Unit 7

Introduction to TB and TB Vaccines

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| OverviewThe purpose of this unit is to provide trainees an introduction to tuberculosis (TB) and TB vaccine research, now that this has been added to the HVTN’s scope of work in the current DAIDS funding cycle (2021).ObjectivesBy the end of the unit trainees will:* Be familiar with tuberculosis, how it is diagnosed and treated, and how it differs from HIV
* Be familiar with some of the history of TB vaccination with the BCG vaccine
* Understand why additional vaccines for TB are needed

Materials* *Tuberculosis101.ppt*

Approximate time (60 minutes) |

# Warm-up/Introduction (5-10 minutes)

## Preparation

**Step 1:** Ask trainees if they have any personal experience with tuberculosis (TB), such as knowing someone who has had it. Note that TB occurs more commonly in some regions of the world than others, so it may be less likely for someone in the US to have experience with it, but more common for someone in sub-Saharan Africa or Latin America. If anyone is willing, ask them to share their experience with TB (their own experience or someone they know), such as what it was like to have the illness and receive treatment, or how it impacted the person they know. In follow-up, ask if anyone has had a TB vaccine (called BCG) already. If TB is unfamiliar to the group and/or few people have been vaccinated, explain that the following presentation will give them some background to introduce the topic, and explain why the HVTN is working in this area of research.

# Presentation of Information (40-50 minutes)

## Preparation

* *Tuberculosis101.ppt*

## Procedure

**Step 1:** Go through the PowerPoint presentation using the speaker’s notes. Stop for questions as they come up. If there are questions you cannot answer, write them down and contact your Community Engagement Project Manager at HVTN Core to help provide answers.

** Wrap Up Activities (10 minutes)**

**Procedure**

**Step 1:** Ask the group how prepared they feel to tell people in their community why TB vaccines have been added to the HVTN’s scope of work. On a scale from 1 (not ready at all) to 10 (very ready and confident), where are they? Go around the room and gauge the level of readiness of the group.

**Step 2:** Assess the group’s interest in learning more about TB and TB vaccines. What topics would they like to know more about? Share this information with your HVTN Community Engagement Project Manager at Core, so that more training opportunities can be identified and developed that match the community members’ interests.

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| Additional resources* Global Tuberculosis Report 2021 from World Health Organization: <https://apps.who.int/iris/rest/bitstreams/1379788/retrieve>
* Tuberculosis in the Americas: Regional Report 2020 from Pan American Health Organization and World Health Organization: <https://iris.paho.org/bitstream/handle/10665.2/55194/9789275124475_eng.pdf?sequence=4&isAllowed=y>
* Good Participatory Practice: Guidelines for TB Vaccine Research 2017 published by AERAS, available for free download at [www.aeras.org](http://www.aeras.org)
* “Self-Study Modules on Tuberculosis,1-5” from the US Centers for Disease Control and Prevention/Division of Tuberculosis Elimination, 2016, available for free download at <https://www.cdc.gov/tb/publications/slidesets/selfstudy/default.htm>
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