



**VA**

U.S. Department  
of Veterans Affairs

# VA COVID-19 Shared Data Resource

**UPDATE**

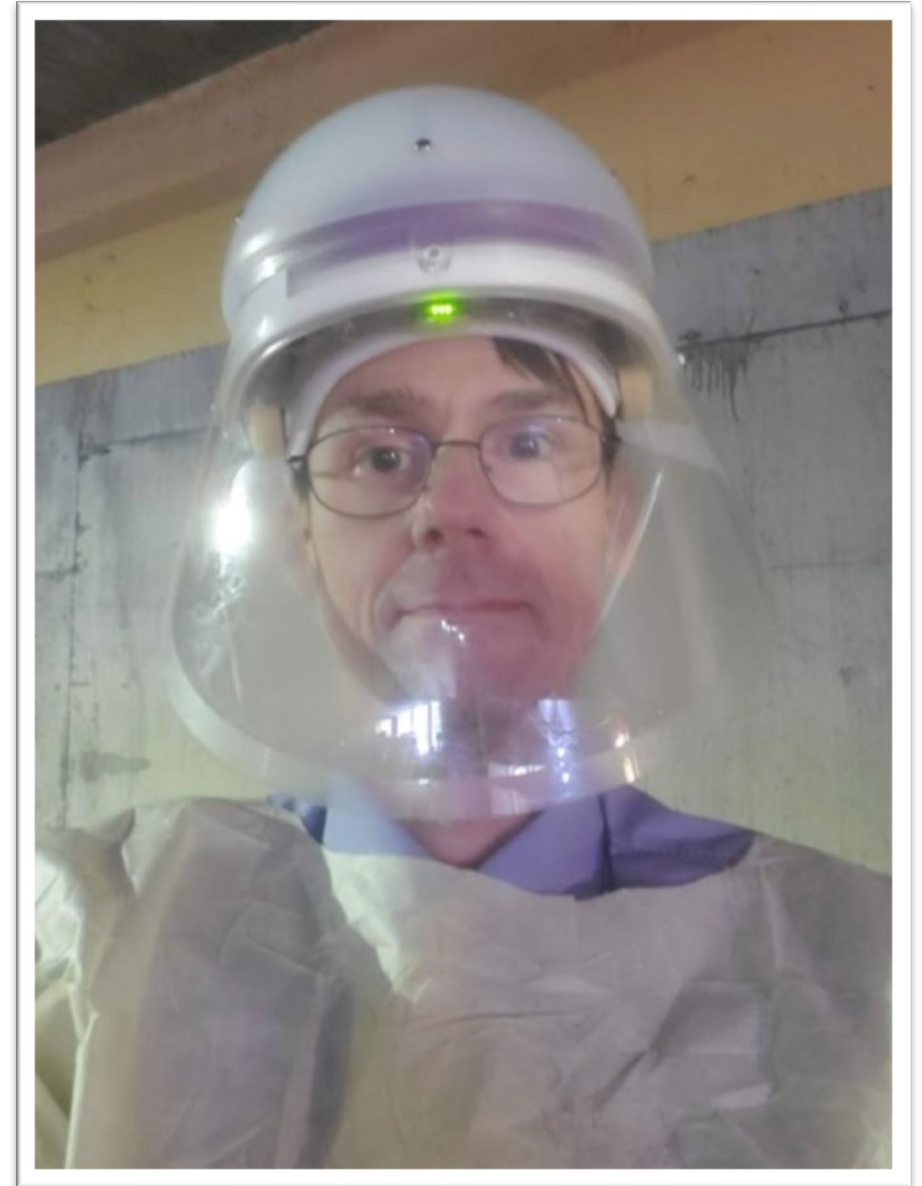


VA Informatics  
and Computing  
Infrastructure



# THANK YOU

front-line clinicians  
care givers  
all those who are serving





Where to learn & how to access

VA Phenomics Library

Thank you  
MVP!

[https://vhacdwdwhweb100.vha.med.va.gov/  
phenotype/index.php/  
COVID-19:Shared\\_Data\\_Resource](https://vhacdwdwhweb100.vha.med.va.gov/phenotype/index.php/COVID-19:Shared_Data_Resource)



# How can I help?

- Reporting a COVID data quality issue
- Reporting a COVID data access issue
- Asking a COVID data question
- Offering to help with validation
- Offering to contribute mappings
- Requesting new data elements
- Other...

**[vinci@va.gov](mailto:vinci@va.gov)**



What do I get access to?

VA COVID-19 Shared Data Resource

is a **DATA DOMAIN**

population of patients that meet your study criteria

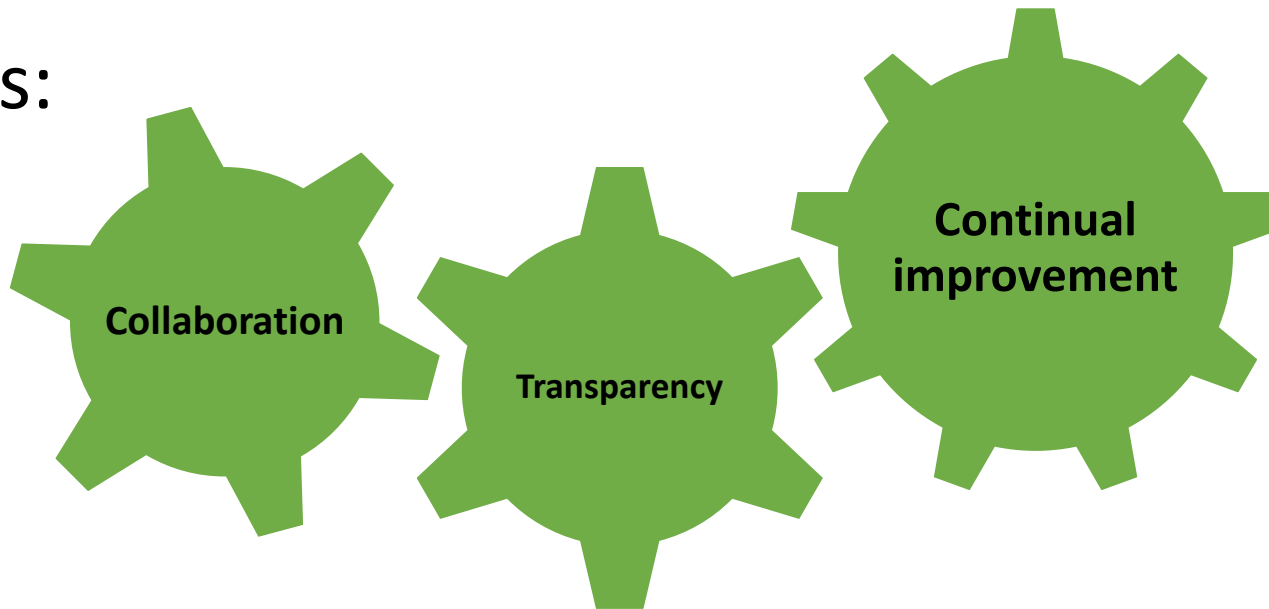
is your **STUDY COHORT**



# VA COVID-19 Shared Data Resource

- Goal:
  - Provide value as **quickly** and **consistently** as possible

- Process:





# Collaboration

- Makoto Jones
- Kelly Peterson
- Adrienne Murray
- BASIC team, VA SLC
- Barb Jones
- Joe Francis
- Tami Box
- Jack Bates
- Jennifer Knowlden
- Andrew Price
- Penchala Kankanala
- Mahikpreet Kaur
- Hans Nelson
- Matthew Wollner
- Dan Hardan
- Thomas Huneke
- Trinity Hall
- BISL and VINCI IT
- Evan Carey
- Craig Kreisler
- Tom Glorioso
- Rian DeFaccio
- Fran Cunningham
- Ashir Shumunov
- Kwan Hur
- Mark Holodniy
- Gina Oda
- Cynthia Lucero
- Patricia Schirmer
- Jonathan Nebeker
- Kristine Lynch
- Michael Matheny
- Elise Gatsby
- Ben Viernes
- Kevin Malohi
- Olga Patterson
- Patrick Alba
- Hannah Eyre
- Jennifer Ling
- Jeff Rogers
- Olga Efimova
- Tori Anglin-Foote
- Benji Lambson
- Steven J. Oostema
- Andrew Holbrook
- Lu Zhenyu
- Brian Robison
- Jiantao Bian
- Steve Johnson
- Aize Cao
- Daniel Park
- Vincent Messina
- Jason Denton
- Kushan Hewa
- Liz Hanchrow
- Abigail Hillard
- Jeffrey Ferraro
- Shaoyu Su
- Qingzhu Liu
- Ramana Seerapu



# Collaboration

- Kim Bloom
- Greg Coronado
- Kristi Gregory
- Holly Andreason
- Camille Bateman
- Cara Shimizu
- David Kotter
- Lacy Castleton
- Lindsay Tanzer
- Tiffany Quilter
- Della Richter
- Chris Ledding
- Jay Tucker
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- Nevin Taylor
- Udara Abeysekara
- Chris Wilson
- Will Tolbert
- Deborah Eddy
- Chris Halladay
- Hamid Saoudian
- Sumitra Muralidhar
- Michael Gaziano
- Stacey Whitbourne
- Phil Tsao
- Chris O'Donnell
- Kelly Cho
- Anne Ho
- Jeffrey Gosian
- David Gagnon
- Hanna Gerlovin
- Katherine Kurgansky
- Dan Posner
- Adriana Hung
- Amy Justice
- Chris Rentsch
- Melissa Skanderson
- Janet Tate
- George Hauser
- Joseph Goulet
- Farah Kidwai-Khan
- Lesley Park
- MVP-CHAMPION
- David Au
- Michael Ho
- Sarah Haeger
- Tyler Wieman
- Corey Walsh
- Abigail Bryant
- Amber Fleck
- Eric Cross
- Michael Klausner
- Kevin Duan
- Scott Powers
- Todd Wagner
- Nicholas Smith
- Jonathan Sugimoto
- Sarah Keithly
- Walid Gellad
- Paul Heidenreich





# Collaboration


- Aditya Sharma
  - Sonia Duffy
  - Adam Chow
  - Paul Barnett
  - Rose Ignacio
  - Yoko Ogawa
  - Kristin de Groot
  - Scot Dingman
  - Palantir Integrated
- Project Team
- OHDSI COVID Collaboration
  - Cooperative Studies Program
  - CSPEAR
  - ORD COVID Steering Committee
  - Michael Conlin
- Sean Nugent
  - Matthew Maciejewski
  - Alexandra Neuhaus-Follini
  - David Atkins
  - Grant Huang
  - Rachel Ramoni
  - and many more...



# Collaboration

pre index observations

post index observations

 COVID-19 case

**index date = date of COVID-19 case**

-

|

 COVID-19 case with hospitalization up to 15 days before

|

**index date = admit date of hospitalization up to 15 days before date of COVID-19 case**

|



index date



# Collaboration

pre index observations

post index observations

conditions

labs

medications

procedures



index date



# Collaboration

pre index observations

post index observations

conditions

conditions

labs

labs

**phenotypes**

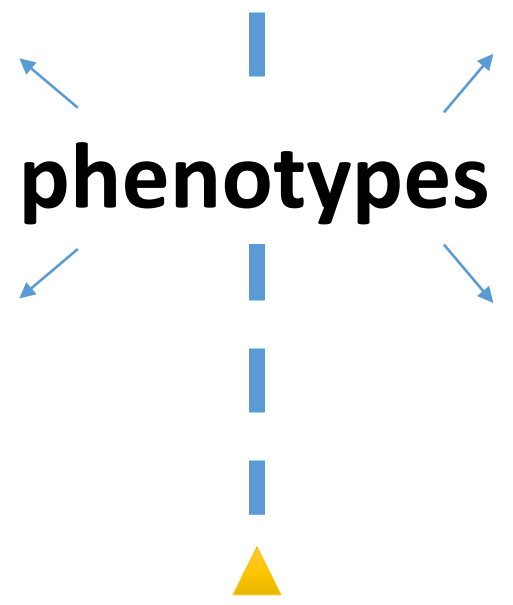
medications

medications

procedures

procedures

index date





# Collaboration

***formula:***  
***anchor + phenotype + observation period***

table name

column name



# Collaboration

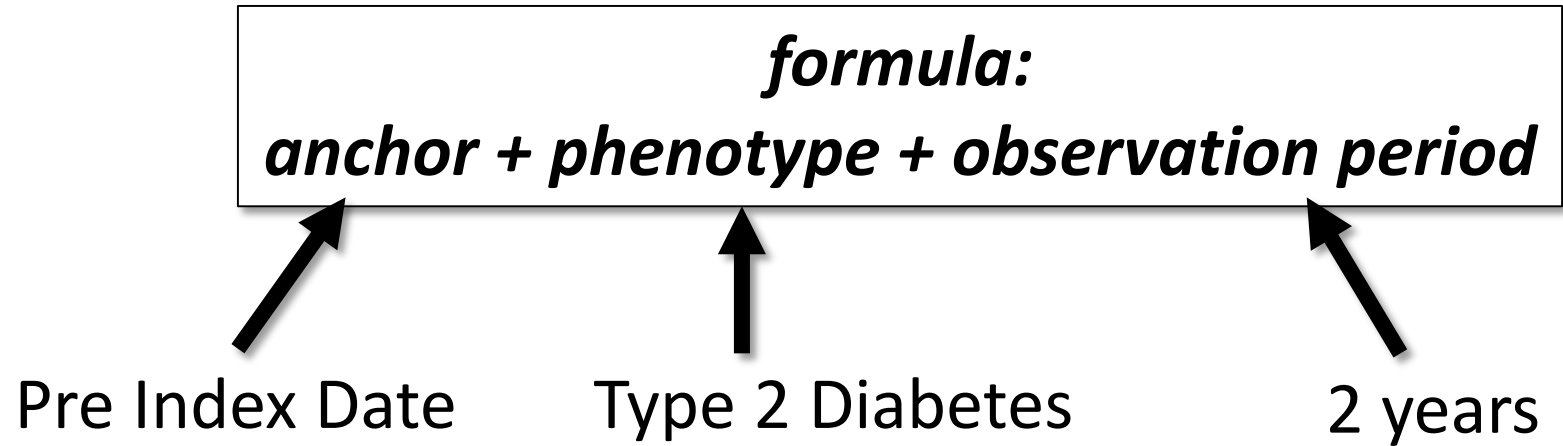


table name: ORDCOVID\_PreIndexConditions  
column name: DiabetesType22yrs



# Collaboration

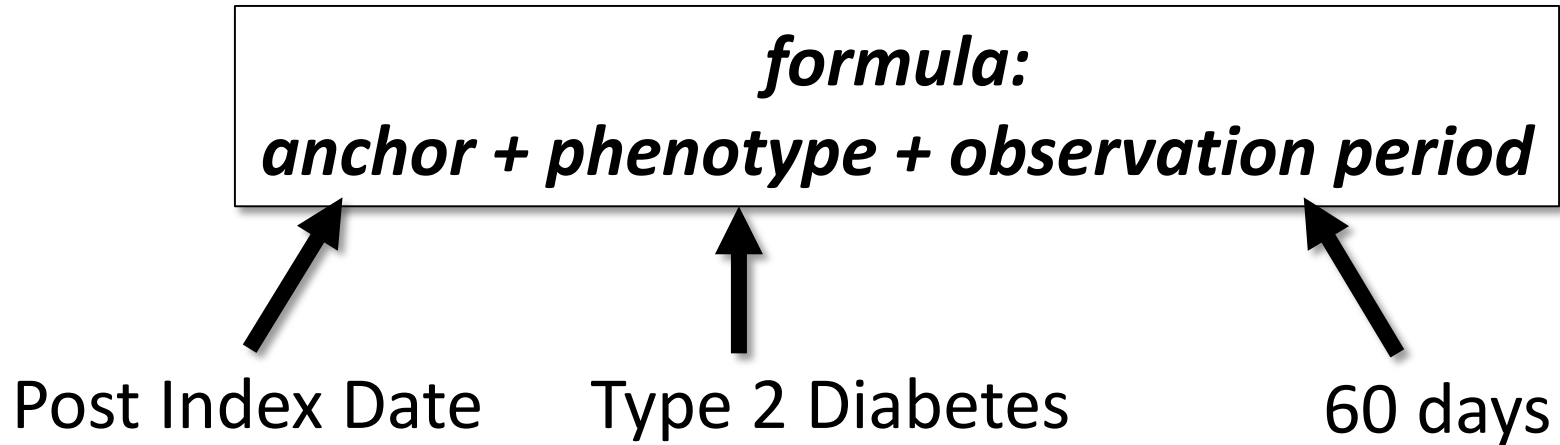


table name: ORDCOVID\_PostIndexConditions

column name: DiabetesType260d

DiabetesType2OccurrenceType

NULL = not yet 60 days or present

0 = Neither pre nor post index

1 = incident (post, but no pre index)

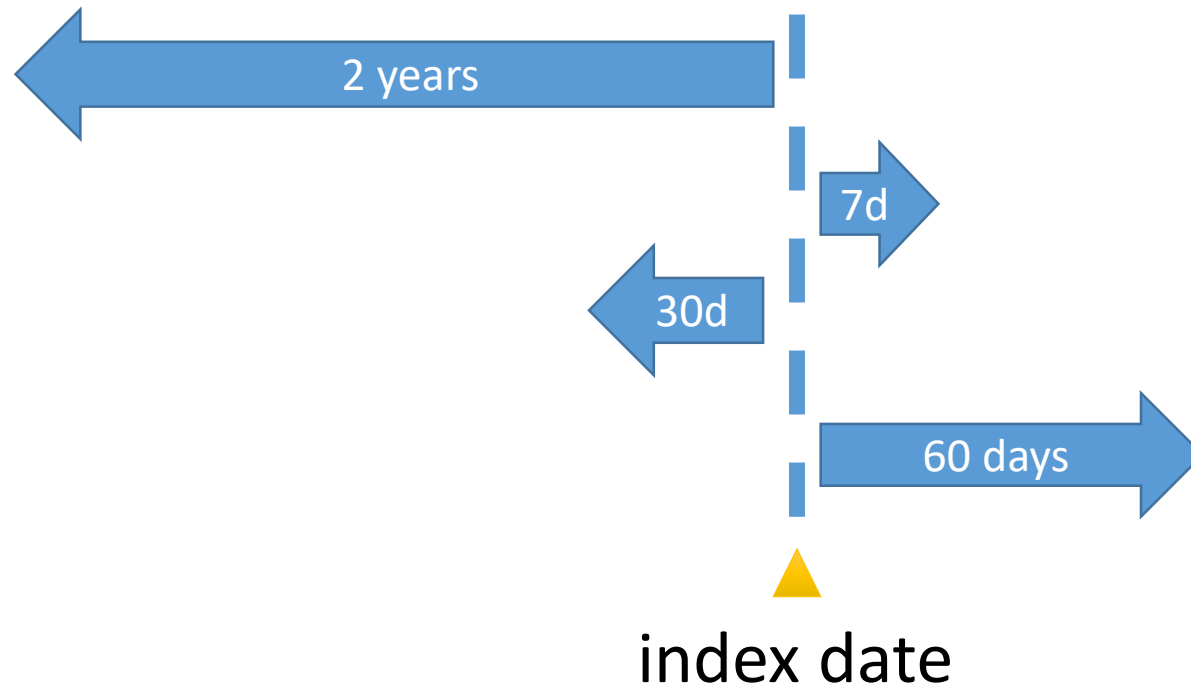
2 = prevalent (pre and post index)



# Collaboration

pre index observations

post index observations







# Collaboration

pre index observations

post index observations



ORDCOVID\_PreIndexConditions  
ORDCOVID\_PreIndexMedications



index date

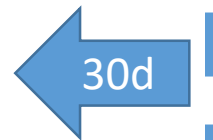


# Collaboration

pre index observations

post index observations

ORDCOVID\_PreIndexSymptoms



index date



# Collaboration

pre index observations

post index observations



ORDCOVID\_PostIndexConditions  
ORDCOVID\_PostIndexMedications  
ORDCOVID\_PostIndexProcedures



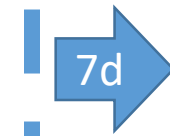
index date



# Collaboration

pre index observations

post index observations



ORDCOVID\_PostIndexLabs



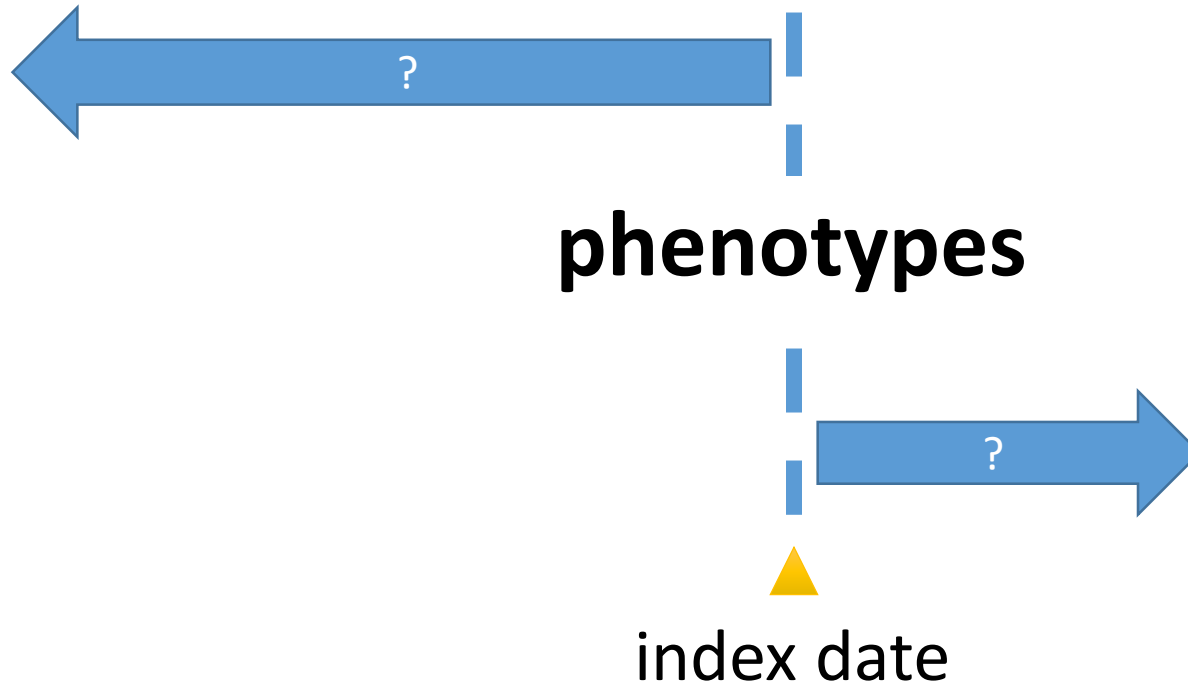
index date



# Collaboration

pre index observations

post index observations





# Collaboration

- Requested phenotypes

**[vinci@va.gov](mailto:vinci@va.gov)**



# Collaboration

- Frequently Asked Questions

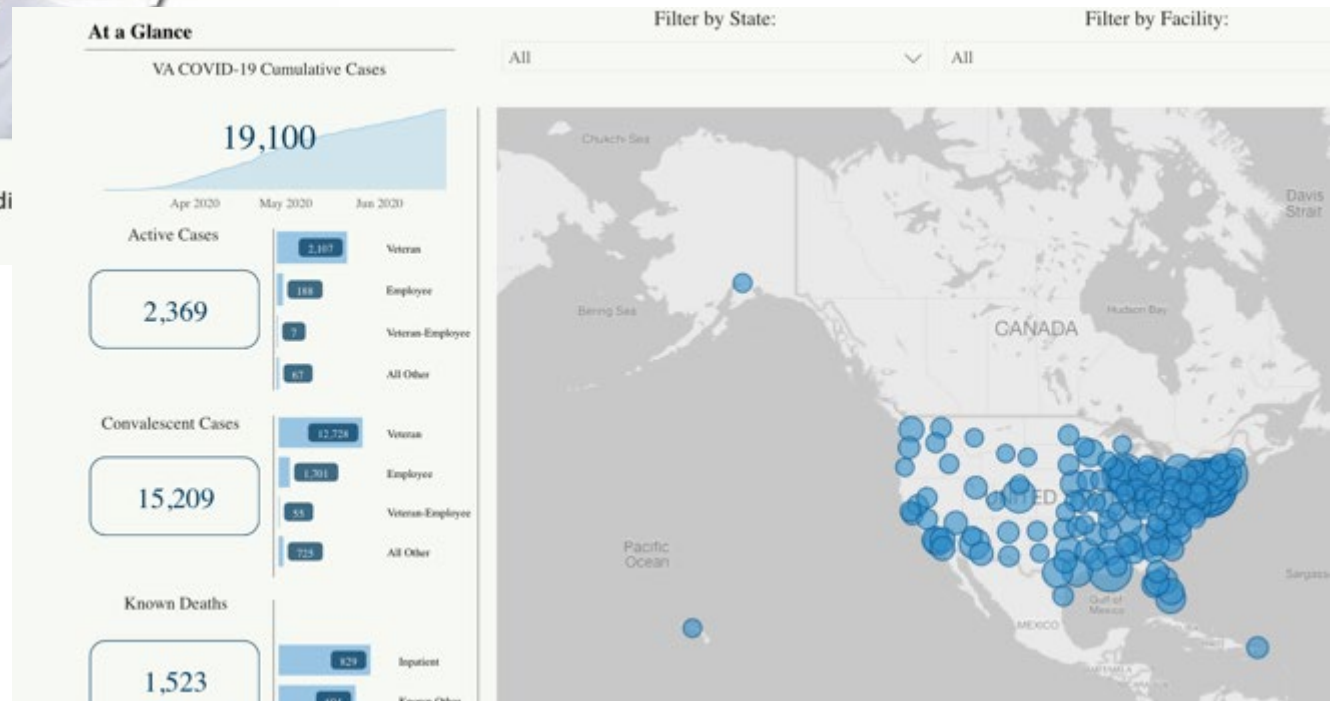
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# Transparency

## Department of Veterans Affairs COVID-19 National Summary

This report compares VA cases diagnosed and treated at VA facilities, with community cases di non-VA healthcare facilities.







# Transparency

**National Surveillance Tool**

**VA COVID-19 Shared Data Resource**

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# Transparency

## National Surveillance Tool

## VA COVID-19 Shared Data Resource

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### CaseDetail

PatientICN

CaseDefinition

CaseDateTime

PatientStatus

### Patient

PatientICN

EverPositive

IndexDate

FirstPositive

RecentPositive

FirstNegative

RecentNegative



# Transparency

## ChangeLog

- Patient added
- Patient no longer in feed
- Patient identifier change
- CaseDateTime change
- CaseDefinition change
- PatientCategory change
- PatientStatus change
- ...

## IssueLog

- PatientSID not in CDW.Patient
- PatientSID / sta3n mismatch
- PatientSID / PatientICN mismatch
- PatientCategory / CDW mismatch
- DeathDateTime / CDW mismatch
- ...



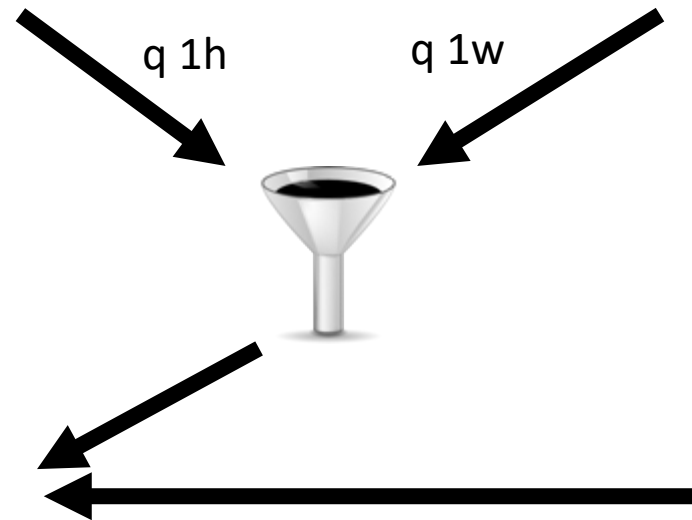
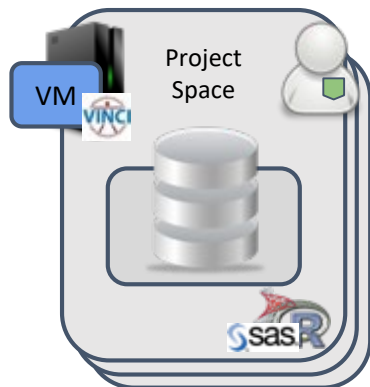
# Transparency

National Surveillance Tool

CaseDetail  
CaseLabChem  
*ChangeLog*  
*IssueLog*

VA COVID-19 Shared Data Resource

Patient  
PreIndex...  
PostIndex...  
Supplement...  
Comparison...



Dim...  
Community...



# Continual Improvement





# Questions?



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