



The PRISM-TB Trial

Program for Rifampicin-resistant disease with Stratified Medicine for TB

BACKGROUND

Drug-resistant TB—a strain of TB that can't be cured by standard first-line antibiotics—is more difficult and expensive to treat. According to the World Health Organization (WHO), 410,000 people a year fall ill with drug-resistant TB. Recent advances have improved treatment for drug-resistant TB using a combination of more powerful, safer medicines: bedaquiline, pretomanid, linezolid, and moxifloxacin. But the current WHO-recommended regimen still takes six months of treatment. People receive the same length of treatment, regardless of their individual risk factors for unfavorable treatment outcomes.



STUDY GOAL

To evaluate whether shorter treatment, three or four months, depending on individual risk factors (stratification) for treatment failure or relapse, is effective at curing drug-resistant TB in adults and adolescents.



STUDY LEADERS

PRISM-TB is led by **Gustavo Velásquez** at the University of California, San Francisco (UCSF) and the clinical trials unit at the UCSF Center for Tuberculosis in partnership with Johns Hopkins University, KNCV Tuberculosis Foundation, Treatment Action Group, and the Elizabeth Glaser Pediatric AIDS Foundation.



STUDY POPULATION

Adults and adolescents, including pregnant and lactating people, aged ≥ 14 years with confirmed TB of the lungs that is resistant to the first-line antibiotic rifampicin.



STUDY LOCATIONS

India, Moldova, Mongolia, Peru, Philippines, South Africa, and Vietnam

STUDY DESIGN ([ClinicalTrials.gov NCT06441006](https://clinicaltrials.gov/ct2/show/study/NCT06441006))

PRISM-TB is a Phase III **multi-arm multi-stage, randomized, controlled, noninferiority** trial enrolling 690 participants. The main objectives are to find out:

- Whether shorter treatment strategies are as effective as standard treatment—as measured by TB-related unfavorable outcomes (death, relapse, or treatment failure) at 18 months after treatment. The treatment strategies being tested are:
 - Four months for all participants and
 - Three months (shorter) for easier-to-treat TB, six months (longer) for harder-to-treat TB
- Whether shorter treatment strategies are as safe as the control, by looking at the proportion of participants who experience adverse events that are serious or of special interest.

Multi-arm multi-stage (MAMS) trials allow comparing several regimens, with prespecified decision-making for which regimen(s) can advance to the next stage and are more efficient than multiple separate studies.

A **randomized controlled** trial assigns participants to the study intervention (in this case, the three- or four-month regimens) or the control (the standard of care), to balance participant characteristics with a goal of minimizing bias.

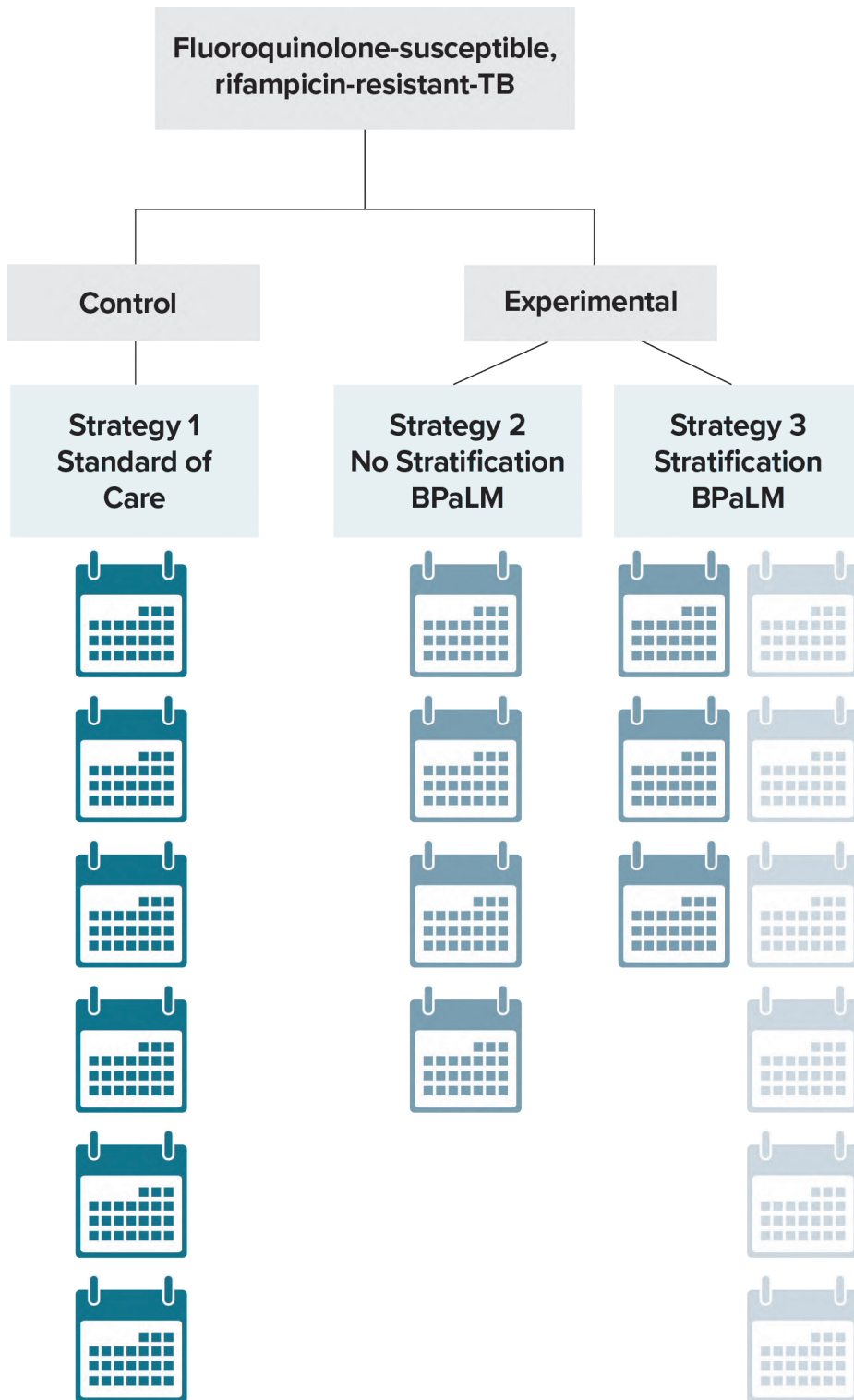
Noninferiority trials test that the treatment being studied is not worse than standard treatment.

Relapse is a return of TB disease following a period of partial improvement.

Treatment failure is when the treatment fails to cure TB.

Adverse event is any unfavorable and unintended sign (including laboratory test results), symptom or diagnosis that occurs in a study participant during the study.

STUDY DESIGN, CONTINUED



B=bedaquiline, Pa=pretomanid, L=linezolid, M= moxifloxacin

ABOUT SMART4TB

This report is made possible by the support of the American people through the United States Agency for International Development (USAID). The contents are the sole responsibility of SMART4TB and do not necessarily reflect the views of USAID or the United States Government or consortium collaborators or members.

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