



Designing an m-health intervention to promote post-menstrual regulation contraceptive uptake and continuation in Bangladesh

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Background

Menstrual regulation (MR)

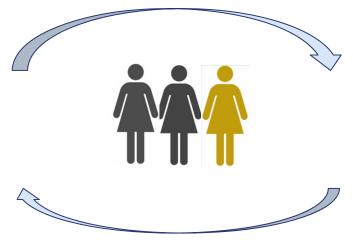
Permitted up to 12 weeks from the last period
Barriers to quality services → high rates of unsafe procedures

Post MR contraceptive uptake

Public sector: 73% day of procedure 80% select short term contraceptive methods

At the Facility Level





Beyond the Facility



Study aims

- 1. To explore the feasibility of using an mhealth intervention to support contraceptive uptake among clinic based menstrual regulation (MR) clients in Bangladesh
- 2. To develop an intervention to support contraceptive uptake among this population



3. To evaluate the effect of the intervention on use of long acting reversible contraceptive (LARC) and any modern method at 4 and 12 months post MR

Study Methods

Feasibility study (lpas 2013)

Methods:

120 MR clients recruited from 4 urban NGO clinics

Allocated at random to control or intervention

Participants interviewed at baseline and 4 months post intervention

Part of a larger survey n=498

Intervention:

Regular, one way SMS/text messages for 4 months post MR

Method specific reminders to use method

Free of charge

Intervention design phase (2015)

Literature review

24 in-depth interviews with MR clients

Development of intervention structure

Development of message content using behaviour change theories

Feasibility study: Findings

Parent study: n=498

√74% of MR clients have mobile phones

Intervention arm: n=60

√ Support for the intervention

76% of participants said they would sign up to intervention again

✓ Demand for call centre counselling

13% called the study number with questions

96% reported interest in a hotline service

?Privacy

96% told their husband about their family planning method

91% told their husband they were participating in study

53% said that someone she did not want to know about the messages found out

93% were satisfied with the confidentiality of the text message reminders

In Depth Interviews: Findings

- ✓ Demand for the intervention
- **✓** Privacy

If a member of family sees this message, will there be any problem? "No, what problem? There will be no problem."

Modality

Demand for call centre support

Preference for voice messages over SMS

"In my opinion, it is better to listen."

Support for interactive messages

Content

Personalised information (about contraceptive methods they're using) Information about other contraceptive methods

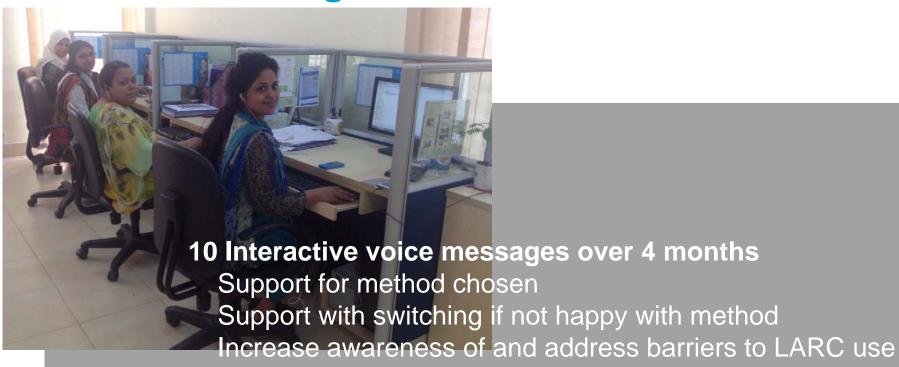
What contraceptive methods can be used?

"I would like to know what methods can I use after MR."

"After MR, what type of method should be used before intercourse?"

Recovery from MR and long term health effects

Intervention design: Structure



Each message will end with the following options:

Press 1 to hear the message again

Press 2 to listen to recorded information about contraception

Press 3 to speak to a counsellor

Press 4 to tell us you are fine

Press 5 to stop receiving these messages Marie Stopes International

Intervention design: Content

Using behaviour change models

COM-B Behaviour Change Wheel (Michie et al) Socio-ecological model, (Panter-brick et al) Transtheoretical modell (Prochaska&Di-Clemente)

		Barriers	Advantages
Capability			
		Can forget to take it	
Opportunity		Can be difficult to access if health worker not available Side effects (weight gain, headache)	Easily and widely available Can stop or start easily Other people can purchase it/supply it If forget one can take two the next day Can be taken in secret Free of cost Can store pills to use for a long time
			People recommend it
Motivation			
	Reflective	Fear of risk of pregnancy Fear of infertility (for newly married and women who have used the pill for a long time)	Can control menstruation Safe Feel comfortable

Select key advantages to reinforce and barriers to address

Fear of infertility
Fear weakness
Can stop and start easily
Free from fear of unwanted pregnancy

Identify relevant behaviour change techniques e.g.

Feedback on behaviour
Persuasion about capability
Instruction on how to perform a behaviour
Support to plan a behaviour

Intervention design: Content

Pill users - Message 3

"Hello! This is your doctor apa speaking. I hope you are well.
Congratulations, contraceptive pill is a method that can be used either for a short time or for many years. Long-time usage lets you save your fertility for the right time: you can stop taking the pill at any time to become pregnant. If you need more information about this or if you want to learn about other methods we are here to help. Press 1...."

Privacy

- ✓ No information or reference to MR in messages
- ✓ Support participation of husband and/or others during recruitment
- ✓ Check for potential problems during recruitment

"What would happen if your husband answered the phone and heard this message?"

"What would happen if your mother in law, other family member or friend answered the phone and heard the message?"



Conclusions

Mhealth offers a possible platform for supporting post–MR contraceptive use in Bangladesh

High mobile phone ownership in target population Demand for information on contraception post MR procedure Strong interest in an intervention expressed

Through the trial we will:

Examine effects on use of LARC and any method at 4 and 12 months Monitor negative or unintended consequences

Undertake a process evaluation





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