# The effect of intravenous fluids on abdominal aortic aneurysm surgery

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
15/12/2007		☐ Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
14/02/2008		[X] Results		
<b>Last Edited</b> 28/05/2014	Condition category Circulatory System	[] Individual participant data		

#### Plain English summary of protocol

Not provided at time of registration

#### Contact information

#### Type(s)

Scientific

#### Contact name

Mr Rajiv Vohra

#### Contact details

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### Additional identifiers

Protocol serial number

N/A

## Study information

#### Scientific Title

The anti-inflammatory properties of hydroxyethyl starches during abdominal aortic aneurysm surgery

#### **Study objectives**

That hydroxyethyl starch with a mean molecular weight of 130 kDa (HES130/0.4) has better splanchnic perfusion and thus reduced inflammatory response compared with hydroxyethyl starch of mean molecular weight of 200 kDa (HES200/0.62).

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

South Birmingham Ethics Committee, April 2001, ref: 5600

#### Study design

Single-centre unblinded randomised controlled trial

#### Primary study design

Interventional

#### Study type(s)

Treatment

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

Systemic inflammatory response during abdominal aortic aneurysm surgery.

#### **Interventions**

Blood volume expansion with either HES130/0.4, HES200/0.62 or gelatine.

This trial was carried out at Selly Oak Hospital, Birmingham, UK.

#### **Intervention Type**

Drug

#### Phase

Not Applicable

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

Hydroxyethyl starch

#### Primary outcome(s)

The following were assessed pre-operatively, at aortic clamping, reperfusion and then at regular time points after reperfusion (2, 4, 8, 12, 48, 72, 96 and 120 hours):

Systemic inflammatory response:

- 1. Serum C-Reactive Protein (CRP)
- 2. White cell activation
- 3. Adhesion molecule expression
- 4. Endotoxin release
- 5. Splanchnic perfusion

#### Key secondary outcome(s))

The following were assessed pre-operatively, at a ortic clamping, reperfusion and then at regular time points after reperfusion (2, 4, 8, 12, 48, 72, 96 and 120 hours):

1. Renal dysfunction:

- 1.1. Urinary markers of renal injury
- 1.2. Serum urea and creatinine
- 2. Pulmonary dysfunction:
- 2.1. Lung injury score

#### Completion date

01/10/2002

# **Eligibility**

#### Key inclusion criteria

All patients undergoing elective infra-renal abdominal aortic aneurysm repair using a transperitoneal route

#### Participant type(s)

**Patient** 

#### Healthy volunteers allowed

No

#### Age group

**Not Specified** 

#### Sex

All

#### Key exclusion criteria

- 1. Patients with a history of allergy to any of the study solutions
- 2. Patients with a creatinine of greater than 177 mmol/L
- 3. Patients with significant iliac occlusive disease

#### Date of first enrolment

01/04/2001

#### Date of final enrolment

01/10/2002

#### Locations

#### Countries of recruitment

United Kingdom

England

#### Study participating centre

#### **Department of Vascular Surgery**

Birmingham United Kingdom B29 6JD

# Sponsor information

#### Organisation

Fresenius Kabi (Germany)

#### ROR

https://ror.org/01v376g59

# Funder(s)

#### Funder type

Industry

#### Funder Name

Fresenius Kabi (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?
Results article	results	01/04/2007	Yes	No
Results article	results	01/03/2009	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2025	No	Yes