

# PCN-CRP: a programme for improving the prediction and prevention of preterm birth and women's experience of care

<b>Submission date</b> 18/09/2025	<b>Recruitment status</b> Not yet recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 19/09/2025	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 19/09/2025	<b>Condition category</b> Pregnancy and Childbirth	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Preterm birth is the leading cause of neonatal death and morbidity worldwide. This has significant repercussions for individuals and their families and the economic costs to society are considerable. The Preterm Clinical Network Cohort Research Programme (PCN-CRP) is a series of studies aiming to reduce preterm birth and the problems it can cause. These studies will investigate tests to predict preterm birth, treatments to prevent it, and how to improve outcomes for babies and women's experience of care.

### Who can participate?

Pregnant women aged 16 years or above who are at risk of preterm birth, either because they have known risk factors, e.g. have had an early baby before, or those who are experiencing symptoms of threatened preterm labour.

### What does the study involve?

Participants will be asked to agree to information being collected from their maternity record. This will include information about the participant (e.g. age, ethnicity), any previous pregnancies or medical conditions, the care received in this pregnancy and the pregnancy outcomes, e.g. whether or not she has her baby early.

### What are the possible benefits and risks of participating?

Taking part in this programme is unlikely to have direct benefit for the participant or her current pregnancy. What we learn, however, might help us to improve care for her in any future pregnancies as well as for other women, and reduce the number of babies being born too early. The participant's care will not be affected by taking part and no treatments are being tested so there are no risks or disadvantages, other than the time required to read the information sheet /s and sign the consent form/s.

### Where is the study run from?

King's College London and Guy's & St Thomas' NHS Foundation Trust (UK)

When is the study starting and how long is it expected to run for?  
April 2024 to March 2028

Who is funding the study?  
Tommy's (the pregnancy and baby charity) (UK)

Who is the main contact?  
Dr Jenny Carter, [jenny.carter@kcl.ac.uk](mailto:jenny.carter@kcl.ac.uk)

**Study website**  
<https://www.medscinet.net/ukpcn>

## Contact information

**Type(s)**  
Public, Scientific

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**Type(s)**  
Principal Investigator

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## **Additional identifiers**

### **EudraCT/CTIS number**

Nil known

### **IRAS number**

344400

### **ClinicalTrials.gov number**

Nil known

### **Secondary identifying numbers**

CPMS 65239

## **Study information**

### **Scientific Title**

Preterm Clinical Network Cohort Research Programme (PCN-CRP)

### **Acronym**

PCN-CRP

### **Study objectives**

The Preterm Clinical Network Cohort Research Programme (PCN-CRP) is a series of studies aiming to reduce preterm birth and the problems it can cause. These studies will investigate tests to predict preterm birth, treatments to prevent it, and how to improve outcomes for babies and women's experience of care. The programme will be carried out in partnership with Tommy's National Centre for Preterm Birth Research and the UK Preterm Clinical Network (UKPCN). This is a network of doctors, midwives and scientists who are working together to prevent the problems associated with preterm birth.

Women at risk of preterm birth will be asked to take part in one or more of the programme's individual studies (sub-studies). Although more sub-studies will be added in the future, the first four will investigate:

1. How urine infection affects the chances of preterm birth
2. Whether different characteristics (e.g. position and measurements) of previous caesarean section scars, seen by ultrasound, can help to predict the chances of preterm birth and which treatments would work best
3. How many women at risk of preterm birth suffer from poor mental health, what additional support they are offered and whether they accept it
4. New factors to include in QUIPP, a preterm birth prediction and decision support tool.

### **Ethics approval required**

Ethics approval required

### **Ethics approval(s)**

Approved 17/03/2025, Yorkshire & The Humber - Leeds West Research Ethics Committee (NHSBT Newcastle Blood Donor Centre, Holland Drive, Newcastle upon Tyne, NE2 4NQ, United Kingdom; +44 (0)207 972 25 04; leedswest.rec@hra.nhs.uk), ref: 25/YH/0008

**Study design**

Multi-centre prospective cohort study

**Primary study design**

Observational

**Secondary study design**

Cohort study

**Study setting(s)**

Hospital

**Study type(s)**

Prevention, Screening, Treatment

**Participant information sheet**

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

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

Prediction and prevention of preterm birth

**Interventions**

Prospective collection of clinical data for use in sub-studies aiming to improve prediction and prevention of preterm birth.

Following informed consent, data will be collected by attending clinician or research midwives and will include: participant background: demographic characteristics, risk factors, medical and obstetric history; clinical care: preterm surveillance methods and test results, e.g. infection screening, cervical length scan measurements, predictive biomarker tests, mental wellbeing screening tests, concomitant treatments; pregnancy outcomes. Data will be stored on the PCN Database (<https://www.medsclinet.net/ukpcn>). If the participant consents to possible long-term follow-up of her own health or her child's health and developmental status as part of future approved research, this could potentially occur at any time in the future, unless she withdraws her consent.

**Intervention Type**

Other

**Primary outcome measure**

The occurrence of mid-trimester pregnancy loss or preterm birth (PTB) before 37 weeks' gestation

**Secondary outcome measures**

The secondary outcomes that relate to all sub-studies are listed below:

1. Preterm birth before 30 and 34 weeks
2. Mid-trimester loss (14-23 weeks)

3. Gestation at birth
4. Onset of labour (e.g. spontaneous, induced, pre-labour CS)
5. Preterm intervention use (e.g. cerclage, progesterone, vaginal pessary)
6. Antenatal corticosteroid use for fetal lung maturation
7. Magnesium sulphate use for fetal neuroprotection
8. In-utero transfer (for neonatal cot availability)
9. Admission to intensive care unit (mother and neonate)
10. Length of hospital stay (mother and neonate)
11. Infection (mother and neonate)
12. Perinatal death (i.e. stillbirth or neonatal death)
13. Maternal death

Sub-study 1: results of asymptomatic urine screening (dipstick or culture) at booking or first appointment when this is carried out in pregnancy; results of any subsequent urine culture for suspicion of urinary tract infection, with symptoms and treatments will be recorded. This could be at any timepoint in the participant's pregnancy.

Sub-study 2: caesarean section scar characteristics (if seen on transvaginal ultrasound scan) including distance from internal os and dimensions of niche, if observed, will be recorded. This could be at any timepoint in the participant's pregnancy.

Sub-study 3: mental wellbeing will be measured using the validated instruments PHQ9, GAD7, PROMIS-10, at all preterm clinic appointments. This could be at any timepoint in the participant's pregnancy.

Sub-study 4: results of any preterm birth prediction test (including, but not restricted to: vaginal swab tests, such as Actim Partus, transvaginal ultrasound for measurement of cervical length, cervical stiffness measured using the Pregnolia device). This could be at any timepoint in the participant's pregnancy.

### **Overall study start date**

29/04/2024

### **Completion date**

31/03/2028

## **Eligibility**

### **Key inclusion criteria**

Pregnant women will be eligible for the programme if they:

1. Have risk factors for preterm birth: previous preterm or mid-trimester loss, history of invasive cervical surgery, history of in-labour caesarean section, uterine anomaly, any other factor considered a risk factor for preterm birth by clinical expertise or national guidelines, or
2. Are experiencing symptoms of threatened preterm labour
3. Are eligible for at least one of the sub-studies as defined in protocol appendices 21.1-4
4. Are willing and able to give informed consent
5. Are aged 16 years or above

### **Participant type(s)**

Patient, Service user

**Age group**

Adult

**Lower age limit**

0 Years

**Upper age limit**

70 Years

**Sex**

Female

**Target number of participants**

13027

**Key exclusion criteria**

1. Under 16 years old
2. Unwilling to give informed consent

**Date of first enrolment**

22/09/2025

**Date of final enrolment**

31/03/2028

**Locations****Countries of recruitment**

England

Northern Ireland

Scotland

United Kingdom

Wales

**Study participating centre**

Guy's and St Thomas' NHS Foundation Trust

St Thomas' Hospital

Westminster Bridge Road

London

United Kingdom

SE1 7EH

**Study participating centre**

**University College Hospital Elizabeth Garrett Anderson Wing**  
235 Euston Road  
London  
United Kingdom  
NW1 2BU

**Study participating centre**  
**Doncaster and Bassetlaw Teaching Hospitals NHS Foundation Trust**  
Doncaster Royal Infirmary  
Armthorpe Road  
Doncaster  
United Kingdom  
DN2 5LT

**Study participating centre**  
**Barts Health NHS Trust**  
The Royal London Hospital  
80 Newark Street  
London  
United Kingdom  
E1 2ES

**Study participating centre**  
**University Hospitals Bristol and Weston NHS Foundation Trust**  
Trust Headquarters  
Marlborough Street  
Bristol  
United Kingdom  
BS1 3NU

**Study participating centre**  
**University Hospitals Coventry and Warwickshire NHS Trust**  
Walsgrave General Hospital  
Clifford Bridge Road  
Coventry  
United Kingdom  
CV2 2DX

**Study participating centre**  
**University Hospitals Dorset NHS Foundation Trust**  
Management Offices

Poole Hospital  
Longfleet Road  
Poole  
United Kingdom  
BH15 2JB

**Study participating centre**  
**Royal Free London NHS Foundation Trust**  
Royal Free Hospital  
Pond Street  
London  
United Kingdom  
NW3 2QG

**Study participating centre**  
**Manchester University Hospital NHS Ft (hq)**  
Oxford Road  
Manchester  
United Kingdom  
M13 9WL

**Study participating centre**  
**Swansea Bay University Local Health Board**  
Tonna Hospital  
Tonna Uchaf  
Tonna  
Neath  
United Kingdom  
SA11 3LX

**Study participating centre**  
**Chelsea and Westminster Hospital NHS Foundation Trust**  
Chelsea & Westminster Hospital  
369 Fulham Road  
London  
United Kingdom  
SW10 9NH

**Study participating centre**  
**Bolton NHS Foundation Trust**  
The Royal Bolton Hospital



Minerva Road  
Farnworth  
Bolton  
United Kingdom  
BL4 0JR

**Study participating centre**  
**Birmingham Women's and Children's NHS Foundation Trust**  
Steelhouse Lane  
Birmingham  
United Kingdom  
B4 6NH

**Study participating centre**  
**Leeds Teaching Hospitals NHS Trust**  
St. James's University Hospital  
Beckett Street  
Leeds  
United Kingdom  
LS9 7TF

**Study participating centre**  
**Belfast Health and Social Care Trust**  
Trust Headquarters  
A Floor - Belfast City Hospital  
Lisburn Road  
Belfast  
United Kingdom  
BT9 7AB

**Study participating centre**  
**East Sussex Healthcare NHS Trust Hq**  
St. Annes House  
729 the Ridge  
St. Leonards-on-sea  
United Kingdom  
TN37 7PT

**Study participating centre**  
**Fife**  
Victoria Hospital

Hayfield Road  
Kirkcaldy  
United Kingdom  
KY2 5AH

**Study participating centre**  
**Liverpool Women's NHS Foundation Trust**  
Liverpool Womens Hospital  
Crown Street  
Liverpool  
United Kingdom  
L8 7SS

**Study participating centre**  
**Countess of Chester Hospital NHS Foundation Trust**  
Countess of Chester Health Park  
Liverpool Road  
Chester  
United Kingdom  
CH2 1UL

**Study participating centre**  
**Northern Care Alliance NHS Foundation Trust**  
Salford Royal  
Stott Lane  
Salford  
United Kingdom  
M6 8HD

**Study participating centre**  
**East Kent Hospitals University NHS Foundation Trust**  
Kent & Canterbury Hospital  
Ethelbert Road  
Canterbury  
United Kingdom  
CT1 3NG

**Study participating centre**  
**Hull University Teaching Hospitals NHS Trust**  
Hull Royal Infirmary  
Anlaby Road

Hull  
United Kingdom  
HU3 2JZ

**Study participating centre**  
**University Hospitals Birmingham NHS Foundation Trust**  
Queen Elizabeth Hospital  
Mindelsohn Way  
Edgbaston  
Birmingham  
United Kingdom  
B15 2GW

**Study participating centre**  
**Somerset NHS Foundation Trust**  
Trust Management  
Lydeard House  
Musgrove Park Hospital  
Taunton  
United Kingdom  
TA1 5DA

**Study participating centre**  
**Cambridge University Hospitals NHS Foundation Trust**  
Cambridge Biomedical Campus  
Hills Road  
Cambridge  
United Kingdom  
CB2 0QQ

**Study participating centre**  
**James Paget University Hospitals NHS Foundation Trust**  
Lowestoft Road  
Gorleston  
Great Yarmouth  
United Kingdom  
NR31 6LA

**Study participating centre**  
**York and Scarborough Teaching Hospitals NHS Foundation Trust**  
York Hospital

Wigginton Road  
York  
United Kingdom  
YO31 8HE

**Study participating centre**  
**Lewisham and Greenwich NHS Trust**  
University Hospital Lewisham  
Lewisham High Street  
London  
United Kingdom  
SE13 6LH

**Study participating centre**  
**North Cumbria Integrated Care NHS Foundation Trust**  
Pillars Building  
Cumberland Infirmary  
Infirmary Street  
Carlisle  
United Kingdom  
CA2 7HY

## **Sponsor information**

**Organisation**  
King's College London

**Sponsor details**  
Room 8.11, 8th Floor  
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WC2B 4LL  
+44 (0)2078487306  
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**Sponsor type**  
University/education

**Website**  
kcl.ac.uk

**Organisation**

Guy's & St Thomas' NHS Foundation Trust

**Sponsor details**

R&D Office

16th Floor Tower Block

Guy's Hospital

London

England

United Kingdom

SE1 9RT

+44 (0)20 7188 7188, ext 54426

gstt.randd@nhs.net

**Sponsor type**

Hospital/treatment centre

**Website**

<https://www.guysandstthomas.nhs.uk/>

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

Charity

**Funder Name**

Tommy's

**Results and Publications****Publication and dissemination plan**

Findings will be shared through medical literature, as well as the wider media and PPI social networks, and ultimately will inform further research and national clinical guidelines.

**Intention to publish date**

31/03/2029

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

The datasets generated during and/or analysed during the current study will be available upon request.

Where participants have explicitly consented to their data being shared for future research purposes, anonymised data may be shared with third party researchers subject to review and

approval of the Preterm Clinical Network (PCN) Database Access Committee. This committee comprises clinical preterm birth expert members of the UK Preterm Clinical Network and a patient representative with lived experience. The committee is governed by procedures stipulated in the PCN Database protocol and approved by Research Ethics Committee (REC 22/ES/0001; IRAS 308157). These include submission of detailed application form by third party researchers and committee review of research team and project. If approved, anonymised data is transferred by secure means following execution of data sharing agreements between parties (i.e. KCL, researcher institution and contributing Data Collection Centres).

### **IPD sharing plan summary**

Available on request