Development of a Virtual Training and Mentoring Initiative for Implementation Research in Rwanda During the Covid-19 Pandemic **M Northwestern** Medicine[®]





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Background

- Significant gap exists between evidence-based interventions and their successful delivery
- Implementation research (IR)
 - The study of what, why, and how interventions are implemented in real world settings
 - Applies rigorous frameworks, measures, and research designs
 - Critical to understand how to address delivery and policy gaps
- There is a need to build capacity for IR in academic institutions and researchers in low- and middle-income countries (LMICs)
- We describe the design, adaptation and implementation of a blended training and mentoring initiative embedded into the existing Masters of Science in Global Health Delivery (MGHD) at the University of Global Health Equity (UGHE) in Rwanda

Methods

- The University of Global Health Equity located in Rwanda is an independent university shaping global health professionals into leaders equipped in sustaining equitable health services for all
- The MGHD program at UGHE:
- 1-year program
- Builds research and leadership for global health delivery
- Combines didactic work and a field-based practicum
- In 2019
 - Funding from the NU Institute of Global Health (IGH) to develop a blended distance and in person workshop and mentoring program to integrate IR into the MGHD program
- Design
 - Leveraged existing Northwestern resources and IR expertise
 - TiDR model from the NIH
- Rapid revision due to Covid-19 travel restrictions
- Fully remote
- Combined synchronous and asynchronous learning
- Interactive workshop
- Mentoring of 3 MGHD student projects



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Project Objectives

To develop and integrate a remote mentoring and training program into UGHE's Master's of Global Health Delivery program to build IR training and mentoring capacity, increase interest and skills of IR in graduating students, and inform future work

Results

Final design

Introductory virtual 3-hour workshop (via zoom)

- Didactic sessions and breakouts groups for applied learning
- 3 practicum projects were selected and remote mentoring initiated (see box 1)
- Second virtual workshop
 - Deepening understanding and applicability of IR
 - IR Logical Model
 - Didactic lectures, breakout sessions and case studies
- Evaluation (figures 1A and 1B)
- 67% of students 'moderately' and 33% of students 'greatly' plan to use implementation research moving forward
- 83% of students rated the overall workshop as 'very good' to increase application of the core concepts of IR
- Practicums have all integrated components of IR into their design
- Ongoing mentoring and distance journal clubs are planned

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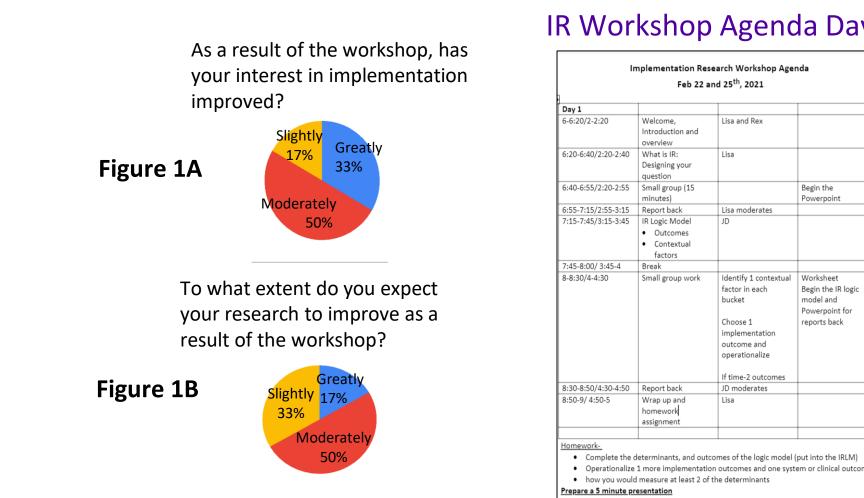
- IR curricula integration
- Training and skills building at UGHE

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Box 1: Mentored MGHD student projects with IR Integration

1. Assessing the Prevalence and Factors Associated with Postpartum Depression Among Women Delivering in Four Rural Districts in Lesotho 2. Assessing the Outcomes, Associated factors and Barriers to Care after Discharge in Children with Gastroschisis in Rwanda

3. Assessing Functionality and Utilization of mHealth Yendanafe System in Community and Clinical Programming in Neno district, Malawi



Conclusions and Future Directions

Successfully designed and rapidly adapted a fully remote blended approach to training and mentoring using adult learning pedagogical principles Resulting in increased knowledge and application into planned practicum Building on existing NU resources helped accelerate the process Areas for improvement:

- More time in the workshops for slower paced learning Engaging practicum leaders earlier in design
 - Further case study examples to enhance understanding
- Areas for continued development:
 - Modifications to sustain virtual approach
 - Practicum design expansion
 - Transition into blended on-site and remote as travel restrictions lighten

IR Workshop Agenda Day 1