Compression Only CardioPulmonary Resuscitation in telephone assisted bystanders

Submission date	Recruitment status	[X] Prospectively registered
23/01/2011	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
08/02/2011	Completed	Results
Last Edited	Condition category	Individual participant data
08/02/2011	Other	Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Protocol serial number V1.4

Study information

Scientific Title

Compression Only CardioPulmonary Resuscitation CPR (COCPR) in telephone assisted bystanders: is "to push hard as you can", superior in achieving 5 - 6 cm chest compression depth than the current guideline recommendation? A randomised parallel-group simulation study

Acronym

COCPR

Study objectives

Recommending to "push hard as you can" in adult cardiopulmonary resuscitation (CPR) is more effective to reach target depth of 5 - 6 cm.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee of the Medical University of Vienna approved on the 11th January 2011

Study design

Randomised parallel group simulation study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Cardiopulmonary resuscitation

Interventions

The scenario is planned as an out of hospital, telephone assisted, bystander CPR. Substantial information about circumstances (at home, compression only, telephone assisted bystander CPR) is given prior to participant. Outcome is blinded to the participants. After informed consent, participants are guided to a simulation room where the manikin is prepared. Only minimal study staff will have access to the scenario room to avoid distractions. Study staffs assignment is documentation of parameters and not to be involved into bystander CPR. Participants will be staffed with a telephone to call the Emergency Dispatch Center (EDC). In the EDC, a professional emergency dispatcher will be providing verbal prompts via telephone to the bystander. The EMD is randomised to give two different verbal commands: "compress with 5 cm" or "push as hard as you can". The EMD has to open one opaque envelope per call to be randomised in either control or intervention. Therefore study staff are also blinded to allocation of the bystander.

Verbal prompts, given by the EMD, are following the AMPDS protocol V12.0 for control, advising to "push 5 cm".

For the intervention a slightly adopted AMPDS protocol will be advising "push as hard as you can". No other changes will be made onto the protocol.

Another predefined precondition is that all bystanders are denying rescue breaths. Every participant is performing closed-chest compression for 10 minutes on a slightly modified Resusci Anne® Manikin (Laerdal, Norway). Data will be collected using the Laerdal® PC Skill-Reporting System - a software used with the adult size Laerdal® Resusci® Anne SkillReporterTM manikin to collect the subjects' CPR performance.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Chest compression depth, measured continously via the pc skillmeter software of the resusci anne skillmeter

Key secondary outcome(s))

- 1. Quality of ECC defined as number of percent of adequately achieved compression depth, continously assesed via skillmeter pc
- 2. Time to measurable decay in chest compression depth, continously assesed via skillmeter pc
- 3. Frequency of chest compression, continously assesed via skillmeter pc
- 4. Correct recoiling of the manikins chest, continously assesed via skillmeter pc
- 5. Heart rate/systolic blood pressure ratio reflecting physical strain, measured before and immediately after chest compression
- 6. BORG rate of perceived exertion measured at 2nd, 4th, 6th and 10th minute of chest compressions
- 7. Serum lactate changes
- 8. Systolic and diastolic blood pressure
- 9. Nine Hole Peg Test, measured before and immediately after chest compression

Completion date

03/03/2011

Eligibility

Key inclusion criteria

- 1. Voluntary participants, first aid course completed or not
- 2. Informed consent
- 3. Aged greater than 18 years
- 4. Blood pressure less than 150 mmHg before starting CPR

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

- 1. Health care professionals
- 2. Pregnancy
- 3. Blood pressure greater than 150 mmHg (systolic) before CPR simulation

Date of first enrolment

03/03/2011

Date of final enrolment

03/03/2011

Locations

Countries of recruitment

Austria

Study participating centre Department of Emergency Medicine

Vienna Austria 1090

Sponsor information

Organisation

Individual Sponsor (Austria)

Funder(s)

Funder type

Industry

Funder Name

RORACO GmBH (Austria)

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?

Participant information sheet Participant information sheet 11/11/2025 No Yes