



Do Free Pregnancy Test Kits Increase the Number of Family Planning Clients Supplied by CHWs?

Alison Comfort (Abt Associates), Slavea Chankova (Abt Associates), **Randall Juras (Abt Associates)**, Natasha Hsi (Management Sciences for Health), Lauren Peterson (Abt Associates), and Payal Hathi (Research Institute for Compassionate Economics) Making Impact Evaluation Matter: Better Evidence for Effective Policies and Programmes September 4, 2014



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Outline

Background

- Study methodology
- Results



Background

Modern Family Planning in Madagascar

- In rural Madagascar, community health workers (CHWs) are an important source of FP
 - The most popular FP methods are injectable and oral hormonal contraceptives
 - CHWs sell these contraceptives
- Barriers to selling more hormonal contraceptives:
 - CHW must first rule out pregnancy using a pregnancy checklist, which is viewed as unreliable (Stanback 2013)
 - Must also find opportunities to speak with women about modern FP

The Intervention

- Providing pregnancy test kits to community health workers (CHWs) to distribute for free
 - Pregnancy tests not previously available to CHWs
 - Until recently, too expensive
 - Now much cheaper (~0.22 USD)
 - CHWs also given training on how to use the test kit
- Sales could increase by
 - 1. Improving access: CHWs might use test to complement or replace the pregnancy checklist for women seeking FP
 - 2. Generating interest: women might come to CHW for a pregnancy test, resulting in opportunity to discuss FP

Madagascar: CHW Program



- CHWs recruited in rural areas
 5 kms from nearest health center
- Sell oral and injectable contraceptives (among other products) at a small profit

Often have other employment

The Pregnancy Checklist



Challenges with checklist:

- CHW may not trust a woman's responses
- Some women are categorized as "could be pregnant" but are not

Pregnancy Test Kits

Biomedical measurement

- If CHWs had test kits...
 - Fewer missed opportunities to provide contraceptives to clients who want them
 - May attract women who want to check pregnancy status opportunity for FP counseling



(Cypress Diagnostics hCG Dipstrip)

Summary of Research Agenda

Intervention

Offering free pregnancy test kits to CHWs for distribution to clients, along with training on how to use these tests

CHWs not told to use test to complement checklist

Research Questions

Does the intervention increase:

- 1) The number of new hormonal contraceptive clients that CHWs supply contraceptives to?
- 2) The number of individual FP counseling sessions?

Study Methodology

Study Participants



(CHW holding informational chart)

- All CHWs supported by the Santénet2 project and trained in oral and injectable contraceptives
- Eligible participants: 622 CHWs





Study Design: Randomized Intervention



(Outcome in T group) – (Outcome in C group) = Effect of the intervention

Note: CHWs were randomized at the individual level.

Trainings

Treatment group

- 1. Invited to the training
 - Filled baseline data survey
 - -Trained on reporting forms

2. Trained on pregnancy test kits

3. Given pregnancy test kits to distribute for free

• 50 kits per CHW

Control group

- 1. Invited to the training
 - Filled baseline data survey
 - -Trained on reporting forms

Outcome Data Collection

- Monthly reporting forms filled out by CHWs
 - For 4 months after training
 - Treatment and control CHWs
- Data collected on:
 - Number of FP clients
 - By FP method
 - New versus regular contraceptive users
 - Number of FP counseling sessions
 - Use of pregnancy checklist
 - Number of test kits distributed (Treatment group only)

Baseline: Characteristics of CHWs



Baseline Characteristics	Sample
Age (years)	43
% female	68%
Highest class attained (average)	5 th grade
Number of years worked as CHW	5.5 years
Number of years since training on injectables	3.5 years
Currently uses family planning	70%
Distance to nearest health center (minutes walking)	124 minutes

Baseline: CHWs' Contraceptive Clients

	Number of monthly clients supplied by CHWs	
Injectables	24.0	
Oral contraceptives	13.7	
Condoms/spermicides	0.5	
Standard days methods/cycle beads	0.9	
All contraceptives	39.2	

Reluctance to Use Pregnancy Checklist as Intended

CHW reported that:	% of CHWs
Has used pregnancy checklist	94%
Believes the checklist is "very reliable"	46%
Believes s/he can provide hormonal contraceptives to non-menstruating women	6%
Instructed not to provide hormonal contraceptives to non-menstruating women	91%

Analytical Approach

Using a weighted least squares regression model with month fixed effects, we estimated:

 $y_{idt} = \alpha + \beta \ Treatment_i + \gamma X_i + \tau_t + \delta_d + \varepsilon_{idt}$

for individual *i* in district *d* at time *t*.

Variables	Definitions
у	Number of new hormonal contraceptive clients
Treatment	Dummy variable for whether were offered free pregnancy test kits
X	Vector of CHWs' baseline characteristics
τ	Month fixed effect
δ	District fixed effect
ε	Random error

The study measured the *intent-to-treat* effect, i.e. the impact of <u>offering</u> CHWs the tests and training on how to use them

Results

Question 1:

Does the intervention increase the number of new hormonal contraceptive clients that CHWs supply contraceptives to?

24% Increase in Number of New Hormonal Contraceptive Clients Supplied by CHWs



** indicates that the difference is statistically significant at the 95% level (p<0.05)

Question 2:

Does the intervention increase the number of individual FP counseling sessions conducted by CHWs?

No Significant Effect on Number of FP Sessions

	Treatment group	Control group
Individual FP counselling sessions conducted by CHW per month	17.2	16.0

- The difference is not statistically significant
- Estimate not precise enough to rule this out as a possible mechanism

Limitations of the Study

- Used self-monitoring data
 - Non-response: 62% of total reports submitted
 - Data quality concerns; recommend survey team instead
- Generalizability
 - Estimates valid for Eastern Madagascar
 - Planting season, exhumation period, other public health activities = less time to work as CHW
- Reports of contraceptive stockouts in some districts

Summary of Findings

Offering free pregnancy test kits for CHWs to distribute along with training on their use:

- 1. Increases the number of new hormonal contraceptive clients they supply
- 2. However, we were unable to detect an impact on the number of individual FP sessions

More research on the underlying mechanism is needed
 Impact could be larger if CHWs were trained on using test to complement checklist





Randall_Juras@abtassoc.com Alison_Comfort@abtassoc.com

www.shopsproject.org









Extra slides

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Hypothesized Chain of Causality



Intervention and Evaluation Timeline



Number of Study Participants

