Multivessel versus culprit lesion only percutaneous revascularization in patients with acute myocardial infarction complicated by cardiogenic shock

Fact Sheet

Project Information

CULPRIT-SHOCK
Grant agreement ID: 602202

Funded under
Specific Programme “Cooperation”: Health

Total cost
€ 7 844 658,70

EU contribution
€ 5 999 145,00

Closed project

Start date 1 September 2013
End date 31 August 2018

Coordinated by
UNIVERSITAET zu LUEBECK

Germany

Objective

Cardiogenic shock (CS) complicating acute myocardial infarction (AMI) represents a major European health care concern with mortality rates between 40-70%. Approximately 70-80% of these patients present with multivessel disease defined as coronary lesions in more than one vessel. The clinician is faced with the decision to either 1) intervene only on the culprit lesion acutely responsible for the initiation of cardiogenic shock, or 2) treat additional lesions considered hemodynamically significant but not acutely triggering the CS cascade as well. Current guidelines recommend percutaneous coronary intervention of all critical lesions. However, due to a lack of randomized trials, these recommendations are solely based on registry
data and pathophysiological considerations. Aim of the randomized CULPRIT-SHOCK trial is therefore to compare a) immediate multivessel PCI versus b) culprit lesion only PCI in patients with AMI complicated by CS. A total of 706 CS patients will be randomized in several European countries. The primary endpoint will be 30-day all-cause mortality and/or severe renal failure requiring renal replacement therapy. CULPRIT-SHOCK will therefore determine the optimal percutaneous revascularization strategy in patients with AMI and multivessel disease complicated by CS. In addition, a comprehensive array of efficacy, safety and socio-economic parameters for the chosen population will be assessed. Multiple secondary endpoints and several substudies (microcirculation, biomarkers, angiography) will serve to further understand the presumed differential effects of the 2 treatment arms and to understand the underlying pathophysiology and prognostic markers. From these parameters a multivariable regression model and a risk score for the prediction of clinical prognosis and a cost-effectiveness model in AMI and CS will be developed. Furthermore, CULPRIT-SHOCK will obtain data on CS patients not meeting inclusion criteria by instituting a separate registry.

Fields of science

social sciences  >  sociology  >  demography  >  mortality
medical and health sciences  >  basic medicine  >  physiology  >  pathophysiology

Programme(s)

FP7-HEALTH - Specific Programme "Cooperation": Health

Topic(s)

HEALTH.2013.2.4.2-2 - Comparative effectiveness research of existing technologies for prevention, diagnosis and treatment of cardiovascular diseases

Call for proposal

FP7-HEALTH-2013-INNOVATION-1
See other projects for this call

Funding Scheme

CP-FP - Small or medium-scale focused research project
Coordinator

UNIVERSITAET zu LUBECK

Address
Ratzeburger allee 160
23562 Luebeck
Germany

Region
Schleswig-Holstein > Schleswig-Holstein > Lübeck, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

Administrative Contact
Annette Bender (Mrs.)

Links
Contact the organisation Website

EU contribution
No data

Participants (23)

STIFTUNG INSTITUT FUR HERZINFARKTFORSCHUNG LUDWIGSHAFEN

Germany
EU contribution
€ 1 060 000,00

Address
Bremserstrasse 79
67063 Ludwigshafen

Region
Rheinland-Pfalz > Rheinhessen-Pfalz > Ludwigshafen am Rhein, Kreisfreie Stadt

Activity type
Research Organisations

Administrative Contact
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Links
ACADEMISCH MEDISCH CENTRUM BIJ DE UNIVERSITEIT VAN AMSTERDAM

Netherlands

EU contribution

€ 384,720,00

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Meibergdreef 15
1105AZ Amsterdam

Region

West-Nederland > Noord-Holland > Groot-Amsterdam

Activity type

Higher or Secondary Education Establishments

Administrative Contact

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Links

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VEREIN ZUR FOERDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG AM WILHELMINENSPITAL DER STADT WIEN

Austria

EU contribution

€ 0,00

Address

Montleartstrasse 37
1160 Wien

Activity type

Research Organisations

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Other funding
No data

VIESOJI ISTAIGA VILNIAUS UNIVERSITETO LIGONINE SANTAROS KLINIKOS
Lithuania
EU contribution
€ 41 720,00

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Santariskiu g 2
LT-08661 Vilnius

Region
Lietuva > Sostinės regionas > Vilniaus apskritis

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

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Other funding
No data

ASSISTANCE PUBLIQUE HOPITAUX DE PARIS
France
EU contribution
€ 25 000,00

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55 boulevard diderot
75012 Paris

Region
A.C.T.I.O.N ALLIES IN CARDIOVASCULAR TRIALS INITIATIVES AND ORGANIZED NETWORKS ASSOCIATION

France
EU contribution
€ 511 083,00

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Boulevard de l'hopital 47
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Activity type
Research Organisations

Administrative Contact
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Other funding
No data

UNIVERZITETNI KLINICNI CENTER LJUBLJANA

Slovenia
EU contribution
€ 72 000,00

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Zaloska cesta 002
1000 Ljubljana

Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type
Higher or Secondary Education Establishments

Administrative Contact
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Links
Contact the organisation  Website

Other funding
No data

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NARODOWY INSTYTUT KARDIOLOGII STEFANA KARDYNALA WYSZYNSKIEGO - PANSTWOWY INSTYTUT BADAWCZY

Poland

EU contribution
€ 34 600,00

Address
Ul. alpejska 42
04 628 Warszawa

Region
Makroregion województwo mazowieckie > Warszawski stołeczny > Miasto Warszawa

Activity type
Research Organisations

Administrative Contact
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Links
Contact the organisation  Website

Other funding
No data

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INSELSPITAL-STIFTUNG
Switzerland
EU contribution
€ 17 046,00
Address
Freiburgstrasse 18
3010 Bern
Activity type
Research Organisations
Administrative Contact
Stephan Windecker (Prof.)
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Contact the organisation
Website
Other funding
No data

UPPSALA UNIVERSITET
Sweden
EU contribution
€ 0,00
Address
Von kraemers alle 4
751 05 Uppsala
Region
Östra Sverige > Östra Mellansverige > Uppsala län
Activity type
Higher or Secondary Education Establishments
Administrative Contact
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Other funding
No data
UNIVERSITY OF GLASGOW

United Kingdom

EU contribution

€ 227 045,00

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University avenue
G12 8QQ Glasgow

Region

Scotland > West Central Scotland > Glasgow City

Activity type

Higher or Secondary Education Establishments

Administrative Contact

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Other funding

No data

AZIENDA UNITA SANITARIA LOCALE DI REGGIO EMILIA

Italy

EU contribution

€ 10 000,00

Address

Via amendola 2
42100 Reggio emilia

Region

Nord-Est > Emilia-Romagna > Reggio nell’Emilia

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Administrative Contact

Teresa Coppola (Dr.)

Links

Contact the organisation  Website
Arcispedale Santa Maria Nuova Azienda Ospedaliera

Italy

EU contribution: €0.00

Address: Viale Umberto I 50, 42100 Reggio Emilia

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Administrative Contact: Teresa Coppola (Dr.)

Contact the organisation
Website

Gabo: Mi Gesellschaft Fur Ablauforganisation: Millarium Mbh & Co Kg

Germany

EU contribution: €125,043.00

Address: Oskar von Miller Ring 29, 80333 München

Region: Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative Contact
UNIVERSITAET LEIPZIG

Germany

EU contribution
€ 631 603,00

Address
Ritterstrasse 26
04109 Leipzig

Region
Sachsen > Leipzig > Leipzig

Activity type
Higher or Secondary Education Establishments

Administrative Contact
Joachim Thiery (Prof.)

Other funding
No data

NATIONAL WAITING TIMES CENTRE BOARD

United Kingdom

EU contribution
€ 212 380,00

Address
Beardmore street clydebank
G81 4HX Glasgow

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Administrative Contact
Catherine Sinclair (Dr.)

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Other funding
No data

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HERZZENTRUM LEIPZIG GMBH

Germany
EU contribution
€ 277 100,00

Address
Struempellstrasse 39
04289 Leipzig

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Sachsen > Leipzig > Leipzig

Activity type
Higher or Secondary Education Establishments

Administrative Contact
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Other funding
No data

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AZIENDA OSPEDALIERA DELLA PROVINCIA DI LECCO

Italy
EU contribution
€ 0,00

Address
AZIENDA SOCIO SANITARIA TERRITORIALE DI LECCO

Italy

€ 5,850,00

Address
Via dell’eremo 9/11
23900 Lecco

Region
Nord-Ovest > Lombardia > Lecco

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

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Other funding
No data

UNIVERSITAIR ZIEKENHUIS ANTWERPEN

Belgium

EU contribution

Contact the organisation Website

Other funding
No data
€ 20,000,00

Address
Drie eikenstraat 655
2650 Edegem

Region
Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen

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Other funding
No data

ARTTIC

France
EU contribution
€ 195,645,00

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39 rue des mathurins
75008 Paris

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative Contact
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Other funding
No data

VEREIN ZUR FORDERUNG DER FORSCHUNG AUF DEM GEBIET DER ARTERIOSKLEROSE THROMBOSE UND VASKULAREN BIOLOGIE
Austria

EU contribution

€ 39 960,00

Address

Mariahilfer strasse 49/19
1060 Wien

Activity type

Research Organisations

Administrative Contact

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Links

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Other funding

No data

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INSEL GRUPPE AG

Switzerland

EU contribution

€ 8 000,00

Address

Freiburgstrasse 18
3010 Bern

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

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Website

Other funding

No data

Last update: 25 March 2022