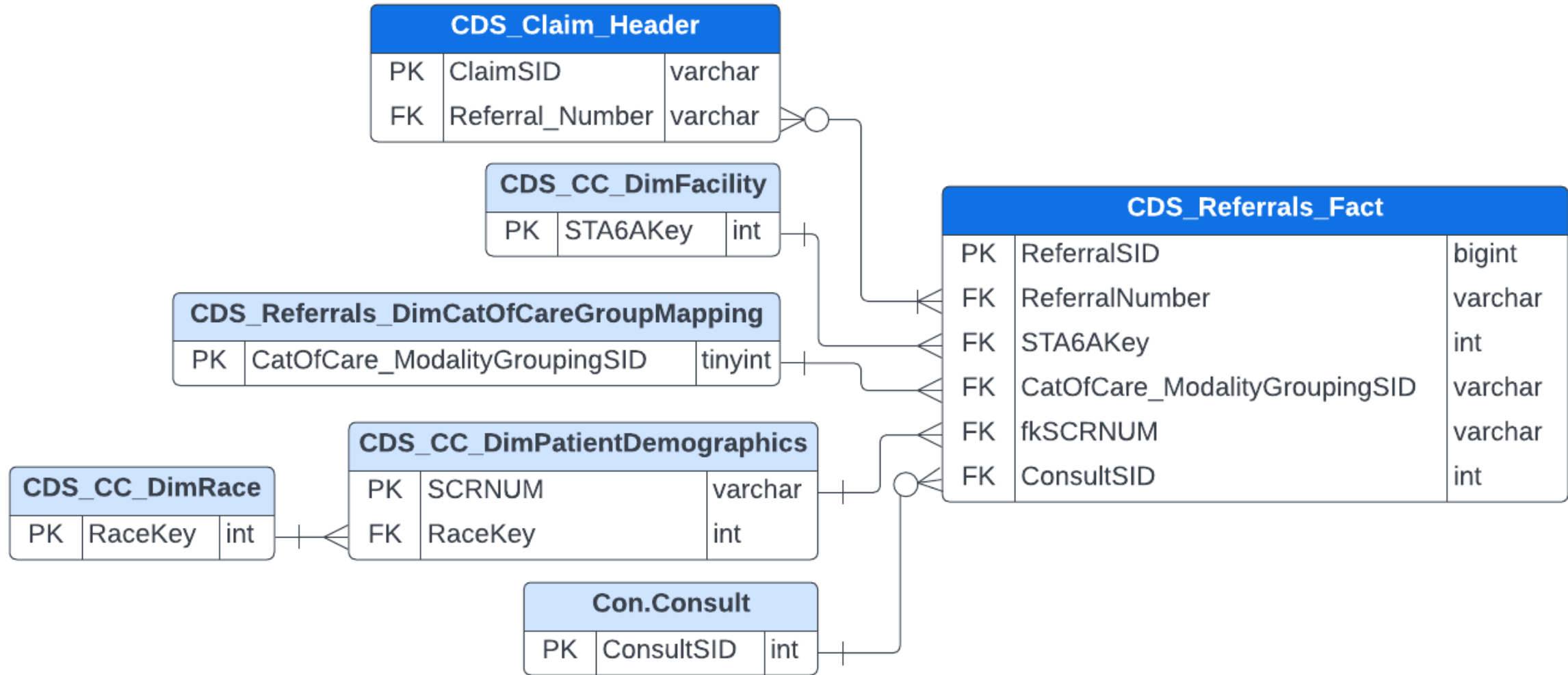
Next for IVC_CDS

- Revising claims tables to add additional payment variables

- Claim Payments

- Pharmacy data added to claims

Other Datasets of Use

- VA
  - Patient Identifiers: SMVI or Spatient
  - SEOC database: "allowable health care services" specific to a specialty for referrals

- Non-VA
  - NPPES
    - VINCI SAS Grid: cms_pblc libname
    - Contains x12 (taxonomy) codes for providers (individual and professional)
  - Berenson-Eggers Type of Service (BETOS) classification 2.0
    - Based off of HCPCs/CPTs

IVC_CDS Resources

- **VIReC**
  - CDS Claims Data Review
  - CDS (Plexis) Claims Data review
  - CDS Referrals Data Review

- **ACCENT**
  - Code to find inpatient hospital stays

- **Data Portal**
  - Integrated Veteran Care Consolidated Data Set (va.gov)

Community Care Resources

- VA Specific
  - Community Care Data Portal
  - HERC Community Care Data Page
  - ACCENT Community Care Resources

- General
  - Research Data Assistance Center (ResDAC)
  - CMS Medicare Claims Processing Manual

Thank you

- ACCENT Core

- Noreen Arnold & VIReC

- IVC IIA group

- VINCI

- The field!

THANK YOU!
Questions?

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CONTACT INFORMATION

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Engagement Network Team (ACCENT)

accent.data@va.gov

DATABASE & METHODS CYBERSEMINAR SERIES

Next session:
3/4/2024 at 1 pm Eastern

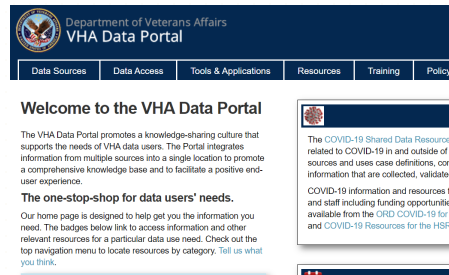Understanding and Accessing the Office of Connected Care's Patient-Generated Health Data (PGHD) Database

Database & Methods
BONUS SLIDES
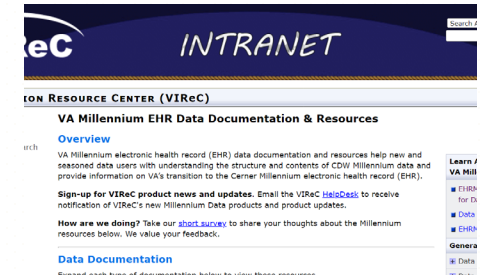
Resources for *VA Data Users*

Select image to visit page

VA Information Resource Center (VIReC) (VA Intranet)

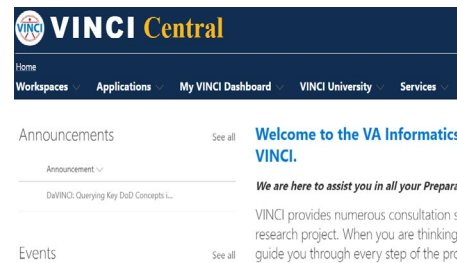VHA Data Portal (VA Intranet)
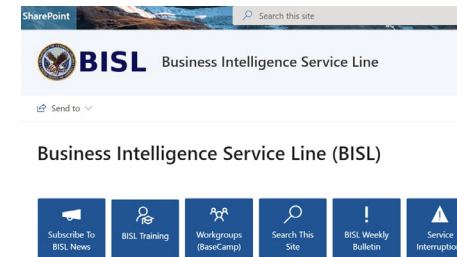

VIReC Cyberseminars

VA Millennium EHR Data Documentation (VA Intranet)

Quick Guide: Resources for Using VA Data (VA Intranet)

VA Informatics and Computing Infrastructure (VINCI) (VA Intranet)

BISL/CDW (VA Intranet)

Health Economics Resource Center (HERC) (VA Intranet)

HSRData Listserv

o Community knowledge sharing

o ~1,400 VA data users

o Researchers, operations, data stewards, managers

o Subscribe by visiting
vaww.virec.research.va.gov/Support/HSRData-L.htm (VA Intranet)

VIReC HelpDesk

o Individualized support

o Request Form:
varedcap.rcp.vaec.va.gov/redcap/surveys/?s=KXMEN77LXK (VA Intranet)

Questions about using VA Data?