Evaluation of a new vessel imaging system to support venous cannulation in children prior to elective, non-cardiac surgery.

Gepubliceerd: 08-04-2010 Laatst bijgewerkt: 18-08-2022

To evaluate the usefulness of the VascuLuminator in children that are obtaining a venous cannulation prior to elective non-cardiac surgery.

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON24014

Bron
NTR

Aandoening

Vessel visualization, Venipuncture, VascuLuminator, infrared, Venous cannulation, infrarood, bloedvaten, veneus infuus

Ondersteuning

Primaire sponsor: University Medical Center Utrecht (UMCU)
Overige ondersteuning: ZON-MW, The Netherlands Organization for Health Research and Development

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The main study parameter is the percentage of procedures in which more than one puncture is required for successful venous cannulation (i.e. failure rate).

Toelichting onderzoek

Achtergrond van het onderzoek

A system (the VascuLuminator) was developed by our department of Medical Technology and Clinical Physics, that is able to visualize vessels underneath the skin. In this study, we test the effectivity of this system as an aid in venous cannulation in children prior to elective, non-cardiac surgery, by measuring number of punctures and duration of the procedure. The study takes place in the Netherlands.

Doel van het onderzoek

To evaluate the usefulness of the VascuLuminator in children that are obtaining a venous cannulation prior to elective non-cardiac surgery.

Onderzoeksopzet

Measurements are made by self-report. There is no follow-up of patients required.

Onderzoeksproduct en/of interventie

The VascuLuminator is the investigational product in this study. It is able to non-invasively visualize blood vessels by means of near-infrared light.

The intervention consists of the use of the device by the pediatric anesthetist or anesthetic nurse during the puncture. There will be no extra intervention on the patient, since the patient already is obtaining a puncture as part of their normal treatment.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

All consecutive patients aged less than 18 years, undergoing elective, non-cardiac surgery, will be included in the present trial.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

N/A

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Open / niet geblindeerd
Controle:	Geneesmiddel

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-05-2010
Aantal proefpersonen:	400
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	08-04-2010
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL2153
NTR-old	NTR2277
Ander register	METC UMC Utrecht : 09-312/C
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten
N/A