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

Submission date
20/02/2015

Recruitment status
No longer recruiting

Registration date
08/03/2015

Overall study status
Completed

Last Edited
04/04/2023

Condition category
Injury, Occupational Diseases, Poisoning

[_] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[_] Results
[_] Individual participant data
[_] Record updated in last year

Plain English summary of protocol

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, Bangledesh

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

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Additional identifiers

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 objectives
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

Primary study design
Interventional

Study design
Two-arm cluster randomised community trial

Study type(s)
Prevention

Health condition(s) or problem(s) studied
Drowning

Interventions
MOBILE COACH based intervention for childhood drowning prevention

Intervention Type
Behavioural

Primary outcome(s)
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.

Key secondary outcome(s)
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

Completion date
01/09/2015

Eligibility

Key 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

Healthy volunteers allowed
No

Age group
Child

Upper age limit
5 Years

Sex
All

Total final enrolment
788

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

Date of first enrolment
01/03/2015

Date of final enrolment
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

Funder(s)

Funder type
Government

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

Alternative Name(s)
Ministry of Education (Bangladesh), Ministry of Education, MoE

Funding Body Type
Government organisation

Funding Body Subtype
National government

Location
Bangladesh

Results and Publications

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?
Protocol article	protocol	11/05/2015		Yes	No
Other publications	SMS Text Messages for Parents for the Prevention of Child Drowning in Bangladesh: Acceptability Study	23/09/2020	04/04/2023	Yes	No