# Catch-up screen project: A urine test for cervical screening

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		☐ Protocol		
Registration date 31/01/2023	Overall study status Ongoing	Statistical analysis plan		
		Results		
<b>Last Edited</b> 01/02/2023	<b>Condition category</b> Cancer	Individual participant data		
		Record updated in last year		

### Plain English summary of protocol

Background and Study Aims

Human Papillomavirus (HPV) is known to cause almost all cervical cancers, so testing for HPV is the most effective way to identify women at risk of developing cervical cancer. Since 2019, the NHS Cervical Screening Programme (NHS CSP) has offered primary HPV testing to women aged 25-64 years. Women who have an HPV test before they stop screening are at a very low risk of developing cervical cancer. The "Catch-up Screen" project aims to screen at least 10,000 women aged 60-79 from selected GP practices across the Hull and Manchester areas. The women should have exited the NHS Cervical Screening Programme without a primary HPV test. This includes women who had their last screening invitation before the introduction of primary HPV testing in 2019 and women who did not attend their last test after 2019. Unlike traditional screening, which can sometimes be painful or embarrassing, Catch-up Screen involves women providing a urine sample from the privacy of their home. Urine testing has been shown to be as good as traditional smear tests taken by a nurse for the purpose of HPV testing. It is hoped that urine testing will encourage women who were not screened regularly to become engaged. The aim of this 3-year project is to measure response rates, HPV prevalence and histological outcomes to estimate the likely impact on cervical cancer incidence and mortality of a nationwide catch-up screen programme.

### Who can participate?

Women aged between 60-79 years old who are no longer being invited for cervical screening as part of the NHS programme

### What does the study involve?

Women will be sent a pre-invitation letter and information leaflet prior to receiving a urine sampling kit by post, for them to provide a first void urine sample from home. They will also be asked to complete a short feedback form to find out how they found using the urine kit. Samples will be posted back to the laboratory and tested for HPV. HPV-negative women will receive a letter with their test results, explaining that their future risk of cervical cancer is extremely low. They will not need any further tests. HPV-positive women will be offered a hospital outpatient appointment with a gynaecologist. During this appointment, the

gynaecologist will take a close look at the cervix (this is called a colposcopy) and offer the woman a smear test to check for abnormal cells. If any abnormal cells are found, they can be removed.

What are the possible benefits and risks of participating?

The benefit of taking part is receiving an additional cervical screen which would not usually be offered by the NHS. For most women, who will test negative for HPV, the benefit is the reassurance that they are at very low risk of developing cervical cancer in the future. For those who test HPV positive, the benefit is that cervical cancer can be prevented by identifying and treating abnormal cells. The results will also help the NHS to decide whether a catch-up urine test should be offered to all women in their 60s and 70s.

There are no foreseen disadvantages or risks of taking part. Some people may feel anxious while awaiting results, but most results will be normal. Untreated HPV infections can cause abnormal cells that sometimes if left untreated, progress to cervical cancer. It is therefore important that HPV-positive women attend their hospital appointment because failure to do so puts them at increased risk of future cervical cancer.

Where is the study run from? Participating GP Practices in the UK

When is the study starting and how long is it expected to run for? April 2023 to March 2027

Who is funding the study? Yorkshire Cancer Research (UK)

Who is the main contact?

- 1. Christine Rake (public), christine.rake@lshtm.ac.uk
- 2. Clare Gilham (scientific), clare.gilham@lshtm.ac.uk

# Contact information

# Type(s)

Principal investigator

#### Contact name

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# Type(s)

#### **Public**

### Contact name

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# Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### **Integrated Research Application System (IRAS)**

320240

## ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

2022-KEP-893, IRAS 320240, CPMS 54834

# Study information

### Scientific Title

Catch-Up Screen Project (CUSP): A urine test for cervical screening

### **Acronym**

**CUSP** 

### Study objectives

To measure response rates, HPV prevalence and histological outcomes among older women offered a catch-up HPV screen via home urine sampling in order to estimate the likely impact on cervical cancer incidence and mortality of nationwide introduction.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Approved 16/01/2023, London-Chelsea Research Ethics Committee (Board Room, Royal Marsden Hospital, The Royal Marsden NHS Foundation Trust, Fulham Road, SW3 6JJ, UK; +44 (0)207 104 8029 / (0)20 7104 8064 / (0)207 104 8356; chelsea.rec@hra.nhs.uk), ref: 22/LO/0854

### Study design

Multicentre interventional clinical study

### Primary study design

Interventional

### Study type(s)

Screening

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

Screening for cervical pre-cancer

#### **Interventions**

This is a one-arm study. The "Catch-up Screen" project will offer the identification of cervical precancer using a catch-up HPV test from a urine self-sample taken at home by women aged 60-79 who have ceased the NHS Cervical Screening Programme without a primary HPV test. This includes women who had their last screening invitation before the introduction of primary HPV testing in 2019 and women who did not attend their last test after 2019.

All participants will be provided with an at-home urine sampling kit (a Colli-Pee device) which reliably collects a standardised volume of first void urine (10ml) for the purpose of HPV testing. Willing participants will post their urine samples back to the laboratory, where they will be tested for HPV. Because HPV is known to cause almost all cervical cancers, testing for HPV will identify women at risk of developing cervical cancer. Unlike traditional screening, which can sometimes be painful or embarrassing, Catch-up Screen offers women the opportunity to provide a urine sample from the privacy of their home for the purpose of detecting the presence of HPV. It is hoped that this will encourage women who were not screened regularly to take part. Women testing HPV positive will be referred for further tests and treatment if necessary. HPV-negative women will receive a letter with their test results, explaining that their future risk of cervical cancer is extremely low. They will not need any further tests. HPV-positive women will be offered a hospital outpatient appointment with a gynaecologist and followed up according to NHS guidelines.

The catch-up screen aims to screen at least 10,000 women across the Hull and Manchester areas via GP practices. In the first year, the feasibility phase, 3,000 women will be invited to test the methodology and determine the uptake, and the second stage will be a wider roll-out inviting about 15,000 women to estimate the rates of pre-cancer detection and cancer prevention. Response rates will be compared among women who receive a phone call from their GP surgery versus those who receive a text message after a study invitation.

Uptake rates, HPV prevalence and diagnoses of pre-cancer and cancer (through linkage to national cancer and death registrations) will aim to discover if at-home urine tests are an effective way to reduce cervical cancer in this older age group.

# Intervention Type

Other

### Primary outcome(s)

- 1. Response rate measured as the number of urine samples received divided by the number of eligible women invited at the end of the recruitment period
- 2. Ease of performing urine test (acceptability) as measured on the feedback form at the time of consent
- 3. Preference of urine versus cervical test (acceptability) as measured on the feedback form at the time of consent
- 4. Colposcopy and histological diagnoses measured using patient records following colposcopy and histology as necessary
- 5. Cumulative cervical cancer incidence and mortality measured using the national registration at 10 years and 20 years

### Key secondary outcome(s))

- 1. High Risk HPV prevalence measured using the proportion of urine samples testing HPV positive using the BD Onclarity assay at the end of the recruitment period
- 2. Measure the impact on response rates (as defined in primary outcome measure 1 above) of a follow-up phone call versus text message from the GP practice after the initial invitation

### Completion date

31/03/2027

# **Eligibility**

### Key inclusion criteria

- 1. Female or person with a cervix who is registered with GP practice
- 2. Ceased from the NHS Cervical Screening Programme without an exit primary HPV test
- 3. Aged 60-79 years at invitation

## Participant type(s)

All

# Healthy volunteers allowed

No

# Age group

Senior

# Lower age limit

60 years

# Upper age limit

79 years

#### Sex

Female

# Key exclusion criteria

- 1. Previous total hysterectomy
- 2. Unable to provide a urine sample
- 3. Unable to understand the Patient Information Sheet and consent form

- 4. Any condition that would compromise participant safety or data integrity
- 5. Those who have opted out of sharing data for research purposes (this includes Type 1 and Type 2/National opt-out)

### Date of first enrolment

01/04/2023

### Date of final enrolment

31/03/2026

# Locations

### Countries of recruitment

**United Kingdom** 

England

# Study participating centre

GP practices from Hull and Manchester - not yet finalised

United Kingdom

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# Sponsor information

### Organisation

London School of Hygiene & Tropical Medicine

### **ROR**

https://ror.org/00a0jsq62

# Funder(s)

# Funder type

Charity

### **Funder Name**

Yorkshire Cancer Research

### Alternative Name(s)

# **Funding Body Type**

Private sector organisation

# Funding Body Subtype

Other non-profit organizations

### Location

**United Kingdom** 

# **Results and Publications**

# Individual participant data (IPD) sharing plan

The datasets generated and analysed during the current study are not expected to be shared because NHS Digital will not permit this data to be shared.

# IPD sharing plan summary

Not expected to be made available

# **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
HRA research summary			28/06/2023	No	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes