Traditional dorsal digital block compared with volar block in injuries to the finger

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The objective of this study is to compare two different anesthetic techniques in patients with an injury to the finger which requires anesthesia: traditional dorsal digital block and volar block. Primary objectives:- What is the difference in...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Administration site reactions
Study type	Observational non invasive

Summary

ID

NL-OMON44765

Source
ToetsingOnline

Brief title
Traditional dorsal digital block compared with volar block

Condition

- Administration site reactions

Synonym
anesthesia in injury on the finger, insensibilty in injury on the finger

Research involving
Human

Sponsors and support

Primary sponsor: St. Elisabeth-Tweesteden Ziekenhuis
Source(s) of monetary or material Support: niet van toepassing

Intervention

Keyword: Dorsal block, Phalanx, Regional anesthesia, Volar block

Outcome measures

Primary outcome

The primary study outcomes are:

- Subjective pain score (VAS-score)

- Degree of anesthesia in the finger

Secondary outcome

The secondary study outcomes are:

- Complication rate

- Satisfaction among clinicians

Study description

Background summary

Injury of the finger is a common complaint in the Emergency Derpartment. Frequently, patients need regional anesthesia of the finger to perform wound care. The traditional dorsal digital block is used for many years. However, this injection may be uncomfortable or even painfull for the patient. Recently, a newer technique had been given more prominence: the volar block. In our hospital this technique is allready routinely used by clinicians on the Emergency Department.

Study objective

The objective of this study is to compare two different anesthetic techniques in patients with an injury to the finger which requires anesthesia: traditional dorsal digital block and volar block.

Primary objectives:
- What is the difference in subjective pain score (VAS-score) in patients undergoing a traditional dorsal digital block versus a volar block?
- What is the degree of anesthesia in the finger after a traditional dorsal digital block versus a volar block?

Secondary objectives:
- Which complications occur in both techniques?
- How is the satisfaction of both techniques among clinicians?

Study design

A prospective, randomized, multicenter trial

Study burden and risks

In common practice, both techniques are allready routinely used in the Emergency Department. In this study, we want to investigate the difference between both techniques, without additional intervention. Patients have to answer one extra question of subjective pain score. This will take less than a minute. Patient do not have any extra risks in participation of this study, in comparison with the current practice.

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

- Patients with an injury of the finger who present on the Emergency Department of the St. Elisabeth-Tweesteden Hospital or Jeroen Bosch Hospital
- Indication for regionale anesthesia is made
- Age * 18 years

Exclusion criteria

- Injuries on the dorsal side of the proximal phalanx
- Distracting injury
- Preexistent sensory disturbances or dysthropy
- Treatment on the ER is not possible due to the size or complexity of the injury
- Patient is not capable of specify a valid painscore, because of cognitive impairment or intoxication
- Patient with injury on two adjacant fingers
- Language barrier or other impossibility to obtain informed consent

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Primary purpose:	Treatment

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	03-07-2015
Enrollment:	400
Type:	Actual

Ethics review

Approved WMO

Date:	15-06-2015
Application type:	First submission
Review commission:	METC Brabant (Tilburg)

Approved WMO

Date:	11-02-2016
Application type:	Amendment
Review commission:	METC Brabant (Tilburg)

Approved WMO

Date:	25-01-2017
Application type:	Amendment
Review commission:	METC Brabant (Tilburg)

Approved WMO

Date:	02-05-2017
Application type:	Amendment
Review commission:	METC Brabant (Tilburg)

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	NL49771.028.15

Study results

Date completed: 11-08-2017

Actual enrolment: 409

Summary results
Trial is onging in other countries