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

Submission date	Recruitment status  No longer recruiting	Prospectively registered		
10/08/2006		[X] Protocol		
Registration date 29/01/2007	Overall study status Completed Condition category	Statistical analysis plan		
		[X] Results		
Last Edited		Individual participant data		
31/01/2019	Injury, Occupational Diseases, Poisoning			

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

Scientific

#### Contact name

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## 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).

## Study design

Randomised controlled trial

## Primary study design

Interventional

## 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	01/08/2011		Yes	No
	protocol				

 Protocol article
 19/03/2008
 Yes
 No

 Study website
 11/11/2025
 11/11/2025
 No
 Yes