REDCap in a multicenter trial

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APPEX-19

- Multicenter, international randomized control clinical trial assessing the effectiveness of selfprone positioning at reducing respiratory deterioration in patients with COVID-19
- Designed to be conducted in a pandemic setting
- Relies heavily on REDCap for remote consent and data collection

NIH U.S. National Library of Medicine

ClinicalTrials.gov

Awake Prone Position for Early Hypoxemia in COVID-19 (APPEX-19)

The safety and scientific validity of this study is the responsibility of the
 study sponsor and investigators. Listing a study does not mean it has
 been evaluated by the U.S. Federal Government. Read our disclaimer
 for details.

ClinicalTrials.gov Identifier: NCT04344587

Recruitment Status (1): Enrolling by invitation First Posted (1): April 14, 2020 Last Update Posted (1): November 10, 2020

Multicenter Technical Issues

How do I distinguish between patients enrolled at a specific sites?

How do I limit patient data entered from one site from being viewed at another site?

Data Access Groups (DAGs)

Identifies group and restricts viewing of data within a database
 A 4-digit code identifies records entered from a specific DAG

- Users can only interact with records they created or created by other users in the same DAG
 - Apply to all non-core study staff at the primary site
- Users not assigned to a DAG can see <u>ALL</u> data across all sites
 - Apply to PI and core study personnel from the primary site

Essential for multicenter projects

Creating DAGs and Assigning Users

Applications Alerts & Notifications 🛅 Calendar ► Data Exports, Reports, and Stats - Data Import Tool 🗲 Data Comparison Tool Logging Field Comment Log File Repository Loser Rights and Set DAGs 💆 Data Quality External Modules CTSI Research Consulting Services Longitudinal Reports 6

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

+	Enter new group	name		
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Add Group

to

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

2	Assign user	Select User		\sim
	[No Assignmer	nt]	\sim	Assign

Data Access Groups	Users in group	Number of records in group	Unique group name 😡 (auto-generated)	Group ID number 🕑	Delete group?
Alvarado		0	alvarado	1671	×
Baylor College of Medicine	vermaj	18	baylor_college_of	1580	×

DAGs

Create data reports by site

Applications

- Alerts & Notifications
- 🗰 <u>Calendar</u>
- ▶ Data Exports, Reports, and Stats
- Data Import Tool
- 🗲 Data Comparison Tool
- Logging
- 🗣 Field Comment Log
- 🗁 File Repository
- 💄 User Rights and 🚢 DAGs
- Data Quality
- External Modules
 - CTSI Research Consulting Services
- Longitudinal Reports

L+ User Access: Choose who can edit and view this report

● View Access: Choose who sees this report on their left-hand project menu ?

🔾 🗛 🔍 🗛 🔍 All users 🛛 – OR – 🛛 🧕

Custom user access (Users in ANY groups selected below will have access)

Selected users		Selected user roles	
aabebe.kumc (Abebe Abebe)		BU Data Entry	
aberical (Andrew Berical)		Core Personnel	
agforema (Alexis Gallardo Foreman)		Off-site Data Entry	
ajabowser.piedmont (Aja Bowser)	-	Principal Investigator	•
Calastad DACa			

Selected DAGs

Alvarado	
Baylor College of Medicine	
Baylor Scott and White	
Boston University	

View a list of users who will have access to this report based on the selections above: View user access list

🗹 Edit Access: Choose who can edit, copy, or delete this report (requires user to have 'Add/Edi

All users – OR – 🔍

Custom user access (Users in ANY groups selected below will have access)

Selected users	Selected user	roles
fhoney.respireresearch (Faith Honey)	BU Data Entry	
flygrrl.umich (Kristine Nelson)	Core Personne	1
franklinnduku.va (Franklin Nduku)	Off-site Data E	ntry
garcia89 (Michael Garcia)	Principal Invest	tigator 🚽
Selected DAGs		
Alvarado		
Baylor College of Medicine		
Baylor Scott and White		
Boston University	•	

View a list of users who will have access to this report based on the selections above: View user access list

Data Reports	Patient Study ID patient_ study_ id	Event Name redcap_ event_ name	Repeat Instrument redcap_ repeat_ instrument	Repeat Instance redcap_ repeat_ instance	Date Randomization Assignment Completed? date_ randomization	Which study arm is the patient randomized to?
	<u>1584-8</u>	Enrollment			05-28-2020	Control (usual care) (0)
	<u>1584-9</u>	Enrollment			05-28-2020	Intervention (prone positioning) (1)
	<u>1589-6</u>	Enrollment			05-31-2020	Intervention (prone positioning) (1)
	<u>1589-7</u>	Enrollment			05-31-2020	Intervention (prone positioning) (1)
	<u>1582-3</u>	Enrollment			06-01-2020	Control (usual care) (0)

Multicenter Technical Issues

How do I change database privileges between core PI's, site PI's and data entry minions?

User Rights

Allows the Project Owner to designate privileges to other project members

Don't give users more access than they need!

Oser Rights	NOTE: The data entry r ability to view or edit da (e.g., data entry forms, imports or data exports Patient Consent Form (survey)	ata on a reports) No Access	web pag . It has Read	ge in RE	DCap
Image: Second Se		Access		&	
User Rights				Luit	responses
S			\bigcirc	0	
	Study Personnel Consent Form (survey)	۲	\bigcirc	0	
reports, and stats: ► Data Exports O No Access	Enrollment	\bigcirc	\bigcirc		
* De-identified means that all free-form text fields will be Remove all tagged	First EMR Data Collection	0	\bigcirc		
Identifier fields	Daily EMR Assessment	\bigcirc	\bigcirc		
Q Add/Edit/Organize Reports	Daily Body Position Assessment		\bigcirc	0	
reports (but not necessarily all	Text Terminations		\bigcirc	\bigcirc	

User Rights

Add new users: Give them custom user rig	hts or assign them to a role.	Role name (click role name to edit role)	Project Design and Setup	User Rights	Data Access Groups	Data Export Tool	Reports & Report Builder
 Add new user OR — Assign new user Create new roles: Add new user roles to w Enter new role name	 Core Personnel Off-site Data Entry 	Site Leader	*	*	*	Remove all tagged Identifier fields	
		Principal Investigator	v	~	~	Full Data Set	~

Multicenter Technical Issues

Can I create different questions/instruments for different sites within the same project?

Site Designation

Variable: hospital_site	-	Field Label	🗌 Use the
Hospital Site * must provide value	 Boston University Baylor College of Medicine Baylor Scott and White Creighton University Mayo Clinic Rochester MedStar Georgetown University Hospital MemorialCare Long Beach Medical Center Piedmont Healthcare University of Colorado University of Iowa University of Kansas University of Michigan University of Nebraska Medical Center Virginia Commonwealth University Medical Center Alvarado Desert La Paz 	Hospital Site Hospital Site Schoices (one choice per line) 0, Boston University 1, Baylor College of Medicine 2, Baylor Scott and White 3, Creighton University	Copy existing choices
	Desert		▼ How do I

Branching logic for site-specific questions



Multicenter Technical Issues - Solved

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How do I change database privileges between core PI's, site PI's and data entry minions?

Can I create different questions/instruments for different sites within the same project?

Lessons Learned

Practice! – Pre-production is your sandbox to experiment

- Assign study personnel to different DAGs, create records, create reports, view the data
- Practice records can be deleted before going live

The simplest solution is the best solution

• Branching logic adds sophistication but can also add unnecessary headaches

Questions?