Peripheral Flow Index for detection of postoperative pain on the PACU

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON20320

Source
Nationaal Trial Register

Health condition

Acute postoperative pain

Pain prediction

PACU

Peripheral Flow Index

Sponsors and support

Primary sponsor: Department of Anesthesiology
OLVG, Amsterdam
Source(s) of monetary or material Support: Departmental

Intervention

Outcome measures

Primary outcome

Correlation between NRS measurements and PFI measurements

Secondary outcome

not applicable

Study description

Background summary

Prospective observational study; The Numeric Rating Scale (NRS) is a generally accepted tool to asses pain at the PACU. The tool is subjected to critism for several reasons. How reliable is the VAS when patients are recovering from general anaesthesia or sedation? Acute postoperative pain results in to peripheral vasoconstriction resulting into a direct and sharp decline of the peripheral blood flow. Blood flow can be detected by the peripheral flow index (PFI). PFI is the index of the pulsatile blood component and the static component and is a measured by the pulse oximeter. Study patients are not subjected to experimental therapies and the monitoring of the PFI is already standard clinical practice at the PACU.

Study objective

A correlation exists between the Numeric Rating Scale (NRS) and the Peripheral Flow Index (PFI). The PFI can be applied to objectify and predict postoperative painintensity during recovery on the PACU.

Study design

not applicable

Intervention

not applicable

Contacts

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Eligibility criteria

Inclusion criteria

Elective surgery

18 - 65 years old

ASA I - III

postoperative NRS score > 4

Exclusion criteria

Peripheral vascular disease

ASA >III

Raynauld's syndrome

Buerger's disease

Diabetes Mellitus with peripheral neuropathy

Preoperative use of opioids and/or Beta blocker

Emergency surgery

>500 ml blood loss during surgery

Postoperative core temperature <36 degrees Celcius

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Masking:	Open (masking not used)

Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-09-2017
Enrollment:	47
Type:	Anticipated

Ethics review

Positive opinion

Date:	19-10-2017
Application type:	First submission

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
NTR-new	NL6587
NTR-old	NTR6761
Other	OLVG te Amsterdam : WO17.101

Study results