



Center for Tropical Medicine
Universitas Gadjah Mada

Zero TB city is a project conducted by the Center for Tropical Medicine, Faculty of Medicine, Public Health, and Nursing of Gadjah Mada University (PKT FK-KMK UGM) in collaboration with Dinas Kesehatan Yogyakarta, Dinas Kesehatan Kulon Progo, and Burnet Institute, Australia. The project aims to eliminate tuberculosis (TB) in Yogyakarta and Kulon Progo by applying active case finding (ACF), immediate TB treatment, and prevent TB disease among those in high risk of developing the disease.

The ACF team conducts mobile screening in selected areas for TB screening. With digital X-ray machine, delivered in a van, the team screens selected populations to identify presumptive TB cases and take sputum sample from those eligible for laboratory examination. The doctor is a member of ACF team, under the coordination of team leader. She/he will interpret chest X-ray results, to classify the participants into presumptive TB patients or normal. The selected candidate will also decide the eligibility of laboratory examination, taking TB preventive treatment, or taking TB infection test.

MEDICAL DOCTOR ACF

RESPONSIBILITIES

1. Interpret the chest X-ray image of each participant of ACF activities and assign the result according to the standard classification of CXR in this activity.
2. Decide the eligibility of each participant for laboratory examination based on the symptoms and CXR interpretation; decide whether a participant needs TB preventive treatment or TB infection test
3. Review the presumptive TB cases data. Based on the geneXpert, CXR, and clinical symptoms and signs, assign the final diagnosis to the participants.

REPORT TO

1. Team leader of ACF team
2. Project Manager of Active Case Finding

COLLABORATING WITH

1. ACF nurses
2. ACF radiographers
3. Local volunteers

ACTIVITIES

Interpret the chest X-ray image of each participant of ACF

- a. Receive each image from the digital X-ray image and verify the identity
- b. With the help of artificial intelligence (AI) program for the CXR, the doctor finds any abnormality of lung and pleura
- c. Assign the reading result into the categories written in the form. It is mainly to assign the image results into positive or negative screened participants
- d. Participate in the training related to CXR reading, conducted by the Zero TB project

Decide specific action for screening participants

- a. Decide whether a participant needs to take sputum examination based on CXR image and cough for 2 weeks or more
- b. Decide whether a participant needs to take TB preventive treatment based on:
 - i. Absence of 2 weeks cough and having CXR negatively screened for TB for HIV negative persons; absence of any symptoms and having CXR negatively screened for TB for PLHIV; AND
 - ii. Whether the participant is part of a high risk group (PLHIV, < 5 year old living with a TB patient). TB preventive treatment should be requested without TB infection test
 - iii. Whether the participant is a ≥ 5 year person living with a bacteriologically confirmed TB patient or <5 year person living with a clinically diagnosed TB patient; TB preventive treatment is given if TB infection test is positive
- c. Decide whether a participant needs to do TB infection test, based on
 - i. Absence of 2 weeks cough and CXR abnormality AND whether the participant is ≥ 5 year person living with a bacteriologically confirmed TB patient or <5 year person living with a clinically diagnosed TB patient

Review the presumptive TB cases data. Based on the geneXpert, CXR, and clinical symptoms and signs, assign the final diagnosis to the participants.

- a. In one day of every 2 weeks, review the presumptive TB cases data
- b. Assign the final diagnosis to each participants
- c. Discuss any difficult cases with the internist, radiologist, and paediatrician any time needed
- d. Prepare the cases for monthly discussion with internist and paediatrician and Puskesmas doctors

QUALIFICATIONS

Essential

1. Registered medical doctor (having STR)
2. Intermediate level of English in writing and speaking

Assets

1. Having clinical experience, related to chest X-ray interpretation
2. Experience working in tuberculosis field
3. Experience working with tuberculosis research, survey, or population screening

How to apply

Send your application to <https://bit.ly/dokterACF-ZTB>

Deadline

Sunday, 10 July 2022

For further information

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