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Synthesizing Data From Staff Interviews and Performance Observations: An Evaluation of a Quality Assurance Intervention on HIV-Related Care in Zambia

Eva Bazant, DrPH, MPH Sr. Monitoring, Evaluation and Research Advisor

Supriya Sarkar, MPH Jhpiego, an affiliate of Johns Hopkins University

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Objective of this session: learn how the project used multiple data sources and aimed to synthesize the results, and review the challenges and lessons learne



## Background (2): Evaluation

## Objectives

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## Study Design

- To generate evidence of SBM- Quasi-experimental with 4 intervention & 4 comparison sites
- Provider performance of services (anti-retroviral therapy (ART) and prevention of mother to child transmission (PMTCT)
- Facility readiness
- Providers' perceived work environment
- Service use and health outcomes
- 8 sites matched on ZDF Branch (Army, Air Force, National Service), urban/rural, service volume, and size of catchment population
- Baseline & endline (~15 mo. apart)
- Data Sources:
  - Observations of and interviews with all providers by trained, external clinicians
  - Facility assessments & service records use

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multivariate linear regression models were estimated. Dependent variable– providers' ratings of work environment and service quality– were modelled as a function of: intervention status (intervention group and comparison group), time period (baseline and endline), and their interaction. In the multivariate models, the interaction term p-value assesses whether changes from baseline to endline differed significantly between the intervention and comparison groups. The multivariate models controlled for provider's cadre (a binary variable of clinical or non-clinical) and number of years at the facility. Standard errors were adjusted for clustering within each facility [Williams, 2009]. All analyses were performed in Stata 11.0 [StataCorp, College Station, TX).



- 12 items (Observations)
- Q113 PMTCT Guidelines
- Q114 STI Guidelines
- Q115 Clinical Records (SMH, PMTCT registers, ANC cards, etc.)
- Q124 HIV testing kits
- Q125 Hb testing kits
- Q126 AZT tablets
- Q127 NVP tablets
- Q128 NVP suspension + dispensers
- Q129 Benzathine Penicillin
- Q130 Erythromycin
- Q132 Maternity counseling kit
- Q133 Birth Plan

















## Key Points

- Synthesis across data sources was helpful to improve acceptance and validity of findings
  - Gains or declines were larger in interview items than with 3<sup>rd</sup>-party observations of care, but trends similar
- Data synthesis and tools development requires advance planning
- Zambia's National electronic medical record system SmartCare system will help measure service use and health outcomes
- Providers' perspectives are essential understand how intervention is working

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