ISRCTN06298448 https://doi.org/10.1186/ISRCTN06298448

Does targeted and quantified control of the microbiological environment within the ICU, using staff trained in microfibre cleaning and contamination bioload detection technology, reduce colonisation and healthcare-acquired infection?

Submission date	Recruitment status	[X] Prospectively registered
24/02/2007	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
21/03/2007	Completed	[X] Results
Last Edited	**Condition category**	[_] Individual participant data
01/02/2011	Infections and Infestations	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Dr Peter Wilson

Contact details
Room 231 Windeyer Institute of Medical Sciences
University College London Hospitals
46 Cleveland Street
London
United Kingdom
W1T 4JF
+44 (0)207 380 9516
peter.wilson@uclh.nhs.uk

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
06/Q0502/91; UKCRN5751

Study information

Scientific Title
Microfibre cleaning and contamination bioload detection technology versus standard cleaning in a critical care unit to reduce local contamination rates: a prospective randomised controlled trial

Study objectives
Use of microfibre in a supervised programme of cleaning and decontamination in a critical care unit reduces local contamination rates and new colonisation of patients with Methicillin-resistant Staphylococcus aureus (MRSA) and other hospital pathogens in comparison with standard cleaning.

As of 22/10/2009 details of an observational follow-up study have been added to this record. All details of this follow-up study can be found under the relevant field with the title: 'Follow-up study'.

Follow-up study:
A follow-up observational study was performed in which four different pathways of transmission were assessed in order to inform current Departmental policies for ward cleaning.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Joint UCL/UCLH Committee on the Ethics of Human Research approved on the 9th November 2006 (ref: 06/Q0502/91)

Study design
Prospective randomised controlled cohort study

Primary study design
Observational

Secondary study design
Cohort study

Study setting(s)
Hospital

Study type(s)
Prevention

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied
Hospital-acquired infection

Interventions
A total environmental cleaning system based on microfibre and governed by standard operating procedures designed to achieve microbiological control of the entire near-patient environment.

Follow-up study:
This follow-up study will study intensively the bacterial reservoirs within a critical care and a general ward. In addition the movement of staff from one contact surface to another will be audited together with hand hygiene. Direct observation will be used but entirely anonymised. The project will also address spread of nosocomial pathogens in the environment by cleaning materials and airborne transmission.

Intervention Type
Other

Phase
Not Applicable

Primary outcome measure
Proportion of the pooled results of all environmental swabs taken from bed areas on each day showing a target pathogen, e.g. MRSA

Secondary outcome measures
The rate of new acquisition by patients of MRSA and other target pathogens

Overall study start date
02/04/2007

Completion date
05/04/2008

Eligibility

Key inclusion criteria
All patients admitted to the critical care units of UCLH and Royal Free Hospitals. The critical care units are randomised to microfibre or standard cleaning. There is no patient intervention other than recording any infections developed.

Participant type(s)
Patient

Age group
Other

Sex

Both

Target number of participants
3 intensive care units, 14000 patient days, 4000 patients

Key exclusion criteria
Does not meet inclusion criteria

Date of first enrolment
02/04/2007

Date of final enrolment
05/04/2008

Locations

Countries of recruitment
England

United Kingdom

Study participating centre
Room 231 Windeyer Institute of Medical Sciences
London
United Kingdom
W1T 4JF

Sponsor information

Organisation
National Institute for Health Research (NIHR) (UK)

Sponsor details
PO Box 407
Teddington
United Kingdom
TW11 0XX
+44 (0)20 8943 8990
Joanne.Martin@nihr-ccf.org.uk

Sponsor type
Government

Website
http://www.nihr-ccf.org.uk

ROR
https://ror.org/0187kwz08

Funder(s)

Funder type
Government

Funder Name
National Institute for Health Research (NIHR) (UK) - HCAI Technology Innovation Programme (ref: 0140028)

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?
Results article	results	01/04/2011		Yes	No