

TB Infection Control in PEPFAR Supported Countries in Africa

Ginny Lipke, Center for Global Health, CDC

A Webber Training Teleclass

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 Centers for Disease Control and Prevention

Hosted by Dr. Shams B. Syed
 World Health Organization

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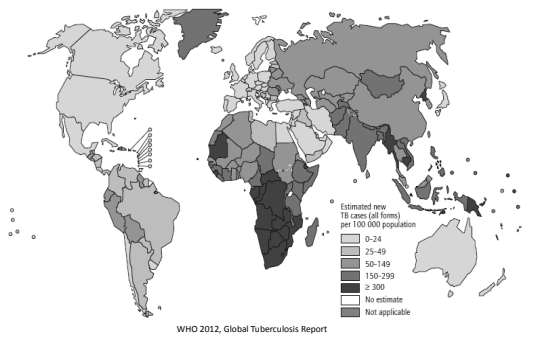
March 21, 2013

Overview

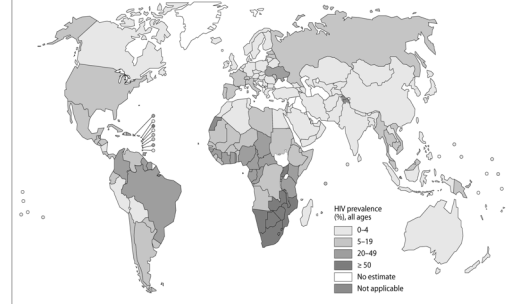
- The burden of TB/HIV coinfection in Sub-Saharan Africa
- The Role of PEPFAR in the scale-up of care and treatment
- The WHO 2009 Policy on TB Infection Control
- The Challenges of TBIC implementation
- The CDC TBIC training package-what it offers
- Considerations for country-wide scale-up of TBIC

Background

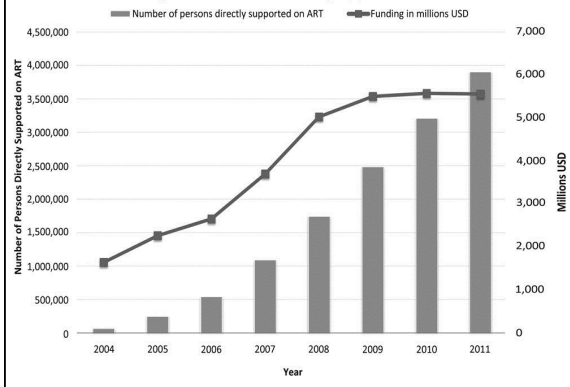
FIGURE 2.5 Estimated TB incidence rates, 2011



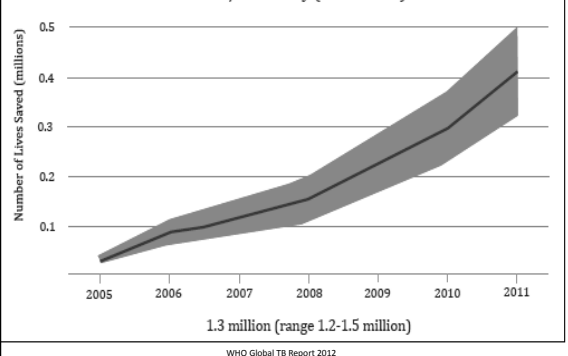
Estimated HIV prevalence in new tuberculosis cases, 2011



PEPFAR Funding and Number of Persons Directly Supported on ART (2004-2011)



Estimated Lives Saved by the Implementation of TB/HIV Policy (2005-2011)



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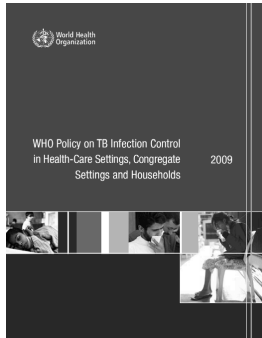
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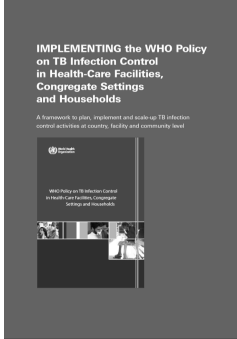


2009 WHO TB Infection Control Policy



- Evidence-based
- Aimed at national and sub-national policy makers
- Outlines measures:
 - Managerial
 - Administrative
 - Environmental
 - Person protective equipment (PPE)

Workbook For TBIC



- Examples
- Policies
- Tools
- Ideas
- www.tbcta.org/library

What was missing?

- Lack of “Champions” for TBIC from clinical administrators
- Lack of an understanding of strategies that could be implemented to make change occur
- Lack of easy-to-use templates to capture information and analyze risk
- Lack of easy-to-use teaching, monitoring, reminder tools and supplies
- Lack of standard operating procedures

Challenges to training HCW’s on TBIC

- Traditional TOT approach took workers away from facilities
- TOT messages could vary from trainer to trainer
- No convenient or efficient means to provide pre-service or annual refresher training
- Lack of consistent web access

Aspects of training HCW’s on TBIC

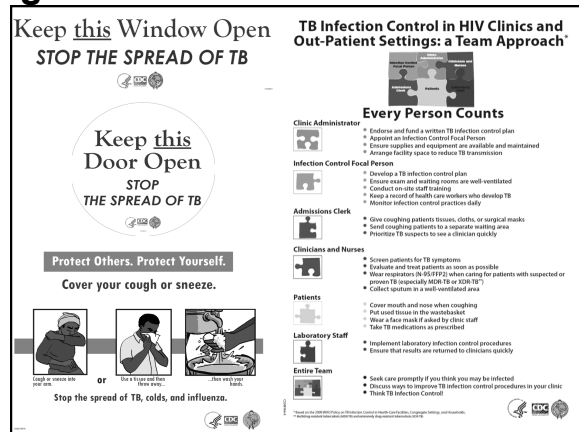
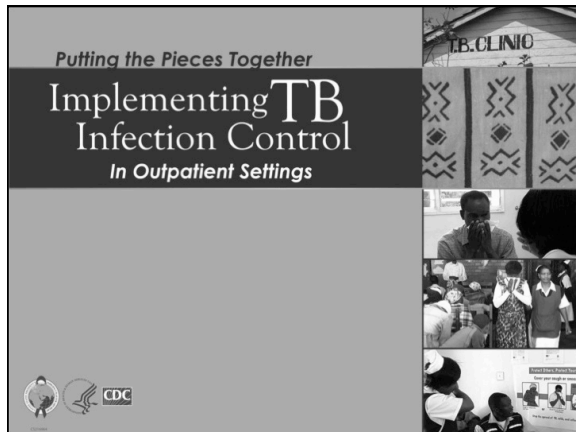
- Reduce costs to the country related to off-site travel of staff away from the clinic
- Consistent message that reinforced TBIC practices for all workers and complemented the package materials
- A portable, “on demand” method of education that could be used as part of an annual in-service or pre-service training
- Not web dependent, but can be accessed from the web
- Shows real workers implementing TBIC at real sites
- Available in French and English

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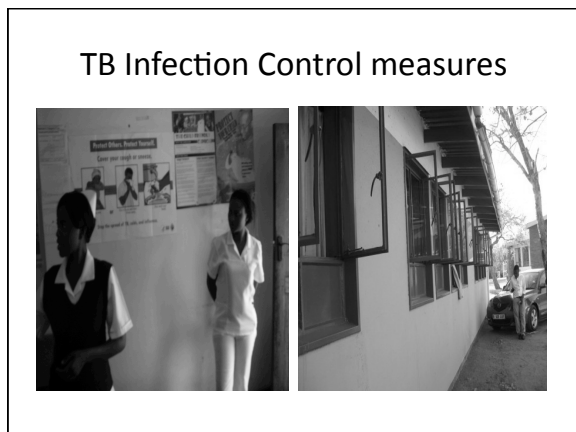
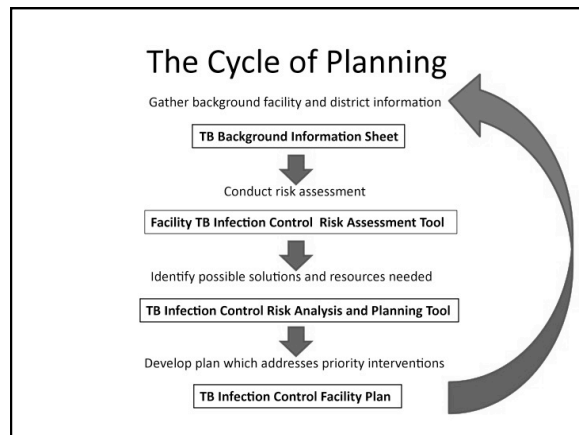
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- ### A Simple Step-by-Step process
- Step 1 – The TB Background Information Tool and the Risk Assessment Tool
 - Step 2 – The Risk Analysis Tool
 - Step 3 – Prioritizing the Problems
 - Step 4 – The Plan
 - Step 5 – Revisiting the Plan or The Cycle of Planning



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Separation Of Coughers



Fast Tracking To A Care Provider



Cough Etiquette For All Staff



Providing patient education



Waiting area at baseline and at follow-up



Reducing lab turn-around time



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Minimizing Diagnostic Delays

- Use of rapid diagnostics such as GeneXpert
- Reducing the turnaround time for sputum testing and culture
- Prompt initiation of treatment

Other occupational health issues



- Annual evaluations for TB for staff and offered HIV tests
- Staff are offered reassignments if HIV – positive and ART, INH, or IPT
- A log of staff diagnosed with TB is maintained

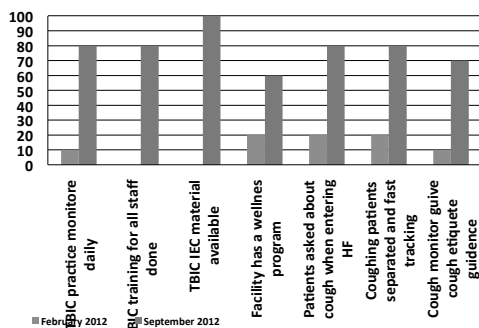
Confidential Log book for screening of HCWs

- Improved scheduled screening for TB & HIV among HCWs



Example of a Ventilation Monitoring tool

Summary evaluation of TBIC measures



Dash board matrix at baseline

TBIC Indicator variables	North			South			East			West			City Center
	Clinic 1	Clinic 2	Clinic 3	Clinic 4	Clinic 5	Clinic 6	Clinic 7	Clinic 8	Clinic 9	Clinic 10			
National IC Policy available													
IC Practitioner assigned													
IC Committee formed													
Written IC plan available													
IC plan has facility director endorsement													
TB IC risk assessment completed annually													
Facility design and patient flow assessed													
Patients with TB disease managed on DOTS													
TB IC practices monitored daily													
Facility reporting system for TB patients in place													
TB IC training for all staff done													
TB IC info available for all patients & visitors													
Operational research to improve TB IC													
Facility has an Occupational Health program													
Patients asked about cough in waiting facility													
Coughing patients separated and "fast tracked"													
Cough Monitor gives cough etiquette & triages													
Signage for cough etiquette present													

KEY: Done, available or desired outcome (dark grey)
Not done or not right (light grey)
Not applicable (white)

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Considerations for Scale-up

- Integrating QI into TB Infection Control
- Documenting the routine screenings and the monitoring of TB in healthcare workers
- Integrating TBIC as part of IC activities
- Accreditation programs for hospitals and out-patient facilities
- Score Cards for PEPFAR supported clinical sites

Acknowledgments

- | | |
|-----------------------|------------------|
| • Dr. Allyn Nakashima | CDC Atlanta |
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| • Courtney Emerson | CDC Atlanta |
| • Annatjie Peters, RN | CDC South Africa |
| • Dr. Yuma Moshe | NTP Botswana |
| • Dr. Alwyn Mwinga | CDC Zambia |

Questions?

- Virginia Lipke ... lbt2@cdc.gov
- www.cdc.gov/globalaids/Resources/pmtct-care/tuberculosis-infection-control.html



- 09 April (*WHO Teleclass*) INNOVATION AND NEW INDICATORS IN HAND HYGIENE
Speaker: Prof. John Boyce, Yale University
 - 11 April UTILIZING HOSPITAL-TO-HOSPITAL PARTNERSHIPS TO STRENGTHEN INFECTION PREVENTION AND CONTROL
Speaker: Dr. Shams B. Syed, World Health Organisation, Geneva
 - 16 April (*WHO Teleclass*) REVIEW OF THE EUROPEAN UNION SHARPS LEGISLATION
Speaker: Jane Aston, NHS
 - 17 April (*WHO Teleclass*) CLOSTRIDIUM DIFFICILE IN THE COMMUNITY: FOOD FOR THOUGHT
Speaker: Prof. Tomas Riley, University of Western Australia
 - 18 April LEADERSHIP IN INFECTION PREVENTION AND CONTROL
Speaker: Martin Kiernan, Southport & Ormskirk Hospital NHS Trust
 - 25 April (*Denver Russell Memorial Teleclass*) ROLE OF SURFACES IN DISEASE
- www.webbertraining.com/schedule1.php



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