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Randomised controlled trial of nail brushes and nail picks during surgical hand antisepsis to reduce bacteria on hands

Submission date 23/03/2007	**Recruitment status** No longer recruiting	[X] Prospectively registered [_] Protocol [_] Statistical analysis plan [X] Results [_] Individual participant data
Registration date 04/04/2007	**Overall study status** Completed	
Last Edited 05/04/2012	**Condition category** Surgery	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Study information

Scientific Title

Study objectives

To determine if:
1. Using nail picks during surgical hand antisepsis reduces the number of colony forming units (bacteria) on hands
2. Using nail brushes during surgical hand antisepsis reduces the number of colony forming units (bacteria) on hands

Ethics approval required
Old ethics approval format

Ethics approval(s)
Ethics approval pending as of 4th April 2007.

Primary study design
Interventional

Study design
Randomised single blinded trial with one control and two intervention groups

Study type(s)
Prevention

Health condition(s) or problem(s) studied
Surgical hand antisepsis (the surgical scrub)

Interventions
Operating room staff performing the first scrub of the day will be randomised to one of the following three groups:
1. Group one (control): standard hand antisepsis - no nail brush, no nail pick
2. Group two (intervention): standard hand antisepsis - with nail brush
3. Group three (intervention): standard hand antisepsis - with nail pick

Intervention Type
Procedure/Surgery

Phase
Not Specified

Primary outcome(s)
Colony forming units (number of bacteria) on staff hands before and after the intervention (surgical hand antisepsis with or without nail brush or nail pick).

Key secondary outcome(s)
No secondary outcome measures

Completion date
30/01/2008

Eligibility

Key inclusion criteria
1. Operating room nursing staff at University Hospitals of Leicester (UK) who are experienced in performing surgical hand antisepsis (scrubbing)
2. Staff performing their first antisepsis of the day
3. Staff with no cuts to their hands

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
Not Specified

Key exclusion criteria
1. Staff who are allergic to chlorhexidine gluconate (antiseptic solution)
2. Staff wearing hand rings
3. Staff with cuts or abrasions on their hands

Date of first enrolment
01/08/2007

Date of final enrolment
30/01/2008

Locations

Countries of recruitment
United Kingdom

England

Study participating centre
De Montfort University
Leicester
United Kingdom
LE2 1RQ

Sponsor information

Organisation

University Hospitals of Leicester NHS Trust (UK)

ROR
https://ror.org/02fha3693

Funder(s)

Funder type
Research organisation

Funder Name
Association for Perioperative Practice (UK) (ref: 1032 01/07)

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	01/03/2009		Yes	No