

Preoperative Acute Normovolaemic Haemodilution (ANH) in combination with Hypotensive Epidural Anaesthesia (HEA)

Submission date
12/04/2002

Recruitment status
No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date
12/04/2002

Overall study status
Completed

☐ Statistical analysis plan

☒ Results

Last Edited
06/09/2007

Condition category
Musculoskeletal Diseases

☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Study objectives

Not provided at time of registration

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Knee arthroplasty surgery

Interventions

Patients were consecutive and blindly randomised to hypotensive epidural anaesthesia with or without acute normovolaemic haemodilution.

A mean of 877 ml blood was predonated (19.7% of the total blood volume). Blood loss was, except from the intraoperative loss, significantly higher in the ANH group. The total loss was 1306 mL (ANH) versus 1026 mL (non-ANH), $P < 0.05$. Except from the first hour postoperatively, haematocrit was identical in between groups postoperatively. The amount of blood transfusion was identical 386 ml (ANH) versus 343 ml (non-ANH) (NS). 50% went through surgery without receiving blood (ANH) versus 58% (non-ANH). No renal, neurological or cardiopulmonary complications were registered.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Not provided at time of registration

Key secondary outcome(s)

Not provided at time of registration

Completion date

01/01/2001

Eligibility

Key inclusion criteria

Patients scheduled for primary cemented Total Knee Replacement (TKR) surgery

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/01/2000

Date of final enrolment

01/01/2001

Locations**Countries of recruitment**

Denmark

Study participating centre**Department of Anaesthesia**

Aarhus Amtssygehus

Denmark

DK-8000

Sponsor information**Organisation**

Aarhus University Hospital (Denmark)

ROR

<https://ror.org/040r8fr65>

Funder(s)

Funder type
Not defined

Funder Name
Not provided at time of registration

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	18/04/2002		Yes	No