

# Pilot study of a randomised controlled trial of antenatal thromboprophylaxis

<b>Submission date</b> 23/01/2004	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 23/01/2004	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 17/02/2010	<b>Condition category</b> Pregnancy and Childbirth	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> 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

## Study information

**Scientific Title**

**Acronym**  
APPLE

**Study objectives**

In many hospitals, pregnant women who are at risk of developing thromboembolic disease (TED) are given thromboprophylaxis using heparin, despite the fact that there is no good quality evidence from randomized control trials (RCT) that this therapy is effective. Moreover, heparin can cause serious side effects, especially osteoporosis. The risks of side effects are unknown, and it is possible that thromboprophylaxis may cause more harm than good. RCTs are necessary to evaluate without bias the risks and benefits of this therapy.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Not provided at time of registration

**Primary study design**

Interventional

**Study design**

Randomised controlled trial

**Study type(s)**

Prevention

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

Pregnancy and childbirth: thromboembolic disease (TED)

**Interventions**

Heparin vs placebo

**Intervention Type**

Other

**Phase**

Not Applicable

**Primary outcome(s)**

Incidence of thromboembolic disease and side effects (especially osteoporosis) will be recorded

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

01/02/2002

**Eligibility****Key inclusion criteria**

Pregnant women who are at risk of developing thromboembolic disease (TED)

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

Female

**Key exclusion criteria**

1. Women are known to have a thrombophilia sensitivity
2. Have had more than one previous episode of TED
3. Are known to have heparin sensitivity
4. Have had a previous cerebral venous thrombosis
5. Are receiving long term anticoagulant therapy

**Date of first enrolment**

01/08/1999

**Date of final enrolment**

01/02/2002

**Locations**

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**National Perinatal Epidemiology Unit**

Oxford

United Kingdom

OX3 7LF

**Sponsor information**

**Organisation**

NHS R&D Regional Programme Register - Department of Health (UK)

**Funder(s)**

**Funder type**  
Government

**Funder Name**  
NHS Executive South East (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="#">Results article</a>	results	01/10/2004		Yes	No