Problems of the Autonomic Nervous system in the Intensive Care

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To investigate the relation between different autonomic function tests in critically ill patients.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Ancillary infectious topics
Study type	Observational non invasive

Summary

ID

NL-OMON34547

Source
ToetsingOnline

Brief title
PANIC study

Condition

- Ancillary infectious topics
- Peripheral neuropathies

Synonym
Multipel organ dysfunction syndrome

Research involving
Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: Center for Translation Molecular Medicine

Intervention

Keyword: autonomic dysfunction, critical illness, multiple organ dysfunction syndrome

Outcome measures

Primary outcome

1) Correlation between the heart rate variability, cold face test and skin

wrinkle test results using Spearman*s rho

Secondary outcome

1) Timeline of changes in autonomic nervous system parameters in relation to

organ failure

2) Correlation between different autonomic nervous system parameters like heart

rate variability, the cold face test and the skin wrinkle test in different

groups of critically ill patients

Study description

Background summary

Autonomic nervous dysfunction is frequent in patients with multiple organ dysfunction syndrome (MODS) and is associated with increased mortality. The autonomic nervous system plays in important part in non-linear systems of the body maintaining homeostasis by supplying organ to organ communication and modulation.

Study objective

To investigate the relation between different autonomic function tests in critically ill patients.

Study design

Prospective observational cohort pilot study

Study burden and risks

The role of autonomic function in patients with MODS can only be investigated in the intensive care. For this study the autonomic nervous function is

assessed with tests that, with proper safety requirements, pose no to a negligible risk to the patient. Though the patients under study will not benefit from this study, the results of this study can ultimately lead to better understanding and treatment of MODS.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

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

Inclusion criteria

expected >3 days on mechanical ventilation

Exclusion criteria

Stroke as reason for admission, quadriplegia due to spinal cord disorder, neuromuscular disorder as reason for admission, patients with documented polyneuropathy or autonomic neuropathy in medical history

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	28-02-2011
Enrollment:	50
Type:	Actual

Ethics review

Approved WMO

Application type:	First submission
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	ID
CCMO	NL34849.018.10