# Achieving Treatment Completion for Drug-Susceptible TB



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#### All times are listed in Pacific Standard Time

12:00-12:10 PM	Welcome and Introductions
	Presenter: Lisa Ferguson, RN, BSN, MSc, TB Nurse Consultant, Washington State Department of Health
	Moderator: Lisa True, RN, MS, Nurse Consultant, Curry TB Center
12:10-1:30 PM	Achieving Treatment Completion for Drug-Susceptible TB Lecture
1:30-1:40 PM	Break
1:40-2:15 PM	Breakout Group Case Discussion
2:15-2:30 PM	Activity Debrief and Q&A, Wrap Up and Closing

## **LEARNING OBJECTIVES**



## By the end of this training, participants will be able to:

- state the criteria used to determine the duration of treatment for drugsusceptible TB (DS-TB) disease
- assess for and anticipate potential barriers to treatment
- be able to identify factors to consider towards determining treatment completion
- incorporate strategies to address adherence barriers and to minimize interruptions in TB treatment

#### TB NURSE CASE MANAGEMENT CORE COMPETENCIES

### **TB Nurse Case Management Core Competencies:**

This module supports the TB case manager's development of the following core competencies:

### **DOMAIN 1: Assessment & analytical skills** - Essential knowledge & clinical skills:

- Understand documentation requirements for DOT and SAT
- Use established criteria to calculate for treatment completion
- Conduct periodic assessment that includes:
  - Interpretation of diagnostic tests
  - Progress toward treatment completion criteria
  - Barriers to treatment
- Develop and implement strategies that improve adherence

## **DOMAIN 3: Education and communication**

- Ensure equitable goal setting
- Provide emotional support
- Provide patient education

## **GROUP CASE DISCUSSION – BREAKOUT ACTIVITY GUIDE**

31 y/o male emigrated from Mexico to the US a few years ago to work various masonry jobs. He was referred to your program from the hospital after they collected sputum that was AFB positive (3+) and positive for Mycobacterium tuberculosis by molecular testing on expectorated sputum. The patient first initiated care at a local walk-in clinic the week before and was referred to the hospital due to shortness of breath abnormal chest x-ray with right upper lobe cavities and extensive upper lobe infiltrates. His TST was positive 2 year ago while he was detained in a facility. He has a history of intermittent cough for one year. He has lost 30 pounds over 6 months, is weak and has had intermittent fevers. An HIV test done 3 weeks ago was negative.

He does not have health insurance. He tells you the walk-in clinic was a waste of time, and he did not feel welcome there. He feels horrible and wants help from the health department. He also tells you he cannot be forced to do DOT if he does what the health department says. He wants to do it on his own.

When you ask how much alcohol he drinks in a day and week he assures you he will not drink because he wants to get better. He is reluctant to sign any agreements or consents and says he will stay away from people because his family lives in Mexico but will not sign an isolation agreement.

When you begin to talk about in-person DOT appointments, he shares that he has received a large hospital bill and will need to continue to work very early in the morning to late evening.

Working as a group, provide answers to the following statements and questions below:

- 1. Start big picture identify 3 social and environmental areas of this person's situation that you anticipate engaging in during treatment of TB.
- 2. With these 3 social and environmental areas, use the tool provided (Patient Questionnaire to Assess Resources), to identify questions that you would use to increase your understanding of this patient's experience.
- 3. List 4 areas of concern for adherence to treatment
- 4. For each concern describe 2 potential interventions to improve adherence. Each person in the group should provide an answer that is realistic in their state/region. (Hint: think enablers)

## PATIENT QUESTIONNAIRE TO ASSESS RESOURCES



ame	e:		
non	e:		
1.	Are you worried about your appointment today?	Yes:	No:
2.	How are you feeling about your diagnosis of tuberculosis?		
		)	
	Excellent Very Good Neutral Fair Poo	r	
3.	Has tuberculosis disease been explained to you?	Yes:	No:
	What questions do you have?		
4.	Do you have reliable transportation for your next appointments?	Yes:	No:
	What?		
	If not, do you know someone that can help you with transportation?	Yes:	No:
5.	Are you worried about paying for gas when attending appointments?	Yes:	No:
6.	Do you have somewhere reliable and safe to stay each night?	Yes:	No:
7.	Do you ever go to bed hungry or are you worried where you next meal will come from? Are you worried your children / family don't have enough food?	Yes:	No:
8.	Do you have friends / family nearby?	Yes:	No:
9.	Can you talk to family/ friends/ therapist/ doctor/		
	nurse/ religious leader when you have problems?	Yes:	No:
10	. Did you move here from elsewhere?	Yes:	No:
	If so, where/when?		
11	. What are the major sources of stress in your life right now?	Yes:	No:
12	. Are you ever afraid of being harmed by someone in your		
	household or have you ever thought about hurting yourself?*	Yes:	No:

# Achieving Treatment Completion of Drug-Susceptible TB **Supplemental Material**

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Yes:	No:	
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- 13. If you are having trouble coping, feel sad or angry most of the time, or have any other issues that you feel you need help with then please let us know. We have Community Health Workers just waiting for your call so they can help you.  $\bigcirc$
- 14. How do you feel that you have been treated today?



15. How are you feeling about your diagnosis of tuberculosis now?





#### DOH 343-269 December 2024

<sup>\*</sup>LHJ Staff, follow local protocols if answer is yes.

# TABLE: DRUG REGIMENS FOR MICROBIOLOGICALLY-CONFIRMED PULMONARY TUBERCULOSIS CAUSED BY DRUG-SUSCEPTIBLE ORGANISMS

Table: Drug Regimens for Microbiologically-Confirmed Pulmonary Tuberculosis Caused by Drug-Susceptible Organisms

Daniman	INTENSIVE PHASE		CONTINUATION PHASE		Range	0	Regimen
Regimen	Drugs <sup>1</sup>	Interval and Dose <sup>2</sup> (Minimum Duration)	117117		Comments	effectiveness	
1	INH RIF PZA EMB	7 days/week for 56 doses (8 weeks) OR 5 days/week for 40 doses (8 weeks)	INH RIF	7 days/week for 126 doses (18 weeks), OR 5 days/week for 90 doses (18 weeks)	182 to 130	This is the preferred regimen for patients with newly diagnosed pulmonary tuberculosis.	Greater
2	INH RIF PZA EMB	7 days/week for 56 doses (8 weeks) OR 5 days/week for 40 doses (8 weeks)	INH RIF	Three times weekly for 54 doses (18 weeks)	110 to 94	Preferred alternative regimen in situations in which more frequent DOT during continuation phase is difficult to achieve.	
3	INH RIF PZA EMB	3 x/week for 24 doses (8 weeks)	INH RIF	Three times weekly for 54 doses (18 weeks)	78	Use regimen with caution in patients with HIV and/or cavitary disease. Missed doses can lead to treatment failure, relapse, and acquired drug resistance.	
4	INH RIF PZA EMB	7 days/week for 14 doses  THEN  2 x/week for 12 doses <sup>5</sup>	INH RIF	Twice weekly for 36 doses (18 weeks)	62	Do not use 2x/weekly regimens in HIV-infected patients or patients with smear-positive and/or cavitary disease. If doses are missed then therapy is equivalent to once weekly, which is inferior.	Lesser

INH=isoniazid; RIF=rifampin; PZA=pyrazinamide; EMB=ethambutol; DOT=directly observed therapy; HIV=human immunodeficiency virus

Source: Adapted from Table 2: 2016 ATS/CDC/IDSA Clinical Practice Guidelines for Drug-Susceptible TB

<sup>&</sup>lt;sup>1</sup> Other combinations may be appropriate in certain circumstances; additional details are provided in source document Section: "Recommended Treatment Regimens"

<sup>&</sup>lt;sup>2</sup> When DOT is used, drugs may be given 5 d/week and the necessary number of doses adjusted accordingly. Although there are no studies that compare 5 with 7 daily doses, extensive experience indicates this would be an effective practice. DOT should be used when drugs are administered < 7 days per week.

<sup>&</sup>lt;sup>3</sup> Based on expert opinion, patients with cavitation on initial chest radiograph and positive cultures at completion of 2 months of therapy should receive a 7-month (31 week) continuation phase.

<sup>&</sup>lt;sup>4</sup> Pyridoxine (vitamin B6), 25-50 mg/day, is given with INH to all persons at risk of neuropathy (e.g., pregnant women; breastfeeding infants; persons with HIV; patients with diabetes, alcoholism, malnutrition, or chronic renal failure; or patients with advanced age). For patients with peripheral neuropathy, experts recommend increasing pyridoxine dose to 100 mg/day.

<sup>&</sup>lt;sup>5</sup> Alternatively, some U.S. TB control programs have administered intensive phase regimens 5 days per week for 15 doses (3 weeks) then twice weekly for 12 doses.

### **RESOURCES ON TUBERCULOSIS**

# Centers for Disease Control and Prevention (CDC) Division of Tuberculosis Elimination (DTBE)

Guidelines: <a href="https://www.cdc.gov/tb/hcp/clinical-guidance/">https://www.cdc.gov/tb/hcp/clinical-guidance/</a>

Online Courses:

Self-Study Modules on Tuberculosis: https://www.cdc.gov/tb/hcp/education/self-study-modules-on-tuberculosis.html

Core Curriculum on Tuberculosis: What the Clinician Should Know: <a href="https://www.cdc.gov/tb/hcp/education/core-curriculum-on-tuberculosis-continuing-education.html">https://www.cdc.gov/tb/hcp/education/core-curriculum-on-tuberculosis-continuing-education.html</a>

## **Curry International Tuberculosis Center (CITC)**

Medical Consultation Warmline: <a href="https://www.currytbcenter.ucsf.edu/consultation">https://www.currytbcenter.ucsf.edu/consultation</a>

**877-390-6682** (toll-free)

Warmline inquiries can also be sent to the CITC email address: <a href="mailto:currytbcenter@ucsf.edu">currytbcenter@ucsf.edu</a>

8:00 AM to 4:30 PM (Pacific Time), Monday through Friday (excluding holidays). Voicemail is available to record incoming messages 24 hours a day, 7 days a week.

Online Products: <a href="https://www.currytbcenter.ucsf.edu/products">https://www.currytbcenter.ucsf.edu/products</a> (selected highlights only—check the web page for the full list)

- Nursing Guide for Managing Side Effects to Drug-resistant TB Treatment: <a href="https://www.currytbcenter.ucsf.edu/products/view/nursing-guide-managing-side-effects-drug-resistant-tb-treatment">https://www.currytbcenter.ucsf.edu/products/view/nursing-guide-managing-side-effects-drug-resistant-tb-treatment</a>
- Drug-Resistant Tuberculosis: A Survival Guide for Clinicians, 3<sup>rd</sup> edition/2022
   Updates: <a href="https://www.currytbcenter.ucsf.edu/products/view/drug-resistant-tuberculosis-survival-guide-clinicians-3rd-edition">https://www.currytbcenter.ucsf.edu/products/view/drug-resistant-tuberculosis-survival-guide-clinicians-3rd-edition</a>
- Tuberculosis Infection Control: A Practical Manual for Preventing TB: <a href="https://www.currytbcenter.ucsf.edu/products/view/tuberculosis-infection-control-practical-manual-preventing-tb">https://www.currytbcenter.ucsf.edu/products/view/tuberculosis-infection-control-practical-manual-preventing-tb</a>

Online Courses & Presentations: <a href="https://www.currytbcenter.ucsf.edu/trainings">https://www.currytbcenter.ucsf.edu/trainings</a> (selected highlights only—check the web page for the full list)

- Practical Solutions for TB Infection Control: Infectiousness and Isolation
- Tuberculosis Radiology Resource Page

## Achieving Treatment Completion for Drug-Susceptible TB **Supplemental Material**

Archived Webinars: <a href="https://www.currytbcenter.ucsf.edu/trainings/webinar-archive">https://www.currytbcenter.ucsf.edu/trainings/webinar-archive</a>

Classroom Trainings: <a href="https://www.currytbcenter.ucsf.edu/trainings">https://www.currytbcenter.ucsf.edu/trainings</a>

## **National Tuberculosis Coalition of America (NTCA)**

Tuberculosis Nurse Case Management: Core Competencies <a href="http://www.tbcontrollers.org/resources/core-competencies/tb-nurse-case-manager/">http://www.tbcontrollers.org/resources/core-competencies/tb-nurse-case-manager/</a>

Interjurisdictional Transfers (Forms and resources): <a href="http://www.tbcontrollers.org/resources/interjurisdictional-transfers/#.XZUwlOhKhPY">http://www.tbcontrollers.org/resources/interjurisdictional-transfers/#.XZUwlOhKhPY</a>

Interjurisdictional Transfers (Contacts): <a href="http://www.tbcontrollers.org/community/statecityterritory/#.XZUxHuhKhPZ">http://www.tbcontrollers.org/community/statecityterritory/#.XZUxHuhKhPZ</a>

## California Tuberculosis Controllers Association (CTCA)

California Department of Public Health/CTCA Joint Guidelines: https://ctca.org/guidelines/cdph-ctca-joint-guidelines/

CTCA Directory: <a href="https://ctca.org/wp-content/uploads/CTCA-Directory.pdf">https://ctca.org/wp-content/uploads/CTCA-Directory.pdf</a>

CTCA Peer Support: <a href="https://ctca.org/peersupport/">https://ctca.org/peersupport/</a>

WeAreTB: <a href="https://www.wearetb.com/">https://www.wearetb.com/</a>

Peer Support Navigator, Jackie Cuen (<u>postcard</u>), asks Dr. Catanzaro about TB: <a href="https://ctca.org/peersupport/interview-with-dr-cantanzaro-2021/">https://ctca.org/peersupport/interview-with-dr-cantanzaro-2021/</a>

Heartland National Tuberculosis Center (HNTC) - <a href="https://www.heartlandntbc.org/">https://www.heartlandntbc.org/</a>

Southeastern National Tuberculosis Center (SNTC) - https://sntc.medicine.ufl.edu/home/index#/

Mayo Clinic Center for Tuberculosis (MCCT) - https://centerfortuberculosis.mayo.edu/

#### **TB Free California**

The TB Free California initiative is a partnership among the California Department of Public Health (CDPH), community clinics and health departments throughout California to eliminate tuberculosis (TB) – <a href="https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/TB-Free-California.aspx">https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/TB-Free-California.aspx</a>