



TOWARDS
ZERO
DEATHS

Module 10

EVALUATION OF CHILD TB MANAGEMENT

Priorities for Child TB and NTPs

“Best Practices in Tuberculosis Control” September 2010, Kigali, Rwanda



1. Develop and adapt child TB guidelines
2. Operationalise child TB guidelines
3. Identify child TB champion
4. Focal person for child TB at NTP – working group
5. Training – provide child TB training and incorporate into ongoing training related to TB and TB/HIV
6. Incorporate child TB into annual plans and 5-year strategic plan
7. Incorporate child TB into budget
8. Include child TB data in routine reporting and reviews
9. Operational research to determine constraints and barriers
10. Research aimed to improve child TB and contact management



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International Child TB Training Conference



04–08 October 2010
Cape Town, South Africa



In collaboration with the
International Union Against Tuberculosis and Lung Disease (IUATLD)



International Child TB Training Conference

Epidemiology, Prevention, Diagnosis and Management

Training

Content will depend on context

To meet the needs of the target population

Consistent with national guidelines



Desk-guide for diagnosis and management of TB in children



International Union Against
Tuberculosis and Lung Disease
Health solutions for the poor

Childhood TB and NTPs

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Operational research is a critical tool

Identify barriers

Identify main management issues

Identify OR priorities

Advocacy

Implementation

Monitoring progress



Desk-guide for diagnosis and management of TB in children



Priorities in Operational Research to Improve Tuberculosis Care and Control



Stop TB Partnership

 Investing in our future
The Global Fund
To Fight AIDS, Tuberculosis and Malaria

 **World Health Organization**

Revised TB recording and reporting forms and registers – version 2006



WHO also now recommends that all cases of child TB should be registered and reported within age bands: 0-4 years and 5-14 years

programme

Form 6

Quarterly Report on TB Case Registration in Basic Management Unit

Facility: _____

Patients registered during¹

_____ quarter of year _____

Coordinator: _____ Signature: _____

Date of completion of this form: _____

Block 1: All TB cases registered²

New cases	Previously treated			New pulmonary sputum smear microscopy positive			Pulmonary sputum smear microscopy negative			Pulmonary sputum smear microscopy not done / not available			New extrapulmonary			Other previously treated ³	TOTAL All cases
	Relapses	After failure	After default	0-4 yrs	5-14 yrs	≥ 15 yrs	0-4 yrs	5-14 yrs	≥ 15 yrs	0-4 yrs	5-14 yrs	≥ 15 yrs	0-4 yrs	5-14 yrs	≥ 15 yrs		

Block 2: New pulmonary sputum smear microscopy positive cases – Age group

Sex	0-4	5-14	15-24	25-34	35-44	45-54	55-64	≥ 65	Total
M									
F									

Block 3: Laboratory activity - sputum smear microscopy⁴

No. of TB suspects examined for diagnosis by sputum smear microscopy	No. of TB suspects with positive sputum smear microscopy result

Block 4: TB/HIV activities²

	No. patients tested for HIV before or during TB treatment ⁵	No. patients HIV positive ⁵
New sputum smear microscopy positive TB		
All TB cases		

¹ Registration period is based on date of registration of cases in the TB Register, following the start of treatment. Q1: 1 January–31 March; Q2: 1 April–30 June; Q3: 1 July–30 September; Q4: 1 October–31 December.

² Transferred in¹ and chronic cases are excluded. In areas routinely using culture, a separate form for unit using culture should be used.

³ Other previously treated cases include pulmonary cases with unknown history of previous treatment, previously treated sputum smear microscopy negative pulmonary cases and previously treated extrapulmonary cases. Transferred in¹ and chronic cases are excluded.

⁴ Data collected from the TB Laboratory Register based on "Date specimen received" in the laboratory during the quarter, without including patients with examination because of follow-up.

⁵ Documented evidence of HIV tests (and results) performed in any recognized facility before TB diagnosis or during TB treatment (at end of the quarter) should be reported here.

What is Operational Research?



- Research into *strategies, interventions, tools or knowledge* in real-world setting that can *improve* health care delivery
- Operational Research is also called decision science

Randomised trials and/or Operational research



RCT

- Objective: to provide data on **efficacy** of interventions in specific groups of patients
- Tests “gold standard” solutions to healthcare problems

OR

- Objective: to provide data on **effectiveness** in the real world of patient care
- Tests “practical approaches” to healthcare challenges

Why operational research?



- Improve programme outcomes
 - Improve program processes – efficiency
- Assess feasibility of new strategies or interventions in new settings
- Advocate for policy change

Guiding principles in setting a research agenda



- Define programme *objectives and priorities*
- *Identify constraints* to meeting objectives
- *Ask research* questions around constraints
- Identify measurable and relevant *performance indicators* – be SMART

Evaluation of child TB and NTPs



SMART: a definition for goal setting:

- **S** - specific, significant
- **M** - measurable, meaningful
- **A** - agreed upon, attainable, achievable, acceptable, action-oriented
- **R** - realistic, relevant, reasonable, rewarding, results-oriented
- **T** - time-based, time-bound, timely, tangible, trackable



Evaluation of child TB and NTPs



Exercise – group work:

Identify a priority challenge

Provide a rationale

Define research objectives

State measurable outcomes

Construct methodology

Timeframe

Personnel and budget required

Dissemination of findings

Figure. Interventions that target stages of the continuum in children from susceptibility to disease and outcome

