

Data Management and REDCap Presentation

BPAL OR Training of Trainers May 19-21, 2021

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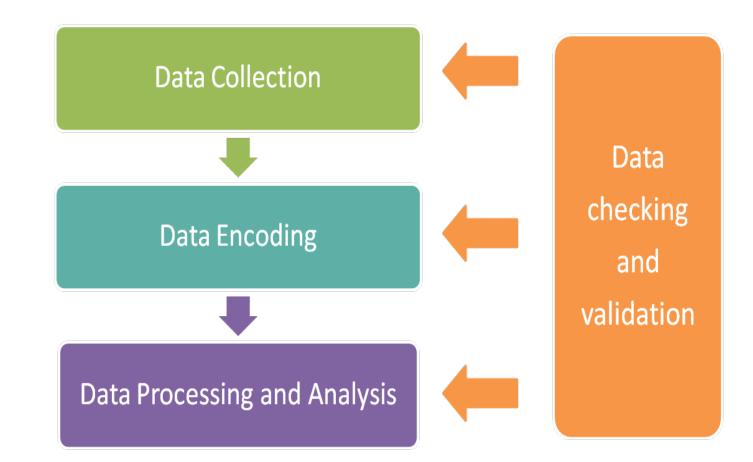
Research Specialist

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Data Management Process

There are 3 main areas in research where actual data are involved:





Data Collection

Data Sources

- DR-TB Treatment Cards and other PMDT forms
- Laboratory Results
- IT IS
- Data of MDR/RR-TB patients satisfying the inclusion and exclusion criteria will be collected from all the patients enrolled in BPaL Operational Research.



Data Collection

I2 OR Sites in 10 Regions will participate:

•NCR: Lung Center of the Philippines and Dr. Jose N. Rodriguez Memorial Hospital

•Region 1: Region 1 Medical Center and Ilocos Training and Regional Medical Center

•Region 3: Jose B. Lingad Memorial Regional Hospital

•Region 4: Batangas Medical Center

•Region 5: Sorsogon Medical Mission Group Hospital and Health Services

- •Region 6: Western Visayas Medical Center
- •Region 7: Eversley Childs Sanitarium and General Hospital



Data Collection

- 12 OR Sites in 10 Regions will participate:
 - •Region 9: Zamboanga City Medical Center
 - •Region 10: Northern Mindanao Medical Center
 - •Region 11: Southern Philippines Medical Center

Procedures in the Collection and Management: Obtain Data Sources

- OR site staff must collect data from the data sources and must ensure the following:
 - patients included meet the inclusion and exclusion criteria. If this is not done, a written report should be submitted to the research team duly signed by the treatment center head.
 - completeness and consistency of data across all data sources for each patient.

Procedures in the Collection and Management: Obtain Data Sources

- OR site staff must collect data from the data sources and must ensure the following:
 - scan the data sources (must ensure that the maximum size of every file is 50MB) and upload in REDCap. Make sure there is no identifier (e.g. name, address, etc.) of the patients.
 - All data sources must ensure compliance to the Data Privacy Act 2012.

Procedures in the Collection and Management: Fillout Data Collection Forms

- Guidelines in completing the Data Collection Forms
 - Must use black permanent pens and write legibly in print form and not script.
 - must ensure data completeness and accuracy by double checking that:

 \odot the data written in the forms are exactly the same as that in the data source/s

 \odot all due items are filled out

o number of pages in each form are complete

• All forms related to OR must be kept in a safe and secure location and OR site staff must observe strict data confidentiality.



Data Encoding

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What is REDCap?

REDCap stands for Research Electronic Data Capture

It is a browser based, meta data driven electronic data capture software.

Steps on how to access REDCap?

1.Accessthroughweblink:https://redcap.kncvtbc.org/redcap/index.php?action=myprojectsandkeyinyourusernameandpassword.

REDCap × +	
← → C redcap.kncvtbc.org/redcap/index.php?action=myprojects	x 🕐 💷 🛥 🖉 k 🕖 🗄
👖 Apps 🐵 Banco De Oro Onli 🍘 PViMS User Guide 🤤 NBI CLEARANCE	I≣ Reading list
REDCap®	~

Log In

This is the KNCV REDcap instance. You can only view projects which you have been assigned to by the administrator.

This REDCap instance is used for KNCV Research Projects. You must be assigned to a Research Projects to view/edit data in that project.

Please log in with your user name and password. If you are having trouble logging in, please contact REDCap Administrator: Egwuma Efo.

Username:		
Password:		
	Log In	Forgot your password?

Welcome to REDCap!

REDCap is a secure web platform for building and managing online databases and surveys. REDCap's streamlined process for rapidly creating and designing projects offers a vast array of tools that can be tailored to virtually any data collection strategy.

REDCap provides automated export procedures for seamless data downloads to Excel and common statistical packages (SPSS, SAS, Stata, R), as well as a built-in project calendar, a scheduling module, ad hoc reporting tools, and advanced features, such as branching logic, file uploading, and calculated fields.

REDCap Features

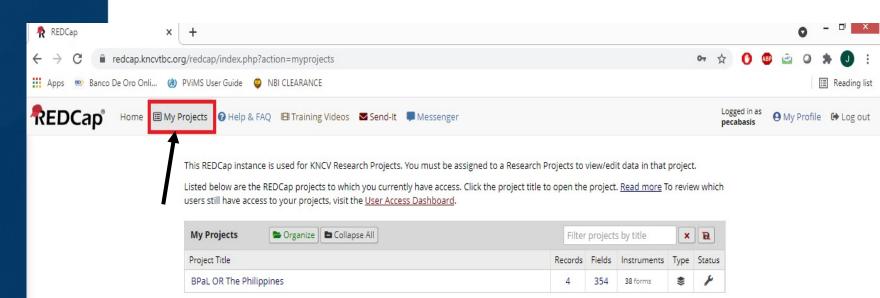
Build online surveys and databases quickly and securely in your browser - Create and design your project using a secure login from any device. No extra software required. Access from anywhere, at any time.

Fast and flexible - Go from project creation to starting data collection in less than one day. Customizations and changes are possible any time, even after data collection has begun.



Steps on how to access REDCap?

2. Once you logged in, go to "My Projects"



REDCap 10.9.1 - © 2021 Vanderbilt University

Steps on how to access REDCap?

3. Click the "BPaL OR in the Philippines"

REDCap		×	+																			0	-	∃ ×	l
← → C 🔒 re	dcap.kn	cvtbc.org	/redcap	/index.php?	action	=myproje	ects											0-	☆	0	ABP 👻	0	*	J :	
👖 Apps 🛯 🕮 Banco De	e Oro Onl	i 🍘 P	ViMS Use	er Guide 🛛 🤤	NBIC	CLEARANCE																	II R	Reading list	
REDCap	Home	🗏 My Pr	ojects	Help & F	AQ E	Training	Videos	Send	d-It I	🗭 Mess	senger									ged in as abasis	9 My	/ Profile	G	Log out	
		I	Listed be	OCap instance elow are the ill have acces ojects	REDCa ss to yo	ap projects	s to whic ts, visit t	ch you cui he <u>User A</u>	urrentl	ly have a	access.	-		en the	e project		e To rev		1						
			Project	Title		-							Re	cords	Fields	Instrume	its Type	Stati	us						
			BPaL C	DR The Philip	opines									4	354	38 forms	\$	×							

REDCap 10.9.1 - © 2021 Vanderbilt University

1. On the left side of the screen, under the data collection section, click on the "Add/Edit Records"

REDCap	KNCV Tuberculosis F Information Systems & D		ons Task Force						
Logged in as pecabasis Log out My Projects REDCap Messenger	BPaL OR The Ph	ilippines	PID 39						
Project Home and Design)								
Project Home · E Codebook Project status: Development	A Project Home								
Data Collection				tion, suc	h <mark>as a l</mark> is	t of all users with acces	to this project, gene	ral project	
Record Status Dashboard	statistics, and upcor	ming calendar eve	ents (if any).						
	La Current Users (51)	🗎 Projec	t Statist	cs				
Add / Edit Records - Create new records or edit/view existing ones	User	Expires	Records i	in projec		26			
Show data collection instruments	almagp	never	Most recent activity Space usage for docs		04.05.2021 08:18				
Applications	(Alma Palparan)				ocs	0.00 MB			
🛗 Calendar	almap (Alma Palparan)	never	* 11						
 Data Exports, Reports, and Stats Field Comment Log 	altago (Anna Leah Tago)	never		Upcoming Calendar Time Date		Description			
_	anassaie (Alimar Nassaie)	never				No upcoming events			
Help & Information									
 ✔ Help & FAQ ♥ Video Tutorials 	ansantiago (Amor Santiago)	never							
😮 Help & FAQ		never							

2. For the screening/patient information, encode all required data. Date format is mm/dd/yyyy. Please do take note of the Record ID number of each patient that you are encoding.

NEW	[Patient Study	ID: [site_code]]/[pat_study_	screen_no]/[pi	d] Record ID:	5	Table n	not displaying proper	ty ?						
Data Collection Instrument	Screening	Enrollment	Baseline	Treatment wk2	Treatment mo1	Treatment mo2	Treatment mo3	Treatment mo4	Treatment mo5	Treatment moõ	Treatment mo7	Treatment mo8	Treatment mo9	ad- hoc visit1	ad- hoc visit2
Patient	0														
Information	۲														
Inclusion Criteria															
Exclusion Criteria															
Relative Contraindications	Ø														
Written Informed															
Consent															
Enrollment Status	0														
Reasons for Non-	۲														
enrollment															
Patients Socioeconomic Status		Ø													



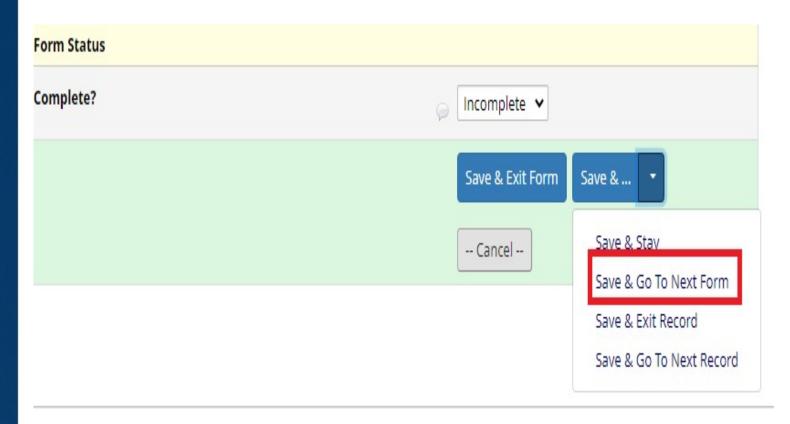
3. Click the circle under status for each data collection instrument.

Data Collection Instrument	Screening	Enrollment	Baseline	Treatment wk2	Treatment mo1	Treatment mo2	Treatment mo3	Treatment mo4	Treatment mo5	Treatment moõ	Treatment mo7	Treatment mo8	Treatment mo9	ad- hoc visit1	ad- hoc visit2	ad- hoc visit3	ad- hoc visit4
Patient Information	0	/															
Inclusion Criteria																	
Exclusion Criteria																	
Relative Contraindications	0																
Written Informed	۲																
Consent	0																
Enrollment Status																	
Reasons for Non- enrollment																	
Patients Socioeconomic Status		0															
TB Treatment History		0															
Current Episode Of TB Disease		0															
· · ·		-															

4. After encoding all the required data, nurses should leave the form status as "incomplete". Doctors must review all the encoded data and be the one to mark it as "complete".

		Save & Exit Fo
Study Site Name	Jose B. Lingad Memorial General Hospital 🗸	
* must provide value	Code/ Name of DR-TB Treatment Center	Save & 🝷
Study Site Code	ightarrow View equation	Cancel
Patient Study Screening Number	ο 001	
Patient number in DR-TB Treatment Register	43-21-0001	
* must provide value	Patient number in DR-TB Treatment Register	
Participant's Initials:	JMS	
* must provide value	 I characters remaining (First letters of the first, middle and last names) 	
Gender	O Male	
* must provide value	Gender reset	
Date of birth	27-08-1954 31 Today D-M-Y	
* must provide value	Add date of birth by considering month is july and day is 1st	
Age (yr) :	G6 View equation	
Patient Study ID: 43/001/43-21-0001		
Form Status		
Complete?	Complete	
	Save & Exit Form Save &	
-	Cancel	

5. Click the drop down arrow on the form status, save options. <u>Always choose "Save & Go To Next</u> <u>Form"</u>.



Once you click the "save & go to the next form", it will go to the inclusion criteria data collection instrument. On the left side of your screen, you will see a 'red light' or color in the circle. Color code means the following:

Incomplete (incomplete (no data saved) ?

Many statuses (mixed)

Many statuses (all same)

Legend for status icons:

Unverified

Complete



6. Encode all the answers pertaining to certain Data Collection Instrument. Again, choose "Save & Go To Next Form". Repeat step 5 and proceed to the next step.

Things to remember

- 1. Read the SOP on Data Collection and Management
- 2. Do not share your password to anyone.
- 3. ALWAYS REMEMBER/Write in the Data Collection Form the Record ID no. of your patient/s.
- 4. OR sites should encode within 48 hours.
- 5. Always choose "Save and Go to the Next Form" to avoid getting to the next patient.



Things to remember

6. OR sites can upload source document up to 50MB each file.

7. OR sites must redact all personal data of the patients.

8. OR sites must check the completeness and consistency of the data.

9. Form status:

>Unverified – Nurses

Verified – Doctors

Complete – Research Team

10. All MDR TB patients must be entered to the REDCap regardless of their enrollment status in BPAL OR.

Completeness

- The physical count of the Data Collection Forms (DCFs) should match the count of patients included in the study
- Inspect each page of the data collection form and ensure that all items/fields were answered

Consistency

 Fields or variables in the data collection form that are related to each other should have consistent data

Data validation and editing

- Identify and note the registration number/s of patients with data queries
- Obtain the paper data collection form of the patient and verify if the encoded data are the same. If the data issue is due to an encoding error (e.g. actual laboratory results written in the DCF is different from the encoded data in REDCap), correct the encoded data accordingly.
- If encoded data and data on the paper form have the same issue, then encoders should obtain the data source/s and verify the correct data. If the issue is due to a recording error (e.g. actual laboratory result is different from what is written in the DCF) based on the data source/s, revise the recorded information in the data collection form and edit the encoded data accordingly.
 - If revising an entry in the data collection form, strikethrough once the incorrect information and write the correct information beside it. The original information should still be legible in the data collection form so the changes made can be clearly identified. Any changes in the data collection form should be signed by the research team member who made the changes and the date of the change should be included.

Data validation and editing

- If issues on the data are still not resolved after verifying the data sources, clarification should be immediately requested from staff of the health facility for further verification and resolution. Research Team should also be informed of any data queries on the data sources. Feedback regarding the data query and resolution from the health facility should be noted and recorded in the Resolution of Queries Log. OR site staff can use their initials.
- No changes shall be made on the data collection form without data validation by the research specialists every week.

Data Flow and Responsible Staff

Data validation and editing

- If issues on the data are still not resolved after verifying the data sources, clarification should be immediately requested from staff of the health facility for further verification and resolution. Research Team should also be informed of any data queries on the data sources. Feedback regarding the data query and resolution from the health facility should be noted and recorded in the Resolution of Queries Log. OR site staff can use their initials.
- No changes shall be made on the data collection form without data validation by the research specialists every week.



Online data validation/online remote monitoring DCF, Treatment Cards and official results for validation in REDCap If still with findings, research specialists will inform the facility via montioring report.

Research Specialists

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Findings to be resolved by the OR site staff within 48 hours and they should use the resolution of queries log to indicate the status of the findings.

After resolving the findings, research specialists will validate the one week after the issuance of queries.

OR site staff

Research Specialists



Once resolved, the research specialist will mark it as resolved in OR site staff queries log. If there are still findings, the research specialist will re-open the query and discuss it with the OR site. **Research Specialists** Research Specialists to send a report to the OR site within 48 hours via email.

Things to remember

- OR site staff should send the Data Collection Forms to Research Team via email within 48 hours. Send it to <u>researchunit.lcpncpr@gmail.com</u> cc the assigned research specialist to your facility
 - ➢ Jamie Cabasis (<u>pecabasis.pbsp@gmail.com</u>) − LCP, R1MC, BATMC, ECS, ZCMC and SPMC
 - Ma. Rhoda Torres-Cervas (<u>mtcervas.pbsp@gmail.com</u>) – DJNRMH, ITRMC, JBL, SMMG, WVMC, NMMC

Things to remember

 OR sites should expect a monitoring report from the research team within 48 hours.

 If there is a finding from the remote monitoring, OR site staff should resolve it within 48 hours upon receipt of the query.



Guidelines in Sending Patients' Data via Email

- Make sure to redact the patients' identifier (e.g. name, birthday, address, etc.)
- Make sure it is on PDF File
- Write in the source documents the patient's unique identifier used in the BPAL OR
- Use the same email thread for each patient



Guidelines in Sending Patients' Data via Email Use the patient's Record ID number as the subject of the email

Use password when sending all DCFs.

Archiving of Data Collection Forms

 All recording and reporting forms specific for the BPaL OR shall be kept and maintained by the LCP-NCPR research team after the all participants from all the facilities are done in post treatment follow up phase.





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