# Evaluating the CORE-10 as an assessment measure of psychological distress in women 3 months after miscarriage

Submission date 16/07/2024	<b>Recruitment status</b> Recruiting	[X] Prospectively registered [_] Protocol
<b>Registration date</b> 06/08/2024	<b>Overall study status</b> Ongoing	<ul> <li>Statistical analysis plan</li> <li>Results</li> </ul>
Last Edited 21/01/2025	<b>Condition category</b> Pregnancy and Childbirth	<ul><li>Individual participant data</li><li>[X] Record updated in last year</li></ul>

#### **Plain English Summary**

Background and study aims

In the UK it is estimated that mental illness affects 1 in 5 women during pregnancy and after birth with a cost to society of £8.1 billion for every annual cohort of births. Miscarriage is defined as the loss of a pregnancy before viability, which in the UK includes pregnancy losses from conception until 23 weeks and 6 days gestation. Miscarriage is common with an estimated 23 million miscarriages occurring every year worldwide, translating to 44 pregnancy losses each minute.

Miscarriage can be a deeply distressing experience. The psychological impact of miscarriage can go unrecognised by healthcare professionals, family and friends. However, anxiety, depression and PTSD are all strongly associated with miscarriage. In 2020, a study of 537 women following miscarriage found that 9 months after a pregnancy loss, 6% of women met the criteria for moderate or severe depression, 17% for moderate or severe anxiety and 18% for post-traumatic stress. Identifying women at risk of psychological distress following miscarriage and the development of optimal treatment strategies have been recognised as research priorities. This study aims to evaluate the diagnosis accuracy of the CORE-10 online questionnaire in identifying women who meet the DSM-V diagnostic criteria for psychopathology.

#### Who can participate?

Women aged 18 years and over who have experienced an involuntary pregnancy loss (miscarriage <24 weeks, stillbirth, neonatal death, ectopic pregnancy, gestational trophoblastic disease [molar pregnancy], or recurrent miscarriage)

#### What does the study involve?

Work package 1: This work package will involve confirmation of any subsequent pregnancy since the miscarriage diagnosis was made, completion of the CORE-10 questionnaire and a diagnostic interview completed online via the online CORE-10 database.

Work package 2: About 40 women from WP1 will complete surveys and interviews to evaluate their perspective of the CORE-10 online questionnaire.

What are the possible benefits and risks of participating?

At the moment there is not enough evidence to say whether the CORE-10 is the best way of identifying women who have prolonged psychological distress following miscarriage. It is not known whether participants will benefit personally from taking part in this study, but the knowledge gained will inform future practice and potentially lead to improved detection of mental health problems for women after miscarriage in the future.

Where is the study run from? University of Birmingham (UK)

When is the study starting and how long is it expected to run for? November 2023 to September 2025

Who is funding the study? Tommy's (UK)

Who is the main contact? core-10@contacts.bham.ac.uk

#### Study website

https://www.birmingham.ac.uk/research/maternal-health/our-research

### **Contact information**

**Type(s)** Public, Scientific

**Contact name** Mr Lee Priest

#### **Contact details**

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Dr Adam Devall

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### Additional identifiers

EudraCT/CTIS number Nil known

**IRAS number** 215646

**ClinicalTrials.gov number** Nil known

**Secondary identifying numbers** 2.0 (28-Mar-2024), IRAS 215646, CPMS 32263

# Study information

#### Scientific Title

Evaluating the CORE-10 as an assessment measure of psychological distress in women 3 months after miscarriage

Acronym

CORE-10

#### Study hypothesis

This work package aims to evaluate the diagnosis accuracy of the CORE-10 online questionnaire in identifying women who meet DSM-V diagnostic criteria for psychopathology.

**Ethics approval required** Ethics approval required

#### Ethics approval(s)

Approved 20/02/2024, West Midlands - South Birmingham Research Ethics Committee (2 Redman Place, Stratford, London, E20 1JQ, United Kingdom; +44 (0)207 104 8230; southbirmingham.rec@hra.nhs.uk), ref: 16/WM/0423

**Study design** Observational study

**Primary study design** Observational

**Secondary study design** Diagnosis accuracy study

# Study setting(s)

Hospital

#### Study type(s)

Treatment

#### Participant information sheet

Not available in web format, please use the contact details to request a participant information sheet

#### Condition

Miscarriage

#### Interventions

The Clinical Outcomes in Routine Evaluation (CORE-10) was suggested as a possible single tool to screen for psychological distress. There was an agreement amongst professionals regarding the availability and ease of use of the tool. CORE-10 is a strong tool for assessing psychological distress in women given its broad coverage of a range of constructs and familiarity with clinicians.

The CORE-10 online questionnaire is used to identify women who meet DSM-V diagnostic criteria for psychopathology. This work package will involve confirmation of any subsequent pregnancy since the miscarriage diagnosis was made, completion of the CORE-10 questionnaire and a diagnostic interview which are completed online via the online CORE-10 database (Redcap).

#### Intervention Type

Other

#### Primary outcome measure

Psychological distress is measured using the Clinical Outcomes in Routine Evaluation (CORE-10) online questionnaire, and completed by women 3 months following a miscarriage (work package 1). The CORE-10 questionnaire will be compared with the results of the clinical diagnostic interview (completed within 28 days from the date of the CORE-10 questionnaire).

#### Secondary outcome measures

The acceptability of the CORE-10 online questionnaire will be measured by survey, clinical interview and completion of a Likert Scale (work package 2). Forty participants will be randomly selected after the completion of the diagnostic clinical interview.

### Overall study start date

11/11/2023

**Overall study end date** 30/09/2025

# Eligibility

Participant inclusion criteria

- 1. Female
- 2. Primiparous or multiparous
- 3. Ability to provide written informed consent to take part in the study

4. Age ≥18 years old

5. Diagnosis of miscarriage ≤16+6 weeks (singleton or multiple pregnancies) acquired from hospital records

6. Recurrent or sporadic miscarriage

#### Participant type(s)

Patient

**Age group** Adult

**Lower age limit** 18 Years

**Sex** Female

**Target number of participants** 595

#### Participant exclusion criteria

Miscarriage ≥17 weeks
 Other types of early pregnancy loss (e.g. gestational trophoblastic disease or ectopic pregnancy) acquired from hospital records
 Termination of pregnancy
 Prior enrolment in this study

Recruitment start date

07/08/2024

Recruitment end date 31/05/2025

# Locations

**Countries of recruitment** England

Scotland

United Kingdom

**Study participating centre NHS Grampian** Dugald Baird Centre Aberdeen Maternity Hospital Aberdeen United Kingdom AB25 2ZL

#### **Study participating centre Ashford and St. St. Peter's Hospitals NHS Foundation Trust** Ashford & St Peter's Hospitals NHS Foundation Trust 1st floor, Chertsey House St Peter's Hospital Guildford Road Chertsey Surrey United Kingdom

Study participating centre

KT16 OPZ

**Birmingham Women's and Children's NHS Foundation Trust** Steelhouse Lane West Midlands Birmingham United Kingdom B4 6NH

**Study participating centre Imperial College Healthcare NHS Trust** Praed Street London United Kingdom W2 1NY

**Study participating centre King's College Hospital NHS Foundation Trust** Denmark Hill London United Kingdom SE5 9RS

**Study participating centre University Hospitals Of Leicester NHS Trust** Kensington Building Leicester Royal Infirmary Leicester United Kingdom LE1 5WW

Study participating centre Shrewsbury and Telford Hospital NHS Trust The Princess Royal Hospital, Apley Castle, Apley, Telford United Kingdom TF1 6TF

#### Study participating centre NHS Lothian Waverleygate 2-4 Waterloo Place Edinburgh United Kingdom EH1 3EG

#### Study participating centre Lancashire Teaching Hospitals NHS Foundation Trust Womens Health Research Office Ante-Natal Clinic Royal Preston Hospital Fulwood Preston United Kingdom PR2 9HT

**Study participating centre South Tyneside and Sunderland NHS Foundation Trust** Sunderland Royal Hospital Kayll Rd, Sunderland Sunderland United Kingdom SR4 7TP

Study participating centre

**University Hospitals Coventry & Warwickshire** Clifford Bridge Road Coventry United Kingdom CV2 2DX

### Sponsor information

**Organisation** University of Birmingham

**Sponsor details** Edgbaston Birmingham England United Kingdom B15 2TT N/A researchgovernance@contacts.bham.ac.uk

**Sponsor type** University/education

**Website** http://www.birmingham.ac.uk/index.aspx

ROR https://ror.org/03angcq70

### Funder(s)

Funder type Charity

**Funder Name** Tommy's

Alternative Name(s)

**Funding Body Type** Private sector organisation

**Funding Body Subtype** Other non-profit organizations

# **Results and Publications**

#### Publication and dissemination plan

A manuscript will be submitted to peer reviewed publications. Through a variety of platforms, data will be shared with patients, commissioners, clinicians, third sector organisations and policy makers. A supplementary lay summary will also be provided within the report to ensure wide dissemination amongst clinicians, patients and the public. The study findings will also be presented at key international conferences. All publications will acknowledge participants and EPAUs. These dissemination strategies will ensure widespread disseminated to the NHS, wider public and researchers.

#### Intention to publish date

31/12/2025

#### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from core-10@contacts.bham.ac.uk

The type of data that will be shared: Appropriate data-sharing requests will be considered by the trial management group and the Tommy's Management Centre. Any data shared will be anonymous.

Data will be stored securely in a redcap database on servers at the University of Birmingham. Personal data recorded on all documents will be regarded as strictly confidential and will be handled and stored in accordance with the General Data Protection Regulation, 2018.

#### IPD sharing plan summary

Available on request