

# Does the use of a simple portable ultrasound machine increase the success rate for femoral venous access in children and decrease complications?

<b>Submission date</b> 30/09/2004	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 30/09/2004	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 29/04/2016	<b>Condition category</b> Surgery	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

### Contact name

Dr Steven Cray

### Contact details

Birmingham Children's Hospital  
Department of Anaesthesia  
Steelhouse Lane  
Birmingham  
United Kingdom  
B4 6NH  
+44 (0)121 333 9623  
[steven.cray@bch.nhs.uk](mailto:steven.cray@bch.nhs.uk)

## Additional identifiers

### Protocol serial number

N0045126775

## Study information

**Scientific Title**

Does the use of a simple portable ultrasound machine increase the success rate for femoral venous access in children and decrease complications?

**Study objectives**

Does the use of a simple portable ultrasound machine increase the success rate for femoral venous access in children and decrease complications?

**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**

Cardiac catheterisation

**Interventions**

Children undergoing cardiac catheterisation under general anaesthesia who require femoral venous access for that procedure will be randomised to either femoral venous access under ultrasound guidance or by the landmark method (palpation of the femoral artery). Children who are known to have thrombosed or abnormal venous anatomy will be excluded because these children will require specialised techniques of vascular access. A history of latex allergy will also be an exclusion criterion. The femoral venous puncture will be performed by a cardiologist trained in both techniques.

**Intervention Type**

Procedure/Surgery

**Phase**

Not Specified

**Primary outcome(s)**

The number of attempts to successful venous access, time taken and complications (arterial puncture, failure, haematoma) will be recorded. If after 15 minutes the vein has not been accessed, then this will be recorded as a failure of that technique and an alternative method of access used.

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

31/03/2005

## Eligibility

**Key inclusion criteria**

Children undergoing cardiac catheterisation under general anaesthesia who require femoral venous access for the procedure

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Child

**Sex**

All

**Key exclusion criteria**

Does not meet inclusion criteria

**Date of first enrolment**

19/04/2004

**Date of final enrolment**

31/03/2005

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

Birmingham Children's Hospital

Birmingham

United Kingdom

B4 6NH

## Sponsor information

## Organisation

Department of Health

## Funder(s)

### Funder type

Hospital/treatment centre

### Funder Name

Birmingham Children's Hospital NHS Trust (UK)

## 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