



Ministry of Health and Sports

# Introduction to IR

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**Online Brainstorming Workshop for Further Development of Action Plan  
for Implementation Research (MRH), DMR (POLB), 25<sup>th</sup>-26<sup>th</sup> September 2020**





# Introduction to IR



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# TDR IMPLEMENTATION RESEARCH TOOLKIT

This toolkit is designed to help you conduct an implementation research (IR) project through a standard process so that you have high quality results that are reliable. Before you get started, we recommend you read the [“How to use this Toolkit”](#) section. It is also advisable to take the [TDR Massive Open Online Course on IR](#) for a foundation knowledge of IR.







This message is provided as a service by TDR, the Special Programme for Research and Training in Tropical Diseases.  
This email service provides news and information on infectious diseases of poverty.

## IR-MOOC- Massive open online course on implementation research

# Deadline to register: 25 September 2020

A new session of the TDR Massive Open Online Course on Implementation Research is now organized by TDR and the School of Public Health, University of Ghana, the Regional Training Center supported by TDR in the WHO African Region.

This free course is a step-by-step online training for public health researchers and decision-makers, disease control programme managers, academics and others, that focuses on how to design and demonstrate robust IR projects to improve control of infectious diseases of poverty and generate better health outcomes.

**This course is open to all applicants.** No technical or scientific background is required, though a health background will be an advantage.

Language: English with subtitles in Spanish, English and French.

**Course starts on 5 October 2020.**

To register, please send a request to: [artc@ug.edu.gh](mailto:artc@ug.edu.gh)

Consult the [course flyer](#) for more information.

[More information](#) about TDR MOOC

# Course starts on 5 October 2020

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# What is implementation research?





## Midwifery

Volume 55, December 2017, Pages 1-6



# Perceptions of women on workloads in health facilities and its effect on maternal health care: A multi-site qualitative study in Nigeria

R.N. Ogu FMCOG (Consultant Obstetrician Gynaecologist and Senior Lecturer)<sup>a, d, e</sup>✉, L.F.C. Ntoimo PhD (Lecturer)<sup>b, d</sup>✉, F.E. Okonofua FRCOG (Professor of Obstetrics Gynaecology&Vice Chancellor)<sup>c, d, e</sup>✉

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<https://doi.org/10.1016/j.midw.2017.08.008>

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RESEARCH ARTICLE

# Low implementation of Xpert MTB/RIF among HIV/TB co-infected adults in the International epidemiologic Databases to Evaluate AIDS (IeDEA) program

Kate Clouse<sup>1,2,3</sup>, Meridith Blevins<sup>1,4</sup>, Mary Lou Lindegren<sup>1,2</sup>, Marcel Yotebieng<sup>5</sup>, Dung Thi Nguyen<sup>6</sup>, Alfred Omondi<sup>7</sup>, Denna Michael<sup>8</sup>, Djimon Marcel Zannou<sup>9</sup>, Gabriela Carriquiry<sup>10</sup>, April Pettit<sup>2,3,\*</sup>, International Epidemiologic Databases to Evaluate AIDS (IeDEA) collaboration<sup>¶</sup>





Research

BMJ Global Health

# The coverage of continuum of care in maternal, newborn and child health: a cross-sectional study of woman-child pairs in Ghana

Akira Shibamura,<sup>1</sup> Francis Yeji,<sup>2</sup> Sumiyo Okawa,<sup>1</sup> Emmanuel Mahama,<sup>3</sup>  
Kimiyo Kikuchi,<sup>1</sup> Clement Narh,<sup>4,5</sup> Yeetey Enuameh,<sup>3</sup> Keiko Nanishi,<sup>1</sup>  
Abraham Oduro,<sup>2</sup> Seth Owusu-Agyei,<sup>3</sup> Margaret Gyapong,<sup>4</sup> Gloria Quansah Asare,<sup>6</sup>  
Junko Yasuoka,<sup>1,7</sup> Evelyn Korkor Ansah,<sup>6,8</sup> Abraham Hodgson,<sup>6</sup> Masamine Jimba,<sup>1</sup>  
the Ghana EMBRACE Implementation Research Project Team





Shaikh et al. *Public Health Reviews* (2018) 39:24  
<https://doi.org/10.1186/s40985-018-0103-x>

Public Health Reviews

REVIEW

Open Access



# Health system barriers and levers in implementation of the Expanded Program on Immunization (EPI) in Pakistan: an evidence informed situation analysis

Babar Tasneem Shaikh<sup>1\*</sup> , Zaeem ul Haq<sup>2</sup>, Nhan Tran<sup>3</sup> and Assad Hafeez<sup>1</sup>



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# Retention and Risk Factors for Attrition in a Large Public Health ART Program in Myanmar: A Retrospective Cohort Analysis



Aye Thida<sup>1\*</sup>, Sai Thein Than Tun<sup>1</sup>, Sai Ko Ko Zaw<sup>1</sup>, Andrew A. Lover<sup>2</sup>, Philippe Cavailler<sup>3</sup>, Jennifer Chunn<sup>4</sup>, Mar Mar Aye<sup>5</sup>, Par Par<sup>5</sup>, Kyaw Win Naing<sup>5</sup>, Kaung Nyunt Zan<sup>5</sup>, Myint Shwe<sup>6</sup>, Thar Tun Kyaw<sup>7</sup>, Zaw Htoon Waing<sup>1</sup>, Philippe Clevenbergh<sup>1</sup>

**1** The Union Office in Myanmar, International Union Against Tuberculosis and Lung Disease, Mandalay, Myanmar, **2** Infectious Diseases Programme, Saw Swee Hock School of Public Health, National University of Singapore, Singapore, **3** Innovation Unit, Médecins Sans Frontières, Geneva, Switzerland, **4** Maths and Statistics Help Centre, James Cook University, Singapore, **5** Medical Care Division, Department of Health, Mandalay, Myanmar, **6** National AIDS Program, Department of Health, Nay Pyi Taw, Myanmar, **7** Disease Control Division, Department of Health, Nay Pyi Taw, Myanmar

## Abstract

**Background:** The outcomes from an antiretroviral treatment (ART) program within the public sector in Myanmar have not been reported. This study documents retention and the risk factors for attrition in a large ART public health program in Myanmar.

**Methods:** A retrospective analysis of a cohort of adult patients enrolled in the Integrated HIV Care (IHC) Program between June 2005 and October 2011 and followed up until April 2012 is presented. The primary outcome was attrition (death or loss-follow up); a total of 10,223 patients were included in the 5-year cumulative survival analysis. Overall 5,718 patients were analyzed for the risk factors for attrition using both logistic regression and flexible parametric survival models.



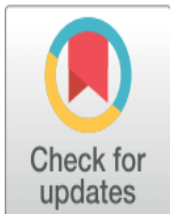
RESEARCH ARTICLE

# Intensified tuberculosis and HIV surveillance in a prison in Northeast India: Implementation research

Tarun Bhatnagar<sup>1\*</sup>, Malsawmtluangi Ralte<sup>2</sup>, Lalhriatzuali Ralte<sup>3</sup>, Chawnglungmuana<sup>4</sup>, L. Sundaramoorthy<sup>1</sup>, Lily Chhakchhuak<sup>3</sup>

**1** ICMR School of Public Health, ICMR-National Institute of Epidemiology, Chennai, India, **2** Mizoram State AIDS Control Society, Ministry of Health and Family Welfare, Aizawl, India, **3** Department of Health and Family Welfare, Mizoram, Aizawl, India, **4** SHALOM NGO, Aizawl, India

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Wilhelm *et al. BMC Health Services Research* (2016) 16:398  
DOI 10.1186/s12913-016-1652-7

BMC Health Services Research

RESEARCH ARTICLE

Open Access



# A qualitative study assessing the acceptability and adoption of implementing a results based financing intervention to improve maternal and neonatal health in Malawi

Danielle J. Wilhelm<sup>1\*</sup>, Stephan Brenner<sup>1</sup>, Adamson S. Muula<sup>2</sup> and Manuela De Allegri<sup>1</sup>



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# HEALTH EDUCATION RESEARCH

## A review of research on fidelity of implementation: implications for drug abuse prevention in school settings FREE

Linda Dusenbury, Rosalind Brannigan, Mathea Falco, William B. Hansen

*Health Education Research*, Volume 18, Issue 2, April 2003, Pages 237–256,

<https://doi.org/10.1093/her/18.2.237>

**Published:** 01 April 2003    **Article history** ▼



Kumar et al. *BMC Health Services Research* (2019) 19:543  
<https://doi.org/10.1186/s12913-019-4343-3>


BMC Health Services Research

RESEARCH ARTICLE

Open Access

# Implementation fidelity of provider-initiated HIV testing and counseling of tuberculosis patients under the National Tuberculosis Control Program in Kathmandu District of Nepal: an implementation research



Randeep Kumar<sup>1\*</sup> , Ari Probandari<sup>2</sup>, Biwesh Ojha<sup>3</sup>, Ashmin Hari Bhattarai<sup>1</sup> and Yanri Wijayanti Subronto<sup>4</sup>



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Research

## **Implementation research on community health workers' provision of maternal and child health services in rural Liberia**

Peter W Luckow,<sup>a</sup> Avi Kenny,<sup>b</sup> Emily White,<sup>b</sup> Madeleine Ballard,<sup>c</sup> Lorenzo Dorr,<sup>b</sup> Kirby Erlandson,<sup>d</sup> Benjamin Grant,<sup>b</sup> Alice Johnson,<sup>b</sup> Breanna Lorenzen,<sup>e</sup> Subarna Mukherjee,<sup>b</sup> E John Ly,<sup>b</sup> Abigail McDaniel,<sup>b</sup> Netus Nowine,<sup>f</sup> Vidiya Sathananthan,<sup>b</sup> Gerald A Sechler,<sup>g</sup> John D Kraemer,<sup>h</sup> Mark J Siedner<sup>i</sup> & Rajesh Panjabi<sup>g</sup>

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REGULAR ARTICLE

# The role of an mHealth intervention in improving knowledge and skills of accredited social health activists in tribal areas of Gujarat, India: a nested study within an implementation research trial

Shobha Shah (shahshobha30@gmail.com)<sup>1</sup>, Aakash Shinde<sup>2</sup>, Ankit Anand<sup>2</sup>, Dhiren Modi<sup>2</sup>, Gayatri Desai<sup>3</sup>, Hardik Bhatt<sup>2</sup>, Ravi Gopalan<sup>4</sup>, Nishith Dholakia<sup>5</sup>, Prakash Vaghela<sup>5</sup>, Shrey Desai<sup>2</sup>, Pankaj Shah<sup>2,3</sup>

1.Women's Health and Training Center, Society for Education, Welfare and Action-(SEWA) Rural, Bharuch, Gujarat, India

2.Community Health Project, Society for Education, Welfare and Action (SEWA) Rural, Bharuch, Gujarat, India

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4.Argusoft India Ltd, Gandhinagar, Gujarat, India

5.Department of Health and Family Welfare, Government of Gujarat, Gandhinagar, Gujarat, India





Research

BMJ Global Health

# Effects of emergency obstetric care training on maternal and perinatal outcomes: a stepped wedge cluster randomised trial in South Africa

Nynke van den Broek ,<sup>1</sup> Charles Ameh ,<sup>1</sup> Barbara Madaj,<sup>1</sup> Jennifer Makin,<sup>2</sup> Sarah White,<sup>1</sup> Karla Hemming,<sup>3</sup> J Moodley,<sup>4</sup> Robert Pattinson<sup>5</sup>

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THE LANCET  
Global Health

ARTICLES | [VOLUME 4, ISSUE 1, E45-E56, JANUARY 01, 2016](#)

## Cost and cost-effectiveness of newborn home visits: findings from the Newhints cluster-randomised controlled trial in rural Ghana

[Catherine Pitt, MSc](#)   • [Theresa Tawiah, MSc](#) • [Seyi Soremekun, PhD](#) • [Augustinus H A ten Asbroek, PhD](#) • [Alexander Manu, PhD](#) • [Charlotte Tawiah-Agyemang, MSc](#) • et al. [Show all authors](#)

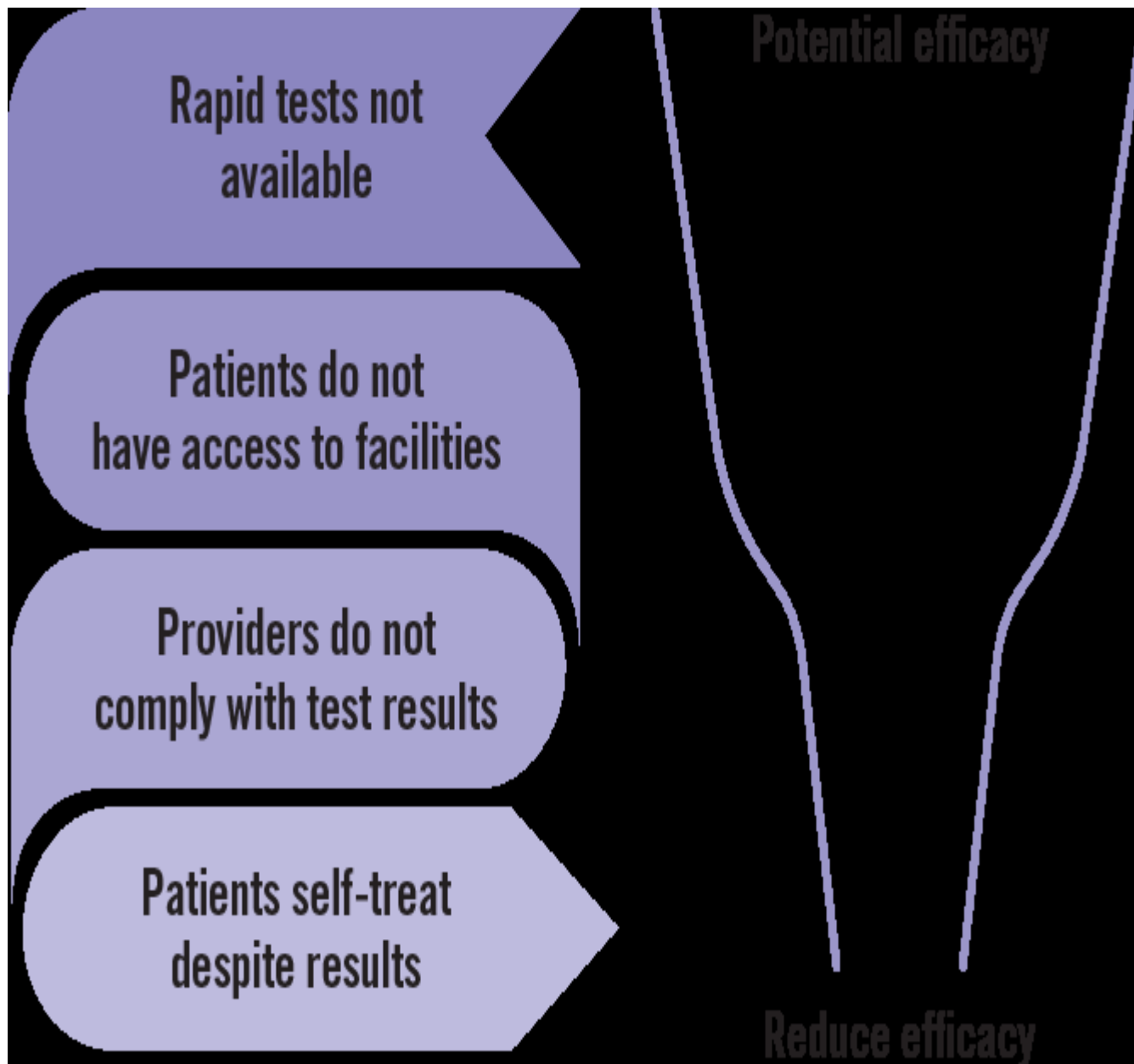
[Open Access](#) • Published: November 27, 2015 • DOI: [https://doi.org/10.1016/S2214-109X\(15\)00207-7](https://doi.org/10.1016/S2214-109X(15)00207-7) •



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Efficacy of ACT = **98%**

**60%** of suspected malaria patients  
accessing clinics with ACT

Appropriate diagnostic test performed in  
**95%** of malaria patients

**95%** of malaria patients  
prescribed appropriate ACT

**70%** of patients adhering  
to prescribed ACT

**37%** of malaria patients  
effectively benefiting from ACT

Proportion of malaria  
patients benefiting from ACTs  
deployment at the different  
stages of implementation.


**60%**

**57%**

**54%**

**37%**





IR is a  
systematic  
approach that...

Identifies implementation  
bottlenecks

Identifies optimal  
approaches


Promotes Uptake of research  
findings



**Improves  
health care  
and its  
delivery**

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Implementation  
research...

Demand driven

Research question  
developed with stakeholders

Implementers are part of the  
research process





# Defining research to improve health systems

Research domain	Primary characteristics		
	Focus of the research	Focus of the research outputs	Utility of the research output
Operational research	Operational issues of specific health programs	Health-care providers, program managers	local
Implementation Research	Implementation strategies for specific services	Program managers, Research & Development Managers	Local/broad
Health Systems Research	Issues affecting some or all of the health system building blocks	Health system managers, policy makers	Broad





# Implementation research outcomes

<b>IRO</b>	<b>Related terms</b>
<b>Acceptability</b>	Related factors: (eg. comfort, relative advantage, credibility)
<b>Adoption</b>	Uptake, utilization, intention to try
<b>Appropriateness</b>	Relevance, perceived fit, compatibility, perceived usefulness or suitability
<b>Feasibility</b>	Practicality, actual fit, utility, trialability
<b>Fidelity</b>	Adherence, delivery as intended, integrity, quality of delivery, intensity or dosage of delivery
<b>Implementation cost</b>	Marginal cost, Total cost
<b>Penetration/ coverage</b>	Reach, access, service spread or effective coverage, penetration
<b>Sustainability</b>	Maintenance, continuation, routinization, institutionalization









# The slide is jointly developed



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Strengthening health systems since 2005

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# Questions, comments and suggestion

