Epidemiology of Postoperative Pain

Gepubliceerd: 12-10-2017 Laatst bijgewerkt: 13-12-2022

1) Epidemiology of postoperative pain What is the correlation between pain intensity scores and type of surgical procedure in relation to patient characteristics and analgesia? Is it possible to specify surgical procedures indicating its pain...

Ethische beoordeling	Niet van toepassing
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON20021

Bron Nationaal Trial Register

Aandoening

Postoperative Pain Pain Management Anaesthesia Surgery

Ondersteuning

Primaire sponsor: OLVG Hospital Oosterpark 9 1091 AC Amsterdam The Netherlands Attention: prof. dr. M.A.A.J. van den Bosch Overige ondersteuning: Departmental funding

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1) Epidemiology of postoperative pain

To establish the epidemiology of postoperative pain versus surgical procedures and type of analgesia; pain scores vs. different procedures, location surgery, patient characteristics and combinations of aforementioned. To be able to identify procedures and patients with a high risk of severe postoperative pain and to be able tot identify surgical indicator procedures that can be used as a correction model for differences in surgical case mix between hospitals.
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2) Risk and prediction

To Identify patient- and surgical procedure characteristics correlating with severe postoperative pain

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3) Best practice advice

Drafting a best practice advise for procedure specific postoperative pain treatment.

Toelichting onderzoek

Achtergrond van het onderzoek

Introduction:

Pain intensity registration after surgery remains a major challenge due to poor compliance and outdated unidimensional assessment using VAS or NRS. No study has yet explored the epidemiology and quality of pain registration following many types of surgery in everyday day clinical practice amongst different Dutch general and academic hospitals. We want to conduct a retrospective observational study using patient data from 5 different hospitals with OLVG as primairy centre. The goal is to improve postoperative pain management, predict severe postoperative pain and develop procedure specific, optimized pain-treatment protocols with automated reminders and decision support build in PDMS. Futhermore to identify standardized surgical indicator procedures that can be used as a correction model for differences in surgical case mix between hospitals.

Objectives:

1) Epidemiology of postoperative pain

Primary Objective: To establish the epidemiology of postoperative pain versus surgical procedures and type of analgesia; pain scores vs. different procedures, location surgery, patient characteristics and combinations of aforementioned. To be able to identify procedures and patients with a high risk of severe postoperative pain and to be able to identify surgical indicator procedures that can be used as a correction model for differences

in surgical case mix between hospitals.

Secondary Objective: To provide a ranking of surgical procedures in relationship to severe postoperative pain, administered analgesics and locoregional techniques.

Secondary objective: To identify indicator surgical procedures with high risk of postoperative pain

Secondary objective: To determine the quality and quantity of VAS and NRS registration for post operative pain intensity measurement

2) Risk and prediction

Primary Objective: To Identify patient- and surgical procedure characteristics correlating with severe postoperative pain

Secondary Objective: To design a model predicting postoperative and form the basis of a decision support application customizing pain treatment for specific groups of patients and to the individual patient's needs.

3) Best practice advice

Primary Objective: Drafting a best practice advise for procedure specific postoperative pain treatment.

Secondary Objective: build an algorithm advising for the best (procedure specific) post operative pain treatment build in the PDMS or an independent application to tailor pain treatment to the patients needs and facilitate early intervention.

Study Population:

All adult non-cardiac non-day care surgical patients who had surgery between October 1st 2015 and April 1st 2017 in OLVG, AMC, UMCU, WFG and LUMC. We estimate that between 80,000 and 120,000 patient files will be eligible for data analysis.

Inclusion: patients aged 18y or older, elective non day care surgery and surgical emergency procedures with an admission of at least 24hr

Exclusion: Day care surgery, palliative surgery, re-do surgical procedures, repeated surgery within the same hospital stay or 72 hours after the first surgery. Sequential surgeries during the same stay, rare surgical procedures performed less than 5 times a year.

Methods:

Research data will be collected by querying the patient data management system of each hospital for the period between October 1st 2015 and April 1st 2017– by an information specialist. Information on pain management protocols will be obtained by checking site specific protocol data warehouse.

Data analysis will be carried out in 3 phases. Phase 1: evaluating the epidemiology of postoperative pain. Phase 2: identifying risk factors for severe postoperative pain and building a prediction model. Phase 3: comparing pain intensity scores in relation tot administered analgesic and pain protocols amongst the participating hospitals for a best practice recommendation.

Doel van het onderzoek

1) Epidemiology of postoperative pain

What is the correlation between pain intensity scores and type of surgical procedure in relation to patient characteristics and analgesia? Is it possible to specify surgical procedures indicating its pain intensity ranking from severe to no pain using pain intensity data from PDMS up to 72 hr in relationship with the type of postoperative analgesia technique and variation in surgical case mix amongst the cooperating hospitals?

2) Risk and prediction

Which patient characteristics and surgical procedures are predictors for severe postoperative pain? Is it possible to develop a postoperative pain prediction rule?

3) Best practice advice

Is it possible to compose a best practice advice for (procedure specific) treatment of post operative pain based on the epidemiology of postoperative pain in relation to postoperative analgesia technique using data from different hospitals?

Onderzoeksopzet

Start study: October 1st 2017

End study: March 1st 2018

Onderzoeksproduct en/of interventie

not applicable

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Patients aged 18y or older, elective non day care surgery and surgical emergency procedures with an admission of at least 24hr

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Day care surgery, palliative surgery, , repeated surgery within the same hospital stay or 72 hours after the first surgery. rare surgical procedures performed less than 5 times a year.

Onderzoeksopzet

Opzet

Туре:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-10-2015
Aantal proefpersonen:	120000
Туре:	Verwachte startdatum

Ethische beoordeling

Niet van toepassing Soort:

Niet van toepassing

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 NTR-new NTR-old Ander register ID NL7030 NTR7235 OLVG : W017.051

Resultaten