



SAIA 3-Country Study (2013-2015)

- ~Efficacy trial
- Cluster RCT conducted in Côte d'Ivoire, Kenya and Mozambique
- Tested impact of SAIA on the PMTCT cascade
- Intervention implemented by HAI study nurses
- Resulted in improvements in
 - **ART uptake** (13.3% vs. 4.1% increase)
 - Early infant diagnosis (11.6% vs. 0.7% increase)

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SAIA-Scale Study (2017-2021)

Overall objective

- · ~Effectiveness trial
- Evaluate a district government-led, at-scale programming approach to the SAIA intervention

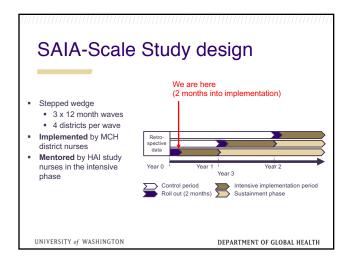
Study setting: Manica Province, Central Mozambique

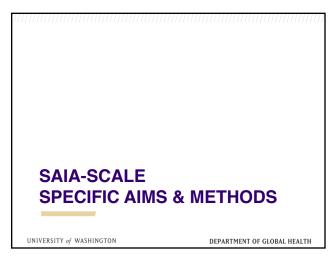
- Total population: ~2 million
- 15.3% adult HIV prevalence
- 12 districts; 9-13 total health facilities per district
- Three highest-volume health facilities per district to be included in the intervention

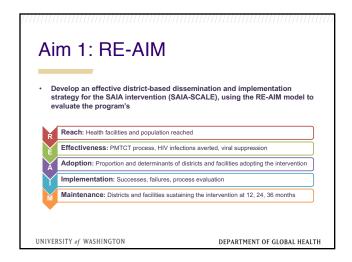


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Aim 2: Cost-effectiveness Using activity-based micro-costing and mathematical models of HIV transmission, estimate the budget and program impact from the payer perspective to scale-up the SAIA intervention compared to the standard of care.

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Aim 2 detailed objectives

- Projected cost and ICER for different scale-up scenarios, e.g:

 - High-prevalence provinces only
 - Largest health facilities only

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SAIA-SCALE COSTING METHODS

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Costing methods

1. Micro-costing

• Results can be disaggregated

2. Bottom-up, activity-based

- · Based on project activities
- More accurate and comprehensive
- · However, more time-consuming and complex

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Activity-based cost analysis

- 1. Cost analysis framework development
 - List broad program activities (e.g. supervision of health facilities)
 List components of each activity that incur costs (e.g. supervisors' time)
 Review and refine together with program implementers

 - Brainstorm data collection methods to quantify each component
- 2. Data collection
 - Extract data from existing sources as much as possible
 - (e.g. public records of government salaries)

 Measure as many remaining cost components as possible
 - (e.g. person-time) Estimate remaining variables
 - (e.g. travel time, distances)
- Multiply cost components by unit costs

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Main SAIA-SCALE implementation activities

- 1. Training district supervisors
- 2. Supervision visits to health facilities
- 3. Micro-interventions within health facilities
 Main cost-incurring components of
 this activity:
 - a. Person-time
 - b. Transportation

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Supervision visits to health facilities

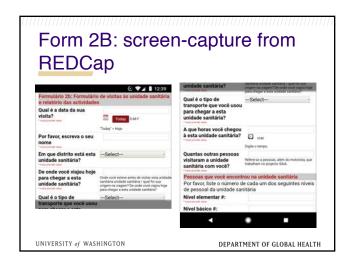
- · Description:
 - District MCH supervisors visit health facilities
 - Guide health facility staff through PCAT, flow mapping, and CQI
 - Monitor progress
- Data collection: Tablet-based survey, filled by district MCH supervisors
- Status: underway (2 months into 36-month implementation period)

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Snapshot of cost analysis framework			
ACTIVITY	COST COMPONENT	DATA TYPE	DATA SOURCE
ciliti	Costable units		
	Metadata (date, location, etc.)	Measured	REDCap Form2B
	Number of district supervisors (health facility visitors)	Measured	REDCap Form2B
	Health facility staff visited	Measured	REDCap Form2B
	Duration supervision visit	Measured	REDCap Form2B
	Transportation type and origin	Measured	REDCap Form2B
	Drive time or distance for supervisors	Estimated	Google Earth, interviews with district supervisors
Supervision			

Form 2B, Facility visit survey Data collected Date Time GPS coordinates Enumerator District Health facility visited Arrival time Departure time Transportation type Transportation origin Health facility visitors (organization, job position) Staff visited (by level) Activities description Any other notes

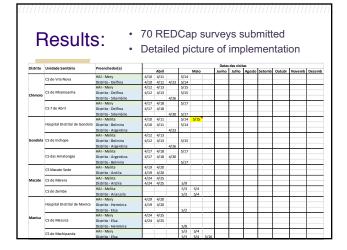


District supervisors' tablet setup

- · Intuitive layout
- · Guides alongside apps
- · Remove excess apps
- Direct communication for troubleshooting
- Data collection and implementation tools

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Discussion What has worked well Simple forms Lots of piloting (and Keshet patiently revising tools) Integrating forms into implementation Hal uses REDCap data to track implementation Per-diems for district supervisors are contingent on submitting REDCap data What hasn't worked well Poor internet connections in some districts REDCap translations incomplete REDCap longitudinal forms too complicated for our purposes





