A randomised controlled trial of a continuous butylscopolamine infusion versus a placebo infusion in patients with a renal colic not responding to oral NSAIDs

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Null hypothesis: placebo is non-inferior to continuous intravenous infusion with buscopan in terms of amount of escape medication used in patients admitted for renal colic.

Ethische beoordeling Positief advies **Status** Werving gestart

Type aandoening -

Onderzoekstype Interventie onderzoek

Samenvatting

ID

NL-OMON29114

Bron NTR

Verkorte titel

Buscopan

Aandoening

Urolithiasis

Ondersteuning

Primaire sponsor: Haga teaching hospital

Overige ondersteuning: None

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary outcome in this study is the amount of escape medication used during the 24hour

period of observation, measured in units.

Toelichting onderzoek

Achtergrond van het onderzoek

Rationale: A renal colic is an excruciating pain, which is often difficult to control. Tailored analgesia in

patients not responding to oral Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) is a therapeutic

challenge. There is a variety of analgesic regimes worldwide. In the Netherlands these patients are

admitted to the hospital and are traditionally treated with a continuous perfusion of butylscopolamine. However, recently, the Dutch Association of Urology together with patient organisations produced a document on clinical knowledge gaps relevant for the daily urological

practice. One of the knowledge gaps formulated was the lack of scientific evidence for the effiency of

butylscopolamine in renal colics. The Netherlands is one of few countries where butylscopolamine is

widely used empirically to reduce renal colics.

Objective The purpose of this study is to prove that treatment with placebo intravenously is noninferior

to treatment with butylscopolamine in a continuous intravenous infusion when treating patients with renal colics not responding to oral NSAIDs.

Study design: A double blind placebo controlled, multicenter, randomised controlled clinical trial

Study population: The patient population consists of adults presenting with a renal colic, diagnosed

by ultrasound or CT-scan, not responding to oral NSAIDs and therefore admitted to the urological

ward for pain medication.

Intervention: Patients are randomized in one of two study-arms. They will receive either butylscopolamine in a continuous infusion or saline in a continuous infusion. Both groups have the

availability of piritramide injections as escape medication aiming for a score of 0 on NRS scale.

Main study parameters/endpoints: The primary endpoint is the amount of escape medication

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during

the 24-hour period of observation in units.

The secondary endpoints are pain reduction in Numerice Rating Scale score (NRS score), the side

effects of the different medications, rate of interventions and time until last need for escape medication.

Nature and extent of the burden and risks associated with participation, benefit and group relatedness: Patients have to fill in a NRS score and a questionnaire about the side effects 5 times.

They will all have the possibility to use escape medication and will therefore be treated adequately

for their pain. The main risk is the possible need for more escape medication and the associated side

effects. All medications used are already registered and clinically widely used for this indication.

Doel van het onderzoek

Null hypothesis: placebo is non-inferior to continuous intravenous infusion with buscopan in terms of

amount of escape medication used in patients admitted for renal colic.

Onderzoeksopzet

24 hours

Onderzoeksproduct en/of interventie

At the start all patients wil receive 1000 mg paracetamol 4 times daily and 50 mg Diclofenac 3 times

daily if they haven't taken or received these earlier. Group A will be given butylscopolamine 100 mg

in 24 hours via an intravenous continuous infusion. Group B will receive saline in 24 hours via an

intravenous continuous infusion.

NRS scores are documented at at 0 hours, 1 hours, 4 hours, 8 hours and 24 hours. Escape medication

is used to maintain adequate pain relief. A pain score below 4 is accepted as adequate pain management. After 24 hours, the study period ends and giving standard of care is continued.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Legally capable and competent to understand the implications of participation in the study and signed informed consent

Age 18 years or older

Presentation with renal colic confirmed by ultrasound or CT-scan, not responding to oral NSAIDs and therefore admitted to the urological ward for pain medication.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Pregnancy or lactation
- Known allergy to any of the products used
- Contra-indication for NSAIDs
- Diagnosis other than renal colic
- Patients presenting with a temperature > 38.5°C at time of inclusion or <24 hours ago
- Patients with antibiotic for UTI together with urolithiasis or urolithiasis with indication for drainage of the upper urinary tract
- Any of the following conditions:
- Megacolon
- Intestinal mechanical stenoses
- Myasthenia gravis
- Untreated narrow angle glaucoma
- Epilepsy

- Alcohol or drugs intoxication
- Creatinin clearance < 30 ml/min
- Atrial fibrillation with heart rate > 100/min
- Ischemic heart disease
- Heart failure
- Severe aortic valve stenosis

Onderzoeksopzet

Opzet

Type: Interventie onderzoek

Onderzoeksmodel: Parallel

Toewijzing: Gerandomiseerd

Blindering: Dubbelblind

Controle: Placebo

Deelname

Nederland

Status: Werving gestart

(Verwachte) startdatum: 13-01-2018

Aantal proefpersonen: 128

Type: Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Ja

Ethische beoordeling

Positief advies

Datum: 21-06-2019

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 NL7819

Ander register METC Leiden/The Hague : METC-nummer 17-081

Resultaten