

# 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

☐ Prospectively registered

☒ Protocol

**Registration date**

29/01/2007

**Overall study status**

Completed

☐ Statistical analysis plan

☒ Results

**Last Edited**

31/01/2019

**Condition category**

Injury, Occupational Diseases, Poisoning

☐ Individual participant data

**Plain English summary of protocol**

Not provided at time of registration

**Study website**

<http://www.miskin-group.org.uk/tmvs%20project.htm>

## Contact information

**Type(s)**

Scientific

**Contact name**

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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**

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

### **Secondary study design**

Randomised controlled trial

### **Study setting(s)**

Other

### **Study type(s)**

Prevention

### **Participant information sheet**

### **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 measure**

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

### **Secondary outcome measures**

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

### **Overall study start date**

01/03/2005

### **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

### **Age group**

Child

### **Upper age limit**

5 Years

**Sex**

Not Specified

**Target number of participants**

120

**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**

England

United Kingdom

**Study participating centre**

13th Floor, Tower Building

Nottingham

United Kingdom

NG7 2RD

**Sponsor information****Organisation**

Department of Health (UK)

**Sponsor details**

Research and Development Directorate

Richmond House

Whitehall

London

United Kingdom

SW1A 2NL

+44 (0)20 7972 5635

punam.saini@dh.gsi.gov.uk

**Sponsor type**

Government

**Website**

<http://www.dh.gov.uk/Home/fs/en>

**ROR**

<https://ror.org/03sbpja79>

## Funder(s)

**Funder type**

Government

**Funder Name**

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

## Results and Publications

**Publication and dissemination plan**

Not provided at time of registration

**Intention to publish date****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?
<a href="#">Protocol article</a>	protocol	19/03/2008		Yes	No
<a href="#">Results article</a>	results	16/06/2010		Yes	No
<a href="#">Results article</a>	results	01/08/2011		Yes	No