

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

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

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## 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, Københavns Universitet - University of Copenhagen, University of Copenhagen (UCPH), Copenhagen University, Københavns Universitet – Københavns Universitet, University of Copenhagen (KU), Denmark, Københavns Universitet – University of Copenhagen (UCPH), koebenhavns\_uni, Københavns Uni, University of Copenhagen, KU, UCPH

### 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?
<a href="#">Results article</a>	results	25/02/2013		Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes