PLEASE NOTE: *This trial has been registered retrospectively.*

Trial Description

Title

Comparing Observational Multicentre Prospective Registry Study on Resuscitation

Trial Acronym

COMPRESS

URL of the trial

[---]*

Brief Summary in Lay Language

Mechanical chest compression devices are well established tools for the treatment of out-of-hospital and in-hospital cardiac arrest. The corpuls cpr developed by GS Elektromedizinische Geräte G. Stemple GmbH represents a new generation of mechanical chest compression devices. The COMPRESS study shall observe the usage of the established device. The study examines the chest compression, the ventilation parameters and resuscitation related injuries. The aim of the study is to validate the safety and performance of the device and the safety of its usage for the patient.
Over a time period of three years, routine resuscitation data are collected within several emergency medical services based on the German Resuscitation Registry database for this multicenter observational study.

Brief Summary in Scientific Language

Today mechanical chest compression devices are a well-established alternative to manual chest compressions. They are recommended especially within ongoing cardiopulmonary resuscitation (CPR) during transport or special interventions (e.g. coronary angiography). The corpuls cpr developed by GS Elektromedizinische Geräte G. Stemple GmbH represents a new generation of mechanical chest compression devices. The study examines the chest compression (e.g. no-flow-time, pauses, compression depth, compression frequency), the ventilation parameters and resuscitation related injuries. The aim of the study is to validate the safety and performance of the device and the safety of its usage for the patient.
Over a time period of three years, routine resuscitation data are collected within several emergency medical services based on the German Resuscitation Registry database for this multicenter observational study. Within the study period yearly interim analyses will be performed.

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

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No

Description IPD sharing plan

[---]*

Organizational Data

- DRKS-ID: **DRKS00020819**
- Date of Registration in DRKS: **2020/07/31**
- Date of Registration in Partner Registry or other Primary Registry: **[---]***
- Investigator Sponsored/Initiated Trial (IST/IIT): **no**
- Ethics Approval/Approval of the Ethics Committee: **Approved**
- (leading) Ethics Committee Nr.: **D 422/19 , Ethikkommission der Christian-Albrechts-Universität zu Kiel**

Secondary IDs

Health condition or Problem studied

- ICD10: **I46.9 - Cardiac arrest, unspecified**
- Free text: **Out-of-hospital cardiopulmonary resuscitation**

Interventions/Observational Groups

- Arm 1: **Patients are treated as recommended by the guidelines of the European Rescuscitation Council, but chest compressions are exclusively performed manual.**
- Arm 2: **Patients are treated as recommended by the guidelines of the European Rescuscitation Council, chest compressions are performed at some time with the corpuls cpr**

Characteristics

- Study Type: **Non-interventional**
- Study Type Non-Interventional: **Observational study**
- Allocation: **Other**

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Allocation: **Other**

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

Primary Outcome

24h-survival

Secondary Outcome

30d-survival or hospital discharge

Countries of recruitment

- DE **Germany**

Locations of Recruitment

- other **Rettungsdienst, Aachen**
- other **Rettungsdienst, Göppingen**
- other **Rettungsdienst, Gütersloh**
- other **Rettungsdienst, Dortmund**

Recruitment

- Planned/Actual: **Actual**
- (Anticipated or Actual) Date of First Enrollment: **2020/01/01**
- Target Sample Size: **6600**
- Monocenter/Multicenter trial: **Multicenter trial**
- National/International: **National**

Inclusion Criteria

- Gender: **Both, male and female**
- Minimum Age: **8 Years**
- Maximum Age: **no maximum age**

Additional Inclusion Criteria

out-of-hospital cardiac arrest with resuscitation

Exclusion criteria

traumatic cardiac arrest

Addresses

- **Primary Sponsor**

  GS Elektromedizinische Geräte G. Stemple GmbH
  Hauswiesenstraße 26
  86916 Kaufering
  Germany

  Telephone: **[---]***
  Fax: **[---]***
  E-mail: **[---]***
  URL: **corpuls.world**

- **Contact for Scientific Queries**

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  URL: **www.uksh.de/Notfallmedizin/**

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Sources of Monetary or Material Support

- **Commercial (pharmaceutical industry, medical engineering industry, etc.)**

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86916 Kaufering
Germany

Telephone: **[---]***
Fax: **[---]***
E-mail: **[---]***
URL: **corpuls.world**

Status

- Recruitment Status: **Recruiting ongoing**
- 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.*