



Ministry of Health and Sports

Introduction to IR

Dr Thida

MBBS; M.MedSc (PH); PhD (Epidemiology)

Director (Socio-Medical Research)

Department of Medical Research (Pyin Oo Lwin Branch)



**Online Brainstorming Workshop for Further Development of Action Plan for
Implementation Research (SH), DMR (POLB), 17th-18th September 2020**



Introduction to IR



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020

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

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

[More information](#) about TDR MOOC

Course starts on 5 October 2020



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020



What is implementation research?



Plan for



Leung et al. *BMC Health Services Research* (2020) 20:292
<https://doi.org/10.1186/s12913-020-05147-z>

BMC Health Services Research

RESEARCH ARTICLE

Open Access

What will it take? Using an implementation research framework to identify facilitators and barriers in implementing a school-based referral system for sexual health services



Emily Leung^{1*}, Kathryn J. Wanner², Lindsay Senter¹, Amanda Brown¹ and Dawn Middleton¹



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020



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** ▼





RESEARCH ARTICLE

School-based obesity prevention for busy low-income families—Organisational and personal barriers and facilitators to implementation

Asa Norman^{1*}, Gisela Nyberg^{1,2}, Anita Berlin³

1 Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, **2** The Swedish School of Sport and Health Sciences, Stockholm, Sweden, **3** Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Huddinge, Sweden

* asa.norman@ki.se





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^{1*} , Zaeem ul Haq², Nhan Tran³ and Assad Hafeez¹



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020



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^{1,2,3}, Meridith Blevins^{1,4}, Mary Lou Lindegren^{1,2}, Marcel Yotebieng⁵, Dung Thi Nguyen⁶, Alfred Omondi⁷, Denna Michael⁸, Djimon Marcel Zannou⁹, Gabriela Carriquiry¹⁰, April Pettit^{2,3,*}, International Epidemiologic Databases to Evaluate AIDS (IeDEA) collaboration[§]



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



Aye Thida^{1*}, Sai Thein Than Tun¹, Sai Ko Ko Zaw¹, Andrew A. Lover², Philippe Cavailler³, Jennifer Chunn⁴, Mar Mar Aye⁵, Par Par⁵, Kyaw Win Naing⁵, Kaung Nyunt Zan⁵, Myint Shwe⁶, Thar Tun Kyaw⁷, Zaw Htoon Waing¹, Philippe Clevenbergh¹

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.





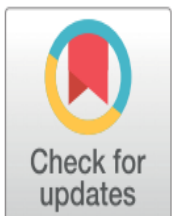
RESEARCH ARTICLE

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

Tarun Bhatnagar^{1*}, Malsawmtluangi Ralte², Lalhriatzuali Ralte³, Chawnglungmuana⁴, L. Sundaramoorthy¹, Lily Chhakchhuak³

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

* tarunbhatnagar@nie.gov.in





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



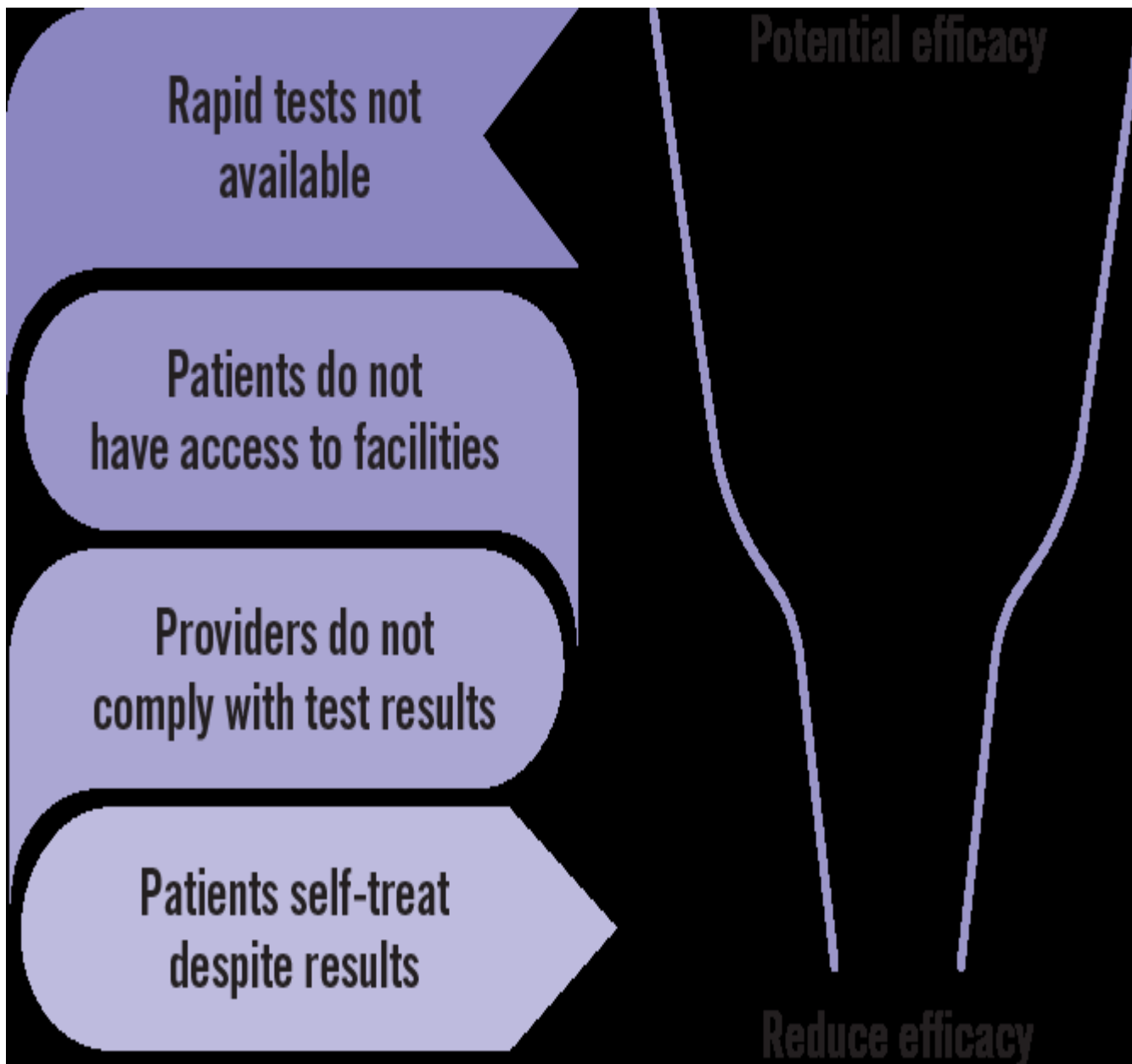
Implementation fidelity of provider-initiated HIV testing and counseling of tuberculosis patients under the National Tuberculosis Control Program in Kathmandu District of Nepal: an implementation research

Randeep Kumar^{1*} , Ari Probandari², Biwesh Ojha³, Ashmin Hari Bhattarai¹ and Yanri Wijayanti Subronto⁴



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020







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%



**Online Brainstorming Workshop for Further Development of Action Plan for
Implementation Research (SH), DMR (POLB), 17th-18th September 2020**



IR is a
systematic
approach that...



Identifies implementation
bottlenecks

Identifies optimal
approaches

Promotes Uptake of research
findings



**Online Brainstorming Workshop for Further Development of Action Plan for
Implementation Research (SH), DMR (POLB), 17th-18th September 2020**

**Improves
health care
and its
delivery**





Implementation
research...



Demand driven

Research question
developed with stakeholders

Implementers are part of the
research process



**Online Brainstorming Workshop for Further Development of Action Plan for
Implementation Research (SH), DMR (POLB), 17th-18th September 2020**



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



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020



Implementation research outcomes

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





Multidisciplinary team work: a core
element of IR



The slide is jointly developed



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020



Questions, comments and suggestion



Online Brainstorming Workshop for Further Development of Action Plan for Implementation Research (SH), DMR (POLB), 17th-18th September 2020