

# Comparison of prilocaine and mepivacaine for perianal surgery in an outpatient setting

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<b>Registration date</b> 25/07/2012	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 25/07/2012	<b>Condition category</b> Digestive System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Minor colorectal diseases such as condyloma (infection of the genitals), fissures or haemorrhoids are very common amongst the adult population. If surgical treatment is necessary, procedures are usually performed in an ambulatory setting (outpatient surgery/day care). Spinal anaesthesia with small amounts of hyperbaric local anaesthetics seems to be more efficient than other anaesthesia techniques. In July 2010, prilocaine 2%, a new hyperbaric local anaesthetic, was introduced to the market. Compared to formerly used mepivacaine, prilocaine seems to have a shorter time of drug-action and a lower rate of adverse side effects. Therefore prilocaine 2% may be the preferred anaesthetic for perianal outpatient surgery. The aim of this study is to compare prilocaine and mepivacaine regarding adverse side effects, amount of additional analgesics needed as well as the duration of patients stay in day care.

### Who can participate?

Every patient suffering from minor colorectal diseases aged 18 to 80 can take part in this study, except for patients who have the following: contraindications against spinal anaesthesia, not eligible for day surgery, allergies against local anaesthetics or drugs used for postoperative analgesia.

### What does the study involve?

Participants are randomly allocated to either 0.5ml of hyperbaric prilocaine 2% or 0.5ml of hyperbaric mepivacaine 4%. The expansion of sensory and motor blocks are tested. After the procedure, the period of time until the patient is able to void (pass urine), to get up and walk without assistance as well as the time span until the patient is eligible for discharge are evaluated. The occurrence of pain as well as the amount of postoperative analgesics needed are documented. One week after the operation, there is a telephone interview with the patient. This includes questions about the occurrence of transient neurologic symptoms (a symmetrical bilateral pain in the back or buttocks or pain radiating to the lower extremities after recovery from spinal anesthesia) or postpunctural headache. The interviewer also assesses the patient's overall satisfaction concerning anaesthesia.

### What are the possible benefits and risks of participating?

There will be no immediate direct benefit to those taking part. But there should be benefits to

future patients undergoing minor perianal surgery in an ambulatory setting by establishing a drug with fewer adverse side effects for this purpose. Both drugs compared in this study are well established. There are no further risks than those of regular spinal anaesthesia in an ambulatory setting.

Where is the study run from?

The study has been set up by the Department of Anaesthesiology and Surgical Intensive Care Medicine, University Medical Centre Mannheim.

When is the study starting?

The study started at the day surgery centre, University Medical Centre Mannheim on July 26 2011. Participants will be enrolled on the study for a period of one week starting with the day of surgery.

Who is funding the study?

Funding has been provided by the University Medical Centre Mannheim.

Who is the main contact?

Marc D. Schmittner, MD, PhD  
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## Contact information

### Type(s)

Scientific

### Contact name

Dr Marc D Schmittner

### Contact details

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## Additional identifiers

### Protocol serial number

N/A

## Study information

### Scientific Title

Comparison of 0.5ml hyperbaric prilocaine 2% versus 0.5ml hyperbaric mepivacaine 4% for low-dose spinal anaesthesia in patients undergoing perianal surgery in an ambulatory setting

### Study objectives

In 2010 hyperbaric prilocaine 2% was introduced in the German market. Evidence based data comparing hyperbaric prilocaine 2% versus hyperbaric mepivacaine 4% for perianal surgery does not exist. In this trial we compare the expansion of low dose spinal anaesthesia, the incidence of transient neurological symptoms (TNS) and the duration of stay in hospital comparing 0.5ml hyperbaric prilocaine 2% vs. 0,5ml hyperbaric mepivacaine 4%.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Medical Ethics Committee II, Faculty of Medicine, Ruprecht Karl University of Heidelberg [Medizinische Ethikkommission II: MEDizinische Fakultät Mannheim der Ruprecht-Karls-Universität Heidelberg], 20 July 2011, ref. AZ.:2011-298N-MA

### **Study design**

Randomised controlled double-blinded single-center trial

### **Primary study design**

Interventional

### **Study type(s)**

Treatment

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

Colorectal diseases

### **Interventions**

Participants are randomised (1:1) and assigned to a dose of either 0.5ml of hyperbaric prilocaine 2% or of 0.5ml of hyperbaric mepivacaine 4%.

The expansion of sensory and motor blocks are tested. After the procedure, the period of time until the patient is able to void, to get up and walk without assistance as well as the time span until the patient is eligible for discharge are evaluated. The occurrence of pain as well as the amount of postoperative analgesics needed are documented. One week postoperative a telephone-interview with the patient is carried out. This includes questions about the occurrence of transient neurologic symptoms or postpunctural headache. The interviewer also assesses the patient's overall satisfaction concerning anaesthesia.

### **Intervention Type**

Other

### **Phase**

Not Applicable

### **Primary outcome(s)**

1. Period of time till discharge
2. Occurrence of transient neurologic symptoms

### **Key secondary outcome(s))**

1. Occurrence of pain
2. Patients satisfaction
3. Expansion of sensory and motor block
4. Time span until patient is able walk and void

**Completion date**

26/05/2012

## Eligibility

**Key inclusion criteria**

1. Patients (male or female) undergoing minor perianal surgery
2. Aged 18 - 80 years
3. American Society of Anesthesiologists (ASA) physical status I-III

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Contraindications for spinal anaesthesia
2. Allergy to diclofenac, metamizole, paracetamole, piritramid or one of the local anaesthetics used
3. Patients with language barriers

**Date of first enrolment**

26/07/2011

**Date of final enrolment**

26/05/2012

## Locations

**Countries of recruitment**

Germany

**Study participating centre**  
University Medical Centre Mannheim [Universitätsmedizin Mannheim]  
Mannheim  
Germany  
68167

## Sponsor information

**Organisation**  
University Medical Centre Mannheim [Universitätsmedizin Mannheim] (Germany)

**ROR**  
<https://ror.org/05sxbyd35>

## Funder(s)

**Funder type**  
University/education

**Funder Name**  
University Medical Centre Mannheim [Universitätsmedizin Mannheim] (Germany)

## 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?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes