EA-PoC WP 2
Implementation Research

Lead: AIGHD – Prof. Dr. Ria Reis

Co-Lead: KCRI – Dr. Marion Sumari-de Boer

Background: IR

- Implementation research
  - Research to investigate implementation bottlenecks
  - To increase uptake of proven effective interventions
  - Moving from research to practice
- Implementation Research Outcomes*
  - Acceptability
  - Feasibility
  - Implementation costs
  - Appropriateness
  - Fidelity
  - Penetration
  - Sustainability

*MOOC on Implementation Research (WHO-TDR)

Main objective WP 2

To evaluate the feasibility and acceptability of using PoC HIV VL monitoring among children and adolescents living with HIV (intervention sites)

Feasibility: The extent to which PoC HIV VL can be carried out in East Africa

Acceptability: The perception among stakeholders that PoC HIV VL is agreeable

Sekhon Framework for Acceptability

- Seven constructs of acceptability*
  - Perceived effectiveness
  - Affective attitude
  - Perceived burden
  - Intervention coherence
  - Ethicality
  - Opportunity costs
  - Self-efficacy

*Sekhon et al. BMC Health Services Research, 2017

MIDI model for feasibility

- MIDI (MeasurIng the Determinants of Innovations) model for feasibility*

- Determinants associated with:
  - The innovation
  - Implementing persons
  - Implementing organization
  - the social, political and cultural context

*Fleuren et al, Int J Qual Health Care, 2014

Objectives

1. To assess the critical determinants that can affect the implementation of the intervention from the perspective of those implementing the intervention package(s) (i.e., health staff at all involved levels)
2. To assess the acceptability of the implementation of PoC HIV VL monitoring (the intervention) from the perspective of 'end-users' (i.e., children, adolescents, and their caregivers).
3. To assess broader challenges as well as challenges associated with facilitating factors in implementing and scaling-up the intervention.
4. To provide feedback to the partners regarding the acceptability and feasibility of the intervention so as to aid the implementation process and refine the intervention and its sustainability for future use across the region.

Methods

Mixed methods research in intervention sites

- Task 1: participant observation, IDI with health providers (T0, T1, and T2)
- Task 2: mixed methods approach on end-users
  - FGD (year 2)
  - IDI (year 2)
  - Survey (year 3)
- Task 3: IDI with ministry of health/policymakers
- Task 4: Feedback on intervention challenges

GANTT

GANTT WP2	YEAR 1				YEAR 2				YEAR 3				YEAR 4			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Prepare first study approvals package																
Baseline observations				2.1												
T1 observations and interviews Health providers																
T1 qual data analyses Health providers							2.2.									
T2 observations and interviews Health providers																
T2 qual data analyses Health providers									2.6.							
data collection end users: focus groups																
qual data analyses focus groups							2,3,									
data collection end-users: interviews																
qual data analyses end users interviews								2.4.								
interviews including analysis policy makers								2.5								
Adapt survey instrument										2.7.						
Survey																
Data analyes survey																
Write report																2.8.

Assuming that implementation starts in Year 1 Q4

Deliverables

Deliverable	Month
First implementation research intermediate report	**18**
Second implementation research intermediate report	**30**
Final report	**48**

Milestones

Baseline observations	9
Finalized T-1 data collection AND ANALYSIS amongst health providers	18
Finalized qualitative data collection AND ANALYSIS end users: focus groups	18
Finalized T2 qualitative data analysis health providers	24
Finalized qualitative data collection end user and policy makers interviews	21
Finalized adaptation survey instrument	27
Finalized qualitative data collection amongst end users	36
Finalized quantitative and combined mixed methods analysis	42

Year 1

Month	Deliverables and Milestones	Project Year /Quarter	Activities	Where	With whom	How / numbers	Local Personnel
	Study Protocol	Y1, Q1-2	Write Study Protocol	-	-	-	
	Ethical Clearance	Y1, Q1-2	Prepare study approvals package	-	-		
		Y1, Q1-2	Gain field access, train assistants etc	Intervention sites	-	-	Qual Research assistants (BA,MA)
		Y1, Q3-4	Participant 0bservation/IDI	Intervention sites	All levels of HC - numbers depend on size of sites	T0-baseline, over three weeks	Qual Research assistants
M12	M 2.1. Baseline analysed	Y1, Q4	Baseline data analysis				
		PhD	Registration AISSR PhD plan PhD protocol Training research assistants	Amsterdam			

Year 2

- IDI children/adolescents and caregivers
- FGD children/adolescents and caregivers
- IDI with HCW on T1 and T2
- Interviews with policymakers

Other related activities

- Implementation research and mixed methods data collection training

Personnel

- Lead: AIGHD - Ria Reis (PI) and Marion Sumari (Post Doc)
- Co-lead: KCRI - Marion Sumari (Co-PI) and Perry Msoka (PhD student)
- Each country: Research assistant (MSc level) Mixed methods data collection
- Each country: Datamanager

Remaining issues

- Ethical clearance
- Research assistance: experience mixed methods data collection
- Alignment with other WPs
  - WP 1: tune with intervention sites – activities before start
  - WP 3: addition of mental health
  - WP 4: datamanagement of mixed methods (including survey)
  - Wp 5: training
  - WP 6: stakeholder involvement