# Prospective, randomised, double-blinded clinical trial on remiferatanil for analgesia and sedation of ventilated neonates and infants

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>
15/11/2006	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
03/01/2007	Completed	[X] Results
Last Edited	Condition category	[] Individual participant data
10/04/2019	Signs and Symptoms	

# Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

Prof Bernhard Roth

#### Contact details

Clinic for Paediatrics University of Cologne Kerpener Str. 62 Cologne Germany 50937

# Additional identifiers

ClinicalTrials.gov (NCT) NCT00419601

Protocol serial number KKSK-251

# Study information

#### Scientific Title

Prospective, randomised, double-blinded clinical trial on remifentanil for analgesia and sedation of ventilated neonates and infants

#### Acronym

**RAPIP** 

#### **Study objectives**

It shall be investigated whether ventilated neonates and infants with a remifentanil based analgesia and sedation can be extubated faster after discontinuation of the opioid infusion compared to neonates and infants with a fentanyl based analgesia and sedation.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Ethics approval received from the Ethics Committee of the Medical Faculty of the University of Cologne on the 18 August 2006 (ref. no.: 06-053).

#### Study design

Randomised, controlled, double-blind, two-armed parallel group trial.

#### Primary study design

Interventional

## Study type(s)

Treatment

## Health condition(s) or problem(s) studied

Analgesia/sedation

#### **Interventions**

Test group:

Permanent remifentanil infusion with a primary dose of 9 microgram/kg/h titrated to the individual need of the test person up to a maximum dose of 30 microgram/kg/h.

## Comparison group:

Permanent fentanyl infusion with a primary dose of 3 microgram/kg/h titrated to the individual need of the test person up to a maximum dose of 10 microgram/kg/h.

The maximum duration of infusion of the test substance is 96 hours. Sedation may be continued if necessary using fentanyl.

Please note that as of 04/05/10 this record has been updated. The duration of this trial extended from 17/08/08 and was completed on 11/04/10. The original target number of participants was 20.

## Intervention Type

Drug

#### Phase

## Drug/device/biological/vaccine name(s)

Remifentanil, fentanyl

#### Primary outcome(s)

Shortening of the artificial ventilation after discontinuation of the opioid infusion.

#### Key secondary outcome(s))

- 1. Documentation of the efficacy and safety of a remifentanil based analgesia and sedation of ventilated newborns and infants
- 2. Documentation of a potentially occurring tolerance to the analgesic effect of the opioids
- 3. Documentation of a potentially occuring hyperalgesia after discontinuation of the opioid infusion
- 4. Documentation of possible withdrawal symptoms on both treatment groups after extubation
- 5. Documentation of the discharge time from the Paediatric Intensive Care Unit (PICU) after discontinuation of the opioid infusion

#### Completion date

17/08/2008

# **Eligibility**

#### Key inclusion criteria

- 1. Ventilated term newborns and infants less than 60 days
- 2. Expected time of artificial ventilation between 12 and 96 hours

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Neonate

#### Sex

**Not Specified** 

## Key exclusion criteria

- 1. Neuromuscular diseases
- 2. Drug abuse of the mother (exclusion criteria for newborns)
- 3. Known hypersensitivity to Ultiva® and Fentanyl-Janssen®
- 4. Missing informed consent of the parents
- 5. Participation in another clinical trial during the last four weeks before start of this trial

#### Date of first enrolment

17/11/2006

#### Date of final enrolment

# Locations

Countries of recruitment

Germany

Study participating centre Clinic for Paediatrics Cologne Germany 50937

# Sponsor information

#### Organisation

University of Cologne (Germany)

**ROR** 

https://ror.org/00rcxh774

# Funder(s)

Funder type

Industry

#### **Funder Name**

GlaxoSmithKline GmbH & Co. KG, Munich (Germany) - partially funded

# **Results and Publications**

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type Details Date created Date added Peer reviewed? Patient-facing?

results

<u>Results article</u> 01/06/2012 10/04/2019 Yes No