Correlation between the MET-REPAIR questionnaire and the six-minute walk test

Published: 08-11-2017 Last updated: 12-04-2024

The primary objective is to determine to which extent the MET score as estimated by the MET-REPAIR questionnaire correlates to the physical capacity level as measured by the 6MWT.The secondary objective is to determine to which extent the following...

Ethical review	Approved WMO	
Status	Recruitment stopped	
Health condition type	Heart failures	
Study type	Observational non invasive	

Summary

ID

NL-OMON46458

Source ToetsingOnline

Brief title MET-REPAIR walk test study

Condition

• Heart failures

Synonym perioperative cardiac complications

Research involving Human

Sponsors and support

Primary sponsor: Anesthesiologie Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: preoperative exercise capacity, surgical patients

Outcome measures

Primary outcome

Distance walked within 6 minutes in meters (6 minute walk test)

Secondary outcome

NA

Study description

Background summary

Adverse cardiac events are an important complication of noncardiac surgery.A core component to estimate the perioperative cardiac risk is an estimation of the cardiovascular functional capacity expressed as metabolic equivalents (METs). Cardiopulmonary exercise testing provides a good objective measure of the MET score, which in turn is a strong predictor of postoperative outcome. However, for practical reasons METs are usually estimated by self-reported functional capacity. However, in contrast to measured METs, the evidence on estimated METs and outcome after noncardiac surgery is limited and not conclusive.

Therefore, a prospective cohort study is initiated by the European Society of Anesthesiology to study the predictive value of the MET score as estimated by a questionnaire on major adverse cardiovascular events or cardiovascular mortality (MET REPAIR study, NCT03016936).

Regarding this questionnaire, it is important to study to which extent the estimated MET score correlates to the actual measured functional capacity.

Study objective

The primary objective is to determine to which extent the MET score as estimated by the MET-REPAIR questionnaire correlates to the physical capacity level as measured by the 6MWT.

The secondary objective is to determine to which extent the following items from the MET REPAIR questionnaire correlate with the 6MWT:

- Self-reported number of floors that can be climbed without having to stop to rest

- Self-reported rating of cardiorespiratory fitness as compared to the

patients* peersSelf-reported daily/weekly physical activity.

Study design

Prospective cohort study

Study burden and risks

The burden of participation consist of the 6-minute walk test. The risk of this 6 minute walk test is considered minimal. Although there is no direct benefit for individual participants, the potential benefit for assessing perioperative cardiac risk in non-cardiac surgery for future patients is considerable.

Contacts

Public

Selecteer

Heidelberglaan 100 Utrecht 3584CX NL Scientific Selecteer

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Noncardiac surgical patients at high risk of perioperative cardiac complications, defined by: - 45 years of age or older and Revised Cardiac Risk Index * 2, OR - aged *65 years and undergoing intermediate or high-risk procedures

Participation in MET-REPAIR study (NCT03016936)

Exclusion criteria

- * Non-elective surgery
- * Acute coronary syndrome or uncontrolled congestive heart failure within the last 30 days
- * Stroke within the last 7 days of planned day of surgery
- * Patients unable to perform ambulation
- * Minors or legally incompetent subjects
- * Patients unable or unwilling to participate
- * Previous enrollment in this study (in case of repeated surgery within duration of the study)

Study design

Design

Study type: Observational non invasive		
Masking:	Open (masking not used)	
Control:	Uncontrolled	
Primary purpose:	Other	

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	27-11-2017
Enrollment:	70
Туре:	Actual

Ethics review

Approved WMO

Date:	08-11-2017
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Utrecht (Utrecht)
Approved WMO Date:	01-02-2018
Application type:	Amendment
Review commission:	METC Universitair Medisch Centrum Utrecht (Utrecht)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
ССМО	NL63436.041.17

Study results

Date completed:	09-03-2018
Actual enrolment:	70