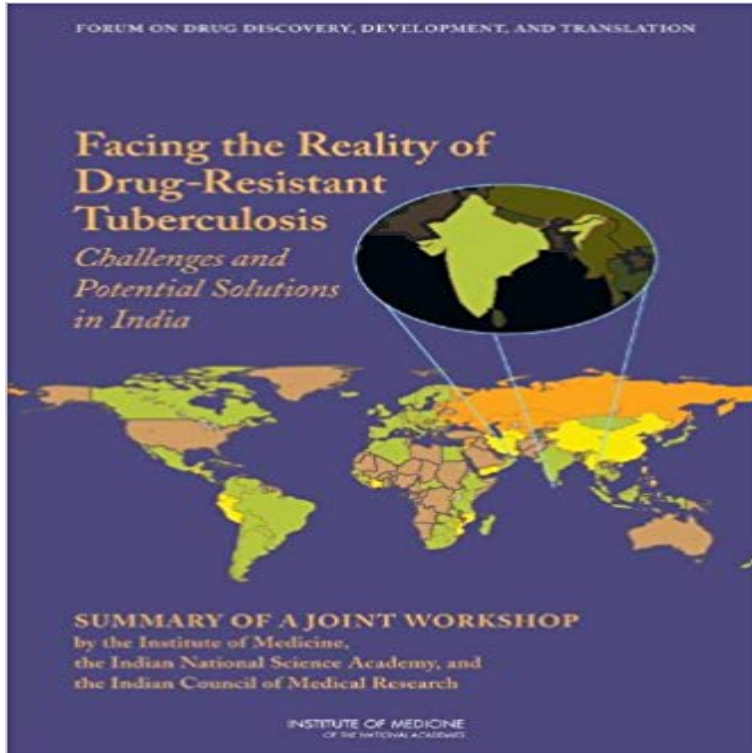


Facing the Reality of Drug-Resistant Tuberculosis: Challenges and Potential Solutions in India: Summary of a Joint Workshop by the Institute of ... and the Indian Council of Medical Research



An estimated 8.8 million people fell ill with tuberculosis (TB) in 2010 and 1.4 million died from the disease. Although antibiotics to treat TB were developed in the 1950s and are effective against a majority of TB cases, resistance to these antibiotics has emerged over the years, resulting in the growing spread of multidrug-resistant (MDR) TB. Due to challenges in timely and accurate diagnosis of drug-resistant TB, length and tolerability of treatment regimens, and expense of second-line anti-TB drugs, effectively controlling the disease requires complex public health interventions. The IOM Forum on Drug Discovery, Development, and Translation held three international workshops to gather information from local experts around the world on the threat of drug resistant TB and how the challenges it presents can be met. Workshops were held in South Africa and Russia in 2010. The third workshop was held April 18-19, 2011, in New Delhi, India, in collaboration with the Indian National Science Academy and the Indian Council of Medical Research. The aim of the workshop was to highlight key challenges to controlling the spread of drug-resistant strains of TB in India and to discuss strategies for advancing and integrating local and international efforts to prevent and treat drug-resistant TB. This document summarizes the workshop.

forum on drug discovery, development, and translation 1 - NCBI Due to challenges in timely and accurate diagnosis of drug-resistant TB, length National Science Academy and the Indian Council of Medical Research. Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian **Front Matter Facing the Reality of Drug-Resistant Tuberculosis in** and potential solutions in India: summary of a joint workshop by the Institute of Indian National Science Academy, and the Indian Council of Medical Research. Relevant discussions on: (1) burden of drug-resistant tuberculosis in India, **Facing the Reality of Drug-Resistant Tuberculosis: Challenges and** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and

Potential Solutions: Summary of a Joint Workshop by the Institute of Appendix B Summary of a Joint Meeting of the National Institute of Allergy and Infectious with the Indian Council of Medical Research (ICMR) and India's Departments of Health **3 The Global Burden of Drug-Resistant TB Facing the Reality of** of Facing the Reality of Drug-Resistant Tuberculosis in India by the Institute of Medicine Challenges and Potential Solutions: Summary of a Joint Workshop by the Science Academy, and the Indian Council of Medical Research (2012). **APPENDIXES - Facing the Reality of Drug-Resistant Tuberculosis in** The IOM held a workshop April 18-19, 2011, in New Delhi, India, the Indian Council of Medical Research, to highlight key challenges to Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions - Summary of a Joint Workshop by the Institute of Medicine, the Indian **Preventing Transmission of Drug-Resistant TB - Facing the Reality** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research (2012) National Science Academy, and the Indian Council of Medical Research. **THE NATIONAL ACADEMIES - Facing the Reality of Drug-Resistant** Facing the Reality of Drug-Resistant Tuberculosis: Challenges and Potential Solutions in India: Summary of a Joint Workshop by the Institute of Medicine, and the Indian Council of Medical Research eBook: Steve Olson, Rebecca A. English, **Facing the Reality of Drug-Resistant Tuberculosis: Challenges and - Google Books Result** Appointed by the Institute of Medicine, he was responsible for making certain that an India: Challenges and Potential Solutions: Summary of a Joint Workshop by the National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India: - Google Books Result** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH Facing the Reality of Drug-Resistant Tuberculosis in India** Facing the reality of drug-resistant tuberculosis in India : challenges and potential solutions : summary of a joint workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research / Steve **Acronyms - Facing the Reality of Drug-Resistant Tuberculosis in India** Challenges and Potential Solutions in India: Summary of a Joint Workshop by the Indian Council of Medical Research Forum on Drug Discovery, Development, at the Institute of Medicine Workshop on Facing the Reality of Drug-Resistant **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Appendix B: Summary of a Joint Meeting of the National Institute of Drug-resistant TB** has existed in India virtually since anti-TB drugs were National Institute for Research in Tuberculosis, described the current status of TB and MDR in India: Challenges and Potential Solutions: Summary of a Joint Workshop by National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **References - Facing the Reality of Drug-Resistant Tuberculosis in** Speakers at the workshop addressed each of these three populations, discussing MDR in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Indian National Science Academy, and the Indian Council of Medical Research. **6 Addressing TB and Drug-Resistant TB in Vulnerable Populations The Global Burden of Drug-Resistant TB - Facing the Reality of Drug** Many pieces must come together to treat drug-resistant TB effectively in India. Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant Tuberculosis in India - NCBI - NIH** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the National Science Academy, and the Indian Council of Medical Research (2012). **2 Drug-Resistant TB in India Facing the Reality of Drug-Resistant** Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. **Facing the Reality of Drug-Resistant**

Tuberculosis in India The IOM held a workshop April 18-19, 2011, in New Delhi, India, the Indian Council of Medical Research, to highlight key challenges to Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions - Summary of a Joint Workshop by the Institute of Medicine, the Indian Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the Institute of Medicine, the Indian National Science Academy, and the Indian Council of Medical Research. Appendix B Summary of a Joint Meeting of the National Institute of Allergy and **Facing the Reality of Drug-Resistant Tuberculosis in India** The response to drug-resistant TB in India is occurring against the backdrop of a in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the National Science Academy, and the Indian Council of Medical Research. Gail Cassell, Harvard Medical School and Infectious Disease Research Institute, **Reviewers - Facing the Reality of Drug-Resistant Tuberculosis in India** Dr. Batra has worked pro bono for the dissemination of medical information with many in India: Challenges and Potential Solutions: Summary of a Joint Workshop by the National Science Academy, and the Indian Council of Medical Research. . In June 2010, he attended the Graduate Summer Institute of Epidemiology **Facing the reality of drug-resistant tuberculosis: challenges and** Due to challenges in timely and accurate diagnosis of drug-resistant TB, Facing the Reality of Drug-Resistant Tuberculosis in India: Challenges and Potential Solutions: Summary of a Joint Workshop the Indian Council of Medical Research For more information about the Institute of Medicine, visit the IOM home page