







# Drowning prevention for parents with children aged below five years in Bangladesh

<b>Submission date</b> 20/02/2015	<b>Recruitment status</b> No longer recruiting	 Retrospectively registered
<b>Registration date</b> 08/03/2015	<b>Overall study status</b> Completed	 Protocol added
<b>Last Edited</b> 04/04/2023	<b>Condition category</b> Injury, Occupational Diseases, Poisoning	 SAP not yet added
		 Results not yet added and study completed for more than 2 years
		 Raw data not yet added
		 Study completed

## Plain English Summary

### Background and study aims

Drowning is the process of not being able to breathe from being in, or under, a liquid (for example, water). It can result in death, ongoing health problems or a full recovery. Drowning is the 3rd leading cause of death for children aged 1-4 years in many Asian countries. More than 200,000 children drown across Asia every year and 96% of drowning occurs in low and middle income countries. Children under the age of 5 and males are especially at risk of drowning. Risk factors include having access to water, low socio-economic status, lack of education, and lack of parental supervision. In Bangladesh, drowning is the single leading cause of death after infancy. 50% of drowning occurs between ages 0-4 years, 60% of drowning incidents happen during 9am-1pm, 80% drowning cases occur in ponds, ditches, buckets and drums and 80% happen within 20 meters of the house. Children from large families are twice as likely to drown than those from small families. 18225 children drown in Bangladesh every year. Therefore, this study aims to testing the efficacy of a mobile phone app intervention called MOBILE COACH (by sms, images, videos and audios) developed to prevent childhood drowning in Bangladesh.

### Who can participate?

Parents with children aged under the age of 5.

### What does the study involve?

Participants are randomly allocated to an intervention group or control group depending on in which village they reside. Those in the intervention group are given the mobile coach based intervention. Those in the control group are simply assessed during the study period. The mobile coach app is individually tailored, taking into account demographic data. Individual SMS, audio, videos and images about childhood drowning are sent to the participants of the intervention group over a period of 6 months. Participants receive one text message (SMS) and one image per week and one video and audio text per month. All participants are assessed on their knowledge, safety awareness and behavior practice regarding childhood drowning at the start of the study and 6 months later.

What are the possible benefits and risks of participating?

Participants will benefit from understanding childhood drowning or child injuries in Bangladesh, being given information on the number of cases and risk factors of childhood drowning. They should be able to identify the factors that contribute to drowning and know how to prevent and reduce it. There are no possible risks or side effects. Participation in this study is voluntary.

Where is the study run from?

A community centre in Rajshahi, Bangladesh

When is the study starting and how long is it expected to run for?

March 2015 to September 2015

Who is funding the study?

Ministry of Education, Government of the People's Republic of Bangladesh

Who is the main contact?

Mr Md Hossain

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## Contact information

**Type(s)**

Public

**Contact name**

Mr Md Hossain

**ORCID ID**

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0109807282

m\_population@yahoo.com

## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Protocol/serial number**

FPSK(EXP15)010

## Study information

**Scientific Title**

Randomized controlled trial on drowning prevention for parents with children aged below five years in Bangladesh

**Study hypothesis**

Main hypothesis is that the integrated intervention will be more effective and inexpensive way to prevent on childhood drowning among children below aged five years and also increase the parent's awareness of their children from drowning

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

University Putra Malaysia medical research ethics committee, 11/02/2015, ref: UPM / TNCPI / RMC / JKEUPM / 1.4.18.1 / F1

**Study design**

Two-arm cluster randomised community trial

**Primary study design**

Interventional

**Secondary study design**

Cluster randomised trial

**Study setting(s)**

Community

**Study type(s)**

Prevention

**Participant information sheet****Condition**

Drowning

**Interventions**

MOBILE COACH based intervention for childhood drowning prevention

**Intervention Type**

Behavioural

**Primary outcome measure**

Per monthly increase in knowledge, safety awareness and behaviours practice about childhood drowning prevention of the intervention group compared to that of the assessment only control group.

**Secondary outcome measures**

1. Reducing incidence of childhood drowning
2. Self-efficacy for childhood drowning prevention
3. Determine the risk factors for childhood drowning

Will be measured at baseline and after study end

**Overall study start date**

01/03/2015

**Overall study end date**

01/09/2015

## **Eligibility**

**Participant inclusion criteria**

1. Parents with children under 5
2. Children living with parents
3. Must have access to a mobile phone

**Participant type(s)**

Patient

**Age group**

Child

**Upper age limit**

5 Years

**Sex**

Both

**Target number of participants**

1680 parents with children aged under 5

**Total final enrolment**

788

**Participant exclusion criteria**

1. Parents who are not available at the time of data collection
2. Children with a physical disability preventing them from walking

**Recruitment start date**

01/03/2015

**Recruitment end date**

01/09/2015

## **Locations**

**Countries of recruitment**

Bangladesh

**Study participating centre**  
**Community Centre**  
Rajshahi  
Bangladesh  
6505

## Sponsor information

### Organisation

Government of the People's Republic of Bangladesh

### Sponsor details

Building # 6, Floor # 17th & 18th  
Bangladesh Secretariat  
Dhaka  
Bangladesh  
6505  
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### Sponsor type

Government

## Funder(s)

### Funder type

Government

### Funder Name

Ministry of Education, Government of the People's Republic of Bangladesh

### Alternative Name(s)

Ministry of Education, MoE

### Funding Body Type

Government organisation

### Funding Body Subtype

National government

## Location

Bangladesh

## Results and Publications

### Publication and dissemination plan

2020 preprint in <https://doi.org/10.21203/rs.3.rs-39470/v1> (added 15/10/2020)

### Intention to publish date

### Individual participant data (IPD) sharing plan

Not provided at time of registration

### IPD sharing plan summary

Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol article</a>	protocol	11/05/2015		Yes	No
<a href="#">Other publications</a>	SMS Text Messages for Parents for the Prevention of Child Drowning in Bangladesh: Acceptability Study	23/09/2020	04/04/2023	Yes	No