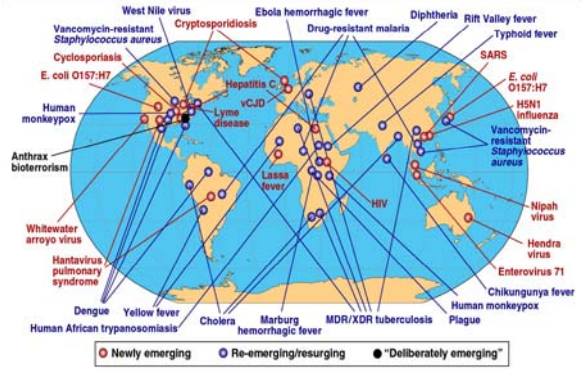
Global Examples of Emerging and Re-Emerging Infectious Diseases

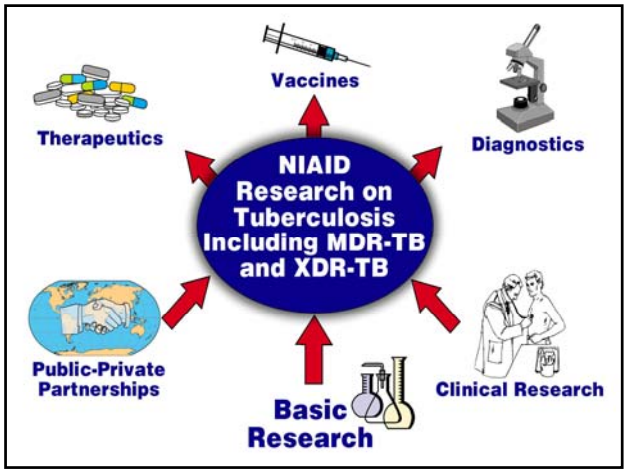


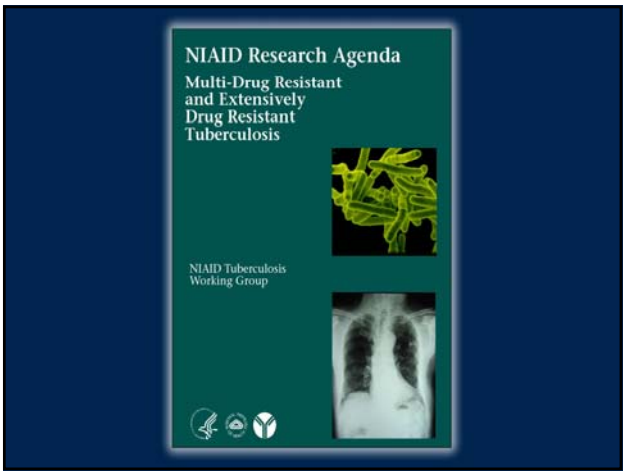
Tuberculosis and HIV/AIDS

- Of 40 million people living with HIV, ~1/3 are co-infected with TB
- TB is the leading cause of death among HIV-infected people worldwide
- TB accelerates the replication of HIV
- HIV accelerates progression of TB

Major Challenges in the Control of Tuberculosis

- Available diagnostics are antiquated, insensitive and slow
- Current drug regimens are complex and lengthy
- Available vaccine not effective in preventing adult pulmonary TB





A Delicate Balance: The Perpetual Challenge

The Extraordinary Capability of Microbial Pathogens to Persist, Emerge, and Re-Emerge

Public Health Measures, Biomedical Research, and Countermeasure Development