# A study to assess the safety of using 100 mg methotrexate for the treatment of an unruptured ectopic pregnancy

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>		
23/10/2025	No longer recruiting	[X] Protocol		
Registration date	Overall study status	Statistical analysis plan		
28/11/2025	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
10/12/2025	Pregnancy and Childbirth			

## Plain English summary of protocol

Background and study aims

We will explore the feasibility of giving women who have a stable, ectopic pregnancy (a pregnancy that has implanted in the Fallopian tube and not the uterus) a single dose of methotrexate of 100 mg/ml. Methotrexate is a drug used to treat ectopic pregnancies and is usual standard care when a patient presents in a stable condition. The dose is calculated depending on the patient's body surface area (calculated using height and weight). The differing doses then have to be prepared in pharmacies (these range between 60 and 120 mg). This adds to waiting times and burden on patients. The aim of this study is to find out whether we can safely give all women a standard dose.

Who can participate?

Women aged between 18-45 years who have a stable ectopic pregnancy

#### What does the study involve?

Participants are given a standard one-off dose of methotrexate of 100 mg/ml. All of the women recruited to the study would normally have received less than 100 mg of methotrexate had they received standard care. We will follow them up as per usual clinical care (no extra visits) until the pregnancy resolves. We will look at side effects experienced by these women and compare these to side effects experienced by the women who are given a slightly lower dose (published historical data).

What are the possible benefits and risks of participating? Not provided at time of registration

Where is the study run from?

The study will be carried out at the Pregnancy Support Centre within the Royal Infirmary of Edinburgh, NHS Lothian (UK)

When is the study starting and how long is it expected to run for? November 2020 to June 2023 Who is funding the study? Nordic Pharma Group

Who is the main contact?
Ann Doust, ann.doust@ed.ac.uk

## **Contact information**

## Type(s)

**Public** 

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## Additional identifiers

Clinical Trials Information System (CTIS)

2020-004592-40

Integrated Research Application System (IRAS)

285725

Central Portfolio Management System (CPMS)

49625

# Study information

#### Scientific Title

OSPREY: An open-label exploratory study to assess the safety of using 100 mg of methotrexate as a standard dose treatment for women with unruptured ectopic pregnancy

#### **Acronym**

**OSPREY** 

## Study objectives

To explore the safety of 100 mg/ml dose of MTX in patients who routinely would receive 85 mg or lower based on their body surface area.

## Ethics approval required

Ethics approval required

## Ethics approval(s)

approved 20/11/2020, Health & Social Care Research Ethics Committee A (HSC REC A) (Office for Research Ethics Committees Northern Ireland (ORECNI) Customer Care & Performance Directorate Lissue Industrial Estate West 5 Rathdown Walk Moira Road, Lisburn, BT28 2RF, United Kingdom; +44 (0)28 95361407; RECA@hscni.net), ref: 20/NI/0136

## Study design

Single-site open-label exploratory study

## Primary study design

Interventional

## Study type(s)

Safety

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

Ectopic pregnancy

#### Interventions

Osprey is a single-site open-label exploratory study of the safety and outcomes of using a preprepared single dose of 100 mg/ml MTX given via an IM injection in women with a stable EP.

#### Intervention Type

Drug

#### Phase

Phase III

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

Methotrexate

#### Primary outcome(s)

Safety endpoint:

- 1. Incidence of related adverse events measured from baseline until resolution of ectopic pregnancy
- 2. Changes to blood haemotological, renal and liver function tests measured at baseline, day 4 and day 7 post treatment

#### Key secondary outcome(s))

- 1. Time to resolution of ectopic pregnancy (number of days from treatment with methotrexate until serum hCG)
- 2. Treatment failure (requirement for second injection of methotrexate or requirement for surgical intervention)

Timelines for both measures were variable across participants

## Completion date

30/06/2023

# **Eligibility**

#### Key inclusion criteria

- 1. Clinical decision made for treatment with MTX
- 2. Women aged between 18-45 years
- 3. Serum hCG >15 IU/l
- 4. Diagnosis of an ectopic pregnancy/pregnancy of unknown location
- 5. Body surface area ≤1.75 m2 but ≥1.25 m2
- 6. Haemoglobin between 100 and 165g/l within 3 days of treatment
- 7. Clinically stable e.g. no abdominal guarding or rigidity on examination and no evidence significant of intra-abdominal bleeding on USS
- 8. Able to understand all information and provide written informed consent

## Participant type(s)

Patient

## Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

## Upper age limit

45 years

#### Sex

**Female** 

#### Total final enrolment

10

#### Key exclusion criteria

- 1. Clinically significant abnormal haematological/renal/liver indices noted on pre-treatment blood test (within 3 days of treatment)
- 2. Significant abdominal pain
- 3. Evidence of intrauterine pregnancy
- 4. Evidence of significant intra-abdominal bleed on USS defined by echogenic free fluid above the uterine fundus or surrounding ovary within 1 day of treatment
- 5. EP mass on USS of greater than 3.5 cm (mean dimensions) which is deemed not suitable for treatment with MTX
- 6. Currently breastfeeding and unwilling to stop

#### Date of first enrolment

26/07/2021

#### Date of final enrolment

31/05/2023

## Locations

#### Countries of recruitment

**United Kingdom** 

Scotland

# Study participating centre NHS Lothian

Waverley Gate 2-4 Waterloo Place Edinburgh Scotland EH1 3EG

# Sponsor information

Organisation

Accord (United Kingdom)

**ROR** 

https://ror.org/01x6s1m65

# Funder(s)

Funder type

Industry

**Funder Name** 

Nordic Pharma Group

Alternative Name(s)

Nordic Group, Nordic Pharma

**Funding Body Type** 

Private sector organisation

Funding Body Subtype

For-profit companies (industry)

Location

France

## **Results and Publications**

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Data sharing statement to be made available at a later date

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Basic results	version 3	10/12/2025	10/12/2025	No	No
Participant information sheet		18/06/2021	28/10/2025	No	Yes

<u>Protocol file</u> version 2 17/06/2021 28/10/2025 No

No