

Transfer of urethral catheterization (UC) skills from simulation training to performance on real clinical

Submission date 01/02/2012	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 20/02/2012	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 08/12/2015	Condition category Surgery	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Urethral catheterisation (UC) is a procedure where a flexible tube called a catheter is inserted into a patient's bladder to collect urine. Inexperienced interns are responsible for most complications after UC. Although it is common to train using simulators, little is known about the transfer of learned skills to real clinical practice. The aim of this study is to evaluate the short- and long-term effects of a UC simulated skills training course on performance on real patients and to examine whether watching a video of the procedure immediately before assessment enhances performance.

Who can participate?

Third year students at University of Copenhagen medical school.

What does the study involve?

Participants attend a simulated skills training course covering the essential knowledge and skills needed to perform a UC. An experienced student teacher teaches the students in groups of maximum six. After a theoretical introduction, the major part of the course consists of practical training of UC on a mannequin with feedback from the teacher. After the UC course the students are tested using a mannequin. Their performance is videotaped and assessed afterwards. One to six weeks later, participants are scheduled to perform a UC on a real patient from a urological department. The UC procedure is assessed by direct observation by an experienced urology nurse, who could interrupt if anything potential harmful for the patient was going to happen.

What are the possible benefits and risks of participating?

There were no additional risks for the participants in our study.

When is the study starting and how long is it expected to run for?

May 2010 to March 2011

Where is the study run from?

University of Copenhagen (Denmark)

Who is funding the study?
University of Copenhagen (Denmark)

Who is the main contact?
Prof Charlotte Ringsted
charlotte.ringsted@rh.regionh.dk

Contact information

Type(s)
Scientific

Contact name
Prof Charlotte Ringsted

Contact details
Bomhoffs Have 8, 4. tv.
Copenhagen
Denmark
1872
-
charlotte.ringsted@rh.regionh.dk

Additional identifiers

Protocol serial number
H-1-2010-075

Study information

Scientific Title
Transfer of urethral catheterization (UC) skills from simulation training to performance on real clinical: a randomized controlled trial of the additional effect of video instruction

Study objectives
The aims of the study were to investigate short- and long-term effects of simulated UC skills training on performance on real patients and the effect of watching an instructional video of the UC procedure immediately before the first clinical performance.

Ethics approval required
Old ethics approval format

Ethics approval(s)
The National Committee on Health Research Ethics, Copenhagen, Denmark, 13/08/2012, ref: H-1-2010-075

Study design
Single-centre randomized controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Medical education

Interventions

The participants were randomised to a video group or a control group when they arrived at the hospital for the transfer-test.

The video group watched a five minutes long video instruction of urethral catheterization while the control group did not get any preparation before the test. The video illustrated a physician performing urethral catheterization on a real patient and a voice over to explain the difficult steps.

Intervention Type

Procedure/Surgery

Phase

Not Applicable

Primary outcome(s)

Urethral catheterization performance on patients were assessed using a form with 15 items, each to be scored on a scale of 0-4, where 4 indicated best performance

Key secondary outcome(s)

An overall assessment in the form including five categories: poor, unacceptable, acceptable, good, and excellent performance

Completion date

01/03/2011

Eligibility**Key inclusion criteria**

The participants were a volunteer sample of third year medical students at Copenhagen University. All students were invited by email to participate in the study and were included on a first come, first served principle

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

Students with previous clinical experience in performing UC

Date of first enrolment

01/05/2010

Date of final enrolment

01/03/2011

Locations**Countries of recruitment**

Denmark

Study participating centre

Bomhoffs Have 8, 4. tv.

Copenhagen

Denmark

1872

Sponsor information**Organisation**

University of Copenhagen (Denmark)

ROR

<https://ror.org/035b05819>

Funder(s)**Funder type**

University/education

Funder Name

Københavns Universitet

Alternative Name(s)

University of Copenhagen, Copenhagen University, University of Copenhagen, Denmark, Københavns Uni, UCPH, KU

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Denmark

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	25/02/2013		Yes	No