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Randomised controlled trial of thermostatic mixer valves in reducing bath hot tap water temperature in families with young children in social housing

Submission date
10/08/2006

Recruitment status
No longer recruiting

Registration date
29/01/2007

Overall study status
Completed

Last Edited
31/01/2019

Condition category
Injury, Occupational Diseases, Poisoning

[_] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Dr Denise Kendrick

ORCID ID
https://orcid.org/0000-0003-3603-6542

Contact details
13th Floor, Tower Building
University of Nottingham
Nottingham
United Kingdom
NG7 2RD
+44 (0)115 8466903
denise.kendrick@nottingham.ac.uk

Additional identifiers

Protocol serial number
001/0009

Study information

Scientific Title
Randomised controlled trial of thermostatic mixer valves in reducing bath hot tap water temperature in families with young children in social housing

Study objectives
To assess the effectiveness of Thermostatic Mixer Valves (TMVs) in reducing bath water temperature in the homes of families with children under the age of five years living in rented social housing.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Nottingham Research Ethics Committee 1 opinion given on 15th March 2005 (ref: 05/Q2403/37).

Primary study design
Interventional

Study design
Randomised controlled trial

Study type(s)
Prevention

Health condition(s) or problem(s) studied
Childhood injury prevention: Bath tap water scald prevention

Interventions
The intervention will comprise:
1. Educational leaflet devised by the research team sent to participant prior to installation of TMV.
2. Installation of a TMV valve to the hot and cold water supply to the bath by a qualified plumber. The cost of the intervention will be borne by the social housing provider. The maximum temperature at which this will be set will be 44°C as agreed with the social housing provider.
3. Educational hanger on how to use TMV to be attached to the tap at installation.

The control group receives no intervention or information.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Proportion of families having bath tap hot water at or below 46°C at baseline, three and 12 months.

Key secondary outcome(s)
At 12 months only:

Intervention group:
1. Proportion of valves:
a. that fail or are replaced
b. are unofficially adjusted
2. Acceptability of valves, potentially unsafe practices and adverse events in event of valve failure.

In both groups:
1. Acceptability of bath hot tap water
2. Potentially unsafe practices and actual adverse events

Completion date
29/02/2008

Eligibility

Key inclusion criteria
Families living in rented social housing with at least one child under the age of five years.

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Child

Upper age limit
5 Years

Sex
Not Specified

Key exclusion criteria
1. Participation in on-going tap water scald prevention studies
2. Pipework unsuitable for fitting a TMV

Date of first enrolment
01/03/2005

Date of final enrolment
29/02/2008

Locations

Countries of recruitment

United Kingdom

England

Study participating centre
13th Floor, Tower Building
Nottingham
United Kingdom
NG7 2RD

Sponsor information

Organisation
Department of Health (UK)

ROR
https://ror.org/03sbpja79

Funder(s)

Funder type
Government

Funder Name
Department of Health (UK) (ref: 001/0009)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	16/06/2010		Yes	No
Results article	results protocol	01/08/2011		Yes	No

Protocol article	Study website	19/03/2008		Yes	No
Study website		11/11/2025	11/11/2025	No	Yes