



Using Data & Information Systems in Partnered Research Series

Using VA REDCap for Home-based Cardiac Rehabilitation Projects

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Today's objective

This cyberseminar uses a case study approach to illustrate features of VA REDCap used for administering online patient questionnaires, restricting data access, and creating data reports for research purposes, program management, and process improvement.

Agenda

- Home-based cardiac rehabilitation projects
- Patient surveys on a VA tablet
- Using data access groups for multisite projects
- Data reports
- Learning resources

Poll #1: Your role as a data user

- What is your role in research and/or quality improvement?
 - Investigator, PI, Co-I
 - Data manager, analyst, or programmer
 - Project coordinator
 - Other – please describe via the Q&A function



Agenda

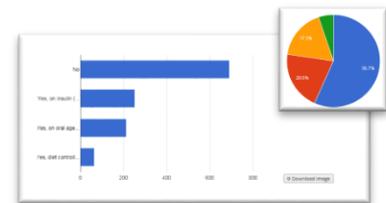
- Home-based cardiac rehabilitation projects
- Patient surveys on a VA tablet
- Using data access groups for multisite projects
- Data reports
- Learning resources

VA REDCap Case Study

Home-based cardiac rehabilitation projects

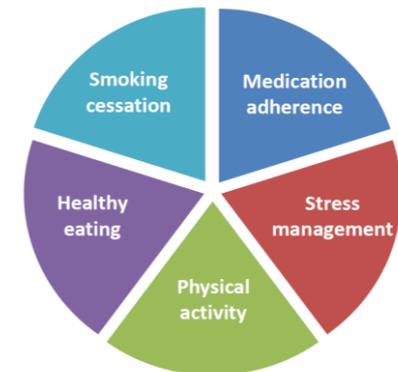
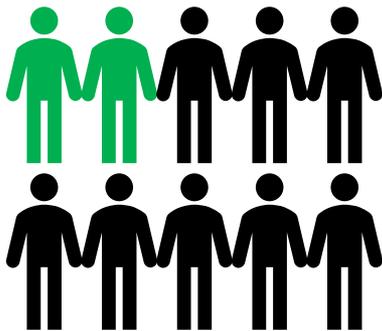
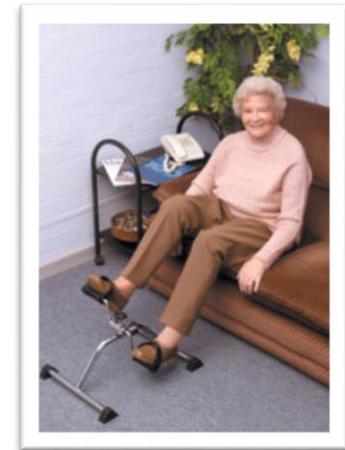
VA REDCap features useful for this study

- Patient surveys using tablets (on-site)
- Multi-site projects
- Data Reports



Cardiac Rehabilitation

- Patients with coronary heart disease
- Structured, 12-week program
 - Exercise
 - Education
- Reduces mortality and improves quality of life
- CR programs are vastly underused



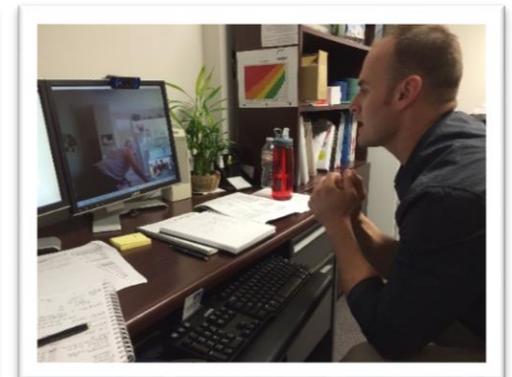
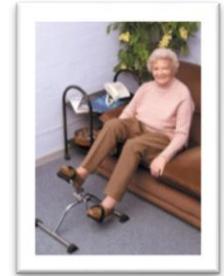
Home-based Cardiac Rehabilitation

VA REDCap Case Study

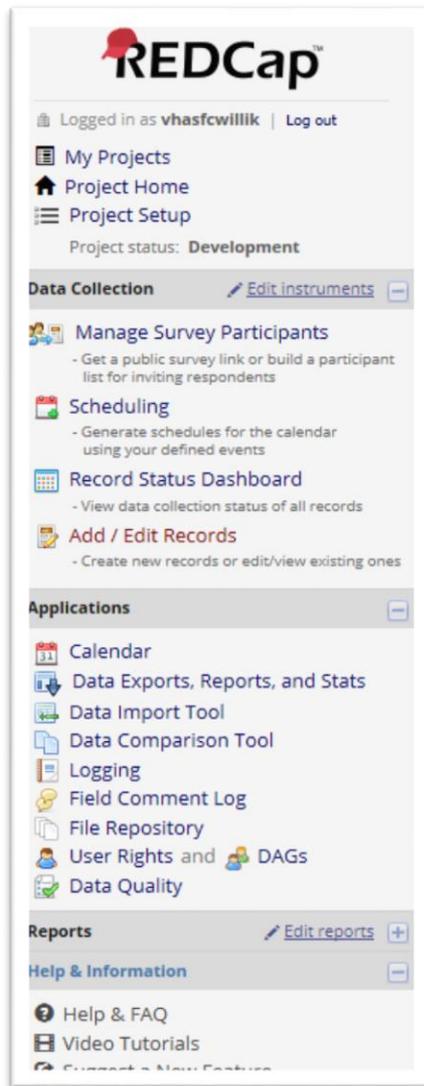
Research Projects

1. Compare effectiveness of home- vs. facility-based CR
2. Evaluate the use of a patient care mobile app for CR

- Multiple VA sites
- Data from multiple sources
 - Medical record
 - Research tests
 - Patient questionnaires



Why VA REDCap?



User friendly

- Database templates
- Training and support resources
- Customizable

Data types

- Clinical data (No PHI or PII)
- Patient questionnaires

Collaborative projects

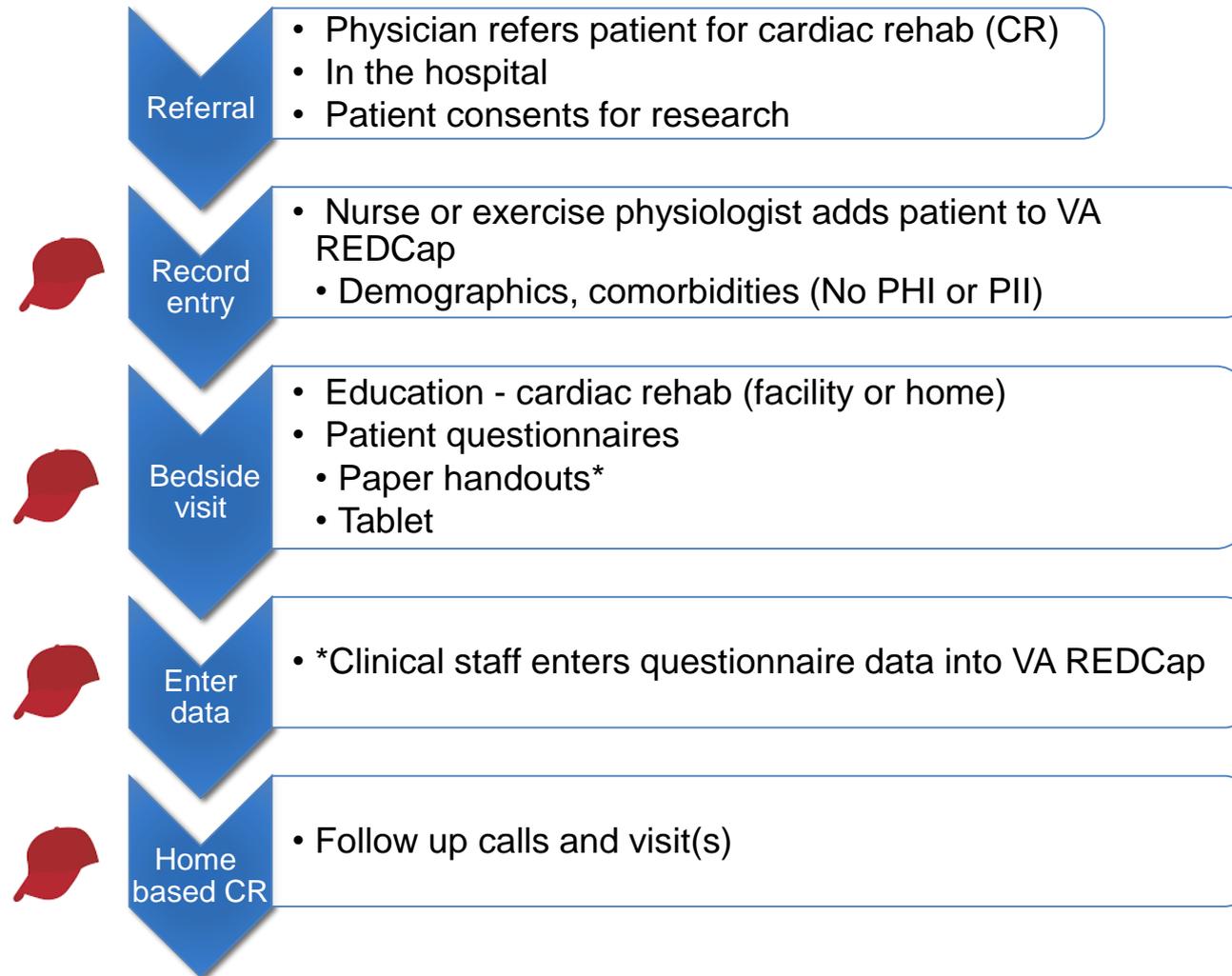
Features

- Data reporting
- Data export
- Data quality rules*

*VA REDCap Data Quality – Schiffer 2018

Home-based Cardiac Rehab

Research Study Workflow



VA REDCap and Data Collection

Clinical data (No PHI or PII)

- EHR data (e.g., demographics, comorbidities)
- Research test results
- In the office using desktop or laptop

Patient questionnaires

- On site, paper or tablet
- Mail, paper only

Both clinicians and patients benefit from access to a mobile data collection device

- 6-minute walk test
- Branching logic

Clinician-collected data

Current conditions (select all that apply)

- PCI
- CABG
- Acute MI (STEMI or NSTEMI)
- Heart failure
- Chronic stable angina
- TAVR
- Valve surgery
- Other

Describe other

Primary indication (select one)

- PCI
- CABG
- Acute MI (STEMI or NSTEMI)
- Heart failure
- Chronic stable angina
- TAVR
- Valve surgery
- Other

Describe other

Date of index event

History of diabetes?

- No
- Yes, on insulin (with or without oral agent)
- Yes, on oral agent, but no insulin
- Yes, diet controlled

Fasting BG

HbA1C

Date HbA1C collected

History of hypertension/high blood pressure?

- No
- Yes, on antihypertensive medication(s)
- Yes, not on medication

History of myocardial infarction?

- Yes
- No

Patient survey data

Please complete the survey below.

Thank you!

Which of the following statements best describes how physically active you have been during the last month, that is, done activities such as 15-20 minutes of brisk walking, swimming, general conditioning, or recreational sports?

- Not at all active
- A little active (1-2x/mo)
- Fairly active (3-4x/mo)
- Quite active (1-2x/wk)
- Very active (3-4x/wk)
- Extremely active (5x or more/wk)

Do you have access to an exercise area or equipment (e.g. sidewalk, park, gym, or stationary bike)?

- Yes
- No

Have you had any adverse reactions to medication?

- Yes
- No

Please describe any adverse reactions to medication

Does you use an assistive device (like a cane or walker)?

- Yes
- No

Type of assistive device(s) used

- Walker
- Cane
- Wheelchair
- Scooter
- Other

MOOD

During the past month, have you often been bothered by feeling down, depressed or hopeless?

- Yes
- No

During the past month, have you often been bothered by little interest or pleasure in doing things?

- Yes
- No

Branching logic
 If Yes, show the next question
 If No, skip to "Mood"

VA REDCap Surveys

Patient Questionnaires

Enter data in VA REDCap

- Must be logged in to VA REDCap

Paper

- VA REDCap user enters data from form

Survey link

- No VA REDCap login required
- **Only accessible on VA network**

VA Cardiac Rehab Project Final

Logged in as vhasfcwllik | Log out

My Projects
Project Home
Project Setup

Project status: Development

Collection: Edit Instruments

Manage Survey Participants
- Get a public survey link or build a participant list for inviting respondents

Scheduling
- Generate schedules for the calendar using your defined events

Record Status Dashboard
- View data collection status of all records

Add / Edit Records
- Create new records or edit/view existing ones

Record ID SF0001 Select other record

Event Name: Baseline

Record ID SF0001

Which of the following statements best describes how physically active you have been during the last month, that is, done activities such as 15-20 minutes of brisk walking, swimming, general conditioning, or recreational sports?

Not at all active

A little active (1-2x/mo)

Fairly active (3-4x/mo)

Quite active (1-2x/wk)

Very active (3-4x/wk)

Extremely active (5x or more/wk)

Do you have access to an exercise area or equipment (e.g. sidewalk, park, gym, or stationary bike?)

Yes

No

Have you had any adverse reactions to medication?

Yes

No

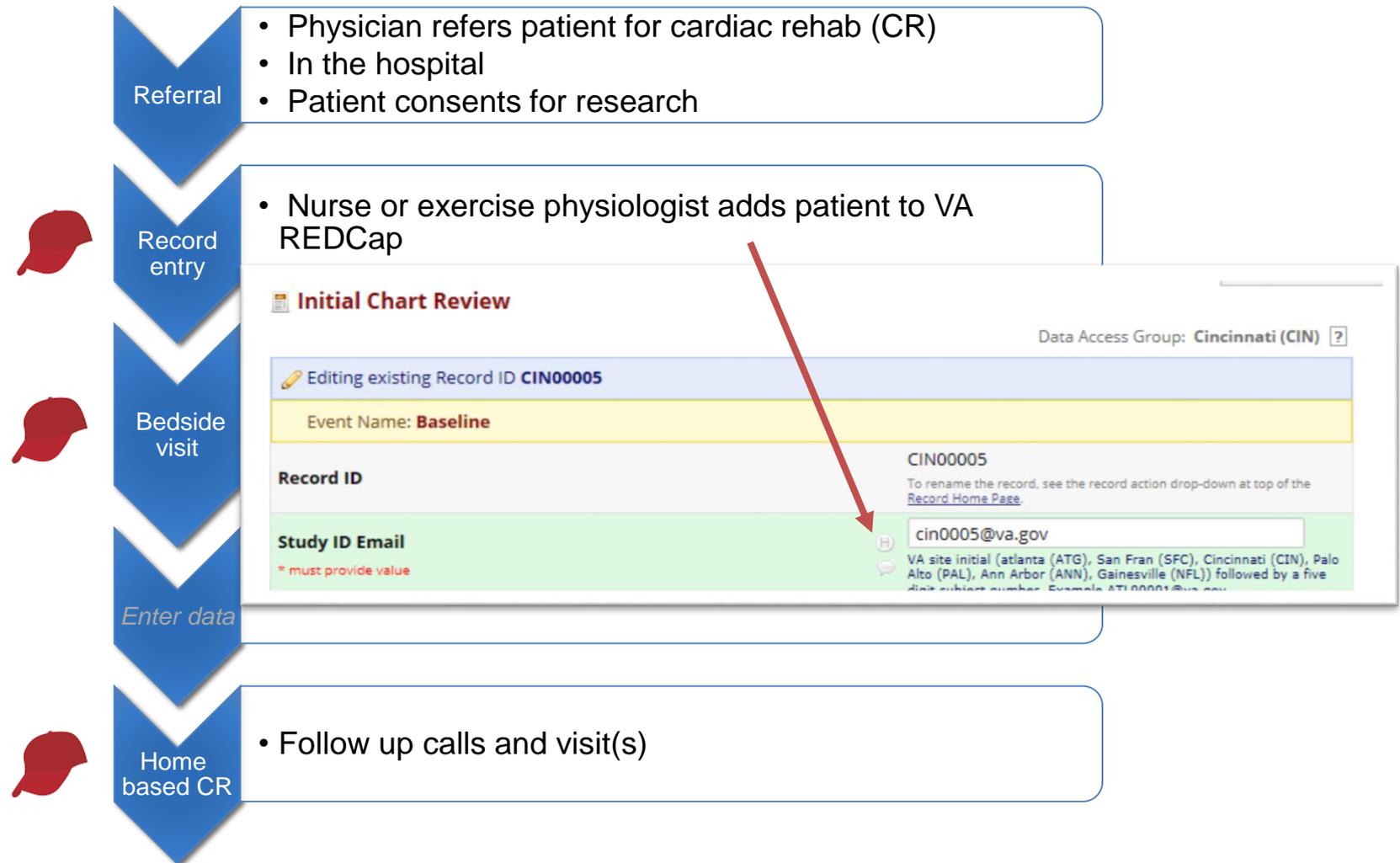


Agenda

- Home-based cardiac rehabilitation projects
- **Patient surveys on a VA tablet**
- Using data access groups for multisite projects
- Data reports
- Learning resources

Patient surveys on a tablet

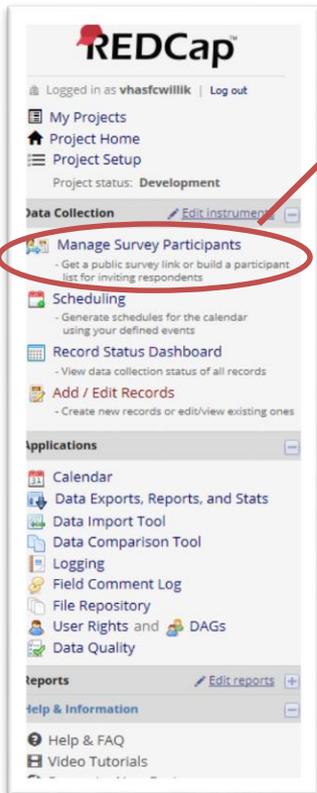
Study ID Email for Public Survey Link



Patient surveys on a tablet

At the bedside or during a visit

1. Log in to VA REDCap
2. Manage Survey Participants
3. Click on the link icon



Participant List belonging to "Survey 1 (Clinical)" - Baseline

Displaying 1 - 14 of 14

[Add participants](#) [Compose Survey Invitations](#) [Export list](#)

| Email | Record | Participant Identifier | Responded? | Invitation Scheduled? | Invitation Sent? | Link | Survey Access Code and QR Code | Survey Queue |
|-------------------|--------------------------|------------------------|------------|-----------------------|------------------|----------------------|--------------------------------|--------------|
| [No email listed] | | Disabled | | - | | | | |
| CIN00001@va.gov | CIN00001 | Disabled | | - | | Link | | |
| CIN00002@va.gov | CIN00002 | Disabled | | - | | Link | | |
| CIN00004@va.gov | CIN00004 | Disabled | | - | | Link | | |

4. Patient survey opens in a new tab
5. Log out of VA REDCap and close window



Patient completes survey

Survey Baseline (Clinical)

Please complete the survey below.

Thank you!

Which of the following statements best describes how physically active you have been during the last month, that is, done activities such as 15-20 minutes of brisk walking, swimming, general conditioning, or recreational sports?

- Not at all active
- A little active (1-2x/mo)
- Fairly active (3-4x/mo)
- Quite active (1-2x/wk)
- Very active (3-4x/wk)
- Extremely active (5x or more/wk)

reset

Do you have access to an exercise area or equipment (e.g. sidewalk, park, gym, or stationary bike)?

- Yes
- No

reset

Have you had any adverse reactions to medication?

- Yes
- No

reset

Do you use an assistive device (like a cane or walker)?

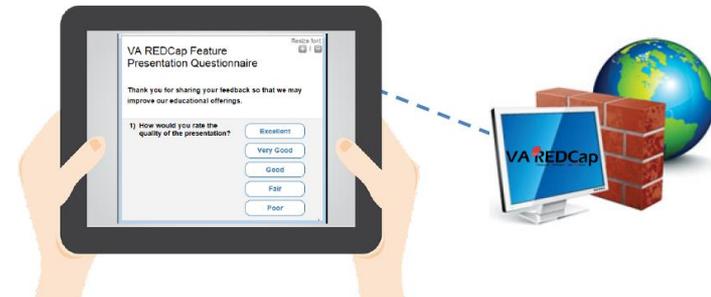
- Yes
- No

reset



The nitty gritty

- Make sure your tablet is VA property
- Work with your ISO to configure the device
 - Get your tablet on the VA network
 - Have the device configured for Veteran use
- Security
 - Password protect your tablets
 - Remove nonessential programs
 - Child lock



Tablets come in many sizes



**12.9-inch
iPad Pro**



**10.5-inch
iPad Pro**



**iPad
9.7inch**



**iPad mini 4
7.9 inch**



VA REDCap Online Surveys

Tablet Advantages

- Long battery life
- Ease of use - familiar interface
- Zoom
- No need for external keyboard
- Branching logic is functional
- No need for post hoc data entry
 - Streamlines process
 - No transcription errors



VA REDCap Online Surveys

Tablet Disadvantages

- iPad minis: use a stylus to combat “fat finger” errors
- Need to have access to VA wireless
- Tablet security



Agenda

- Home-based cardiac rehabilitation projects
- Patient surveys on a VA tablet
- Using data access groups for multisite projects
- Data reports
- Learning resources

VA REDCap for Multi-site Projects

Data Access Groups (DAGs)

- Single VA REDCap project
- Control data access by site
- Preserves confidentiality of data by site
- Users at coordinating site can see all data



Atlanta, GA
Ann Arbor, MI
Cincinnati, OH
Gainesville, FL
Palo Alto, CA
San Francisco, CA



VA REDCap for Multi-site Projects

Data Access Groups (DAGs)



Logged in as vhasfcwillik | Log out

My Projects

Project Home

Project Setup

Project status: Development

Data Collection [Edit Instruments](#)

Manage Survey Participants
- Get a public survey link or build a participant list for inviting respondents

Scheduling
- Generate schedules for the calendar using your defined events

Record Status Dashboard
- View data collection status of all records

Add / Edit Records
- Create new records or edit/view existing ones

Applications

- Calendar
- Data Exports, Reports, and Stats
- Data Import Tool
- Data Comparison Tool
- Logging
- Field Comment Log
- File Repository
- User Rights and **DAGs**
- Data Quality

Project Home Project Setup User Rights Data Access Groups

Create new groups: Add new data access groups to which users may be assigned.

Enter new group name

1. Add groups

Assign user to a group: Users may be assigned to any data access group.

Assign user to

2. Select user and assign to a group

| Data Access Groups | Users in group | Number of records in group | Unique group name (auto-generated) | Group ID number | Delete group? |
|---------------------------|---|----------------------------|------------------------------------|-----------------|---------------|
| Ann Arbor | | 0 | ann_arbor | 2529 | ✘ |
| Atlanta | | 0 | atlanta | 2535 | ✘ |
| Cincinnati | | 0 | cincinnati | 2534 | ✘ |
| Gainesville | | 0 | gainesville | 2530 | ✘ |
| Palo Alto | | 0 | palo_alto | 2532 | ✘ |
| San Francisco | | 0 | san_francisco | 2533 | ✘ |
| [Not assigned to a group] | vhasfcwillik (Katherine Williams) * Can view ALL records | | | | |

Unassigned users can view all data

Site-specific data access

- Record Status Dashboard
- Project admins can see all records



Logged in as vhasfcwillik | Log out

- My Projects
- Project Home
- Project Setup
- Project status: Development

Data Collection [Edit instruments](#)

- Manage Survey Participants
- Get a public survey link or build a participant list for inviting respondents
- Scheduling
- Generate schedules for the calendar using your defined events
- Record Status Dashboard**
- View data collection status of all records
- Add / Edit Records
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- Data Quality

Dashboard displayed: [Default dashboard] ▾

Displaying Data Access Group -- ALL -- ▾

Displaying record Page 1 of 1: "CIN00001" through "PAL00008" ▾ of 13 records ALL (13) ▾ records per page

Displaying: Instrument status only | [Lock status only](#) | [All status types](#)

3 sites
CIN
NFL
PAL

| Record ID | Baseline | | | | | |
|-----------|----------------------|---------------------|---------------------|----------------|---------------|-------------------------|
| | Initial Chart Review | Survey 1 (Clinical) | Survey 2 (Research) | Survey 3 (ORH) | Physical Exam | Patient Scoring Summary |
| CIN00001 | ✓ | ✓ | ✓ | ⊖ | ✓ | ⊖ |
| CIN00002 | ✓ | ✓ | ✓ | ⊖ | ✓ | ⊖ |
| CIN00004 | ✓ | ✓ | ✓ | ⊖ | ✓ | ⊖ |
| CIN00005 | ⊖ | ⊖ | ⊖ | ⊖ | ⊖ | ⊖ |
| NFL00001 | ⊖ | ⊖ | ⊖ | ⊖ | ⊖ | ⊖ |
| NFL00002 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |
| NFL00003 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |
| NFL00004 | ✓ | ⊖ | ⊖ | ⊖ | ⊖ | ⊖ |
| PAL00001 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PAL00002 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |
| PAL00003 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |
| PAL00004 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |
| PAL00008 | ✓ | ✓ | ✓ | ✓ | ✓ | ⊖ |

Site-specific data access

- Record Status Dashboard
- Users at Cincinnati site see only their own subjects



Logged in as vhasfcwillik | Log out

- My Projects
- Project Home
- Project Setup
- Project status: Development

Data Collection [Edit instruments](#)

- Manage Survey Participants
- Get a public survey link or build a participant list for inviting respondents
- Scheduling
- Generate schedules for the calendar
- Using your denied events
- Record Status Dashboard**
- View data collection status of all records
- Add / Edit Records
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Applications

- Calendar
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Dashboard displayed: [Default dashboard] ▼

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Displaying record Page 1 of 1: "CIN00001" through "PAL00008" ▼ of 13 records ALL (13) ▼ records per page

Displaying: [Instrument status only](#) | [Lock status only](#) | [All status types](#)

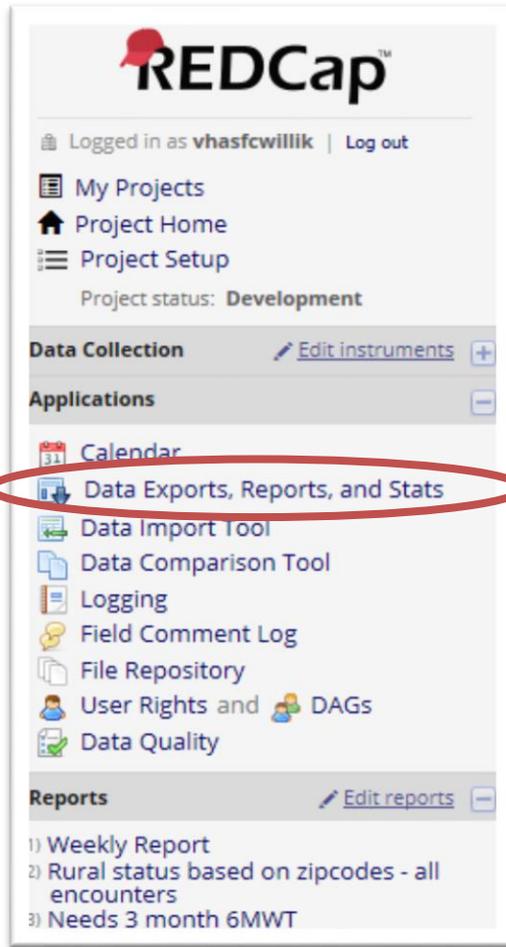
1 site
CIN

| Record ID | Baseline | | | | | |
|-----------|----------------------|---------------------|---------------------|----------------|---------------|-------------------------|
| | Initial Chart Review | Survey 1 (Clinical) | Survey 2 (Research) | Survey 3 (ORH) | Physical Exam | Patient Scoring Summary |
| CIN00001 | ● | ● | ● | ○ | ● | ● |
| CIN00002 | ● | ● | ● | ○ | ● | ● |
| CIN00004 | ● | ● | ● | ● | ● | ○ |
| CIN00005 | ● | ○ | ○ | ○ | ○ | ○ |

Agenda

- Home-based cardiac rehabilitation projects
- Patient surveys on a VA tablet
- Using data access groups for multisite projects
- **Data reports**
- Learning resources

Data Reports



- Query the database in real time
- Table format
 - Columns – variable(s)
 - Rows - individual records
- Graphs for all numerical and categorical variables
- Export data
- Restrict access

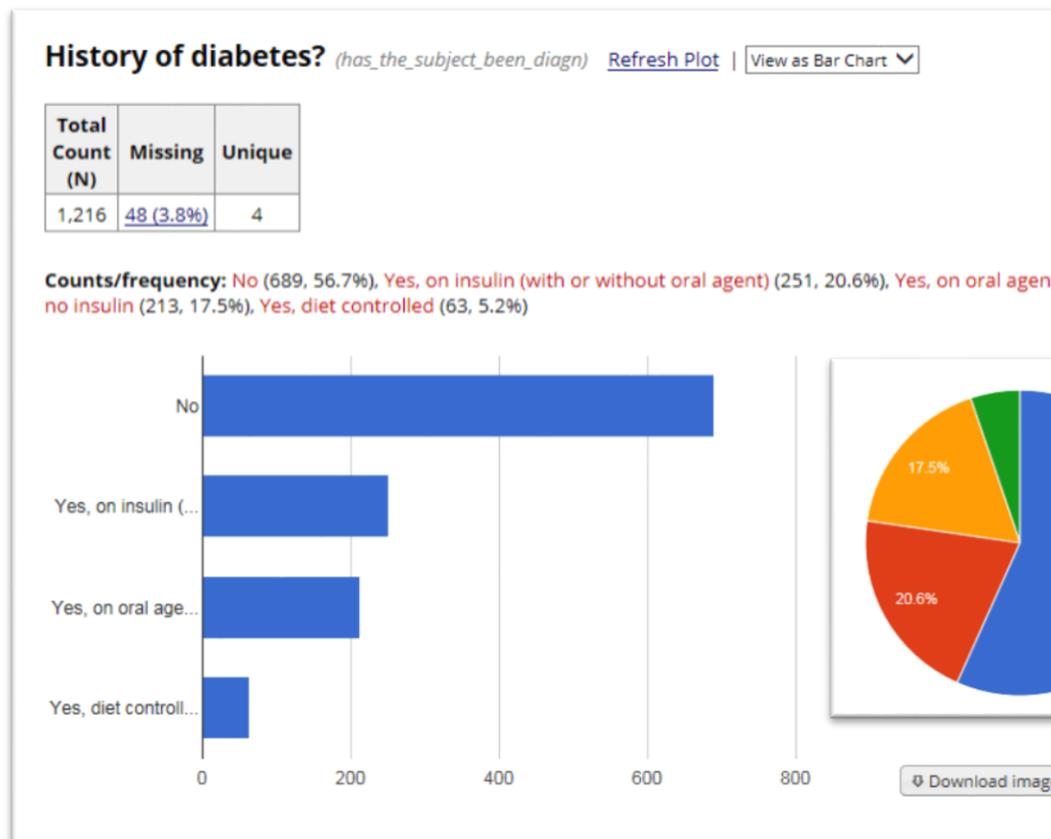
Data Reports | Clinical Data Review

Is there a change in 6-minute walk distance after cardiac rehabilitation?



Data Reporting | Clinical Data Review

How many patients have a history of diabetes?



- Show stats, plots, or both
- View bar or pie chart
- Download image
- Axis labeling
- Export data to Excel, R, SPSS, SAS, STATA

Data Reports | Project Management

- Do any records have missing data?
 - Clinical data
 - Patient surveys
- How many patients have enrolled?
- What percentage of patients are consenting?
- Do various sites/individuals have differing consent rates?
- Do various sites/individuals have differing loss to follow up rates?

Data Reports | Clinical Data and Project Management

REDCap™

Logged in as vhasfcwillik | Log out

My Projects

Project Home

Project Setup

Project status: **Development**

Data Collection [Edit instruments](#)

Manage Survey Participants
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Data Exports, Reports, and Stats

[VIDEO: How to use Data Exports, Reports, and Stats](#)

[+ Create New Report](#) [My Reports & Exports](#) [Other Export Options](#)

You may create a new report by selecting the fields/variables below that you want to include in the report. You may add as many fields to your report as you wish, and you can choose which users may view this report. You will also need to provide a name for your report, which will then be displayed on the project's left-hand menu for anyone to whom you have given access. You can filter the results returned in the report in a variety of ways, including using complex AND/OR logic. When you are finished, click the Save Report button at the bottom. The new report will then be added to your list of reports, after which you may immediately begin viewing them or exporting them.

Name of Report:

STEP 1

1. How many records have “history of diabetes” missing?
2. Is this happening at all sites or is it site-specific?
3. Is there an individual(s) who tends to miss this information?

VA REDCap Data Reports

1. Limit access
2. Fields to include in report
3. Filter the data
4. Order the data

Data Exports, Reports, and Stats

VIDEO: How to use Data Exports, Reports, and Stats

[+ Create New Report](#)
[My Reports & Exports](#)
[Other Export Options](#)
[Edit Existing Report: KW2](#)

You may create a new report by selecting the fields/variables below that you want to include in the report. You may add as many fields to your report as you wish, and you can choose which users may view this report. You will also need to provide a name for your report, which will then be displayed on the project's left-hand menu for anyone to whom you have given access. You can filter the results returned in the report in a variety of ways, including using complex AND/OR logic. When you are finished, click the Save Report button at the bottom. The new report will then be added to your list of reports, after which you may immediately begin viewing them or exporting them.

Name of Report: KW2

STEP 1

User Access: Choose who sees this report on their left-hand project menu [?](#)

All users
 CR
 Custom user access (Choose specific users, roles, or data access groups who will have access)

STEP 2

Fields to include in report [+ Quick Add](#) Add all fields from selected instrument: -- choose instrument --

| Field | Instrument | Remove |
|--------------------------------------|------------|--------|
| record_id "Record ID" | Intake (Q) | X |
| has_the_subject_been_diagn "History" | Intake (Q) | X |
| Type variable name or field label | | |

Additional fields to include in report (optional)

Include the survey identifier field and survey timestamp field(s)?

STEP 3

Show data for all events for each record returned [?](#)

[How to use filters and AND/OR logic](#)

Filters (optional)

Filter 1: Type variable name or field label Operator / Value: =
 In All events

Switch format: [Use advanced logic](#)

Additional Filters (optional)

(Records belonging only to ALL selections below will appear in the report)

Filter by event (s):

- Baseline
- 3 Month Follow-up
- 6 Month/Q1 Follow-up

Live Filters (optional)

Live Filters can be selected on the report page for dynamically filtering data in real time. Only multiple choice fields can be used as Live Filters (as well as Events, if longitudinal, and Data Access Groups, if any exist).

Live Filter 1: -- select a field --

Live Filter 2: -- select a field --

Live Filter 3: -- select a field --

STEP 4

Order the Results (optional)

First by: record_id "Record ID" Ascending order
 Then by: Type variable name or field label Ascending order
 Then by: Type variable name or field label Ascending order

Save Report

Cancel

Data Reports

Who sees the report

Name of Report: History of diabetes missing_

STEP 1

 **User Access:** Choose who sees this report on their left-hand project menu [?](#)

All users - OR - **Custom user access** (Choose specific users, roles, or data access groups who will have access)

Subset of data to include in report

STEP 2

 **Fields to include in report**

[+ Quick Add](#)

Add all fields from selected instrument: -- choose instrument --

| | | | | | |
|----------------|--|---|-----|-------------------------|---|
| Field 1 | record_id "Record ID" | ▼ | REI | Instrument: Intake (QI) | ✘ |
| Field 2 | site "Cardiac rehabilitation site: " | ▼ | REI | Instrument: Intake (QI) | ✘ |
| Field 3 | staff_receiving_consult "Staff evaluatir | ▼ | REI | Instrument: Intake (QI) | ✘ |
| Field 4 | date_evaluated "Date of evaluation" | ▼ | REI | Instrument: Intake (QI) | ✘ |
| Field 5 | notes "Comments:" | ▼ | REI | Instrument: Intake (QI) | ✘ |
| Field 6 | -- select a field -- | ▼ | REI | Instrument: | |

Data Reports

STEP 3

Show data for all events for each record returned ? [How to use filters and AND/OR logic](#)

Filters (optional)

| Filter | Operator / Value |
|---|--|
| Filter 1 has_the_subject_been_diagn "History" <input type="checkbox"/> <input type="checkbox"/> in All events | = <input type="checkbox"/> <input type="checkbox"/> |
| AND <input type="checkbox"/> | |
| Filter 2 eligible "Is patient eligible for any type" <input type="checkbox"/> <input type="checkbox"/> in All events | = <input type="checkbox"/> Eligible <input type="checkbox"/> |
| AND <input type="checkbox"/> | |
| Filter 3 Type variable name or field label <input type="checkbox"/> <input type="checkbox"/> in All events | = <input type="checkbox"/> <input type="checkbox"/> |

Switch format: [Use advanced logic](#)

Additional Filters (optional) (Records belonging only to ALL selections below will appear in the report)

Filter by event (s):

- Baseline
- 3 Month Follow-up
- 6 Month/QI Follow-up

Live Filters (optional) Live Filters can be selected on the report page for dynamically filtering data in real time. Only multiple choice fields can be used as Live Filters (as well as Events, if longitudinal, and Data Access Groups, if any exist).

Live Filter 1 site "Cardiac rehabilitation site: "

Data Reports | Track missing information

STEP 4

Order the Results (optional)

| | | |
|----------|-------------------------------------|-----------------|
| First by | record_id "Record ID" | Ascending order |
| Then by | site "Cardiac rehabilitation site:" | Ascending order |
| | Type variable name or field label | Ascending order |

[Save Report](#) [Cancel](#)

Display by record ID first, then by site

Number of results returned: **3**
 Total number of records queried: 1,865
('records' = total available data across all designated events)

Stats & Charts | Export Report | Print Page | Edit Report

Live filters: [Cardiac rehabilitation site:]

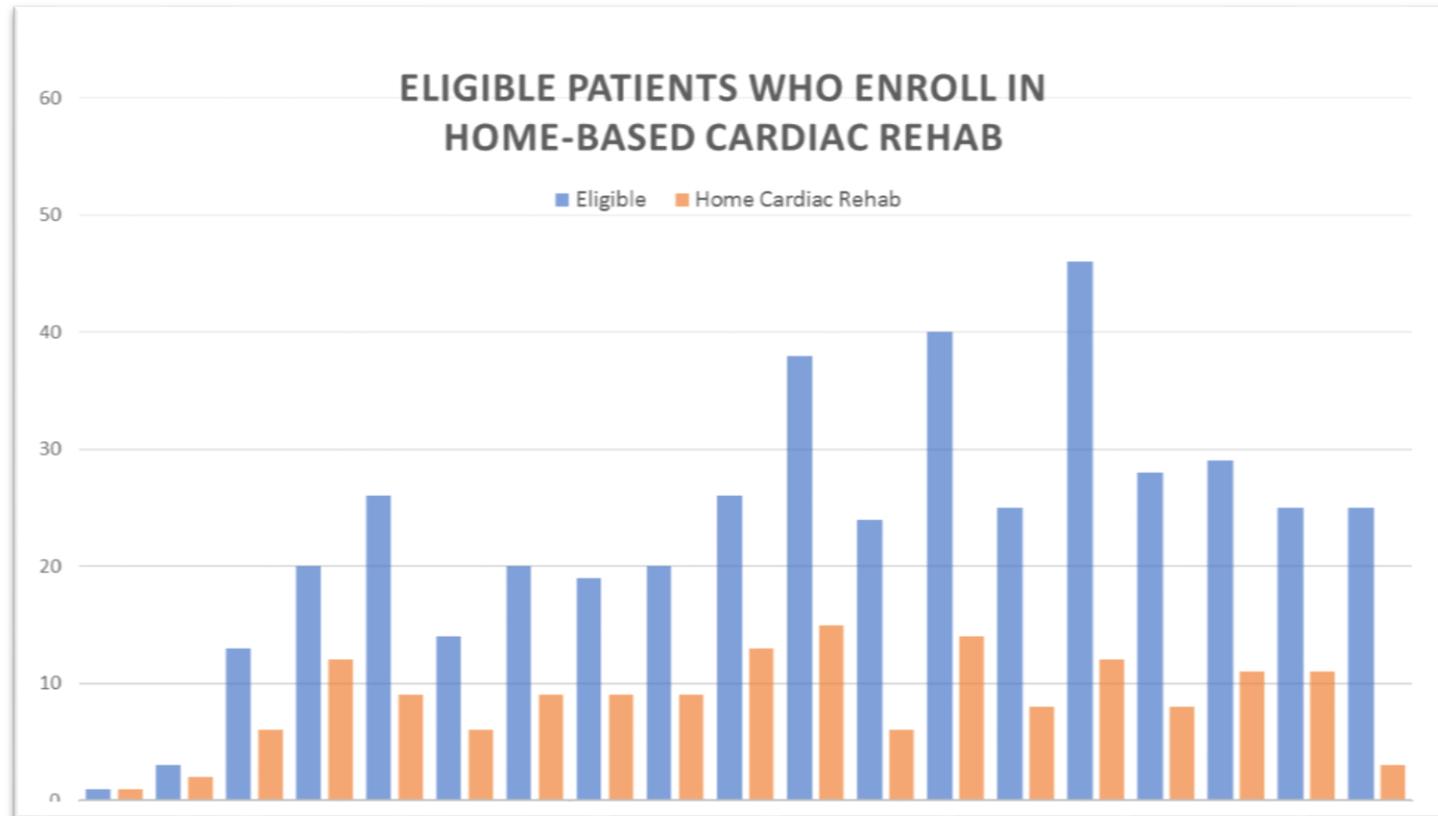
History of diabetes missing_

Search

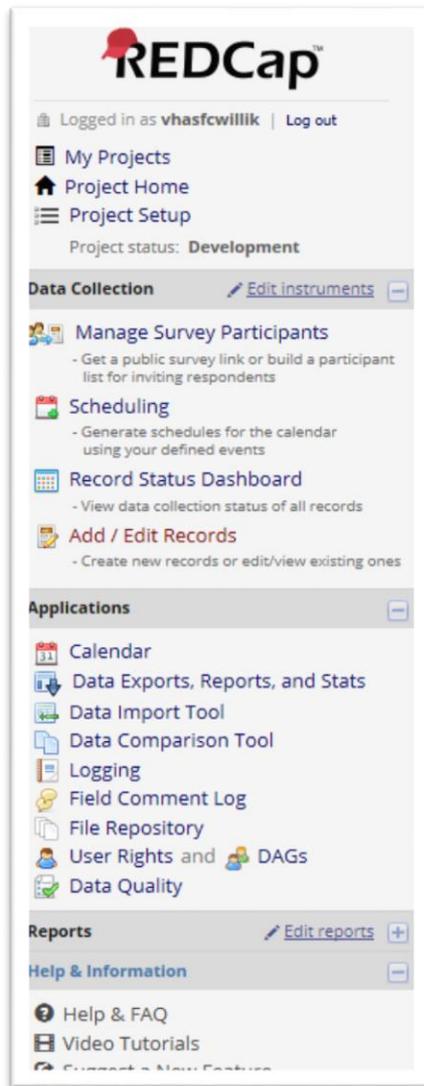
| Record ID redcap_ record_ id | Event Name redcap_ event_ name | Cardiac rehabilitation site: site | Staff evaluating eligibility and interest staff_receiving_consult | Date of evaluation date_evaluated | Comments: notes |
|---------------------------------------|---|---|---|---|--------------------|
| SF0886 | Baseline | San Francisco (3) | | | |
| SF1074 | Baseline | San Francisco (3) | | | |
| SF1271 | Baseline | San Francisco (3) | | | |

- Check comments
- Click on record ID for more info

Data Reports | Track enrollment statistics



Why VA REDCap?



- User friendly
 - Training, templates, support
 - Customizable
- Data collection
 - Clinical data (No PHI or PII)
 - Patient questionnaires
 - Online surveys
- Collaborative projects
 - Multiple sites, single project
- Data reporting
 - Clinical
 - Programmatic
- Data export

Poll #2: Your experience with VA REDCap

- Have you used VA REDCap?
 - No, never used it
 - No, but I have used a university version of REDCap
 - Yes, I have used VA REDCap



Agenda

- Home-based cardiac rehabilitation projects
- Patient surveys on a VA tablet
- Using data access groups for multisite projects
- Data reports
- **Learning resources**

VA REDCap Learning Resources

Research Electronic Data Capture

- VIREC REDCap Overview
 - <http://vaww.virec.research.va.gov/REDCap/Overview.htm> (VA Intranet only)
- New look for the VA REDCap Feature Presentation Archive
 - <https://vhacdwwweb05.vha.med.va.gov/surveys/?s=83JAXH9P8P> (VA Intranet only)
 - Includes tutorials on advanced features such as:
 - Branching Logic
 - Piping
 - Calculated Fields
 - Action Tags
 - Data Quality Module
 - & More!

Need help with VA REDCap

- Weekly Q&A with VA REDCap support team
 - Thursdays from 3-4pm Eastern Time
 - Attendees can use their computer's speakers and microphone or dial into our VANTS line at 1-800-767-1750 Code 89026# for audio access.
 - Join us online at <http://va-eerc-ees.adobeconnect.com/redcap/>



Need help with



- Submit a HelpDesk Ticket
 - <https://vhacdwwweb05.vha.med.va.gov/surveys/?s=W7Y9ACRKKX> (VA Intranet only)



- Contact VA REDCap Support HelpDesk
 - VIReCREDCapSupport@va.gov
 - (708) 202-2413