



Overview



- 1. VINCI
- 2. Data in VINCI
- 3. VINCI Services
 - 3.1. Feasibilities
 - 3.2. Data Needs Assessment (DNA)
- 3.3. Support for the prospective study recruitment (Patients List)
- 4. Research Project Life Cycle



Objective 🙀 🖈 💢



- Type of data assistance the VINCI Services team provides for the VA researchers
- > Requirements for the each service
- How to request services from VINCI



Question #1

What is your primary role in research?

- 1. Investigator
- 2. Study coordinator
- 3. Programmer
- 4. Statistician
- 5. Other



Question #2



- 1. Never used
- 2. One time
- 3. Multiple times



Question #3

What types of services from VINCI have you used?

- 1. Never used
- 2. Feasibility
- 3. Patient List
- 4. Data needs assessment
- 5. Multiple services



VINCI

- ✓ The VA Informatics and Computing Infrastructure (VINCI)
 is a major informatics initiative of the Department of
 Veterans Affairs (VA) that provides a secure, central
 analytic platform for performing research and supporting
 clinical operations activities.
- ✓ It is a partnership between the VA Office of Information Technology (OI&T) and the Veterans Health Administration Office of Research and Development (VHA ORD).
- ✓ VINCI includes a cluster of servers for securely hosting suites of databases integrated from select national VA data sources.



DATA in VINCI

✓ VINCI has data on more than <u>22 million patients</u> receiving care at over 1,400 medical centers (inpatient), outpatient clinics, nursing homes, and non-VA medical centers

✓ Most data originates from the extensively used Veterans Health Information Systems and Technology Architecture (VistA), the VA electronic medical record system and from other data sources



VINCI Services

*

- > Feasibility
- ➤ Data Needs Assessment (DNA)
- Support for the prospective study recruitment (Patients List)





Feasibility * *

- ➤ Feasibilities provide aggregate counts for researchers during the preparatory-to-research phase. The deliverables result in summarized counts to assist in grant and IRB applications.
- > Feasibilities help to understand cohort size and structure
- Feasibilities help to understand <u>impact of each criteria to</u>
 cohort size and structure
- Feasibilities result **cannot** be used for any publication
- No regulatory documents are required



Feasibility * *

Break downs

- Locations
- Time periods
- Age groups
- BMI groups
- Race
- o Etc.

Inclusion/exclusion criteria

- Location (nationwide or some specific location
- Time frame
- Age/gender/other limitation
- Diagnosis (ICD9*/10 codes (*VA uses ICD10 codes since October 2015. If time frame more than 3 years, please, provide both))
- Procedures (CPT codes or/and ICD-PC)
- Lab test. (topography, units, range)
- Medications (list of all generic and brand names, strength and route of administration)



Feasibility * *

Attrition table

This is a funnel analysis. Numbers presented in column D are based on the number in the row above. For example, Row 8 will be less than or equal to the number in Row7

Criteria Definition	Query Definition	Number of distinct patients remaining
nclusion criteria		
Number of patients seen outpatient or inpatient with diabetes type 2 (ICD10 code) at Salt Lake City (station 660) from 1/1/2018-present		
Number of patients had prescribed insulin/type 2 diabetes medication (list of medication) at 1/1/2018-present		
Exclusion Criteria		
Number of patients with serious health conditions (ICD10 codes) at 1/1/2018-present		



Feasibility *

Attrition table Result

This is a funnel analysis. Numbers presented in column D are based on the number in the row above. For example, Row 8 will be less than or equal to the number in Row7

Criteria Definition	Query Definition	Number of distinct patients remaining
Inclusion criteria		
Number of patients seen outpatient or inpatient with diabetes type 2 (ICD10 code) at Salt Lake City (station 660) from 1/1/2018-present	Distinct patients seen inpatient or outpatient for diabetes type 2 at SLC from 1/1/2018 to present	14,320
Number of patients had prescribed insulin/type 2 diabetes medication (list of medication) at 1/1/2018-present	Distinct patients from D7 with inpatient or outpatient insulin and/or type 2 diabetes medications from any location from 1/1/2018 to present	10,717
Exclusion Criteria		
Number of patients with serious health conditions (ICD10 codes) at 1/1/2018-present	Distinct patients from D8 without serious health conditions diagnosed inpatient or outpatient at any location from 1/1/2018 to present	5,827

uded

90



Feasibility Flowchart



Request to VINCI@va.gov

Researcher

VINCI Services

Attrition table (time, location, criteria, codes, medications, labs range/units)

Researcher

VINCI Services

Create, run, review code Fill out attrition table Review result



VINCI Services

Deliver Result
Review result/Questions

Researcher



Data Needs Assessment (DNA)

VINCI Services supports VA research by assisting customers with Data Needs questions (DNA) relating to the VA Corporate Data Warehouse (CDW) and other VA data sources.

These questions range from

- √ data availability
- √ data location
- ✓ data definitions
- ✓ assistance with completing the DART application
- ✓ assistance with completing DART forms including CDW-domain checklist,
- ✓ assistance with IRB protocol preparation,
- ✓ etc.



Patients List 🖈 🖈

Electronic Medical Record (EMR)-driven recruitment support supplements traditional **patient recruiting** methods by leveraging patient data stored in the VA EMR

IRB approved prospective projects:

- Clinical trials (intervention: drugs, devises, tests, contact, etc.)
- Cohort studies
 - observational study
 - survey study

DART application for the research project is required



Patients List

Required Documents

- Research Request Memo*
- Research Study Institutional Review Board (IRB) Approval Letter
- Sample Informed Consent
- Research and Development (RD) Committee Approval Letter
- IRB Approval Waiver of HIPAA-Compliant Authorization*
- Research Protocol
- CDW-Domain Checklist*
- Request to Real SSN Access (if needed)*





Blank Documents (*)

- Research Request Memo*
- IRB Approval Waiver of HIPAA-Compliant Authorization*
- CDW-Domain Checklist*
- Request to Real SSN Access IRB approval (if needed)*

http://vaww.vhadataportal.med.va.gov/DataA ccess/DARTRequestProcess.aspx#Documents AndForms



The Data Access Request Tracker (DART)

http://vaww.vhadataportal.med.va.gov/DataA ccess/DARTRequestProcess.aspx#SubmitReq uest



Patients List - IRB 🖈

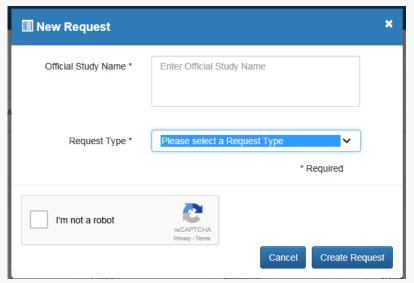


Environment and security VINCI descriptions for use with IRB packages.

https://vaww.vinci.med.va.gov/VinciCentral/ NewToVinci/IRBChecklist







Select "Research Data Access"!





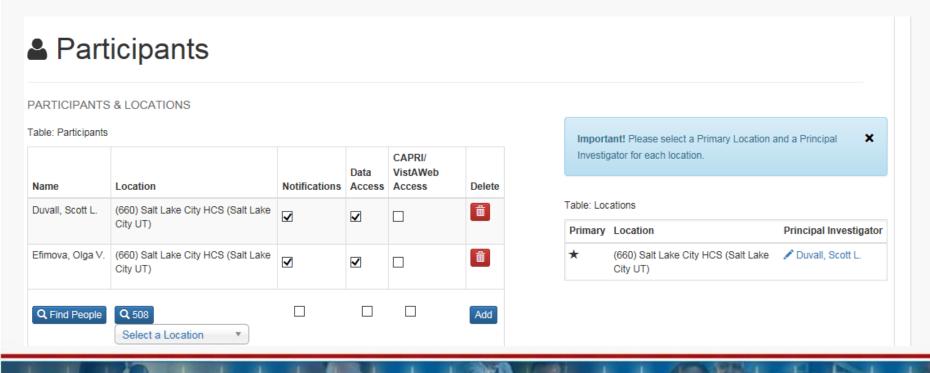
Activity Information

REQUEST INFORMATION	
Short Name *	test
Does your project have an IRB or other Project Number?	● Yes ○ No
IRB or Project Number *	12345
Does your project have an approval expiration date?	● Yes ○ No
Approval Expiration Date *	iii 09/01/2020
Study Start Date *	1 09/01/2019
Anticipated Study Close Date *	■ 09/30/2023
Exemptions & Informed Consent *	
Has your study been determined to be an exempt human subjects study?	○Yes • No
1a. Does your study require subjects to give informed consent orally or in writing - or a HIPAA authorization in writing?	● Yes ○ No
1b. Does your study have IRB approval for a full Waiver of Informed Consent?	○ Yes • No
HIPAA Authorization *	
2. Does your study have IRB or Privacy Board approval for a Walver of HIPAA authorization?	● Yes ○ No
2a. Is the Waiver of HIPAA authorization only for recruiting or determining subject's eligibility?	○ Yes • No
2b. Is the Waiver of HIPAA authorization for the entire study?	● Yes ○ No



Participants

- Select "Notification" and "Data access"
- Select "CAPRI/VistAWeb Access" only for manual chart review on national level





Data Sources

■ Data Sources				
Data Storage Location * ☑ VINCI ☑ Other Server Location				
Name of facility *				
Address *				
Building				
Room#				
Data Access Systems				
☐ SAS Grid				
Will data be transferred external to the VHA? *				
	clude disclosing the CDW data (identifiable or de-identified) outside of VHA without a signed research consent a ng information on the individual back to VA per SOR 34VA12, a DUA between the PI and the external agency mu			
No Yes (DUA is required)				
IDENTIFIERS (More about identifiers)				
☑ Real SSN				
□ Scrambled SSN				
☐ Identifiable data but no real or scrambled SSNs				
REQUESTED DATA SOURCES				
Corporate Data Warehouse (CDW)				
SQL Format				
CDW Production Domains				
☐ CDW Raw Domains ☐ CDW MCA (formerly DSS) NDE				
☐ MedSAS Files including VetsNet Files				
☐ TIU Text Notes (Requires Real SSN Approval)				
☐ Vital Status Files (includes BIRLS)				



Documents



Required for CDW Production Domains

NOTICE: Always check the Data Steward's web site (DART Process and Forms) for the latest version of forms. Outdated forms will not be accepted. If a required document is actually several documents, such as an IRB and a Continuing IRB, combine them into one document being replace all the documents that are changing at one time.

Required Documents	
REQUIRED DOCUMENTS	
7 (660) Salt Lake City HCS (Salt Lake City UT) (Primary Site)	
Research Request Memo Required for CDW Production Domains	Upload
Research Study Institutional Review Board (IRB) Approval Letter Required for CDW Production Domains	Upload
Sample Informed Consent and HIPAA Authorization Required for CDW Production Domains	Upload
Research and Development (RD) Committee Approval Letter Required for CDW Production Domains	Upload
IRB Approval of Waiver of HIPAA-Compliant Authorization Required for CDW Production Domains	Upload
Research Protocol Required for CDW Production Domains	Upload
CDW-Domain Checklist Required for CDW Production Domains	Upload
Real SSN Access Request	Upload



Research Request Memo

This is a clinical trial
The aim of the study is ...
We are requesting list of patients meet
Inclusion/Exclusion criteria:

1

2.

Etc.

With the following patient information:

- Patient name
- DOB
- SSN
- Address
- Etc.

Patient list will be downloaded to the local server by using VINCI secure download tool and destroyed after project completion

Department of Memorandum		
Veterans Affairs		
Date:		
From: Principal Investigator "Insert Name of Principal Investigator"		
Subj: Research Data Request Memo for: "Tracking Number - Name of Protocol"		
To: Director, National Data Systems		
The following information is required and all signatures must be obtained before any review of this request can take place:		
Are all participants requesting access a VA employees or WOC employees? Myes		
Facility/Company Name		
Building Number Room Number		
Street Address		
City State Zip Code		
Country		
Please address the following five items in the body of the memo below: 1. Describe how the data will be transferred, (i.e. electronic, cd, etc.) between the Transferring Agency and Custodian and the methods that you will take to secure the transmission of the data. 2. Describe how the data will be securely retained with the Custodian's network. 3. Describe how and by whom the data will be accessed. 4. Describe how long the data will be retained after project completion and how the data will be destroyed. 5. Describe how you will maintain an auditing of the activity (users and location) of the data.		
Please describe the data you are requesting. The data requested must reflect data discussed in the protocol or HIPAA waiver if applicable and selected in DART. Provide a high level summary of how the requested data will be used in the research study.		





CDW DOMAIN CHECKLIST

Health Factors Inpatient Lab Chem Master Veteran Index (MVI) Outpatient **Patient** Pharmacy BCMA (Bar Code Medication Administration) **Pharmacy Outpatient Pharmacy Patient** Program Integrity Tool (PIT) **Purchased Care SPatient** Vital Signs **OMOP**

CDW Production	CDW RAW*
Allergy Appointment Beneficiary Travel Consult CPRS Orders Dental Emergency Dept. Int. Software (EDIS) Enrollment (ADR) Health Benefits Request Health Factors Immunization Inpatient Integrated Billing Lab Chem Lab Microbiology Master Veteran Index (MVI) Mental Health Assessment Non-VA Meds Outpatient PAID Data **(Please see note on next page) Patient Patient Associated Patient Insurance Patient Record Flag PCMM (Primary Care Management Module) Pharmacy BCMA (Bar Code Medication Administra Pharmacy BCMA (Bar Code Medication Administra P Pharmacy Patient P Pharmacy Patient P Program Integrity Tool (PIT) Purchased Care Radiology Recall Reminders	CAPRI Audit Trail table CliniComp Echocardiogram Equipment Inventory FBCS (Fee Basis Claim System) IFCAP (Integrated Funds Control, Accounting, and Procurement) Intravenous meds (IV) Oncology Prosthetics Pulmonary Function Test (PFT) Talent Management System (TMS) Unit Dose (Pharmacy) *CDW Raw data is data that has been pulled directly from the VistA sites and the data has not been verified or had business rules applied. It may not be current and there is limited documentation for users. Requests for CDW Raw data require additional time for creating data extracts and it is more difficult for studies to use.
Reengineered Primary Care Management Module	
S Patient Staff SStaff Surgery PRE, INTRA, and POST VistA Compensation & Pension VistA Waitlist Vital Signs Women's Health	Other Data □ CART CV Data □ Department of Defense and Department of Veterans Affairs Infrastructure for Clinical Intelligence (DAVINCI) □ Lung Cancer Screening Demonstration Cohort □ OMOP Common Data Model (CDW Production/Raw Source) □ PSSG Geocoded Files □ SAS Fee □ VINCI NLP Output
For additional information about the domains, please re http://vaww.virec.research.va.gov/CDW/Document	

CDW Checklist V 6.5 October 31, 2019. This document revision supersedes any previous versions



Patients List *



Inclusion/Exclusion criteria

- Location (nationwide or some specific location)
- Time frame
- Age/gender limitation
- Distance from current address to VAMC
- Diagnosis. ICD9*/10 codes (*VA uses ICD10 codes since October 2015. If time frame more than 3 years, please, provide both)
- Procedures, CPT codes or/and ICD-PC
- Lab test. Units, range
- Medications (list of all generic and brand names, strength and route of administration)

Note! Use variables from structured data only



Patients List

List of deliverable variables:

- ✓ Patient name
- ✓ DOB
- ✓ SSN/Last 4
- ✓ Address
- √ Phone
- ✓ Date/location of upcoming appointment
- ✓ Etc.

<u>Limitation (will not be delivered)</u>

- ✓ Problem list
- ✓ Current medications list



Patients List - Results

1

- Excel file saved in project research folder in VINCI
- Instructions to access VINCI
- Instructions to download file to local secure server



Occurrence:

- One time
- > On regular base (monthly, quarterly, etc.)
- By Demand



Patient List - Results



Multicentral project with CIRB

Central study coordinator

Request/DART



VINCI Services

Create patient list/ research folder in VINCI



Central study coordinator

Local secure server for central site/ SharePoint







Local sites study coordinators

site₁

site₂

siten









Patient List Flowchart



VINCI Services

Feasibility

Researcher

Regulatory Documents
Protocol, IRB, R&D, DART

Researcher

Researcher

VINCI Services

Attrition Table for the patient list

VINCI Services

Create, Review Patients List

VINCI Services

Deliver Patients List

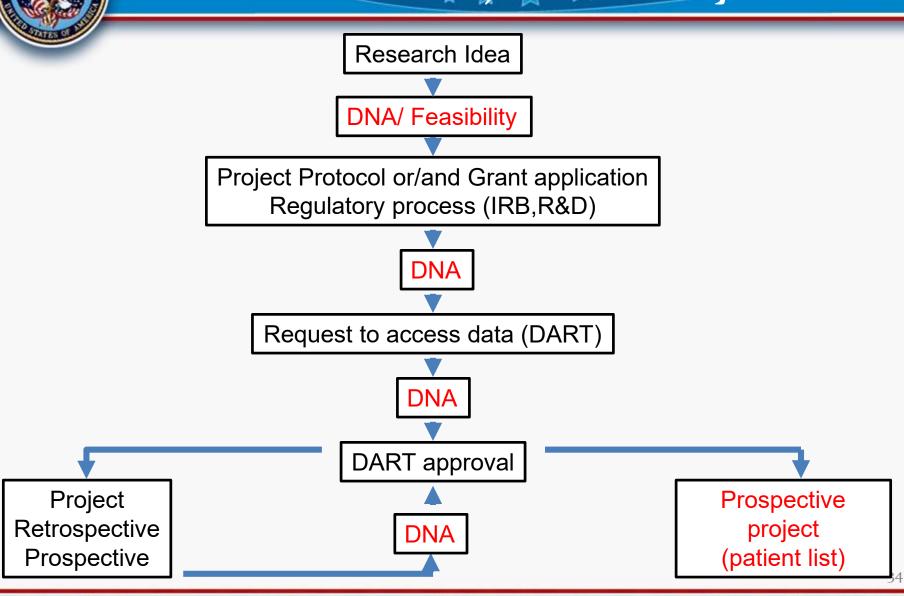


Review/Utilize Patients List

Researcher



Research Project Life Cycle





VINCI Services

- Feasibility (cohort size and structure/ no regulatory documents/ cannot be used for publications
- Data Needs Assessment (data and applications) questions, assistance)
- Patient List (IRB-approved prospective studies, DART application, can be created on regular base)



Requests *

VINCI@va.gov

Subject:

- Feasibility
- Data Needs Assessment
- Patient list





We appreciate your opinions and feedback.

Please, take a moment to complete our customer satisfaction survey.

Click here to access





QUESTIONS?



THANK YOU!