TB Epidemiologic Studies Consortium Update

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TB Annual Meeting
March 9, 2017
Summary of TBESC Activities

• Part A (mostly Baltimore City) 2011-January 2017
  – Head to head comparison of TST, QFT, and TSPOT for >20,000 enrollees in 10 sites in the US
  – 2-year follow-up for (+) to detect TB disease
  – Substantial numbers of enrollees for HIV+ (>2,500) and for children <5 years old (>600)
  – QFT-Plus head-to-head comparison with QFT-GIT (N=500); additionally targets CD8 cells as part of cellular immune response
Summary of TBESC Activities

- **Part B** (Baltimore City and County)
  - January-June 2017: LTBI activities in LHDs (LTBI screening and treatment)
  - July-December 2017: LTBI activities with other providers serving high risk populations

- **Part C** – future, LTBI interventions

- **Part D** – ~Fall 2017: TBTC Study 37, a clinical trial for 6 week regimen of INH/rifapentine, daily self-administered
Part B: Reaching TB Elimination

- Plateau in TB case numbers
- TB transmission in the U.S. is limited, though persistent
- TB elimination: <1 case per million population
- We cannot approach TB elimination without proactively tackling latent TB infection (LTBI)
- New tests (IGRAs) for diagnosing LTBI
- Shorter LTBI treatments, with high completion rates
- But ...

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A.N. Hill et al, Epidemiol Infect 2012;140:1862
Part B: Reaching TB Elimination

January 2017-June 2017

• Review of local health department LTBI services
• We can do better but can’t get to TB Elimination!
• Funding cuts = fewer populations served by LHD (contacts, B-waivers)
Part B: Challenges to TB Elimination – June 2017

• We don’t know enough about the TB ‘at risk’ populations: WHO, WHERE, HOW MANY?

• We don’t know WHICH non-health department providers serve ‘at-risk’ populations of interest

• We don’t know who IS and who IS NOT receiving LTBI services outside the health departments
Part B: TB Prevention Cascade to Cure ("Treatment as Prevention")

![Chart showing progression from All LTBI (known/unknown) to Engaged in care, Tested for LTBI, LTBI/no TB, Offered LTBI tx, Started LTBI tx, and Completed LTBI tx. The chart shows percentage of population at each stage.]

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Questions?