

TBeat

A newsletter produced by the Heartland National TB Center

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TB Centers of Excellence

HNTC is proud to share that it has been selected as one of four TB Centers of Excellence (TB COE) in the U.S. Along with this new 5 year cycle, CDC has assigned a new HNTC region which consists of: Texas, Oklahoma, Kansas, Nebraska, South Dakota, North Dakota, Iowa, Missouri, Arkansas and Louisiana. The Heartland team is very excited about expanding collaborations and partnerships and look forward to serving you as a TB COE.

In line with the CDC's goal of preventing, treating, and controlling TB disease and LTBI, and the vision for the TB COE's, Heartland's activities will focus on (1) increasing knowledge, skills, and abilities for TB prevention and control through communication, education, and training activities, and (2) improving sustainable evidence-based TB clinical practices and patient care through the provision of expert medical consultation.

Additional TB COE's covering the nation are: the Curry International TB Center, the Southeastern National TB Center, and the Global TB Institute.

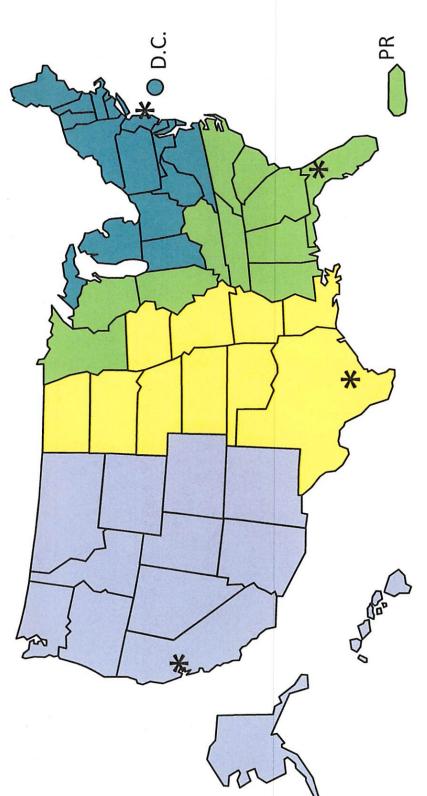
Letter by Philip A. LoBue:

http://www.heartlandntbc.org/temp/eblast/Dear Colleague.pdf

Please see the next page for the new TB Centers of Excellence for Training, Education, and Medication Consultation (COE) Areas of Coverage, 2018. This can also be accessed via the following link:

http://www.heartlandntbc.org/temp/eblast/COE map.pdf





Region 1, Curry International TB Center Region 2, Heartland National TB Center Region 3, Global TB Institute Region 4, Southeastern National TB Center

*COE Location



TB-BIT: HNTC Recently Revised / Published Products



CASE STUDIES IN TUBERCULOSIS

Nurse Case Management Training Tools for Patient Success

EXCELLENCE | EXPERTISE | INNOVATION

Patient Characteristics at Diagnosis	Hospitalized under All and being	DF INFECTIOUS TUBERCULOSIS PATIENTS ^{2,b} Discharge Criteria for Release from All for Adults and			
ratient Characteristics at Diagnosis	released to:				
AFB smear positive NAA test positive Patient is suspected of having active TB	General hospitalization Outpatient congregate setting Home or setting with high-risk contacts	1) Received the standard four drug regimen for at least 2 weeks if original AB Smare positive ON is on theapy for 5-7 days if origin AB Smare was negative; AND 2) Demonstrated rolinical improvement and adherence to ODI; AND 3) Three consecutive negative AHB smears collected at least 8 hours apart with at least 1 early morning specimen; AND 4) No risk factors for drug resistance.			
AFB smear negative, TB is not suspected NAA test is negative and/or another diagnosis is likely	General hospitalization Returning to school Returning to work Use of public transportation	Three consecutive negative AFB smears collected at least 8 hours apart with at least 1 early morning specimen; AND TB is not likely and another diagnosis has been identified.			
AFB smear negative AND TB is suspected or confirmed through NAA testing	Return to normal activities including: • General hospitalization • Returning to school • Returning to work • Use of public transportation	1) Received the standard four drug regimen for at least 5.7 days; AND 2) Demonstrates clinical improvement and adherence to DDT, AND 3) There consecutive negative AFB transact societised as least 8 hours agant with at least one early morning sectiones, AND 4. Rorisk factors for dang resistance. 1) Receiving and tolerating appropriate MDR-18 regimen; AND 2 Demonstrates clinical improvement and adherence to DDT, AND 3) There consecutive negative AFB culture: The Conference of the Conference of the Conference AFD of the Conference of the Conference AFD of the Conference of the Confer			
Confirmed MDR- or XDR-TB disease	Return to normal activities including: Returning to school Returning to work Use of public transportation				



A Clinician's Guide to the TB Laboratory



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Susceptibility				
	Immune status of the exposed individual; ie. HIV infection, organ transplant, immunosuppressive therapy, diabetes, kidney disease, IV drug use, etc.)	Is an All room the same as a negative-pressure isolation room? An All room is a special negative-pressure room for the specific purpose of foolithing persons who might have suspected or confirmed infectious TB disease from other parts of the settling. Not all negative-pressure rooms are All rooms because they might no have the required air flow or differential pressure.		
Infectiousness	A patient who expels many tubercle bacilli are more infectious than a patient who expel few or no bacilli			
Exposure	The longer, more frequent and close in proximity an individual is to an infectious person, the higher the chance for transmission			
Clinical Factors	Presence of cough, failure to cover mouth and nose when coughing, respiratory tract disease, inappropriate or inadequate treatment (drugs, duration), high sociability of a patient. *This list is not all-inclusive	When can airborne precautions in a healthcare or congregate setting be discontinued. The through for 2 weeks or longer, symptoms improve, and there have been three consecutive, negative 48 by puttum unear specimen of the control of		
Anatomical site	The following are the most infectious: pulmonary TB disease, extrapulmonary TB in addition to pulmonary tb, disease located in the oral cavity or the larynx or disease in an open abscess or lesion			
Radiographic	Most infectious: cavitation (vs. noncavitary disease) on chest radiograph, positive AFB sputum smear and positive culture			
Age	Transmission from children <10 years is unusual unless the chest radiograph is similar to adult pulmonary disease and/or shows cavitary changes			
Adherence	Inadequate treatment can prolong the period of infectiousness and put the patient at risk for drug-resistant TB disease. Some patients with seever disease will remain smear and culture positive after seeveal weeks of treatment however, isonizaid and riffampin are associated with a more rapid conversion.			
	stigation of Cornacts of Persons with Infectious Tuberculosis: Recommendations from the National Tuberculo Centers for Disease Control and Prevention. MMWR: December 16, 2005; Volume 34 (RH-15); p.1-37.	HEARILAND		
	ting the Transmission of Mycobacterium ruberculosis in Health-Core Settings. Centers for Disease Control and 0, 2005: Volume 54 (RR17).	Prevention. NATIONAL TB CENTER A MATHEMATICAL TO A CONTRACT AND TOD		

TB in the Community

This educational flipchart was produced by
Heartland National TB Center
in partnership with the
South Central AIDS Education & Training Center





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ble 12. Dosing Recommendations for Adult Patients with Reduced Renal Function Drug Change in Recommended Dose and Frequency for Patients

Drug Dange in Recommended Does and Properties of Prifette Control of the Control

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Tuberculosis Treatment Guidelines

Table 2. Drug Regimens for Microbiologically Confirmed Pulmonary Tuberculosis Caused by Drug-Susceptible Organisms

DIE 12: Dosing Recommendations for Adult Patients with Reduced Renai Function, including Adu Patients receiving Hemodialysis

Reference: Official American Thoracic Society, Centers for Disease Control and Prevention Infectious Disease Society of America Clinical Practice Guidelines: Treatment of Drug-Susceptible Tuberculosis Clinical Infectious Diseases • 2016

This publication was supported by the Goast or Cooperative Agreement Eurober (52750MBE) funded by the Centers for Disease Control and Proceedian. It is execute us enable for enqualitable of the authors used on to done used in present the eligibial wave of the Center of the Computer of the Computer of the Computer of the Center of the

sis on the day of hemodialysis; and monitoring of smain drug concentrations should be considered.			considered.	1-800-TEX-EURO - WWW.HE-BERGELOUG		
	RIF PZA EMB	(8 wk), or 5 d/wk for 40 doses (8 wk)	RIF	54 doses (18 wk)		which more frequent DOT during continuation phase is difficult to achieve.
3	INH RIF PZA EMB	3 times weekly for 24 doses (8 wk)	INH RIF	3 times weekly for 54 doses (18 wk)	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 d/wk for 14 doses then twice weekly for 12 doses	INH RIF	Twice weekly for 36 doses (18 wk)	62	Do not use twice-weekly regimens in HIV-infected patients or patients with smear-positivie and/or cavitary disease. If doses are missed, then therapy is equivalent to gone weekly, which is inferior.

a Other combinations may be appropriate in certain circumstances. When EOT is used, drugs may be given 5 days per week and the secreasy number of dozen adjusted control, publishing there is no routiles that compare 5 with 7 daily dozen, a classed control specific collaboration of properties of p



2018 HNTC Training Calendar

Date(s) Course Location

TO BE PUBLISHED IN FEBRUARY

The calendar will be updated in every newsletter as well as on the website to show trainings that have been confirmed

Please visit our website: http://www.heartlandntbc.org/training/calendar.php to find detailed

information concerning registration and participation.

Proposed topics are subject to change; check website for the latest updates.

Products from the Heartland National TB Center are available for download at

http://www.heartlandntbc.org/products/

Kesources

TB Education and Training Network

http://www.cdc.gov/tb/education/Tbetn/default.htm

National TB Controllers Association

http://www.tbcontrollers.org

Find TB Resources

www.findtbresources.org

Tuberculosis Epidemiologic Studies Consortium (TBESC)

http://www.cdc.gov/tb/topic/research/TBESC/default.htm

Regional Training and Medical Consultation Centers' TB Training and Education Products

https://sntc.medicine.ufl.edu/rtmccproducts.aspx

Program Collaboration and Service Integration (PCSI)

http://www.cdc.gov/nchhstp/programintegration/Default.htm

Centers for Disease Control and Prevention, Division of Tuberculosis Elimination

http://cdc.gov/tb/

*If your organization has any additional links for TB resources that you would like published, please send them to Alysia. Wayne@uthct.edu****



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The MISSION of the Heartland National TB Center is to build capacity with our partners. We will share expertise in the treatment and prevention of tuberculosis by: developing and implementing cutting-edge trainings, delivering expert medical consultation, providing technical assistance, and designing innovative educational and consultative products.

The VISION of Heartland National TB Center is to provide *excellence*, *expertise*, *innovation* in training, medical consultation, and product development to reduce the impact of tuberculosis in our region.