

# Prevention of local thromboembolic complications during continuous infusion of coagulation factor concentrates: parallel infusion of saline versus heparin and parallel infusion of saline?

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To demonstrate that parallel infusion of saline added to the continuous infusion of clotting factor concentrates prevents local thromboembolic complications to the same extent as heparin together with a parallel infusion of saline does.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Blood and lymphatic system disorders congenital
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON36776

### Source

ToetsingOnline

### Brief title

Continuous infusion of factor concentrate: with or without heparin?

### Condition

- Blood and lymphatic system disorders congenital

### Synonym

bleeding disorder, Haemophilia

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Utrecht

**Source(s) of monetary or material Support:** Ministerie van OC&W

## Intervention

**Keyword:** Coagulation factor concentrates, Continuous infusion, Heparin, Saline

## Outcome measures

### Primary outcome

Lifespan of the intravenous catheters in both groups.

### Secondary outcome

V.I.P. score, a standardised score for thrombophlebitis.

## Study description

### Background summary

At the time of introduction of continuous infusion of clotting factor concentrates, thrombophlebitis was a frequently seen complication. In the 90's a small amount of heparin was experimentally added to the clotting factor concentrates during continuous infusion in order to prevent thrombophlebitis and some centres have been using this method ever since. Recent developments in the field of clotting factor concentrates have led to the improvement of these products. Moreover, worldwide there are different methods in use to prevent thrombophlebitis, such as parallel infusion of saline. No comparative studies on this topic have been performed to define the best prophylactic regimen and the current prophylactic treatment of thrombophlebitis is therefore not evidence based. Because adding heparin is not free of risks, parallel infusion of saline has the potential of being safer. In this trial we want to evaluate the efficacy of a parallel infusion of saline compared to heparin in the prevention of local thromboembolic complications in patients treated with continuous infusion of clotting factor concentrates.

### Study objective

To demonstrate that parallel infusion of saline added to the continuous infusion of clotting factor concentrates prevents local thromboembolic complications to

the same extent as heparin together with a parallel infusion of saline does.

## **Study design**

An open label randomised trial.

## **Intervention**

Two interventions will be compared. In the first group the intervention consists of adding heparin, next to a parallel infusion of saline, to the clotting factor concentrates during continuous infusion. In the second group the intervention consists of parallel infusion of saline to the continuous infusion of clotting factor concentrates.

## **Study burden and risks**

It is not expected that the group of patients who will receive a parallel infusion of saline have a higher risk for developing thrombophlebitis than the group of patients who will receive heparin. There is very low risk with regard to serious complications.

However, there is a possibility that if the patient needs extra intravenous saline according to the treating physician, a second entry must be placed for intravenous infusion.

This trial will contribute to an evidence-based protocol for prophylactic treatment for local thromboembolic complications seen in continuous infusion of clotting factor concentrates. Possibly this can lead to safer treatment regime.

## **Contacts**

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

- Patients with haemophilia A
- Planned for elective operation
- Getting a continuous infusion of coagulation factor concentrates (FVIII)
- 18 years and older

### Exclusion criteria

Under 18 years

The use of FVIIa (used by patients with inhibitors)

## Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Prevention

## Recruitment

NL  
Recruitment status: Recruitment stopped  
Start date (anticipated): 16-08-2011  
Enrollment: 42  
Type: Actual

## Medical products/devices used

Product type: Medicine  
Brand name: Heparin-sodium  
Generic name: heparin-sodium 100 IU / ml  
Registration: Yes - NL outside intended use

## Ethics review

Approved WMO  
Date: 02-10-2009  
Application type: First submission  
Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO  
Date: 30-08-2010  
Application type: First submission  
Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO  
Date: 14-02-2011  
Application type: Amendment  
Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO  
Date: 22-04-2011  
Application type: Amendment  
Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO  
Date: 10-05-2011  
Application type: Amendment  
Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

### In other registers

Register	ID
EudraCT	EUCTR2009-012091-26-NL
CCMO	NL27872.041.09