

Collection of cervical cells at colposcopy using a novel technique for analysis of high-risk vs low-risk lesions

Submission date 07/04/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 14/09/2021	Overall study status Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 22/05/2025	Condition category Cancer	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

The aim of this study is to improve the collection and analysis of cells taken from the surface of the cervix (neck of the womb) in order to more accurately identify cervical disease when it is present.

Who can participate?

Women aged 25 to 65 years with screen-detected abnormal cervical cytology varying from mild dyskaryosis to severe dyskaryosis (change of appearance in cells that cover the surface of the cervix)

What does the study involve?

Cells taken from the surface of the cervix are currently sampled using a cytobrush or spatula as part of the cervical smear test. This approach scrapes and/or scarifies the surface of the cervix and harvests a mixture of cells from the superficial to mid epithelial layers. The researchers propose a modified approach in which cells are taken from the surface of the cervix using a 'filter paper disk of nylon or cellulose. In the modified approach, the disk of nylon or cellulose will be gently pressed onto the surface of the cervix in order to lift off a layer of exfoliating surface cells. The morphology (shape, structure, form, and size) of the surface cells is indicative of underlying cervical disease, and this can then be assessed by cytological analysis.

What are the possible benefits and risks of participating?

There are no immediate clinical benefits in this study but the information obtained could be used to better inform which women may need treatment in the future. Apart from a slightly longer procedure (less than 5 minutes), there are no risks in taking part.

Where is the study run from?

Addenbrookes Hospital (UK)

When is the study starting and how long is it expected to run for?

June 2017 to March 2026

Who is funding the study?
Cancer Research UK

Who is the main contact?
Dr Robin Crawford, robin.crawford@nhs.net

Contact information

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Scientific

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

Integrated Research Application System (IRAS)

224794

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

CPMS 44798, IRAS 224794

Study information

Scientific Title

Collection of cervical cells at colposcopy using a novel technique for analysis of high-risk vs low-risk lesions

Acronym

CCL Cancer cell lift

Study objectives

The aim of the project is to improve the collection and analysis of cells taken from the surface of the cervix in order to identify more accurately high-risk cervical pathology when it is present. Patients attending colposcopy who are undergoing assessment for an abnormal smear will be asked to take part. At the start of the examination, a photograph of the cervix will be taken. Then a disc of material (nitrocellulose) designed to collect cells will be applied to the cervix for 15 seconds and then removed and fixed for analysis. There are a number of potential advantages:

1. Reduced need for biopsy
2. Aid localisation of high-risk vs low-risk lesions
3. Ultimately lead to more patient-focused treatment with a reduction in the need for Loop treatments and thus reducing the morbidity associated with this

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 04/05/2017, Oxford B Ethics Committee, South Central Region (South Central – Oxford B Research Ethics Committee, Whitefriars, Level 3, Block B, Lewin's Mead, Bristol, BS1 2NT, UK; +44 (0)207 104 8046; oxfordb.rec@hra.nhs.uk), REC ref: 17/SC/02

Study design

Non-randomized; Both; Design type: Screening, Active Monitoring, Clinical Laboratory Study

Primary study design

Interventional

Study type(s)

Diagnostic

Health condition(s) or problem(s) studied

Cervical cancer

Interventions

The patient will be invited to take part in the study. The woman will have been informed that there is an active research programme in the colposcopy clinic. Following consent with the study nurse, the patient will discuss her case with the colposcopist.

When the woman is ready for the colposcopy, a digital photograph of the cervix will be taken after the removal of the cervical mucus with a cotton bud (takes less than 10 seconds the system is set up to take colpophotographs). The filter disc is applied to the surface of the cervix for 15 seconds with mild pressure (no discomfort for the patient). The disc is removed and stored in transport medium. The standard colposcopic examination then begins with the application of an acetic acid solution. A further colpophotograph is taken. Biopsies or treatment as per the underlying disease are performed as required. Correlation between the two photographs, the colposcopist's opinion and the histology will be made with the disc. The researchers aim to recruit 2-3 patients per week and aim for a mixture of patients with referral for high-grade and low-grade abnormalities.

Intervention Type

Other

Primary outcome(s)

Correlation between high-risk and low-risk cervical disease identified using the filter disc and by the standard method

Key secondary outcome(s)

There are no secondary outcome measures

Completion date

31/03/2026

Eligibility

Key inclusion criteria

1. Participant is willing and able to give informed consent for participation in the study
- 2, Female, aged 25 years or above
3. Diagnosed with abnormal cervical cytology by routine screening

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

25 years

Sex

Female

Total final enrolment

764

Key exclusion criteria

1. Participant is unable to give consent
2. Pregnant
3. HIV/systemic Immunosuppression

Date of first enrolment

12/10/2017

Date of final enrolment

30/04/2022

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

Addenbrookes Hospital

Hills Road

Cambridge

United Kingdom

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Sponsor information**Organisation**

Cambridge University Hospitals NHS Foundation Trust

ROR

<https://ror.org/04v54gj93>

Funder(s)**Funder type**

Charity

Funder Name

Cancer Research UK; Grant Codes: C25663/A28754

Alternative Name(s)

CR_UK, Cancer Research UK - London, Cancer Research UK (CRUK), CRUK

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 data-sharing plans for the current study are unknown and will be made available at a later date.

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?
HRA research summary			28/06/2023	No	No
Protocol file	version 7	21/02/2022	11/04/2022	No	No