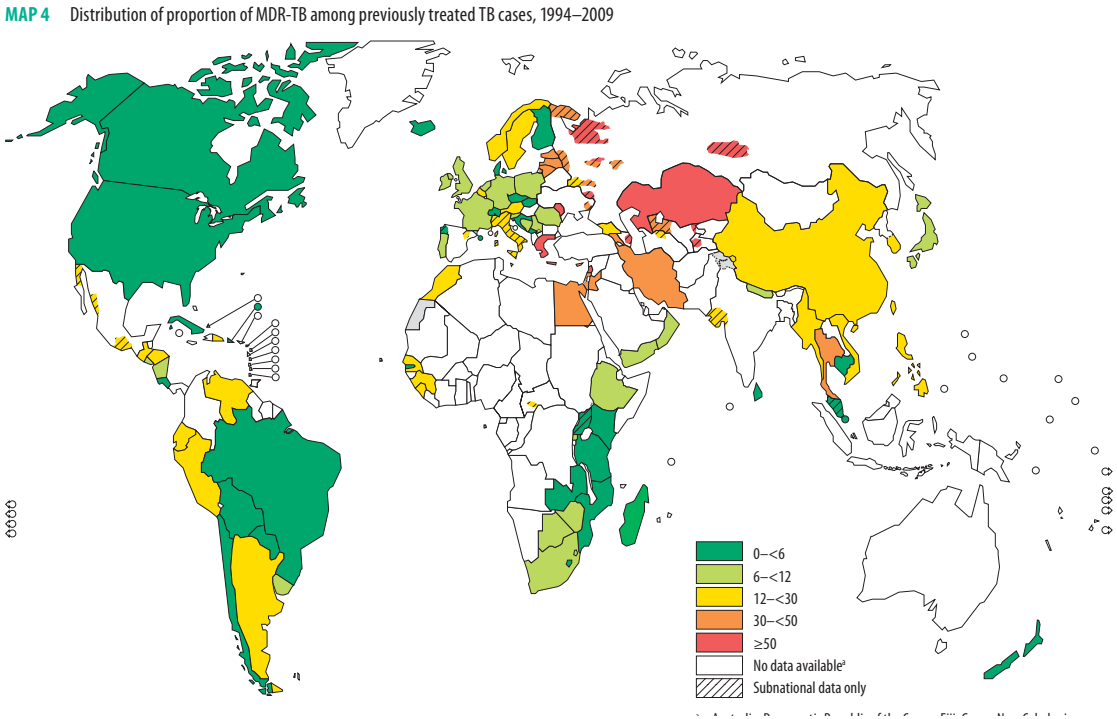


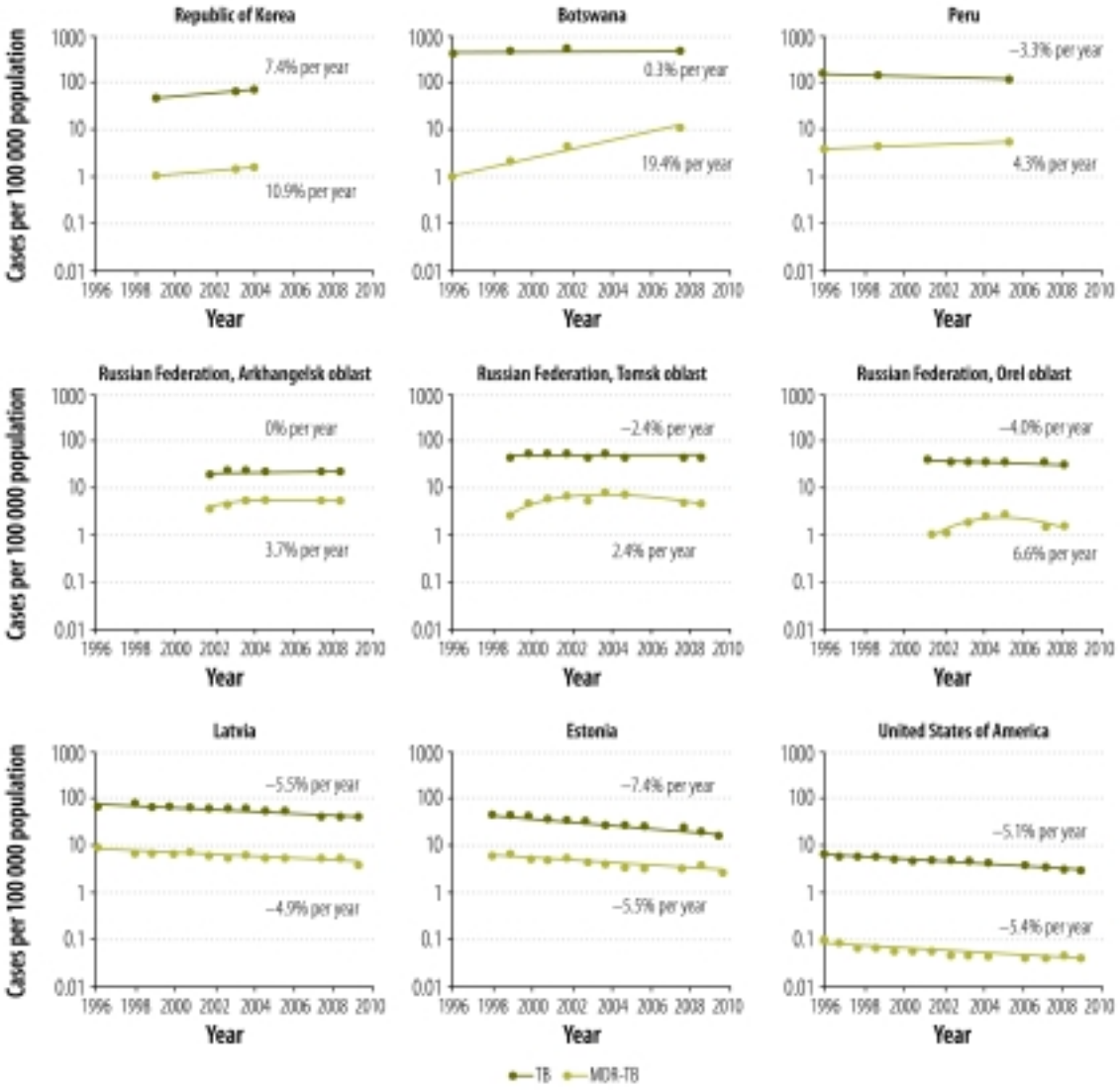
"Know Your Epidemic"

David Dowdy, MD PhD

Johns Hopkins Bloomberg School of Public Health

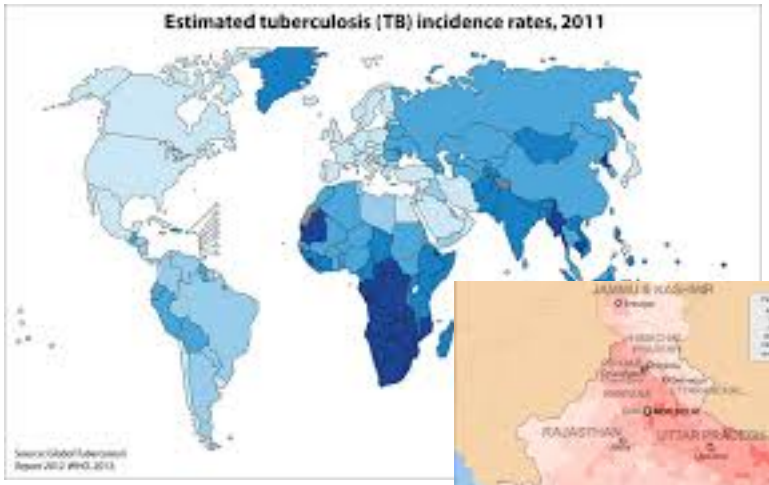
Center for Tuberculosis Research, Johns Hopkins University

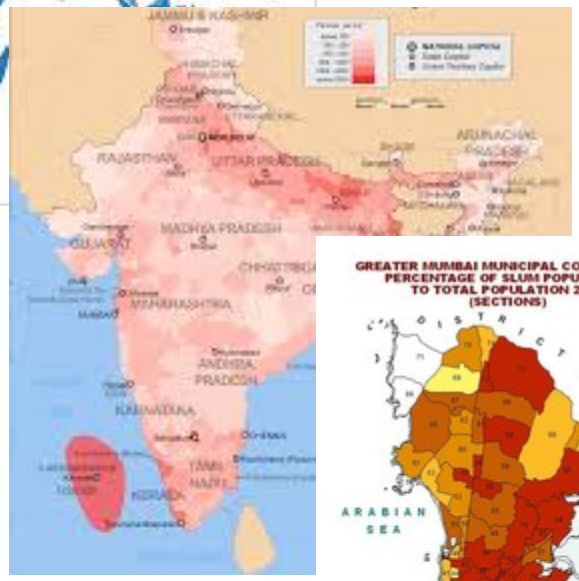
In TB, “One Size Fits None”

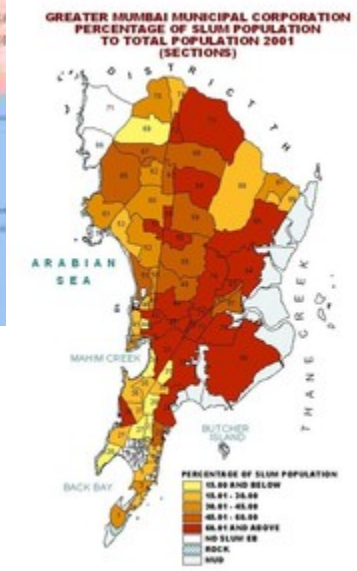


Zignol et al, BWHO 2012

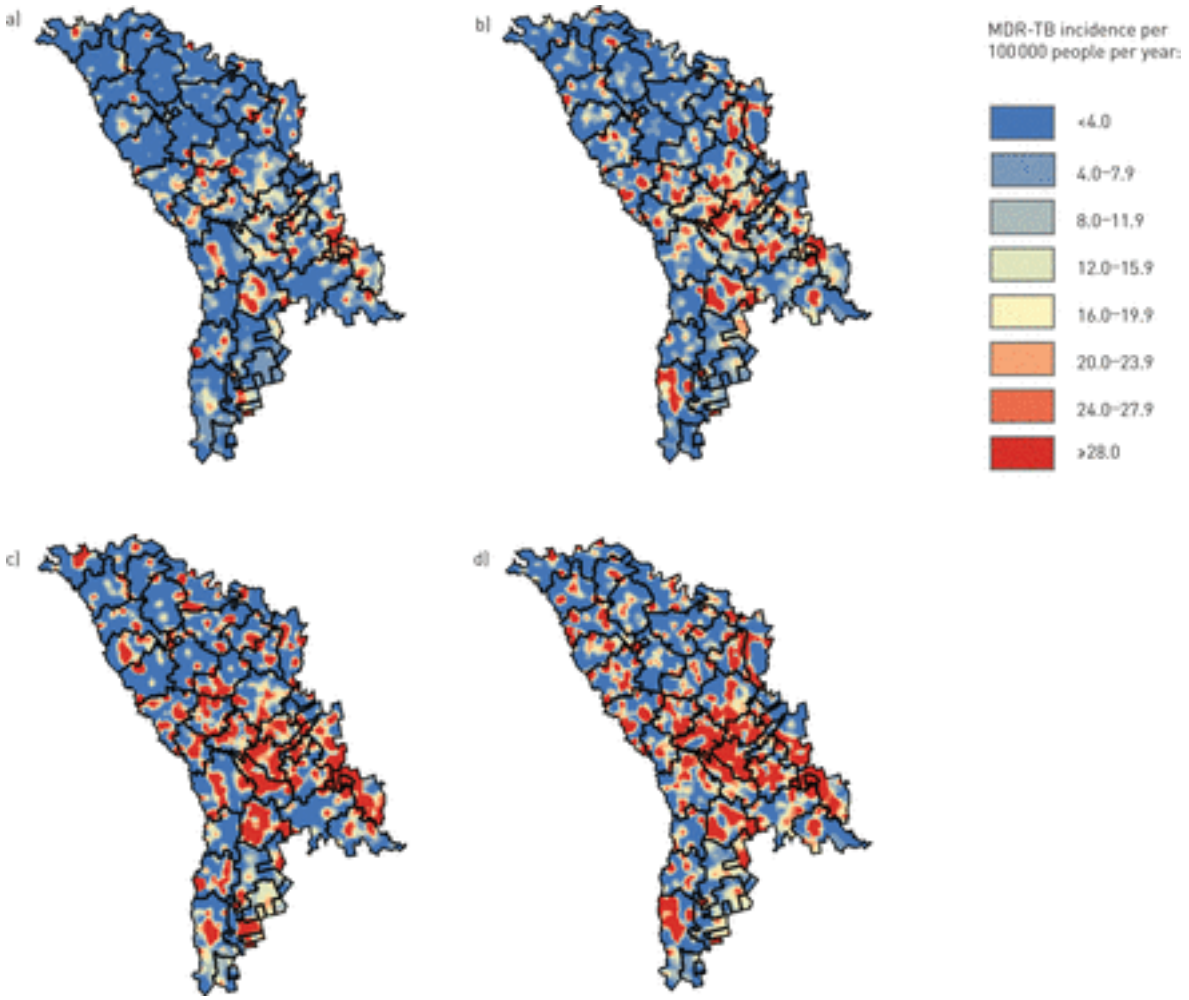
Where Is TB Transmitted?







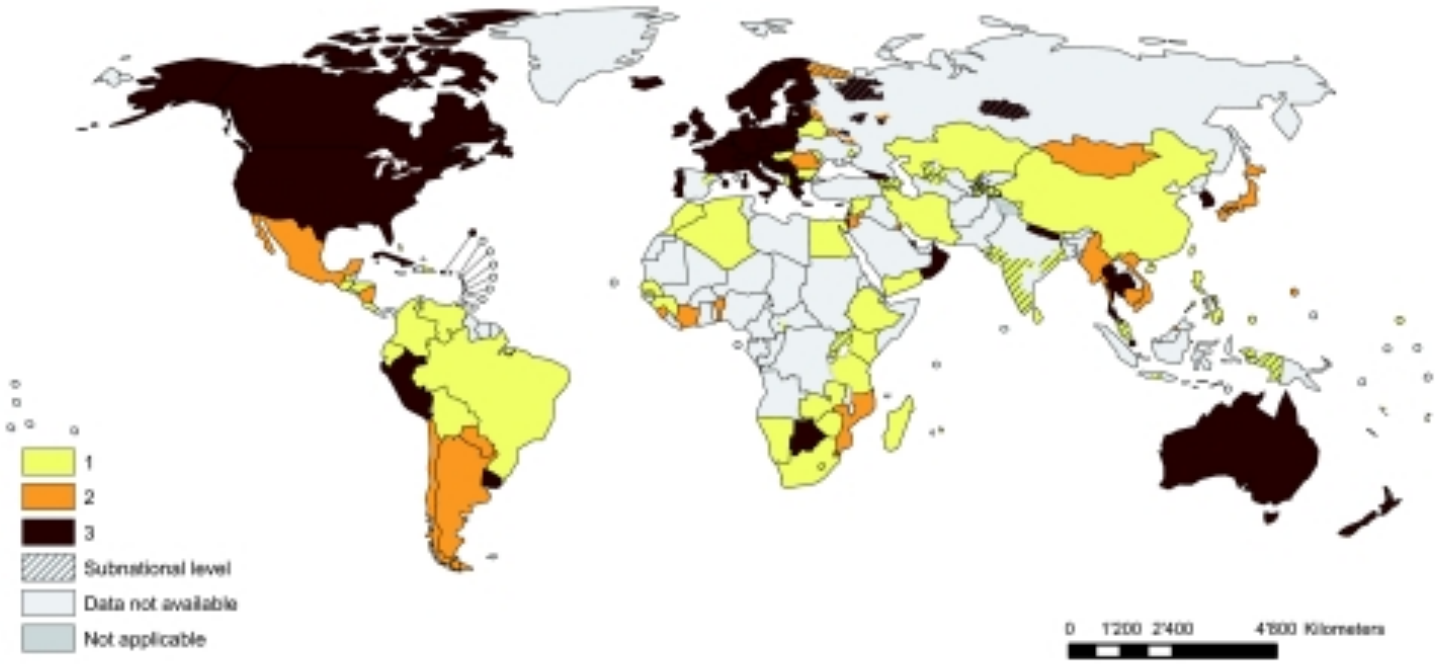
Heterogeneity in MDR-TB



Jenkins et al, ERJ e-pub

Knowledge is Power…
And We Are Weak.

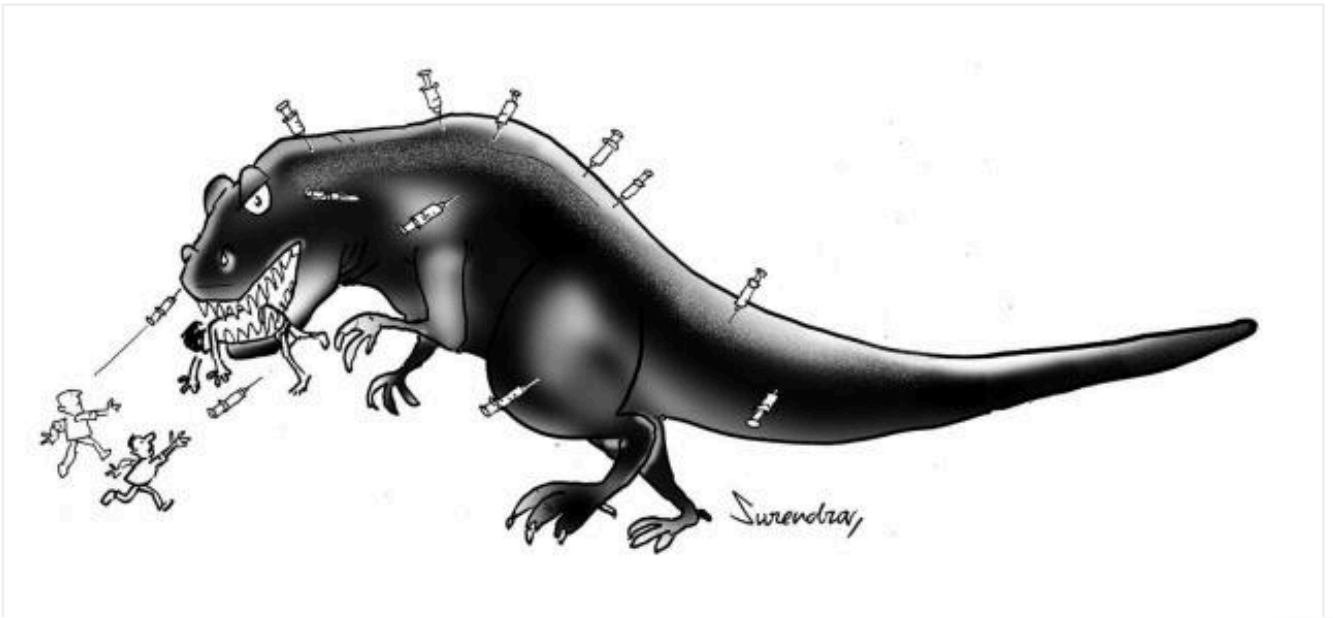
Number of country-year data points on DR-TB, 1994-2010
(Zignol, BWHO 2012)



The Response

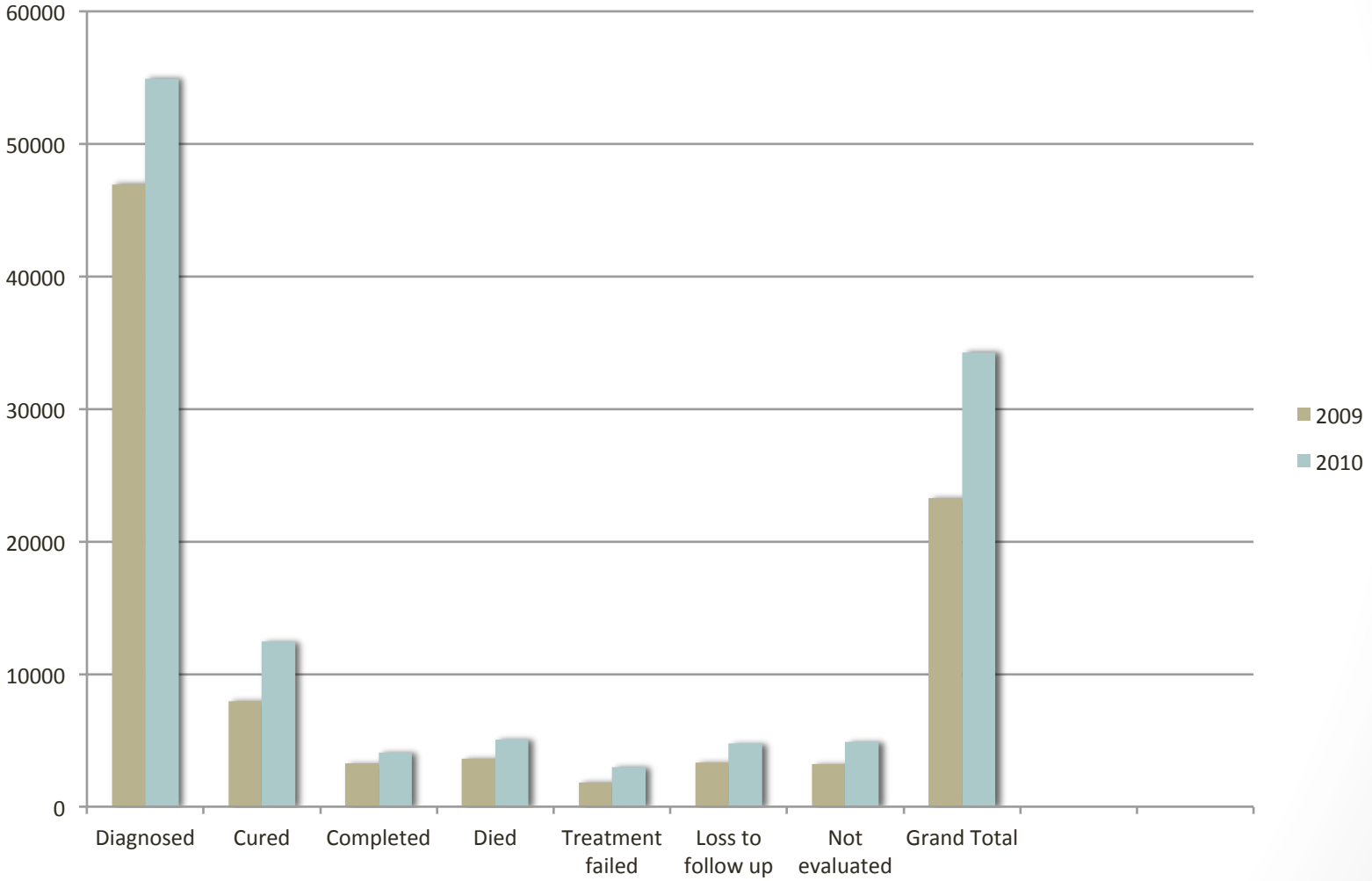
What went wrong with India's TB control

T. JACOB JOHN

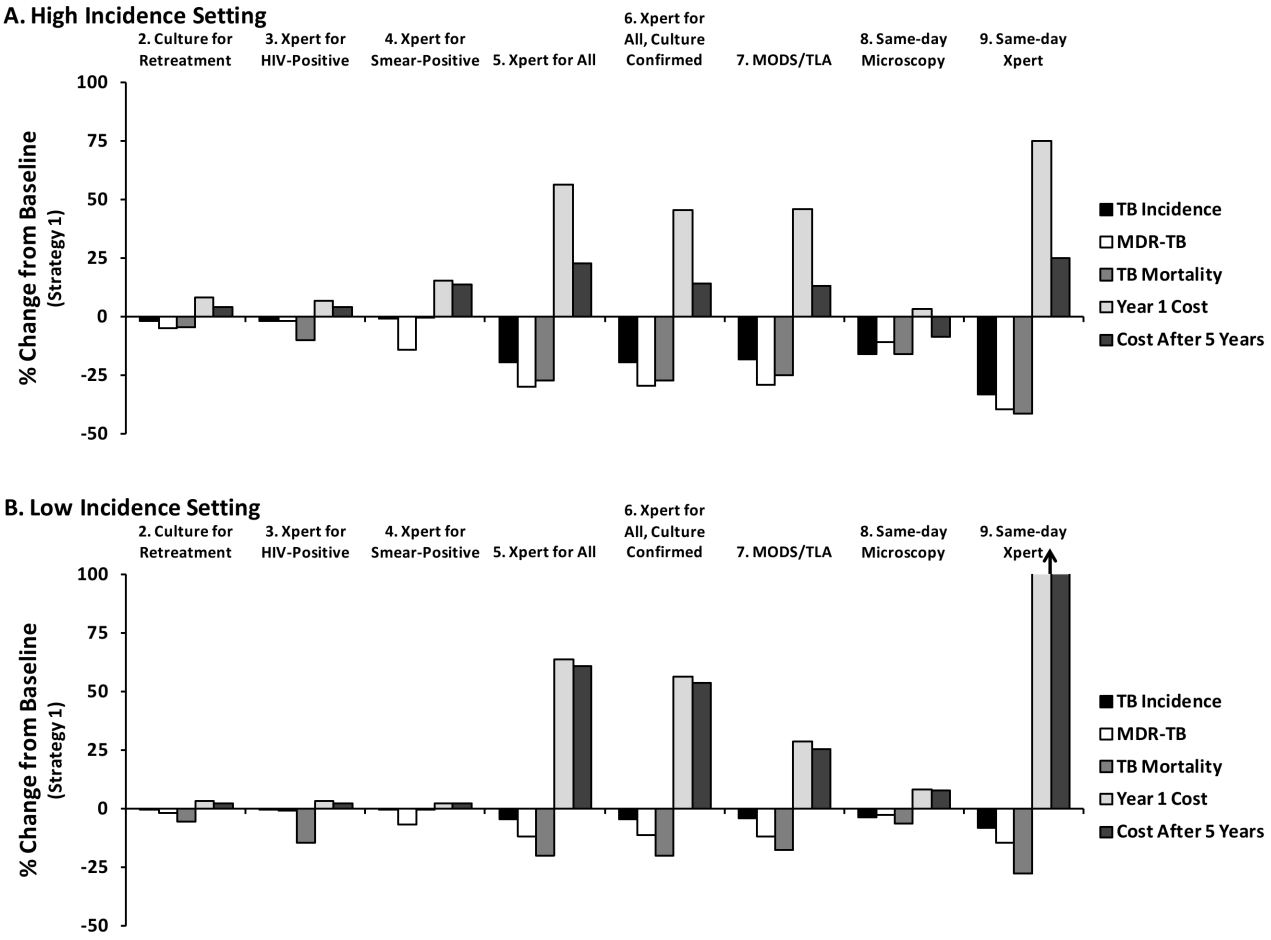


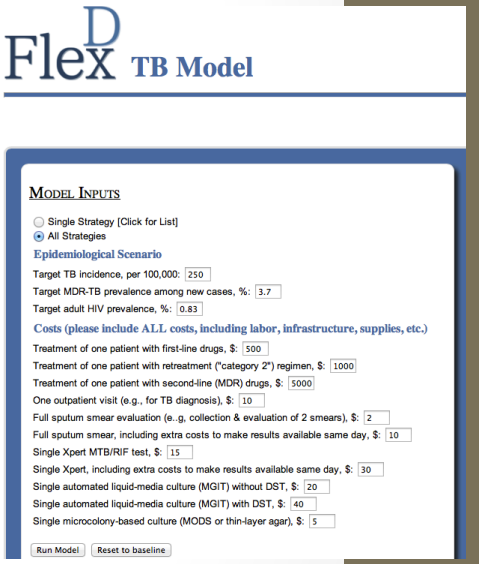
The Hindu
Aug, 16, 2013

Different Epidemics: Different Cascades



Different Epidemics: Different Outcomes





A Way Forward: 3 Steps

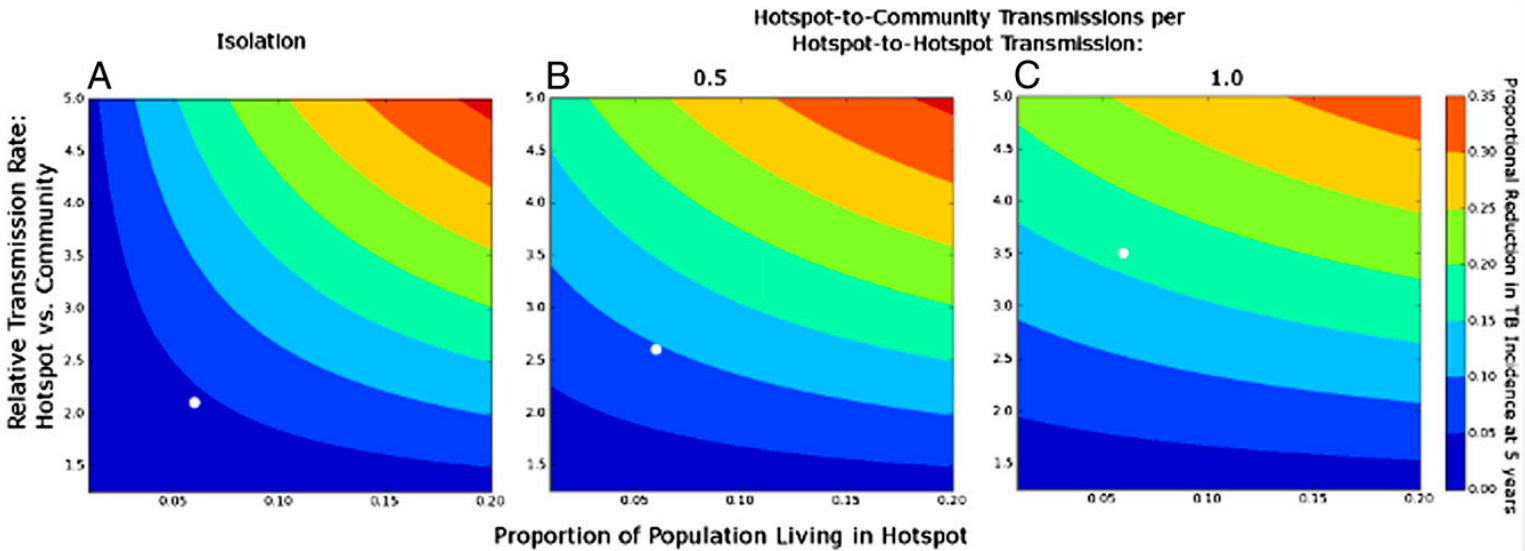
- **Step 1: Know Your Epidemic**
  - Surveillance
  - Sources (of TB)
  - Systems

A Way Forward: 3 Steps

- **Step 2: Know Your Local Options**
  - Tools
  - Teams
  - Trust

A Way Forward: 3 Steps

- **Step 3: Make The Match**
  - Put your effort where your epidemic is.
  - Use the “trusted teams and tools” to target the sources of transmission.
    - Normalize the hotspots.



Summary

- **In TB control, one size fits none.**
- **Knowledge is power: we need more.**
- **3 Steps Forward:**
  - Know Your Epidemic
  - Know Your Local Options
  - Make The Match
- *The global TB community must develop flexible tools to advance local-level knowledge & solutions, not aim for a global "one size fits all" policy package.*