

# The use of metformin in patients with polycystic ovarian syndrome requiring treatment with in vitro fertilisation (IVF)

<b>Submission date</b> 12/09/2003	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 12/09/2003	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 07/09/2015	<b>Condition category</b> Urological and Genital Diseases	<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

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### Contact details

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## Additional identifiers

### Protocol serial number

N0024120995

## Study information

Scientific Title

The use of metformin in patients with polycystic ovarian syndrome requiring treatment with in vitro fertilisation (IVF)

**Study objectives**

Metformin has been shown to be useful in patients with polycystic ovarian syndrome (PCOS) undergoing IVF. The aim of this study is to investigate whether metformin therapy in patients with polycystic ovaries can improve the fertilisation rates and significantly improve pregnancy rates.

**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**

Urological and Genital Diseases: Polycystic ovarian syndrome (PCOS)

**Interventions**

Group A will be given 500 mg metformin TDS for 1 month prior to their treatment. Group B will not be treated with metformin. Both groups will undergo standard IVF treatment.

**Intervention Type**

Drug

**Phase**

Not Applicable

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

Metformin

**Primary outcome(s)**

1. Total number of follicles reaching 18 mm
2. Number of eggs obtained, number and quality of mature eggs, fertilisation rates
3. Total number of embryos, number and quality of embryos replaced and number of embryos frozen
4. Biochemical pregnancies, clinical pregnancies
5. Number of cycles abandoned for poor response and over response
6. Number of cases of ovarian hyperstimulation in each group

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

31/12/2005

## Eligibility

**Key inclusion criteria**

Patients with PCOS

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

Female

**Key exclusion criteria**

Does not meet inclusion criteria

**Date of first enrolment**

01/01/2003

**Date of final enrolment**

31/12/2005

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

Homerton University Hospital NHS Trust

London

United Kingdom

E9 6SR

## Sponsor information

**Organisation**

Department of Health (UK)

**Funder(s)****Funder type**

Government

**Funder Name**

Homerton University Hospital NHS Trust

**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