A PARTNERSHIP: TB CONTROL IN NYC

World TB Day Conference 2015

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CASE PRESENTATION

- 61-year-old man, lives in Queens, born in Ecuador, in NYC since 1990
  - Presented with few weeks of dry cough to his PMD office
  - Prior TB test was negative
  - H/o Diabetes
  - No fever; minimal weight loss attributed to poor diabetic control
  - Traveled to Ecuador for vacation 1 year prior
  - TST in PMD office is “positive”
  - PMD sent him to the chest center in Corona for further evaluation

INITIAL DIAGNOSIS

Case Presentation

- The patient is evaluated for active TB disease at the Corona Chest Center and has an abnormal chest X-ray
- Placed on standard treatment regimen while waiting for confirmation of diagnostic testing and drug susceptibility testing

DOHMH TB CHEST CENTERS

- Chest Centers Provide
  - Diagnostic testing
  - Sputum induction
  - Chest radiographs
  - QuantiFERON TB Gold tests
  - Treatment for active TB disease and TB infection
  - Clinically-based directly observed therapy (DOT)
  - Medical and social services referrals
  - HIV counseling and testing
  - Staff who speak several different languages including Spanish and Chinese

SURVEILLANCE AND REPORTING

Case Presentation

- The patient’s PMD had reported him as TB suspect
- The report was received by the BTBC Surveillance staff
- The patient was then entered into the TB registry as a suspect (pending laboratory confirmation)

BTBC Key Activities

- Maintain surveillance and case management system, and monitor trends
- Review and enter reports submitted by providers and laboratories for timeliness and accuracy
- Manage interstate referrals of TB cases and contacts who move in and out of NYC
**CASE MANAGEMENT ACTIVITIES**

<table>
<thead>
<tr>
<th>Activity</th>
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<tbody>
<tr>
<td>Patient reported to health department</td>
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<tr>
<td>Assigned a BTBC case manager</td>
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<tr>
<td>Chart review</td>
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<tr>
<td>Interview patient</td>
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<tr>
<td>Identify contacts</td>
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<tr>
<td>Interview and test contacts</td>
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<td>Follow-up for cases and contacts through treatment completion</td>
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**CASE MANAGEMENT AND CONTACT INVESTIGATION**

- **Case Presentation**
  - A Spanish speaking case manager is assigned to the patient
  - The case manager interviews the patient, conducts a home assessment, and initiates a contact investigation
  - The patient works in a restaurant, an expanded contact investigation will be initiated at the patient’s worksite, if transmission is found in the household
  - The index patient’s wife is found to have TB infection
    - Clinic physician explains 12-week Isoniazid-Rifapentine (3HP) regimen
    - Patient agrees to take medication
    - Case managers ensure she completes treatment

**MEDICAL CONSULTATION**

- **Case Presentation**
  - Patient requires management for diabetes so BTBC Medical Consultants collaborate with the patient’s PMD to coordinate care
- **BTBC Key Activities**
  - Set standards and guidelines, and provide consultation for health care providers on all aspects of TB control
  - Collaborate with providers, community-based organizations and other agencies

**OUTBREAK DETECTION AND CONTROL**

- **Case Presentation**
  - A few months later, the index case’s genotyping results come back and the patient is found to be clustered to 2 other Ecuadorian patients diagnosed in the last 3 years
- **BTBC Key Activities**
  - As part of our routine TB surveillance, we send the specimen for genotyping
  - TB strains are reviewed
  - Clusters of TB are investigated, as needed

**OUTREACH AND EDUCATION**

- **Case Presentation**
  - BTBC reaches out to community providers and community organizations to
    - Help inform our TB control efforts in the Ecuadorian community
    - Educate the community and providers to “think TB”
- **BTBC Key Activities**
  - Engage community stakeholders in educational efforts
  - Assess barriers to care-seeking and treatment adherence
  - Develop community based efforts aimed at increasing knowledge of TB risk and encouraging care-seeking
  - Educate providers about TB risk and treatment

**MONITORING AND EVALUATION**

- **Case Presentation**
  - The patient continues to receive medication by DOT until the end of the treatment period
  - The routine data collected as part of this patient’s diagnosis, treatment, and case management will be included in ongoing data analyses
- **BTBC Key Activities**
  - Conducts ongoing analysis and evaluation of policies and practices, and monitors performance indicators
  - Looks for trends across areas and time, analyze staff performance, look at treatment success, etc.
  - Captures select performance measures

- 69,273 tests conducted from 10/2006-12/2011
  - 14% positive
  - 85% negative
  - <1% indeterminate
- Only 1 case tested negative and subsequently developed TB
- IGRA are reliable tests for TB infection

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**RESEARCH INTO POLICY**

**PARTNERSHIPS IN TB CONTROL**

**HEALTH DEPARTMENT SERVICES AVAILABLE TO PATIENTS AND PROVIDERS**

- Video Directly Observed Therapy (VDOT)
- TB testing with QFT
- Shorter treatments for TB infection
- Clinic Services

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**PROVIDERS’ ROLE IN TB CONTROL**

Report cases and suspects using NYCmed
Sign up for Health Alert Network
  → Visit [www.nyc.gov/health](http://www.nyc.gov/health)
Review your patients’ discharge plan
Connect your patients with DOT and other services
Discuss questions
Give us feedback
  → Call 347-396-7400
Access BTBC educational materials
Join the TB Action News listserv

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**WORLD TB DAY WALK - TOMORROW**

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**QUESTIONS?**