Trial Description

Title

Evaluation of the Quality of Basic Life Support (BLS) cardiopulmonary Resuscitation performed by first year residents

Trial Acronym

[---]*

URL of the trial

[---]*

Brief Summary in Lay Language

The primary goal of the study is to objectify the quality of BLS performed by first year residents and the evaluation of their preparedness achieved through medical school do deal with in house emergencies.

First year residents will be asked to enter a patient room and perform cardiopulmonary resucitation for at least 10 minutes on an ALS-simulator representing a patient requiring CPR. During CPR, the data concerning CPR such as thoracic compression rate, pressure point, as well as effectiveness of breathing support will be analized in accordance to current basic life support guidelines. After the CPR scenario, subjects will be asked to complete a questionair to record prior CPR training and self-evaluation of performance during the scenario.

Thus, the goal of CPR and questionaire analization is to objectify the cardiopulmonary resuscitation quality of first year residents. Hypothesis is that first year residents are unable to perform proper CPR and the lack of emergency skill development during medical school attendence is a major cause for this.

Brief Summary in Scientific Language

Current literature does not yield much information concerning the objective evaluation of the preparation of first year residents through medical school for in house medical emergencies. Because these young physicians are prone to be confronted with in house medical emergencies through their often independent medical practise positions, the presented study aims to evaluate BLS quality of first year residents.
Anonymized data of BLS performance will be collected during a simulated medical emergency dealing with a CPR-dependend patient, simulated by an Ambu ALS-Manikin. Additionally, previous medical training with relevance to emergency competence and a self-evaluation of the BLS performance will be analized.
Thus, factors influencing BLS quality are to be identified in addition to BLS relevant parameters, which in turn could lead to the improvement of emergency preparedness in first year residents.

Do you plan to share individual participant data with other researchers?

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[---]*

Description IPD sharing plan

[---]*

Organizational Data

- DRKS-ID: **DRKS00005370**
- Date of Registration in DRKS: **2013/11/19**
- Date of Registration in Partner Registry or other Primary Registry: **[---]***
- Investigator Sponsored/Initiated Trial (IST/IIT): **yes**
- Ethics Approval/Approval of the Ethics Committee: **Approved**
- (leading) Ethics Committee Nr.: **11-289 , Ethik-Kommission der Medizinischen Fakultät der Universität zu Köln**

Secondary IDs

Health condition or Problem studied

- Free text: **Basic life support, cardiopulmonary resuscitation**
- ICD10: **I46.9 - Cardiac arrest, unspecified**

Interventions/Observational Groups

- Arm 1: **First year residents in hospital**
  Cardiopulmonary rescusitation of an ALS simulator manikin followed by a questionaire to record prior CPR education and a self-evaluation of the CPR performance.

Characteristics

- Study Type: **Non-interventional**
- Study Type Non-Interventional: **Other**
- Allocation: **Single arm study**
- Blinding: **[---]***

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Study Type Non-Interventional: **Other**

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Blinding: **[---]***

- Who is blinded: **[---]***
- Control: **Uncontrolled/Single arm**
- Purpose: **Treatment**
- Assignment: **Single (group)**
- Phase: **N/A**
- Off-label use (Zulassungsüberschreitende Anwendung eines Arzneimittels): **N/A**

Primary Outcome

Quality of Basic Life Support measured by recorded parameters of cardiopulmonary resuscitation:
-Minutevolume of ventilation
-Initial Ventilations
-Ventilation rate
-Ventilation volumes
-Gastric ventilation
-Rate of cycles
-Relation of compression to decompression
-Compression depth
-Breaks between compressions
-NoFlow Time
-Wrong hand positioning
-Lack of thoracic decompression
-Relation compressions to ventilation

Secondary Outcome

Questionaire guided evaluation of emergency medicine education in relation to self-evaluated performance

Countries of recruitment

- DE **Germany**

Locations of Recruitment

- Medical Center **Uniklinik Köln, Köln**

Recruitment

- Planned/Actual: **Planned**
- (Anticipated or Actual) Date of First Enrollment: **2013/12/02**
- Target Sample Size: **40**
- Monocenter/Multicenter trial: **Monocenter trial**
- National/International: **National**

Inclusion Criteria

- Gender: **Both, male and female**
- Minimum Age: **20 Years**
- Maximum Age: **40 Years**

Additional Inclusion Criteria

Registred physician in first year of medical practise

Exclusion criteria

more than 12 months of medical practise
Not fit for moderate exercise

Addresses

- **Primary Sponsor**

  Uniklinik KölnKlinik für Anästhesie und Operative Intensivmedizin
  Mr. PD Dr. med. Jochen Hinkelbein
  Kerpener Strasse 62
  50937 Köln
  Germany

  Telephone: **02214786283**
  Fax: **[---]***
  E-mail: **[---]***
  URL: **[---]***

- **Contact for Scientific Queries**

  Uniklinik KölnKlinik für Anästhesiologie und Operative Intensivmedizin
  Mr. Dr. med. David Sander
  Kerpener Strasse 62
  50937 Köln
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50937 Köln
Germany

Telephone: **02214786283**
Fax: **[---]***
E-mail: **david.sander at uk-koeln.de**
URL: **[---]***

- **Contact for Public Queries**

Uniklinik KölnKlinik für Anästhesiologie und Operative Intensivmedizin
Ms. Sharon Isser
Kerpener Strasse 62
50937 Köln
Germany

Telephone: **02214786283**
Fax: **[---]***
E-mail: **sharon.isser at uk-koeln.de**
URL: **[---]***

Sources of Monetary or Material Support

- **Institutional budget, no external funding (budget of sponsor/PI)**

Uniklinik KölnKlinik für Anästhesiologie und Operative Intensivmedizin
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Status

- Recruitment Status: **Recruiting planned**
- Study Closing (LPLV): **[---]***

Trial Publications, Results and other documents

** This entry means the parameter is not applicable or has not been set.*

**** This entry means that data is not displayed due to insufficient data privacy clearing.*