Development of a warning system for circulatory instability in critically ill patients

Submission date 27/01/2021	Recruitment status No longer recruiting	Prospectively registered
		☐ Protocol
Registration date 02/02/2021	Overall study status Completed	Statistical analysis plan
		Results
Last Edited	Condition category	Individual participant data
01/02/2021	Signs and Symptoms	Record updated in last year
aim of this study is software algorithm Who can participate	udy Aims ouptut is essential to to to improve short term o with data from pulmor	reat patients with shock in the intensive care unit. The detection of changes in cardiac output by means of a eary artery cathter artery catheter at the University Hospital Bern
What does the stud		nely collected data. No additional study-specific
measures are taken		
What are the possib None	ole benefits and risks of	participating?
Where is the study University Hospital		
When is the study s October 2017 to De	tarting and how long is ecember 2021	it expected to run for?
Who is funding the Edwards Lifescience	_	
Who is the main contact?		

Contact information

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Type(s)Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

2018-00232

Study information

Scientific Title

Pulmonary artery pulse contour analysis in critically ill patients

Study objectives

The primary objective of this analysis is the evaluation of pulmonary artery pulse contour analysis to detect trends in cardiac output and pulmonary artery resistance and elastance. After establishing a routine for pulse contour analysis, respective stroke volumes will be compared with intermittent and continuous cardiac output.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 06/04/2018, Ethics Committee of the Swiss Canton of Bern (Kantonale Ethikkomission für die Forschung, Gesundheits- und Fürsorgerdirekton des Kanton Bern, Murtenstrasse 31, CH-3010 Bern

Switzerland; + 41 31 633 70 70; info.kek.kapa@gef.be.ch), ref: 2018-00232

Study design

Single center observational study

Primary study design

Observational

Study type(s)

Diagnostic

Health condition(s) or problem(s) studied

Shock

Interventions

Patients are eligible for the observational trial when they are monitored in the ICU by a pulmonary artery catheter. Hemodynamic data will be collected in real time for a period of 24 hours in addition to lab and clinical data. No specific interventions relate to the trial. The observation period is 24 hours maximum or until removal of the pulmonary artery catheter.

Intervention Type

Other

Primary outcome(s)

Cardiac stroke volume measured using the pressure trace of the pulmonary artery collected using 24 hour ECG

Key secondary outcome(s))

There are no secondary outcome measures

Completion date

31/12/2021

Eligibility

Key inclusion criteria

Adult patients (age >= 18 years) treated on the participating intensive care unit for shock of any etiology monitored with a pulmonary artery catheter are eligible for inclusion

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Αll

Key exclusion criteria

- 1. Patients/next of kin refusing to provide general consent
- 2. Mother tongue different from available general consent forms
- 3. Known pregnancy or breastfeeding
- 4. Patients institutionalized in correctional facilities
- 5. Patients institutionalized in psychiatric institutions

Date of first enrolment

08/06/2018

Date of final enrolment

21/12/2021

Locations

Countries of recruitment

Switzerland

Study participating centre University Hospital Bern

Department of Intensive Care Medicine Inselspital Freiburgstrasse Bern Switzerland 3010

Sponsor information

Organisation

Edwards Lifesciences (Switzerland)

ROR

https://ror.org/012fexm34

Funder(s)

Funder type

Industry

Funder Name

Edwards Lifesciences

Alternative Name(s)

Edwards, Edwards Lifesciences Corporation, Edwards Lifesciences Corp., Edwards Lifesciences LLC, E, ELC

Funding Body Type

Government organisation

Funding Body Subtype

For-profit companies (industry)

Location

United States of America

Results and Publications

Individual participant data (IPD) sharing plan

The current data sharing plans for this study are unknown and will be available at a later date.

IPD sharing plan summary

Data sharing statement to be made available at a later date