Myoclonus after Cardiopulmonary Resuscitation

Published: 29-11-2011 Last updated: 30-04-2024

The aim of this study is to investigate the interobserver variation in assessment of acute posthypoxische myoclonus in patients after cardiopulmonary resuscitation.

Ethical review	Approved WMO
Status	Will not start
Health condition type	Seizures (incl subtypes)
Study type	Observational non invasive

Summary

ID

NL-OMON37677

Source ToetsingOnline

Brief title MYCARE

Condition

• Seizures (incl subtypes)

Synonym

involuntary muscle contractions, Muscle jerks

Research involving

Human

Sponsors and support

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

Intervention

Keyword: coma, myoclonus, Resuscitation

Outcome measures

Primary outcome

Intraclass correlation coefficient in assessing acute posthypoxic myoclonus in

patients after cardiopulmonary resuscitation.

Secondary outcome

Investigate characteristics of clinical neurophysiological investigations

(electroencephalography (EEG) and somatosensory evoked potentials (SEP)) in

patients with acute posthypoxic myoclonus after cardiopulmonary resuscitation.

Study description

Background summary

Acute posthypoxic myoclonus consists of a spectrum that ranges from focal myoclonus to status myoclonus. It occurs in 19-37 % of the patients admitted to the intensive care unit after cardiopulmonary resuscitation. The diagnosis of acute posthypoxic myoclonus is based on clinical observation and can largely contribute to treatment decisions. However, interobserver agreement of this clinical observation is unknown.

Study objective

The aim of this study is to investigate the interobserver variation in assessment of acute posthypoxische myoclonus in patients after cardiopulmonary resuscitation.

Study design

An international multicenter prospective cohort study will be performed at the intensive care unit.

Study burden and risks

Video registrations of the patient will be performed once or twice, depending on the administration of drugs. Standard clinical neurologic examination is part of the video protocol. Each video-registration will last 15-30 minutes. Thirty days after cardiopulmonary resuscitation a telephone interview (5-10 minutes) with the patient or his/her legal representative will be performed to evaluate the neurological outcome according to the Cerebral Performance Category-score. The neurological examination performed during the video registration is part of every day clinical practice. Therefore, the risk associated with participation can be considered negligible and the burden is minimal.

Contacts

Public Academisch Medisch Centrum

Meibergdreef 9 Amsterdam 1105 AZ NL **Scientific** Academisch Medisch Centrum

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

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

Inclusion criteria

Admission after CPR (cardiac or hypoxic arrest) Acute posthypoxic myoclonus within 72 hours after admission

Exclusion criteria

Age < 18 years Presence of myoclonus before CPR Traumatic cause of CPR (hypovolemic arrest) Severe traumatic brain injury Medical history of epilepsy / Epilepsy syndromes in which myoclonus is prominent and in which patients can develop myoclonus status epilepticus such as juvenile myoclonic epilepsy and progressive myoclonic epilepsies Possible explanations for seizures or myoclonus other than the anoxic-ischemic event Generalized tonic-clonic seizure(s) as cause of the myoclonus Drug overdose

Study design

Design

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

Recruitment

NL	
Recruitment status:	Will not start
Enrollment:	40
Туре:	Anticipated

Ethics review

Approved WMO	
Date:	29-11-2011
Application type:	First submission
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	24-10-2012

Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO Date:	29-10-2012
Application type:	Amendment
Review commission:	METC Amsterdam UMC

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 CCMO ID NL38396.018.11