

# TB in a University

# Index Case - 2008

- December 2008 - foreign born university student to local ER with pneumonia
- December 23, 2008 – smear positive
- February 11, 2009 - culture positive for MTb
- January 2, 2009 – 4-drug treatment started
- February 2009 - culture converted
- June 2009 – completed 6 months of treatment

# Index Case-continued

- 265 contacts identified
- 7 close contacts /114 casual contacts TB tested
- 19 positive TSTs
  - 4 completed LTBI tx
  - 3 started tx but discontinued
  - 10 declined INH therapy, followed-up with serial CXRs
  - 1 follow-up with negative QFT and WNL CXR
  - 1 WNL CXR, moved to NY

# Secondary Case - 2011

- Foreign-born university student in nursing program
  - Identified in Index Case's contact investigation
  - Declined INH therapy
  - Being followed-up with serial chest x-rays
- February 2011 - new density found on CXR
- February 23, 2011 – smear positive
- May 24, 2011 – culture positive for MTb

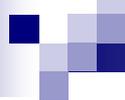


# Secondary Case - Continued

- February 25, 2011 –started 4 drug therapy
- April 2011-culture converted
- May 2011 - moved to New York City
- Interjurisdictional transfer completed
- August 2011 – completed 6 months of treatment

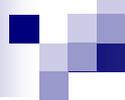
# Secondary Case 2011-continued

- 270 total contacts identified
  - 182- university
  - 88- clinical rotation site
- 196 evaluated
  - 65 T-SPOTS - close contacts
    - 2 positive T-SPOTS
      - 1 declined INH, followed with serial CXRs
      - 1 currently on Rifampin
  - 109 TST's - other contacts
    - 2 +TST-F/up QFT's negative , no tx recommended
  - 22 CXRs due to history of previous positive TST



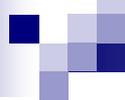
# Collaboration with University

- Establish point of contact at University
- Verify patient/student enrollment
- Identify contacts
- Notify/Test contacts



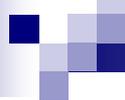
# **Benefits of Serial Chest X-rays for Untreated LTBI**

- Early detection of LTBI progression to disease
- Education during routine appointments



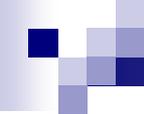
# **IGRA vs TST on Foreign-born Contacts**

- Differentiating between BCG reaction vs LTBI
- One visit vs returning for TST reading
- Objective results vs subjective interpretation



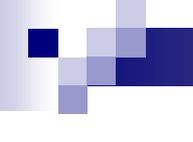
# Challenges

- Collaboration with university
- Secondary Case 2011-nursing student and challenge of identifying contacts at clinical sites
- Getting contacts to LHD for screening
- Cultural differences



# Outcomes:

- On-going relationship with university due to these 2 case/contact investigations
- Increase trust of university with LHD



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