

Review of Contact Investigations

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Objectives



Participants will be able to...

 describe the systematic approach to conducting a contact investigation.

Disclaimers

For this presentation, the term "case" will be used instead of "index patient" or "patient"

Although "case" may seem impersonal, the rationale for using it is to avoid confusion with contacts who may also be considered "patients" if they are found to have latent TB infection (LTBI) or TB disease.

This presentation also assumes that one has already decided to initiate a contact investigation.

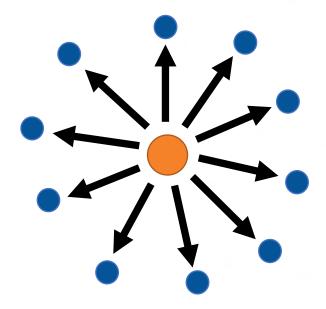
What is a contact investigation?



What is a contact investigation?

A systematic process to:

- identify persons (contacts) exposed to someone with infectious TB disease
 - Household members
 - Friends
 - Co-workers
 - Others (cellmates, shelter residents, etc.)
- assess contacts for infection with M. tuberculosis and TB disease
- provide appropriate treatment for contacts with LTBI or TB disease





Why talk about contact investigations?



Priority TB Prevention & Care Activities

- 1. Identify and treat persons who have active TB disease.
- Find and evaluate persons who have been in contact with TB cases and provide appropriate latent TB infection (LTBI) or TB disease treatment as needed.
- 3. Use targeted testing strategies to identify and treat persons with LTBI at risk for developing TB disease.
- 4. Identify settings at high risk for transmission of *M. tuberculosis* and apply effective infection-control measures.

Importance of Contact Investigations

Contact investigations allow TB programs to:

- stop transmission
- identify the source case
- prevent future cases of TB disease
- evaluate and treat recently exposed persons

*On average, **10** contacts are identified for each case

- 20% to 30% of household contacts have LTBI
- 1% of contacts have TB disease

Contact Investigation Team

The Contact Investigation team may include:contact investigators

- case managers
- public health investigators
- surveillance coordinators
- program managers
- DOT workers
- disease intervention specialists (DIS)



How do you conduct a contact investigation?



How do you conduct a contact investigation?

- •TB Programs should use a systematic approach to conduct Cis
- Using a systematic approach helps to ensure the contact investigation is carried out effectively and efficiently

Systematic Approach to Contact Investigations

The systematic approach includes 10 steps:

- 1. Review existing information about the case
- 2. Determine an initial estimate for the infectious period and estimate the degree of infectiousness
- 3. Interview the case
- 4. Review information and develop a plan for the investigation
- 5. Refine the infectious period and degree of infectiousness
- 6. Prioritize contacts
- 7. Conduct field visits
- 8. Conduct contact assessments
- 9. Determine whether to expand or conclude an investigation
- 10. Evaluate the contact investigation activities

These steps may not always be done in sequential order

Review Existing Information

- •The process of reviewing existing information is sometimes called the <u>pre-interview phase</u>
- •Reviewing information before the initial interview can ensure the right questions are being asked

Information to Collect and Review Before the Initial Interview

Become familiar with the case's social history

- Case name(s), aliases, date of birth, gender, all known addresses, telephone number(s), preferred language
- Substance abuse, mental illness, or other issues that could affect the interview or contact investigation
- Social or behavioral risk factors increasing the risk of TB
- Known contact names, particularly children or persons with weakened immune systems
- History of jail or homelessness
- History of immigration or travel

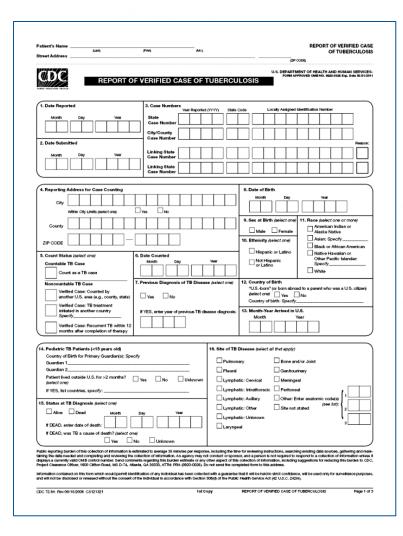
Information to Collect and Review Before the Initial Interview

Become familiar with the case's medical history

- Current site(s) of TB disease
- Current TB treatment regimen
- TB symptoms and estimated onset date
- Chest x-rays and/or other diagnostic imaging dates and results
- TST or IGRA dates and results
- Sputum smear and culture dates and results
- NAA test dates and results
- Genotype results (if available)
- HIV test dates and results
- Details about prior diagnosis with LTBI or TB disease, and any treatment
- Medical risk factors that could have increased the case's risk for infection with *M. tuberculosis* or development of TB disease

Sources of Information for TB Case

- Medical records
- Public health records
 - Cross-check case name with local TB registries and databases to determine if previous diagnosis of LTBI or TB
 - Cross-check with STD and HIV registries, if possible
- Case's clinician
- Report of Verified Case of Tuberculosis (RVCT)
- TB Genotyping Information Management System (TB GIMS)



Interview the Case

• What is the main goal of a TB interview? The mail goal of a TB interview is to <u>identify contacts</u>.

•Why is this goal important?

For assessing contacts for TB disease and infection and start them on appropriate treatment.

How Do You Identify Contacts?

Ask the case about the following during their infectious period:

- Places WHERE they spent time
- Persons with WHOM they spent time
- Participation in activities and events (*WHAT* and *WHEN*)

What are the Other Objectives of the TB Interview?

- Establish rapport
- Educate about TB and Contact Investigation process
- Discuss confidentiality
- •Gather and confirm information

How Many Interviews Should Be Conducted?

- •Two interviews is the minimum (initial interview and re-interview)
 - May need more interviews to develop rapport
 - Often need to build on previously collected information
- Additionally, every DOT encounter is an opportunity to learn about more contacts



The Interview Format

- Introduction
- Education
- Information collection and confirmation
- Contact Identification
- Conclusion of the interview

TB Contact Investigation Interview Checklist

Pre-Interview Activities

- Review medical record
- Establish preliminary infectious period
- Develop an interview plan
- Arrange interview time and place

A. Introduction

- Introduce self
- Provide identification
- Explain role in TB prevention and care
- Build trust and rapport
- Explain purpose of the interview
- Ensure confidentiality

Address

Next of kin

B. Information and Education Exchange

- Observe patient's physical and mental state, body language, and communication skills
- 2. Collect and confirm the following information:
 - ___ Name ____Known exposure to TB
 - ____ Alias(es)/nicknames
- Recent hospitalization(s) for TB
- Date of birth
- ____ Medical provider for TB
- ____ Transportation availability Other medical conditions
- Telephone number ____
 - Outpatient DOT plans
- Other locating information ____ Barriers to adherence
- Physical description
- 3. Assess disease comprehension/provide TB education
- 4. Obtain and confirm TB symptom history
- 5. Discuss case's current diagnosis
- Discuss disease intervention behaviors, infection control, and medical appointments
- 7. Refine infectious period and review with the patient

C. Contact Identification

- Focus on infectious period
- Explain priority and non-priority contacts
- Stress importance of identification off all contacts
- Collect information on patient's contacts in the household, workplace, school, congregate settings, and social/recreational environments during the infectious period
- Information about contacts should include:
 - ____Name

- Other locating information
- ___ Alias(es)/nicknames
- Hours of exposure per week
- Address

Age, race, sex

____ Dates of first and last

exposures

Physical description

____ Telephone number

D. Conclusion of the Interview

- Request, then answer patient's questions
- Review and reinforce adherence plan
- Restate next appointment (if known)
- Arrange reinterview and home visit (if not already completed)
- Leave your name and telephone number
- Thank the patient and close interview