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Treatment of Drug-Resistant Tuberculosis. An Official ATS/CDC/ERS/IDSA Clinical Practice Guideline


Background: The American Thoracic Society, U.S. Centers for Disease Control and Prevention, European Respiratory Society, and Infectious Diseases Society of America jointly sponsored this new practice guideline on the treatment of drug-resistant tuberculosis (DR-TB). The document includes recommendations on the treatment of multidrug-resistant TB (MDR-TB) as well as isoniazid-resistant but rifampin-susceptible TB.

Methods: Published systematic reviews, meta-analyses, and a new individual patient data meta-analysis from 12,030 patients, in 50 studies, across 25 countries with confirmed pulmonary rifampin-resistant TB were used for this guideline. Meta-analytic approaches included propensity score matching to reduce confounding. Each recommendation was discussed by an expert committee, screened for conflicts of interest, according to the Grading of Recommendations, Assessment, Development, and Evaluation (GRADE) methodology.
Research in India Ensure No Tuberculosis Outbreak in the United States

UT Health Science Center awarded $1.4 million grant for tuberculosis research

The University of Texas Health Science Center at Tyler has been awarded a grant renewal in the amount of nearly $1.4 million ($1,397,390) to continue tuberculosis (TB) research in their biomedical research center. The grant is an award from the National Institutes of Health (NIH) and CRDF Global. Serving as the principal investigator, Rama (Krishna) Vankayalapati, PhD, will continue to explore the human immune responses to the disease. Simplistically, the research aims to find novel biomarkers that will identify persons at increased risk of developing active TB.

While less common in the United States, TB is still considered by the Centers for Disease Control and Prevention (CDC) as one of the world's deadliest diseases. The United States TB incidence rate in 2018 was the lowest ever reported at 2.8 cases per 100,000 persons. Approximately 66% of these cases were attributed to non-U.S.-born persons. While the United States is experiencing low rates, the rest of world is not. The CDC cites that one quarter of the world's population is infected with TB. In 2017, 10 million people around the world were diagnosed with the disease. Additionally, the CDC cites 1.3 million TB-related deaths worldwide for 2017. Given these statistics, Dr. Vankayalapati stresses the importance of TB research and the study of international disease to make certain the U.S. doesn't experience the same issues.

"Our research helps to ensure that the United States continues to maintain a low incidence rate," explained Dr. Vankayalapati. "As we come to understand more about TB, we are able to take preventive actions to ensure that we do not have a mass tuberculosis outbreak."

Dr. Vankayalapati’s team consists of Drs. Julie Philley, Buka Samten, Deepak Tripathi, Karan Singh and Richard Idell. Dr. Richard Idell, son of renowned researcher Dr. Steven Idell, is a psychiatrist with UT Health Science Center at Tyler and offers a different research approach for the team. Dr. Idell is examining the psychological effects taking place to understand often-developed depression with TB patients and those surrounding them.

For more information see: https://www.uthct.edu/article/116
Staff Announcement

We have exciting news to share!

Dr. Armitige is expanding her role at Heartland and is now Heartland’s Assistant Medical Director! Dr. Armitige began her career with Heartland in April 2010 as Medical Consultant and has proved to be an invaluable asset to the Heartland team, the Heartland region and beyond! Dr. Armitige is board certified in infectious disease, internal medicine and pediatrics.

Many of you may know Delphina Sanchez from her role with Heartland on the training team. Delphina joined Heartland in 2005 and has served in many capacities over the years, however, we are most excited to announce that she is now the Director of Education and Training! Delphina has a Bachelor of Arts in Spanish and a Master of Arts in Adult Learning and Teaching and is looking forward to meeting your training and education needs!

RoShonda Booker is new to Heartland but has quickly found a role to supplement her BS in Graphic Design! RoShonda has joined Delphina on the training team and looks forward to working with you to plan trainings, provide technical assistance and meet any other training needs you might have!

Please join us in welcoming Dr. Armitige, Delphina and RoShonda to their new roles. Contact information for Dr. Armitige, Delphina and RoShonda can be found on the HNCT website: www.heartlandntbc.org.

Upcoming Events and Courses

Course: TB Skin Testing: A Practical Approach       Date: January 22, 2020       Location: San Antonio, Texas
This course is designed for the TB professional who is responsible for training staff and other healthcare workers on the proper placement and reading of the tuberculin skin test (TST).

Course: National Webinar: Let’s Hash Out the Drug Rash—Part 2       Date: January 30, 2020       Location: Online
This webcast is intended for healthcare professionals who care for persons diagnosed with tuberculosis infection or disease and will provide them with knowledge to identify and apply appropriate interventions to manage patients with drug rash related to anti-TB medications

Course: Hot Topics in TB! The Elderly and TB       Date: March 12, 2020       Location: Online
This webcast is intended for healthcare professionals who are actively engaged in the identification, case management, and treatment of patients with latent TB infection or active TB disease.
Nursing Guide for Managing Side Effects to Drug-resistant TB Treatment

*Nursing Guide for Managing Side Effects to Drug-resistant TB Treatment* is a collaborative project between CITC and the International Council of Nurses (ICN). The guide was developed by nurses with experience in the clinical care and programmatic management of tuberculosis (TB) and drug-resistant tuberculosis (DR-TB) in both high- and low-resource settings.

Patients on treatment for DR-TB face many challenges, most notably difficult side effects such as nausea, hearing loss, and fatigue. These side effects impact the patient’s quality of life, capacity to work, and ability to continue activities of daily living. Medication side effects have been cited as a major factor linked to patients stopping treatment.

The guide’s authors reviewed nursing and DR-TB literature to establish best practice nursing assessment and intervention guidance. More than 200 nurses who care for patients with DR-TB in 11 countries field tested the guide; their valuable feedback informed the final content and format of the guide.

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<thead>
<tr>
<th>Date(s)</th>
<th>Course</th>
<th>Location</th>
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<tbody>
<tr>
<td>January 22</td>
<td>TB Skin Testing: A Practical Approach</td>
<td>San Antonio, Texas</td>
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<tr>
<td>January 30</td>
<td>National Webinar: Let’s Hash Out the Drug Rash—Part 2</td>
<td>Online</td>
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<tr>
<td>February 4, 11, 18, 25</td>
<td>Introduction to TB Nurse Case Management</td>
<td>Online</td>
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<td>February 27—29</td>
<td>24th Conference of The Union North America Region</td>
<td>Chicago, Illinois</td>
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<td><strong>conducted by International Union Against Tuberculosis and Lung Disease</strong></td>
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<td><a href="http://www.theunion.org">www.theunion.org</a></td>
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<tr>
<td>March 12</td>
<td>Hot Topics in TB! The Elderly and TB</td>
<td>Online</td>
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<tr>
<td>March 17—19</td>
<td>TB Nurse Case Management</td>
<td>San Antonio, Texas</td>
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<td>March 24</td>
<td>Screening and Treating TB Infection</td>
<td>Bryan, Texas</td>
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<td>June 8—10</td>
<td>Clinical TB Intensive</td>
<td>San Antonio, Texas</td>
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<td>May 21—22</td>
<td>Foundation for Conducting a TB Contact Investigation</td>
<td>San Antonio, Texas</td>
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<td>May 27—29</td>
<td>National TB Controllers Association</td>
<td>Minneapolis, Minnesota</td>
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<td><strong>conducted by National TB Controllers Association</strong></td>
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**This calendar is not inclusive of all available courses. Please refer to the website for any future trainings and detailed information. Courses listed are still open for registration.**

Please visit our website: [http://www.heartlandntbc.org/training/calendar.php](http://www.heartlandntbc.org/training/calendar.php)

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

**TRAININGS ARE POSTED TO THE WEBSITE AS THEY ARE CONFIRMED**
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.

Heartland National TB Center Staff
2303 Southeast Military Drive, San Antonio, Texas 78223
Tel: 800-TEX-LUNG (839-5864); Fax: 210-531-4590

www.heartlandntbc.org

Medical Director
Barbara Seaworth, MD
(210) 531-4541
barbara.seaworth@uthct.edu
barbara.seaworth@dshs.texas.gov

Medical Consultant
Megan Devine, MD
(903) 877-7380
megan.devine@uthct.edu

Nurse Consultant/Educator
Catalina Navarro, RN, BSN
(210) 531-4569
catalina.navarro@uthct.edu

Nurse Consultant/Educator
Megan Devine, MD
(210) 531-4541
megan.devine@uthct.edu

Nurse Consultant/Educator
Catalina Navarro, RN, BSN
(210) 531-4569
catalina.navarro@uthct.edu

Web Site Content Coordinator
Edgar Salinas, BBA
(210) 531-4520
edgar.salinas@uthct.edu

Executive Director
Stephanie Ott, CPM
(210) 531-4542
stephanie.ott@uthct.edu

Assistant Medical Director
Lisa Y. Armitige, MD, PhD
(210) 531-4548
lisa.armitige@uthct.edu
lisa.armitige@dshs.texas.gov

Director of Education and Training
Delphina Sanchez, MA
(210) 531-4528
delphina.sanchez@uthct.edu

Director of Education and Training
Delphina Sanchez, MA
(210) 531-4528
delphina.sanchez@uthct.edu

Program Specialist
Alysia Wayne
(210) 531-4540
alysia.wayne@uthct.edu

Training and Education Developer
RoShonda Booker, BS
(210) 531-4543
roshonda.booker@uthct.edu

Nurse Consultant/Educator
Marybel Monreal, RN, BSN
(210) 531-4539
marybel.monreal@uthct.edu

Training and Education Developer
RoShonda Booker, BS
(210) 531-4543
roshonda.booker@uthct.edu