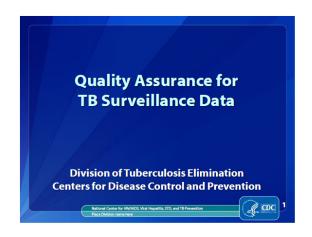
Appendix C: Quality Assurance Process Slides

Description

The "Quality Assurance for Tuberculosis Surveillance Data: A Guide and Toolkit" is accompanied by a PowerPoint slide set for use in presentations and training programs. Images of the slides are included in this appendix. The slide set can be accessed the following ways:

- Located on the companion CD-ROM in the QA Manual folder: Appendix C Quality Assurance Process Slides
- Downloaded from www.cdc.gov/tb/programs/rvct/default.htm

Section of the Slides	Slides	Page
Quality Assurance for TB Surveillance Data	1-4	C-2
Chapter 1: Introduction to the QA Guide and Toolkit	5-10	C-2
Chapter 2: TB Surveillance Systems Structure and Data Flow	11-18	C-3
Chapter 3: Quality Assurance for TB Surveillance Data	19-30	C-5
Chapter 4: Case Detection	31-45	C-7
Chapter 5: Data Accuracy	46-51	C-9
Chapter 6: Data Completeness	52-62	C-10
Chapter 7: Data Timeliness	63-71	C-12
Chapter 8: Data Security and Confidentiality	72-82	C-13
Chapter 9: QA Cross-cutting Systems and Process	83-85	C-15
Chapter 10: Toolkit for Quality Assurance	86-87	C-16
Appendices	88-90	C-16
Additional Information	91-94	C-17



Goal and Purpose of Course

Goal

 Increase QA for TB surveillance data within the United States and its jurisdictions.

Purpose

 Enhance knowledge, skills, and processes required to perform QA for TB surveillance data.

2

Target Audience

Health care workers from state and local health departments, territories, and U.S. -affiliated Pacific Islands who

- Collect data from patients
- Complete RVCT form
- Enter data from RVCT into data system
- Monitor accuracy of TB program data collection
- Analyze data from RVCT

Objectives

After reading this manual you will be able to

- List the five components of the QA process
- Describe tools that can be used to perform
- Describe what to include in a QA written protocol as required by the Cooperative Agreement (CoAg)

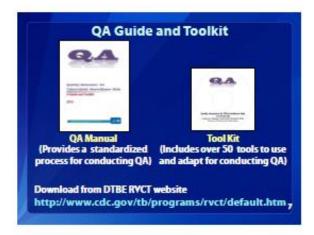
4

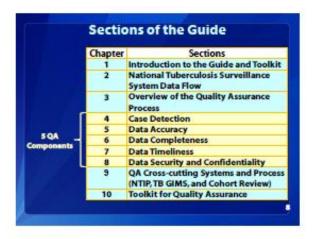
Chapter 1 Introduction to the QA Guide and Toolkit

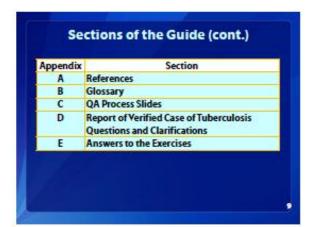
Basis of QA Process

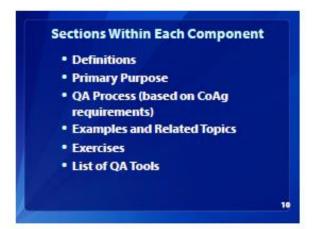
- QA process is based on the 2011
 Tuberculosis Elimination and Laboratory
 Cooperative Agreement (CoAg)
- Results of a QA needs assessment conducted with 11 of the 60 reporting jurisdictions

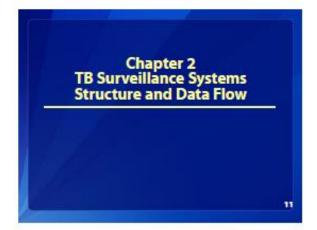
6





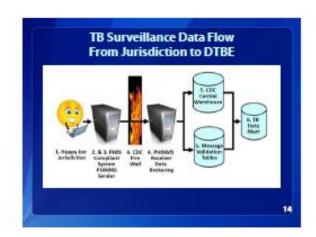


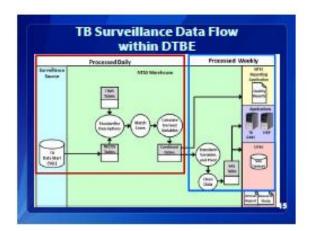


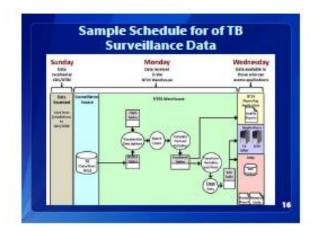


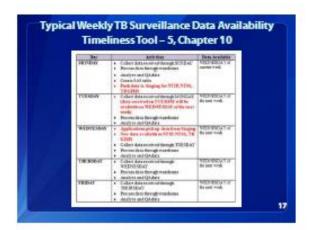








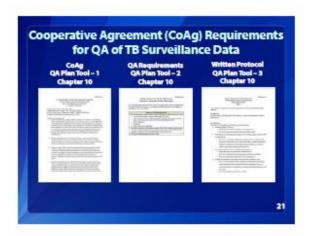


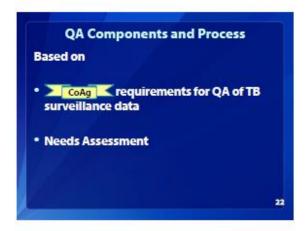






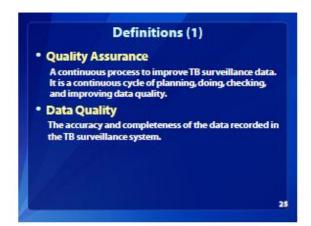


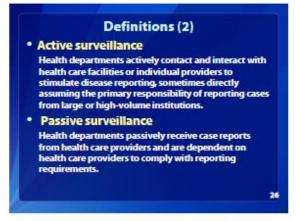


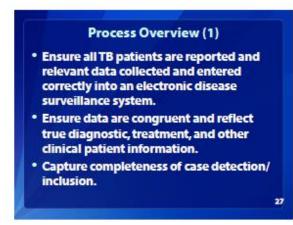












Process Overview (2)

• Ensure data are accurate, timely, complete, and relevant to program needs.

• Maintain data security and confidentiality.

• Monitor data system to confirm objectives are being met.

Factors Influencing Quality of Data

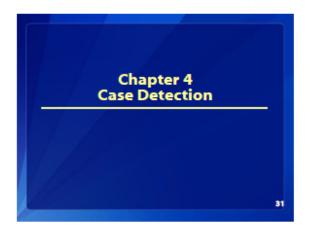
• How are TB screening and diagnostic tests (i.e., the case detection) performed?

• How clear are the hardcopy or electronic surveillance forms?

• What is the quality of training and supervision of staff who complete these forms?

• Are staff managing data carefully?



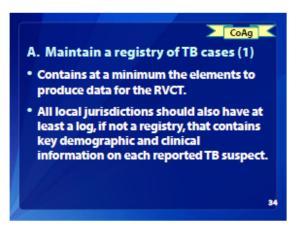


Case Detection Definition Detection of one instance of a specific disease or exposure, e.g., TB. A front-line surveillance activity, it is typically accomplished as a byproduct of routine Medical care Veterinary care Laboratory work An astute observer Purpose To find all patients with TB diagnosis so that they are reported to NTSS.

Case Detection Process

CoAg

A. Maintain a registry of TB cases
B. Establish liaisons with appropriate reporting sources to enhance QA of surveillance data
C. Develop and implement active case detection activities
D. Evaluate completeness of reporting of TB cases to the system



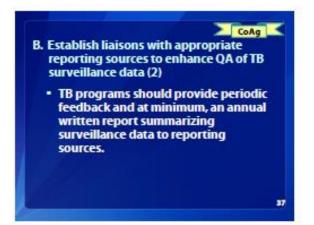
A. Maintain a registry of TB cases (2)

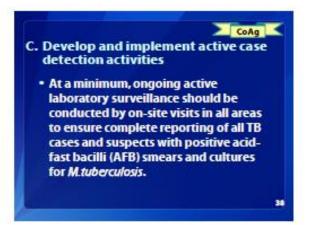
• Data on TB cases receiving diagnostic, treatment, or contact investigation services in the local jurisdiction, although not included in the annual morbidity total, should be included in the TB registry.

B. Establish liaisons with appropriate reporting sources to enhance quality assurance of TB surveillance data (1)

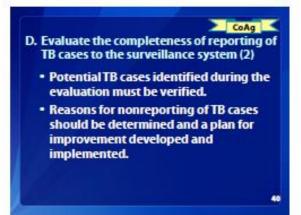
• Enhance identification, reporting, and follow up of TB cases and suspects by establishing liaisons with appropriate reporting sources.

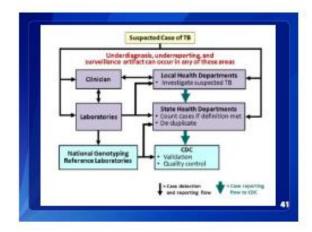
• Jurisdictions should provide a plan for case finding and how they will or have established appropriate liaisons.

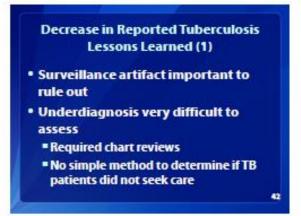












Decrease in Reported Tuberculosis Lessons Learned (2)

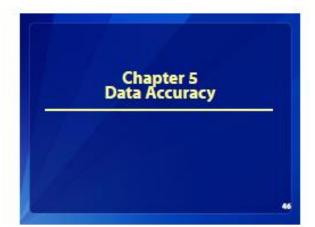
- Laboratory data can be an objective measure of TB incidence
 - Caveat: good coverage, no changes in procedures
- Crossmatch of secondary TB data sources and surveillance data simple but followup of unmatched cases can be challenging

Decrease in Reported Tuberculosis Conclusions

- Multiple factors contributed to 2009 decline in TB
 - Unlikely surveillance artifact or underreporting
 - Unable to rule out underdiagnosis due to TB patients failing to seek care
- Educating clinicians to maintain suspicion for TB important
 - Could see more advanced disease if patient delays in care
- Ongoing collection and analysis surveillance data necessary to continue to assess trends
 - Timeliness and quality of data key

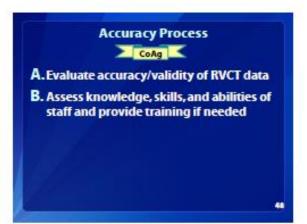
eliness and quality of data key
44

Case Detection Tools Chapter 10 Pages 10-26 – 10-38

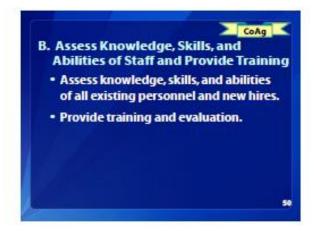


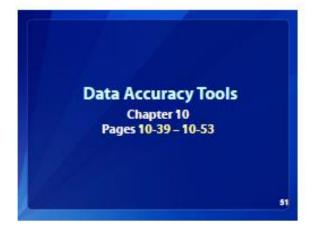
Definition The data submitted matches patient records maintained at the point of care. The recorded data in the surveillance system are consistent with what happens in a clinical encounter, whether or not it is clinically appropriate. Purpose To identify and correct errors in the surveillance data.

Data Accuracy

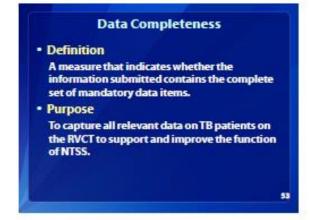




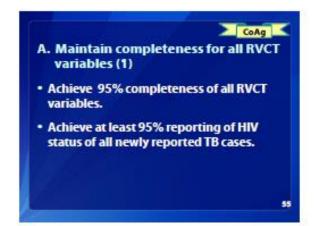




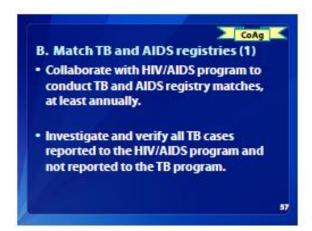


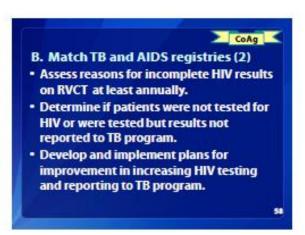










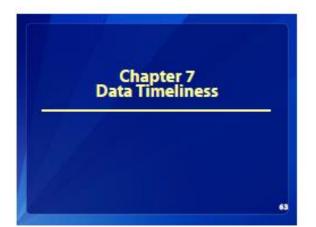


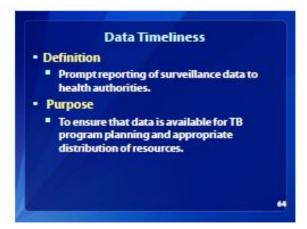










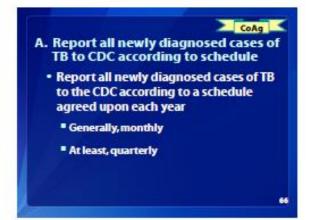


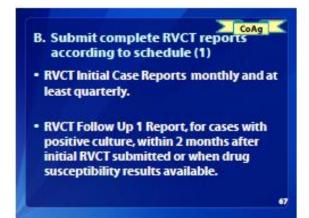
A. Report all newly diagnosed cases of TB to the CDC according to schedule

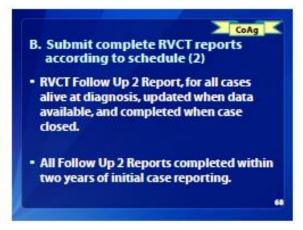
B. Submit complete RVCT reports according to schedule

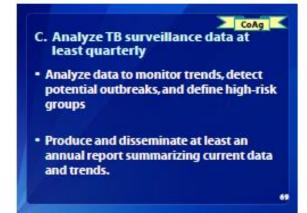
C. Analyze TB surveillance data at least quarterly

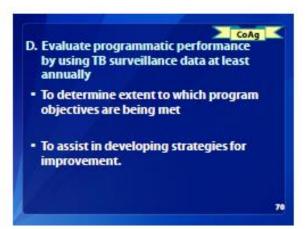
D. Evaluate programmatic performance by using TB surveillance data at least annually



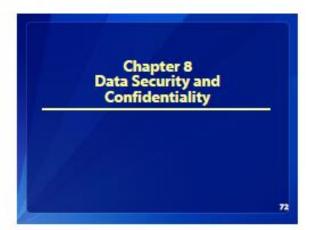












Data Security and Confidentiality Definition and Purpose Definition Security: the protection of public health data and information systems to prevent unauthorized release of identifying information and accidental loss of data for damage to the systems.

Confidentiality: the protection of

personally identifiable information

collected by public health organizations.

73

Data Security and Confidentiality Definition and Purpose Purpose Security: to prevent unauthorized release of identifying information and accidental data loss or damage to the systems. Confidentiality: to ensure that personal information is not released without the consent of the person involved, except as necessary to protect public health.

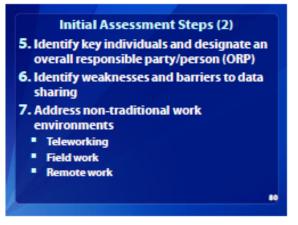
Data Security and Confidentiality Process (1) CoAq A. Ensure that TB surveillance data are kept confidential and all data files are secure. B. Adhere to the Data Security and Confidentiality Guidelines for HIV, Viral Hepatitis, Sexually Transmitted Disease, and Tuberculosis Programs. 75

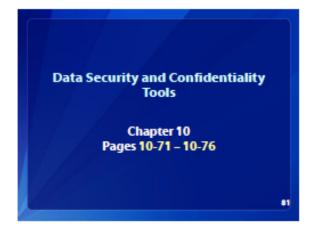
Data Security and Confidentiality Process (2) CoAg Policies and procedures ■ To protect confidentiality of all surveillance case reports and files. To protect HIV test results, must conform to the confidentiality requirements of the state and local HIV/AIDS programs. Training on security and confidentiality of data. 76

Security and Confidentiality Guidelines for HIV, Viral Hepatitis, Sexually Transmitted Disease, and Tuberculosis Programs Minimum Standards and Use to Facilitate Data Sharing and Use of Surveillance Data for Public Health Certification will be required annually 77

Initial Assessments A baseline review of current policies and procedures to identify gaps and barriers. Follow a set of specified steps









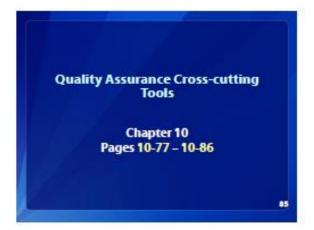
Chapter 9
QA Cross-cutting Systems
and Process
(NTIP, TB GIMS, and Cohort Review)

QA Cross-cutting Systems and Process
Examples of systems and a process that can
be used for improving at least three of the
five QA components.

National Tuberculosis Indicator Project
(NTIP)

Tuberculosis Genotyping Information
Management System (TB GIMS)

Cohort Review





Toolkit Over 50 QA tools (e.g., tables, charts, graphs, processes, and templates) · Available in commonly used word processing formats (e.g., Word, Excel, PowerPoint, or PDF) Can be used by and adapted to your Developed by staff from CDC and various jurisdictions 87



Appendix	Title	Description
Α	References	List of all references used in the development of this guide
В	Glossary	Compilation of all the definitions provided in this guide
С	QA Process Slides	Set of slides that describe the QA process

