





Guidance on the BPaL OR Data Collection

Pilot study to estimate the effectiveness and safety of the BPaL treatment regimen in The Philippines

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General Principles BPaL OR data collection

- BPaL OR data will be collected using the specially designed standardized data collection forms
- Still, BPaL OR patient data will be part of routine surveillance system and recorded on NTP forms
- BPaL OR Data collection will occur at BPaL OR sites from multiple sources: patient interview, data abstraction from patient medical cards, NTP registers and forms, laboratory and aDSM data system
- Data from the paper forms will be entered in the specially designed standardized electronic data collection system - REDCap, with core set of variables for BPaL OR



Data collection process

■ Paper-based & digital

- BPaL OR site staff is responsible for screening the patient and completing the BPaL OR forms
- BPaL OR site staff will be responsible for the data entry from the paper data collection forms in the REDCap database at the facility level within 48 hours
- TB doctors must verify the record in the REDCap.



Data Collection Tools: Paper Forms

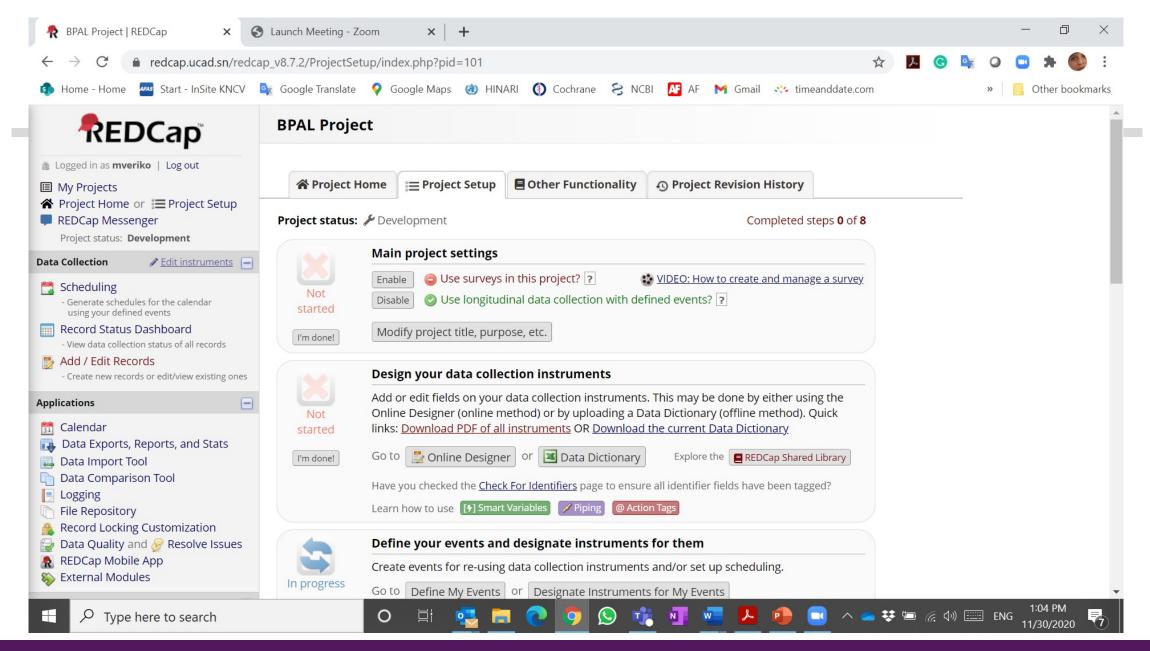
- The core set of variables agreed, and 6 standardized data collection forms developed
 - The forms can be
 - printed and then filled in by hand
 - filled in by typing in MS Word or pdf and then printed

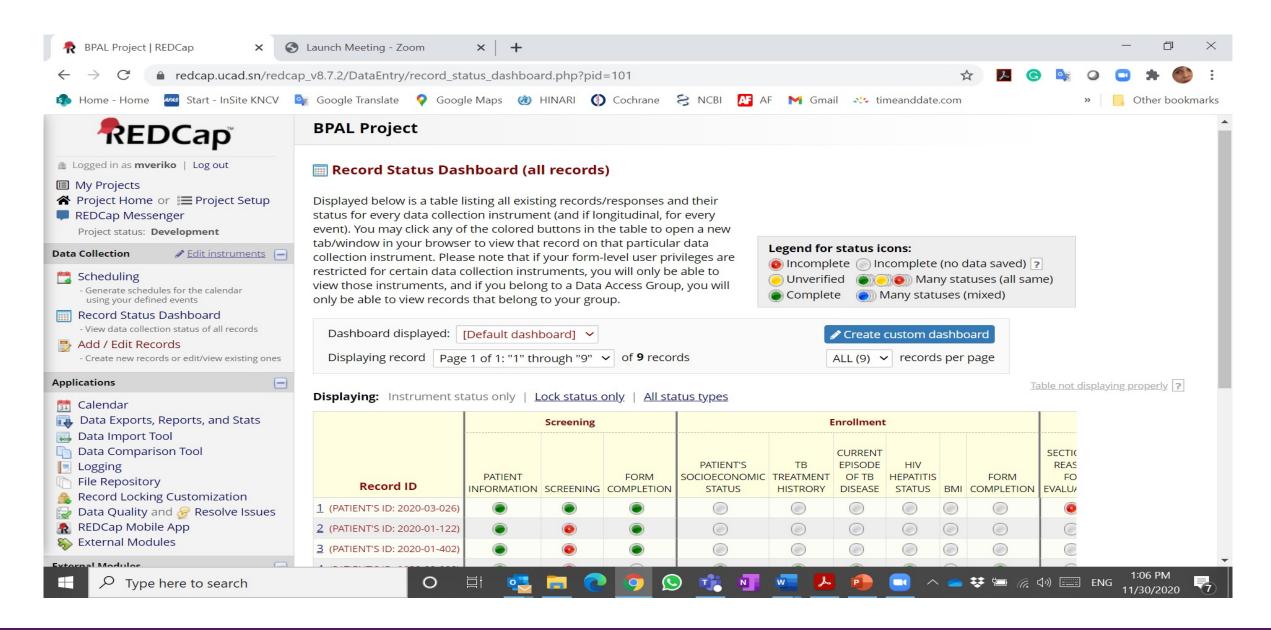


Data Collection Tools: Electronic Database

- Electronic data collection platform REDCap
 - Online use
 - Desktop version







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Project status: Development	Editing existing [Patient Study ID: 6/001/006-21-0001], Record ID: 3		Save & Exit Form
Data Collection	Event Name: Screening		Save & Stay 👻
 Record Status Dashboard View data collection status of all records 	[Patient Study ID: [site_code]/[pat_study_screen_no]/[pid]], Record	ID: 3	Cancel
 Add / Edit Records Create new records or edit/view existing ones 	Screening Date * must provide value	 B0-04-2020 I Today D-M-Y Date patient is screened 	
[Patient Study ID: [site_code]/[pat_study_screen_no]/[pid]], Record ID: 3	Patient Information COUNTRY	[⊕] The Philippines ✓	
Select other record Event: Screening	* must provide value	Country	
Data Collection Instruments: Patient Information	Study Site Name * must provide value	 B Eversley Childs Sanitarium and General Host ➤ Name of DR-TB treatment center 	
 Inclusion Criteria Exclusion Criteria Relative Contraindications 	Study Site Code * must provide value	B 6 View equation	
 Written Informed Consent Enrollment Status Reasons for Non-enrollment 	Patient Study Screening Number * must provide value	⊖ 001	
Applications	Patient number in DR-TB Treatment Register * must provide value	⊖ 006-21-0001	
Alerts & Notifications	Patient Study ID: 6/001/006-21-0001		
 Calendar Data Exports, Reports, and Stats Data Import Tool 	Gender * must provide value	 ⊢ ○ Male ● Female Gender 	
 ✓ Data Comparison Tool ➡ Logging 	Date of birth * must provide value	H 30-08-1954 Today D-M-Y	
 Field Comment Log File Repository 	Age: * must provide value	H 66 View equation	-
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DATA CC	DLLECTION FORMS	S AT A	GLAN	CE																
										Tre	atm	ent						ent ¹	Follow-u treatr	=
Form number	Form name	Screening	Enrolment	Baseline	End of wk. 2	End of mo. 1	End of mo. 2	End of mo. 3	End of mo. 4	End of mo. 5	End of mo. 6	End of mo. 7	End of mo. 8	Ad hoc visit 1	Ad hoc visit 2	Ad hoc visit 3	Ad hoc visit 4	End of treatment ¹	6 mos. after the end of treatment	12 mos. after the end of treatment
Form 1	Screening	Х																		
Form 2	Enrolment		х																	
Form 3	Evaluation			Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Form 4	Treatment Completion																	Х		
Form 5	After treatment Follow-up																		х	х
Form 6	Adverse Event			Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

¹If 6 months treatment, then week 26 If 9 months treatment, then week 39



BPaL OR Data Collection Form Completion: General Principles

- Each page of the form must have PATIENT STUDY ID on top of the page
- Pages in each paper form must be stapled together
- Keep completed forms in a specially created patient study folder with the OR name and the PATIENT STUDY ID on the cover



When filling in a printed form manually use a black pen to check the box, as in the example below





"Unknown" means any of the following:

- Patient refused to answer question
- Patient cannot remember information requested in question
- Information requested in question cannot be found from medical records



SPECIAL CONSIDERATIONS WHEN FILLING IN BPAL OR DATA COLLECTION FORMS



Form 1. Screening: Patient Information

PATIENT STUDY ID: _____-__-

STUDY SITE - STUDY SCREENING NUMBER - DR-TB REGISTRATION NUMBER

- STUDY SITE CODE:
- PATIENT STUDY SCREENING NUMBER:

Consecutive number given to a patient at the study site during the BPaL screening event despite the patient's enrollment status in the BPaL operational research.

PATIENT DR-TB REGISTRATION NUMBER:

Unique identifier of the patient on DR-TB treatment in the country. For the data validation purposes, BPaL OR patient can be traced in the national surveillance system and using Patient Study ID

• Patient Study ID is assigned when screening the patient for enrollment on the BPaL regimen irrespective of the enrollment status.

Form 1. Screening: Patient Information

 Screening data is entered in the REDCap irrespective whether the patient is eligible for BPaL treatment or not

■ If date of birth is unknown report year of birth and the 1st of January

- If less <15 years of age patient does not meet the eligibility criteria;
- if >15 and <18 years old, patient should be evaluated by the Expert Committee



Form 1. Screening: Inclusion Criteria

- Patient must have laboratory-confirmed (rapid and/or conventional DST) resistant TB to at least rifampicin and fluoroquinolones within the last three months of the screening date. Otherwise, Xpert testing, and 2nd line LPA must be done for the patient before enrollment in the study
- Note: among patients with documented MDR/RR-TB treatment non-response or intolerance, only line LPA must be done for the patient before enrollment in the study
- Patient with documented MDR/RR-TB treatment non-response or intolerance and bacteriologically confirmed active TB within the last three months of the screening date can be enrolled on the BPaL regimen irrespective of resistance to fluoroquinolones



Form 1. Screening: Relative Contraindications

- Patient must be evaluated for the Relative contraindications within the last 14 days of the patient screening date for enrollment on the BPaL regimen
- If patient has any of the relative contra-indications, then the patient must be discussed at the Expert committee meeting. The expert committee must make decision about the patient enrollment on the BPaL regimen
- If the decision is "Yes", then report the status of the relative contraindication(s) at the time of the patient enrollment in Form 1.
 Screening, Section 3. Relative contra-indications, Questions 7.



Form 2. Enrollment

- Enrollment date:
 - Date when patient signs informed consent form.
 - Enrollment date can be different from the BPaL treatment initiation date
- Patient's Socioeconomic Status
 - Employed includes self employed and business owners



Form 3. Evaluation

SCHEDULE OF BASELINE, TREATMENT AND AFTER TREATMENT EVALUATION

	Baseline	2 weeks	Monthly	End of treatment	6- and 12-months after treatment completion
Clinical evaluation	<u>.</u>	·	•		·
Clinical assessment*1	X	Х	X	Х	X
Psychosocial assessment*2	X	X	x	Х	X
Performance status ³	X				
Weight / BMI	X	Х	x	Х	X
Peripheral neuropathy screen ⁴	X	X	x	X	×
Chest X-Ray	x		X-If no response to treatment	x	×
ECG	X	X	x	X	X-If indicated
Visual acuity and colour discrimination screen	х	×	x	×	x
Assessment and follow-up of AEs	X(X)	X(X)	X(X)	X(X)	X(X)
Treatment outcome assessment				X	X
Bacteriological evaluation	•		•		· ·
Gene Xpert	X				
Sputum smear	X		x	X	×
Sputum culture ⁵	X(X)		X (X)	X(X)	X(X)
Sputum drug susceptibility testing ⁶	X (X)		X-If culture positive ⁷	,	
Other sample smear	X		X-If no response to t	reatment	
Other sample culture	X(X)		X-If no response to t	reatment	
Other sample drug susceptibility testing	×		X-If culture positive ⁷	,	
Laboratory evaluation					
Full blood count	X	X	×	Х	X-if indicated
Liver function tests (AST, ALT, bilirubin)	×	Х	×	X	X-if indicated
Thyroid stimulating hormone (TSH)	×		X - if indicated		
Serum electrolytes (Na, K, Ca, Mg)	×		×	Х	X-if indicated
Serum amylase			X - if indicated		
Kidney function tests (Urea, Creatinine)	×		X - if indicated		
BSL (fasting or random) ⁸	×				
HIV / HBV / HCV tests	×				
Pregnancy test ⁹	X		X - if indicated		

SECTION 2. REASON FOR NOT COMPLETING THE STUDY TREATMENT AS PER PROTOCOL

- The BPaL regimen not started
- Participant was withdrawn after enrollment due to protocol violation(s),
- Physician judged it no longer advisable for patient to continue the BPaL regimen,
- Participant refused further treatment and withdrew consent,
- Participant became pregnant during the study treatment
 - Complete Form 6. Adverse Event
- Other



Protocol deviation / Violation

- A protocol deviation is any change, divergence, or departure from the study design or procedures defined in the protocol whether by the subject or investigator.
- A protocol violation is any change, divergence, or departure from the study design or procedures defined in the protocol, whether by the subject or investigator, that may significantly impact the completeness, accuracy, and reliability of the study data or affect a subject's rights, safety, or well-being substantially.



Protocol Deviations

Examples of the protocol deviations:

- Patient missed 14 days on treatment with good clinical progress
- Patient enrolled on treatment without baseline Hep C testing
- Patient missed 14 days of treatment in every month of the first 3 months
- The patient fails to complete a maximum of 14 doses out of all required BPaL treatment doses within 60 days after the intended end of the BPaL treatment



Examples of the protocol violation:

- Patient started on treatment without baseline ECG and following ECG monitoring not conducted
- Patient misses > total of 14 doses within the first four weeks of the BPaL treatment
- Patient misses >35 consecutive doses of the BPaL treatment
- Patient fails to complete required number of the BPaL treatment doses within maximum period 60 days after intended end of the treatment



SECTION 3. INTERIM TREATMENT OUTCOME (SPUTUM CULTURE CONVERSION)

Date of initial sputum culture conversion: _____

MM-DD-YYYY

- Two consecutive cultures taken at least 30 days apart are found to be negative.
- Record the specimen collection date of the first negative culture.



SECTION 4. END OF TREATMENT OUTCOME

- Cured: BPaL treatment completed without evidence of failure AND two or more consecutive cultures taken at least 30 days apart within the last three months of treatment, are negative.
- Treatment completed: BPaL treatment completed without evidence of failure BUT no record that two or more consecutive cultures taken at least 30 days within the last three months of treatment, are negative.
- Treatment success: The sum of cured and treatment completed.



SECTION 4. END OF TREATMENT OUTCOME

- Treatment failed:
- Lack of culture conversion at the 6th month of treatment, or
- Culture reversion at 5th month or later in a patient with previous culture conversion to negative
- Decision to terminate treatment early because of:
 - poor clinical or radiological response as decided by the expert committee; or
 - permanent discontinuation of either Bdq or Pa, or both at any time due to Adverse Event; or
 - Permanent discontinuation of Lzd if having less than four weeks of full dosage due to Adverse Event.



SECTION 4. END OF TREATMENT OUTCOME

- Died: A patient who dies for any reason during the course of treatment.
 Complete Form 6. Adverse Event
- Lost to follow-up: A patient whose treatment was interrupted for 2 consecutive months or more.
- Not evaluated: A patient for whom no treatment outcome is assigned, including but not limited to participant was withdrawn after enrollment due to protocol violation(s)

SECTION 4. END OF TREATMENT OUTCOME

Treatment termination due to baseline resistance to any of the BPaL component drugs (Bedaquiline, Pretomanid, Linezolid): Patients who receive culture-based DST results several months after starting the BPaL regimen are to be switched to an individualized regimen if resistance to BPaL component drugs is discovered. For such patients, this outcome should be reported.



- Complete the form even if patient
- 1. Dies during the after-treatment follow-up period
- 2. Withdraws consent during the after-treatment follow-up period
- 3. Lost-to-follow-up during the after-treatment follow-up period



Form 6. Adverse Event

- Complete the form if patient becomes pregnant during the treatment
 - Report Pregnancy in SECTION 7. INFORMATION CONCERNING PREGNANCY
 - Follow-up pregnant patient and report information concerning infant(s) in SECTION 8. INFORMATION CONCERNING INFANT(S)
- Complete the form if patient dies during the treatment



- If Form 6. Adverse Event is completed, then Form 3. Evaluation must be completed as well (only relevant sections) even at the ad hoc visit
- Even if ad hoc visit, check one of the following options:
 - □ Treatment, Week _____
 - □ End of treatment, Week ____
 - □ Follow-up after treatment completion, Month _____



Questions?

