THE LITTLE STUDY THAT COULD

Meeting the Challenges of Multi-Site Studies in Diverse Populations











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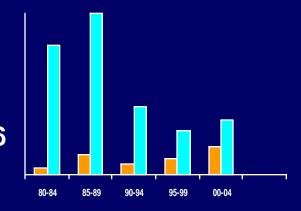
Consortium



Changing Research Needs

Increase in multi-site studies

✓ McWilliams R, et al. JAMA 2003; 290: 360-36



- U.S. population is increasingly diverse
 - **✓**9.5% born in another country
 - Studies need to reflect U.S. population





Challenges

- Institutional Review Boards (IRBs)
- Enrollment barriers
- Maintaining data quality
- Operational consistency among diverse sites





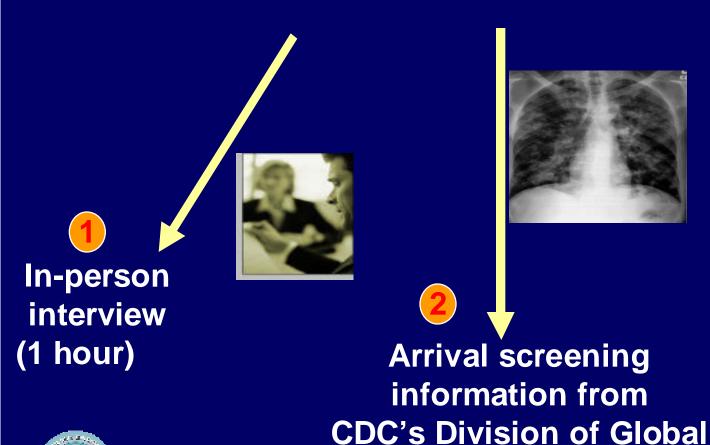
Missed Opportunities for Prevention of Tuberculosis in Foreign-Born Persons

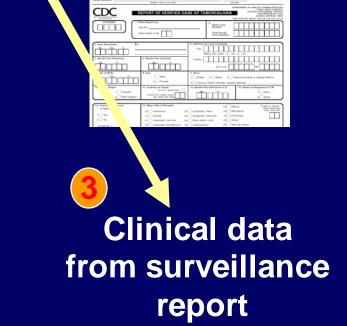
- Majority of TB cases in U.S. now in foreign-born
- Insufficient data on the epidemiology of TB in the foreign-born population
- Study: Interviewed and collected clinical data on 1,695 foreign-born persons with TB





Elements of the Study

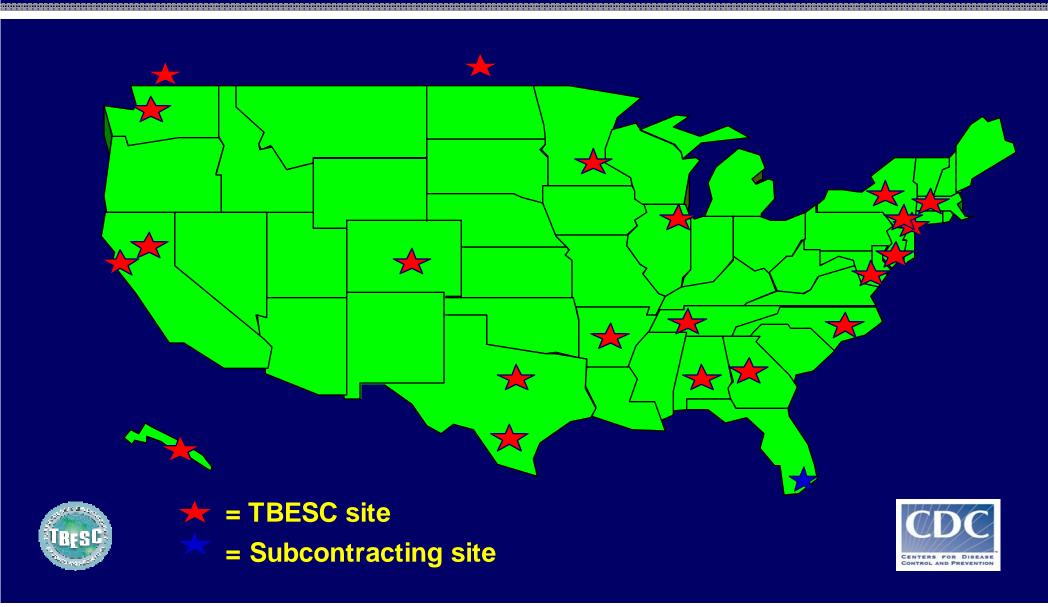






Migration and Quarantine

Missed Opportunities for Prevention of Tuberculosis in Foreign-Born Persons



Meeting the Challenges: IRB Review

- Approval from 35 IRBs
 - 490 reviews over life of study
- Simple process for using central IRB
- A third of IRBs ceded oversight
- Agreement for no changes to central IRB-approved consent forms





Meeting the Challenges: Enrollment (Recruitment)

- Participants spoke 35 different languages
- Questionnaire and consent forms translated into 10 languages
- Short Form translation
 - turnaround for new forms: 1 week
- 9 persons not enrolled because of language





Meeting the Challenges: Enrollment (Interviewing)

- A single phone interpretation company
 - **✓** Access to questionnaire electronically
- Adapted interviews to participants' needs
 - ✓ Convenient locations home, library, etc.
 - ✓ Convenient times weekends, after hours





Meeting the Challenges: Training

- Simulated patients, remote observers
- 3 in-person trainings
- Remote training program for new site hires and refresher





Meeting the Challenges: Maintaining Data Quality

- Enrollment at 22 U.S. and Canadian sites
- Site specific implementation and quality
 - assurance plans
- Weekly recruitment logs
- Biweekly conference calls
- Site monitoring visits
- Web-based documentation system





Meeting the Challenges: Maintaining Data Quality

- Web-based secure data entry system
 - Remote access for all sites
 - ✓ Built in quality assurance checks
 - **✓** Remote trainings and refreshers





Conclusions

- Multi-site epidemiologic studies require flexibility, innovation, adaptation
- Study exceeded enrollment goal of 1,500
- 8 initial papers in preparation
- Approaches may help other investigators contemplating multi-site studies





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