

# TB DIAH

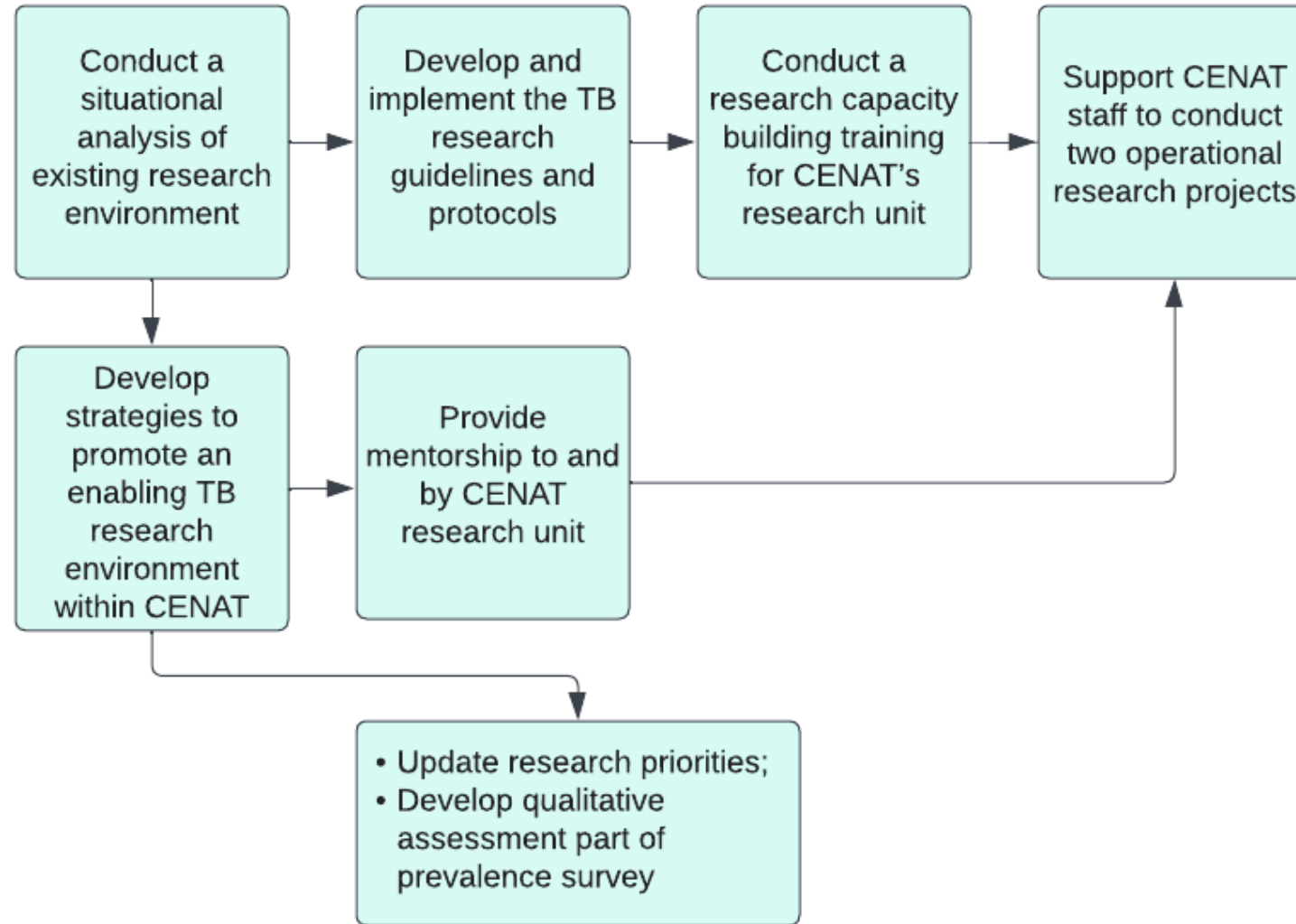
TUBERCULOSIS DATA, IMPACT ASSESSMENT  
AND COMMUNICATIONS HUB

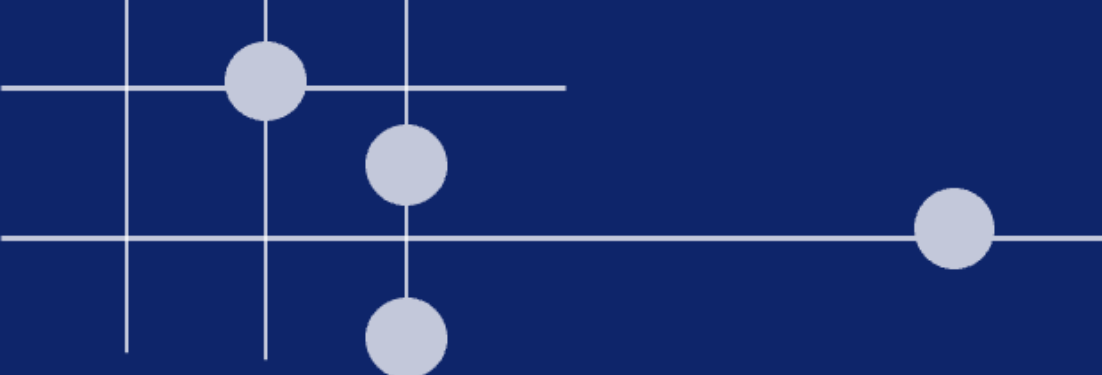
## TB DIAH Research Capacity Building Activities in Cambodia

2022–2023



# Building Research Capacity of CENAT





# Conducting TB Research Situation Analysis

# Situational Analysis of Existing TB Research Environment in Cambodia



# Situational Analysis of Existing TB Research Environment in Cambodia

## SWOT Analysis of TB Research Environment

Strengths	Weaknesses
<ul style="list-style-type: none"><li>● Research is listed as a strategic pillar in NSP, endorsed by MOH</li><li>● CCTBR-established by CENAT. WHO, USAID, NIPH, and other stakeholders, could provide decision-making and support in TB research.</li><li>● CCTBR has made some progress to identify the research priorities in research agenda</li><li>● CENAT develops the coordination and support network of several partners with research experiences, such as NIPH, KHANA, IPC</li></ul>	<ul style="list-style-type: none"><li>● Newly appointed research staff have insufficient research experiences in study design and data analysis</li><li>● Little motivation to participate in the whole research process</li><li>● Most TB research projects are not led by CENAT</li><li>● Research capacity and experiences could take a long time to build</li><li>● English writing skills for reports and research articles are crucially needed</li></ul>

# Situational Analysis of Existing TB Research Environment in Cambodia

## SWOT Analysis of TB Research Environment

Opportunities	Threats
<ul style="list-style-type: none"><li>• Technical support could be sought from stakeholders (NIPH, KHANA, IPC, CHAI)</li><li>• Collaborations with foreign research institutions and universities, with the support by some stakeholders (NIPH, KHANA, IPC)</li><li>• Research capacity building support from other stakeholders, including NIPH, KHANA, and foreign universities</li><li>• Small research grants might be cut out from some existing TB projects</li></ul>	<ul style="list-style-type: none"><li>• Competitive tasks and other job responsibilities of CENAT research staff</li><li>• CENAT staff devoted most time to “investigation” (data collection), but not to research design and analysis</li><li>• Limited commitment in research: most are only interested in data collection and field visits, but not in study design and data analysis</li><li>• Limited external financial support in TB research</li><li>• Lack of sustainable funding in TB research</li><li>• Limited local academic research: very few Master thesis topics in TB research have been done at NIPH</li><li>• Provincial health staff work in all infectious diseases, so TB research is not in their top priority</li><li>• TB data resources are managed by different stakeholders, but not all supervised by CENAT</li><li>• After completing TB projects, all donors do not request the NGOs to transfer TB data to CENAT</li><li>• Economic analysis, qualitative research, and genomic research are infrequently applied in TB research.</li></ul>

# Situational Analysis of Existing TB Research Environment in Cambodia

Table 4. Cambodia's progress compared to the WHO global action framework of TB research

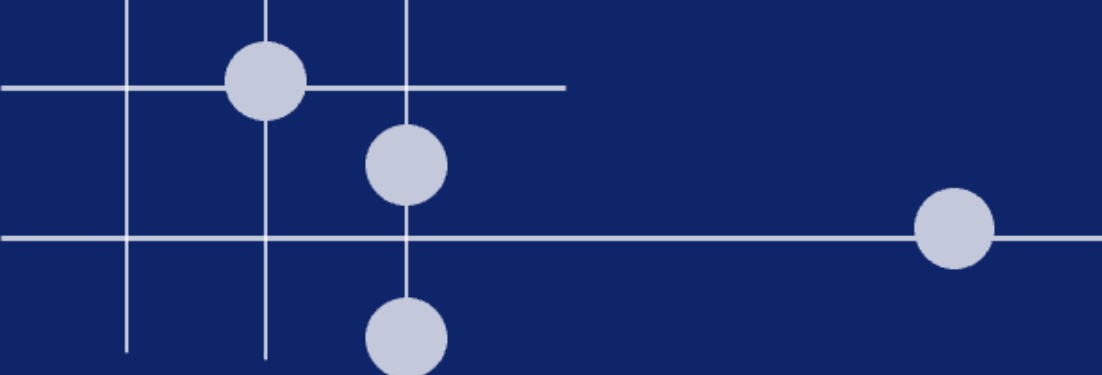
2020		2025	
WHO Milestones	Cambodia's Progress	WHO Milestones	Cambodia's Progress
Established a national TB research network	CCTBR was established in late 2020	Developed and implemented a national TB research plan	In progress by CENAT and CCTBR
Integrated TB research within the National TB Strategic Plan	NSP 2021-2030 was endorsed by CENAT in 2021	Established sustained mechanisms for national TB research funding	Difficulties in identifying sustainable funding sources
Developed a list of all national TB research priorities	CCTBR developed the list of TB research in December 2021	Created a strong TB research capacity	In progress with stakeholders
Initiated in-country research training	In progress by USAID-funded STAR and TB DIAH projects	Empowered a strong and self-sustained TB research community	It requires the sustainable funding with the collaborations with NIPH/KHANA/IPC

# Action Items Proposed to Improve TB Research Environment at CENAT

## **CENAT Research Capacity Building:**

- ✓ TB DIAH conducts capacity assessment, develops curricula, and conducts training sessions and workshops.
- ✓ Research capacity building should be developed to strengthen CENAT staff's research skills and experience, through workshops, self-learning modules, monthly research discussions, regular mentoring, and participation in small research projects.
- ✓ Small grants could be cut from existing TB projects to create research opportunities.
- ✓ The CENAT research unit could choose one or two research priorities from the research agenda to develop small research projects.
- ✓ TB DIAH and STAR projects collaborate to develop the on-the-job training modules with routine research consultations to the researchers from the CENAT research unit and other units.





# Developing Research Capacity Building with CENAT

# Research Capacity Building Plan for CENAT

## Research Capacity Building Plan for the National Center for Tuberculosis and Leprosy Control (CENAT) Research Staff

February 2023



# Strengthening CENAT's Research Capacity

## Research capacity building modules in English and Khmer

5 training workshops and 5 Khmer curricula:

Workshop #1: Basic Epidemiology & Research Ethics (30–31 January 2023)

Workshop #2: Research Protocol and Quantitative Research Methods (6–7 March 2023)

Workshop #3: Qualitative Research Methods and Data Analysis (9–10 March 2023)

Workshop #4: Quantitative and Qualitative Data Analysis (7–9 & 15–16 August 2023)

Workshop #5: English Grammar and Research Writing (28–29 September 2023)

# Five Research Capacity Building Curricula for CENAT's Research Staff

## កម្មវិធីសិក្សាសម្រាប់ការពង្រឹងសមត្ថភាពលើការសិក្សាស្រាវជ្រាវជំងឺរបេង ម៉ូឌុលទី១

មូលដ្ឋានគ្រឹះអេតិមនៃវិទ្យាសាស្ត្រ ពិសោធន៍ស្រាវជ្រាវ និងគ្រមសីលធម៌សម្រាប់ការស្រាវជ្រាវ

មករា ឆ្នាំ២០២៣



## កម្មវិធីសិក្សាសម្រាប់ការពង្រឹងសមត្ថភាពលើការសិក្សាស្រាវជ្រាវអំពីជំងឺរបេង

ម៉ូឌុលទី២: ពិសោធន៍សម្រាប់ការស្រាវជ្រាវ និងវិធីសាស្ត្រស្រាវជ្រាវបែបគុណវិន័យ

មីនា ២០២៣



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ម៉ូឌុលទី៣: វិធីសាស្ត្រស្រាវជ្រាវបែបគុណវិន័យ និងការវិភាគ

មីនា ២០២៣



## កម្មវិធីសិក្សាសម្រាប់ការពង្រឹងសមត្ថភាពលើការសិក្សាស្រាវជ្រាវជំងឺរបេង ម៉ូឌុលទី៤

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## កម្មវិធីសិក្សាសម្រាប់ការពង្រឹងសមត្ថភាពលើការសិក្សាស្រាវជ្រាវជំងឺរបេង ម៉ូឌុលទី៥

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# Research Capacity Building Workshop Report

## TB Research Capacity Building Workshops

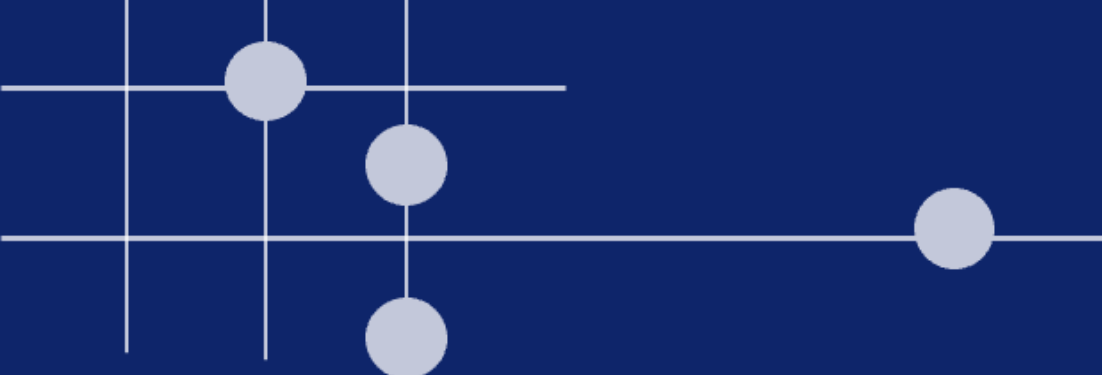
### Workshop Report



# Research Capacity Building



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# Conducting TB Operational Research Projects by CENAT

# TB Operational Research Projects by CENAT

## CENAT Research Capacity Building:

- Small grants were developed from TB DIAH to create a research opportunity for CENAT's research staff.
- CENAT research staff chose two research priorities from the research agenda to develop small research projects: TPT and TBMIS. (March–April 2023)
- TB DIAH and STAR projects collaborated to develop the on-the-job training modules with research consultations to the CENAT research staff. (April–September 2023)
- Two research protocols were developed and approved by NECHR. (May–June 2023)
- Data collections were conducted in three provinces. (July–August 2023)
- Data analysis and manuscript drafts were completed with the technical support from researchers at TB DIAH, STAR, and NIPH. (August–October 2023)



# NECHR-Approved Operational Research Projects



ក្រសួងសុខាភិបាល  
MINISTRY OF HEALTH

គណៈកម្មាធិការជាតិរៀបចំការស្រាវជ្រាវ  
National Ethics Committee for Health Research

Nº 186 NECHR

Dr. Huot Chan Yuda

**Project:** The Assessment of Electronic TB MIS Application in Selected Provinces in Cambodia. Version N° 1, dated 07<sup>th</sup> June 2023.

**Reference:** 23<sup>th</sup> June 2023 NECHR meeting minutes

Dear Dr. Huot Chan Yuda,

I am pleased to notify you that your study protocol entitled "The Assessment of Electronic TB MIS Application in Selected Provinces in Cambodia. Version N° 1, dated 07<sup>th</sup> June 2023" has been approved by National Ethics Committee for Health Research (NECHR) in the meeting on 23<sup>th</sup> June 2023. This approval is valid for twelve months after the approval date.

NECHR also wish to remind the Principal Investigator that all research activities to be conducted during the COVID-19 pandemic must strictly follow the latest prevention measures set by the MOH and the relevant local authorities.

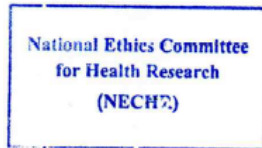
The Principal Investigator of the project shall submit following document to the committee's secretariat at the National Institute of Public Health at #80, Samdach Penn Nouth Blvd (289), Sangkat Boeungkok 2, Khan Tuol Kork, Phnom Penh. (Tel: 012 528 789, 086 762 113, 012 203 382. Email: [nouthsarida@gmail.com](mailto:nouthsarida@gmail.com), [cheatasoft27@gmail.com](mailto:cheatasoft27@gmail.com)):

- Annual progress report
- Final scientific report
- Patient/participant feedback (if any)
- Analyzing serious adverse events report (if applicable)

The Principal Investigator should be aware that there might be site monitoring visits at any time from NECHR team during the project implementation and should provide full cooperation to the team.

Regards,  
Chairman

Prof. ENG HUOT



ព្រះរាជាណាចក្រកម្ពុជា  
KINGDOM OF CAMBODIA/  
ជាតិ សាសនា ព្រះមហាក្សត្រ  
NATION RELIGION KING

ថ្ងៃទី ២៦ ខែ មិថុនា ឆ្នាំ ២០២៣  
Phnom Penh June 26, 2023



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**Project:** Factors Associated with Non-Completion of Tuberculosis Preventive Treatment: A Secondary Data Analysis from Programmatic Implementation in Cambodia. Version N° 1, dated 07<sup>th</sup> June 2023.

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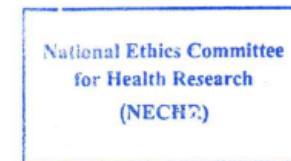
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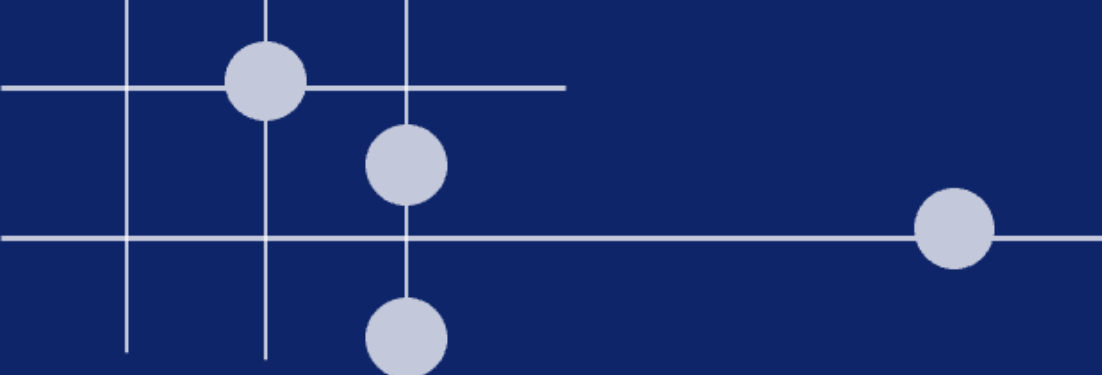
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Phnom Penh June 26, 2023




# Developing TB Research Guidelines and Protocol

# TB Research Guidelines and Protocol, Cambodia


**TB Research Guidelines and Protocol**




September 2023



**គោលការណ៍ណែនាំ និងពិធីសារស្រាវជ្រាវជំងឺរបេង**



ខែកញ្ញា ឆ្នាំ២០២៣



# TB Research Guidelines & Protocol

The objectives of TB Research Guidelines and Protocol are intended to:

- Ensure the integrity of TB research
- Provide standard procedure and format for TB research activities
- Establish and update TB research agenda
- Improve the quality of TB research publication and dissemination

# TB Research Guidelines & Protocol

1. CCTBR & TB Research Agenda
2. Research Protocol Development
3. Research Ethics and Review
4. Research Data Management
5. Research Data Analysis
6. Research Publication and Dissemination



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PR-23-072 TB

