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An investigation into clinical reasoning within the context of critical care for cardiorespiratory physiotherapists using SimMan® (Laerdal™)

Submission date 23/06/2010	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [_] Record updated in last year
Registration date 22/06/2011	**Overall study status** Completed	
Last Edited 07/03/2017	**Condition category** Respiratory	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title
An investigation into clinical reasoning within the context of critical care for cardiorespiratory physiotherapists using SimMan® (Laerdal™): a qualitative observational study using a mixed methods approach of video recording, thinking aloud and debrief interviews

Study objectives
The study will identify the clinical decision making process used by expert respiratory physiotherapists in the acute setting.

Ethics approval required
Old ethics approval format

Ethics approval(s)
School of Education Research Ethics Committee (University of Southampton), 21/12/2009

Study design
Qualitative observational study

Primary study design
Observational

Secondary study design
Randomised controlled trial

Study setting(s)
Hospital

Study type(s)
Treatment

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

Health condition(s) or problem(s) studied
Post-operative respiratory complications

Interventions
This is an interpretive observational study using mixed methods of simulation: video, think aloud and debrief interviews.

A patient scenario will be designed and operated through the computerised manikin SimMan® (Laerdal™) at the VIP suite, Building 67, School of Health Sciences University of Southampton. The simulated scenario and environment will be set up to be as realistic as possible. A nurse will be present at the patients bedside and will be able to answer any questions about the patient and his care. The patient's notes and charts will all be available. The individual physiotherapist

will be invited to assess the simulated patient and to form a problem list and treatment plan. This is anticipated to take as long as it would in clinical practise so approximately 20 - 40 minutes duration.

This will be followed by a debrief interview where the participant can view their assessment and can comment about their performance - approximately 20 - 30 minutes.

The data from the video, the think aloud and the debrief interview will be analysed using content analysis to find if there are any common themes between the participants.

Intervention Type
Other

Phase
Not Applicable

Primary outcome measure
1. Create a realistic simulated critical care scenario, using anonymised real patient data. The scenario has been written - pilot study to take place on July 16th, 2010.
2. Observe and record the clinical decision making processes used by expert physiotherapists. First set of data to be collected 26th, 27th, 28th July 2010.
3. Identify the knowledge, skills and behaviour of the decision making process of expert physiotherapists in a simulated critical care environment. This will be interpretive from the three sets of data - video, think aloud and debrief interviews. Measures will be taken to verify the reliability the assessment by the participant in the debrief interview, intra-reliability measures will be taken to ensure that each set of data is categorised in the same way in the content analysis.

Secondary outcome measures
1. Produce a conceptual framework of the clinical decision making used by expert physiotherapists when assessing and treating the critically ill patient. This will be produced when all 10 participants, data has been collated and analysed - September 2012.
2. From the conceptual framework produce an educational strategy for teaching clinical decision making in critical care. At the end of the study - December 2012 - the video clips will be embedded into power point and modified to use the audience response system so as to facilitate clinical reasoning with undergraduate (UG) students.

Overall study start date
26/07/2010

Completion date
26/01/2012

Eligibility

Key inclusion criteria
1. Band 8, band 7, band 6 cardio respiratory physiotherapists working in critical care, intensive care units (ICU) or high dependency units (HDU)
2. At least 3 years clinical experience
3. At least 6 weeks recent experience in adult cardiorespiratory care
4. All participants must be familiar with working out of hours (twilight, on call, weekend rotas)

and be managing independently their own caseload and making their own clinical decisions and willing and able to discuss their clinical decision making
5. Average age between 25 - 45 years, either sex

Participant type(s)
Patient

Age group
Adult

Sex
Both

Target number of participants
10

Key exclusion criteria
1. Physiotherapy students will be excluded as they are not yet working independently in this field
2. Any qualified physiotherapists who have not practised within the last 6 months in adult cardiorespiratory physiotherapy and have less than 3 years experience

Date of first enrolment
26/07/2010

Date of final enrolment
26/01/2012

Locations

Countries of recruitment
England

United Kingdom

Study participating centre
School of Health Sciences
Southampton
United Kingdom
SO17 1BJ

Sponsor information

Organisation
University of Southampton (UK)

Sponsor details
Research Governance Office
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Sponsor type
University/education

Website
http://www.soton.ac.uk/

ROR
https://ror.org/01ryk1543

Funder(s)

Funder type
Research organisation

Funder Name
Physiotherapy Research Foundation (PRF) (UK) (ref: PRF/09/3)

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