

Study Design for BKMI

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পরিবার পরিকল্পনা অধিদপ্তর



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স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়



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Challenges of Knowledge Management (KM)



- **A new field propelled by an information super highway**
- **Not amenable to standard methods of evaluation**
- **Lack of theoretical frameworks to guide KM evaluation studies**

How to evaluate impact?

What are KM OUTCOMES?

Initial Outcomes

- Improving policy
- Improving programs
- Improving training
- Strengthening research

Intermediate Outcomes

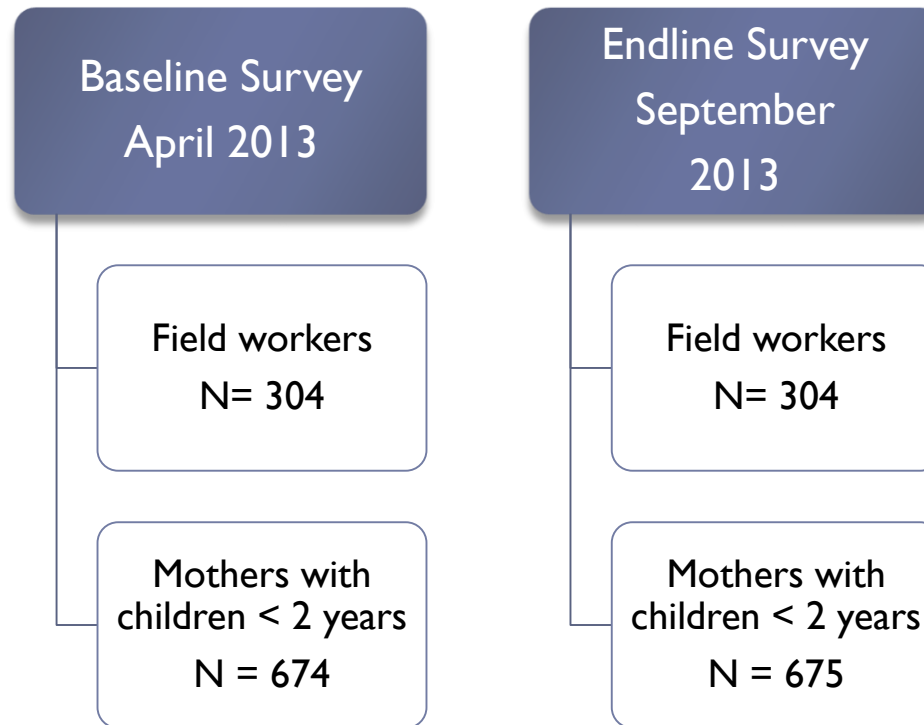
- Strengthening systems
- Access
- Coverage
- Quality
- Behavior of health providers changed

Long term Outcomes

- Improving health outcomes
- Health practices improved

Case Study for Research Design

- ▶ Bangladesh Knowledge Management Initiative (BKMI)
- ▶ eHealth pilot in 2 divisions (Sylhet and Chittagong) with eToolkit and eLearning videos for field workers to use on netbook computers when counseling mothers.



Quasi-experimental Pre-Post Design

Tier I

Field workers



April 2013



Sept 2013

Tier 2

Mothers with < 2 yrs child



April 2013



Sept 2013

Sampling

- ▶ Field workers = purposive sample (panel)
- ▶ Mothers (children < 2 years old) = cross-sectional random probability sample



How did the eHealth Pilot contribute towards improving KM evaluation?

Two tier study design

Probability sampling at the community level

Measured actionable information and one behaviour at the community level

Research Implementation Challenges

- ▶ Problem #1: Research agency did not want to do a systematic random sample
- ▶ Problem #2: More rigor=more work= resistance
- ▶ Problem #3: Monitoring data collection remotely



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Lessons Learned

- ▶ Study design is the most important component for:
 - ▶ Outcomes
 - ▶ Strength of generalizability
 - ▶ Reliability and validity of data
 - ▶ The conclusions you can make
 - ▶ and how you can apply the results to future programs....



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BKMI-II Research Design

Cluster Randomized Control Trial with 3 arms:

Randomization of districts into either Arm I, Arm 2 or Arm 3

Arm 1: eToolkit + IPCC training (2 districts)

Arm 2: eToolkit (2 districts)

Arm 3: Control (2 districts)

