

# ColoVision: Using computers to instantly find and describe colorectal polyps

<b>Submission date</b> 30/01/2023	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 31/08/2023	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 31/08/2023	<b>Condition category</b> Digestive System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Colorectal cancer is a major health problem. Most colorectal cancers develop from precursor lesions (polyps), and early detection and removal of these polyps can reduce rate and improve outcome of colorectal cancer.

Colonoscopy is the gold standard test to detect and remove polyps, however it has some limitations including a significant polyp miss rate.

Computer aided detection (CAdE) and diagnosis (CAdx) of polyps is rapidly progressing and recent studies have shown promising results. However, there is still lack of high-quality data from well-designed and implemented randomised trials and hence the need for this study.

This is an investigator-initiated multi-centre randomised controlled trial aiming to investigate how an approved and CE marked CAdE device can support endoscopists on detection and diagnosis of colorectal polyps.

### Who can participate?

Adults over 18 years who are undergoing a colonoscopy.

### What does the study involve?

You will be allocated to have either a standard colonoscopy or a colonoscopy using the WISE VISION device.

Participants will not be able to choose which of these options they have. Instead, participants will be randomly assigned to one or the other. This is to make the trial fair and enable us to compare the two options accurately.

If participants are allocated to standard colonoscopy, participants will undergo the procedure in the usual way. If participants are allocated to colonoscopy with the use of the WISE VISION (CAD) device participants will still undergo a standard colonoscopy, as per usual, but there will also be an additional screen and computer programme used, during the procedure, to help us identify polyps. You do not have to undergo any additional or extra procedures to what would

usually be needed. In both groups, the participant's endoscopist will examine possible polyps and use their clinical judgement to decide on the appropriate treatment and management. The WISE VISION (CAD) device will not replace human assessment or alter any decision making during the participant's procedure.

What are the possible benefits and risks of participating?  
This study will have no direct benefit to participants.  
There are no additional risks of taking part in this study.

Where is the study run from?  
Portsmouth Hospitals NHS Trust (UK)

When is the study starting and how long is it expected to run for?  
November 2022 to December 2024

Who is funding the study?  
NEC Corporation (Japan)

Who is the main contact?  
Katie.siggens@porthosp.nhs.uk

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Integrated Research Application System (IRAS)

313559

### ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

CPMS 54150, IRAS 313559

## Study information

### Scientific Title

Real time computer aided detection and characterisation of colorectal polyps; a prospective multi-centre randomised controlled superiority trial (ColoVision)

### Acronym

ColoVision

### Study objectives

The CAD device used in this study (WISE VISION®) can significantly improve endoscopists' adenoma detection rate (ADR) as well as their real time optical diagnosis to reach PIVI threshold of 90% NPV, compared to endoscopists not using the CAD device.

### Ethics approval required

Ethics approval required

### Ethics approval(s)

approved 29/11/2022, London - Bloomsbury Research Ethics Committee (HRA RES Centre Manchester, 3rd Floor, Barlow House, 4 Minshull Street, Manchester, M1 3DZ, United Kingdom; +44 2071048272; bloomsbury.rec@hra.nhs.uk), ref: 22/PR/1174

### Study design

Interventional randomized controlled trial

### Primary study design

Interventional

### Study type(s)

Diagnostic

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

Detection and diagnosis of colorectal polyps

**Interventions**

Participants will be randomised to either standard colonoscopy or standard colonoscopy with CAD support. The addition of the CAD system means an extra screen will be in the endoscopy suite. There is no additional procedure or follow up for participants. Participants will undergo their colonoscopy and the number of polyps detected in each group will be recorded. Additional information regarding diagnosis (assessment of size, shape and type of polyp by both the endoscopist and the CADx system) will also be assessed. Polyps which are identified will be assessed and managed according to standard care.

**Intervention Type**

Device

**Phase**

Not Applicable

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

CAD system

**Primary outcome(s)**

Adenoma detection rate in both groups. PIVI-2: NPV of adenoma diagnosis in diminutive (<5mm) rectosigmoid polyps in both groups measured during procedure

**Key secondary outcome(s))**

There are no secondary outcome measures

**Completion date**

08/12/2024

**Eligibility****Key inclusion criteria**

1. Adults over 18 years who are undergoing a colonoscopy
2. Able to give informed consent

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Pregnant patients
2. Poor bowel preparation
3. Polyposis syndrome
4. Inflammatory bowel conditions
5. Incomplete colonoscopy

**Date of first enrolment**

08/02/2023

**Date of final enrolment**

08/06/2024

## **Locations**

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Worthing Hospital**

Lyndhurst Road  
Worthing  
United Kingdom  
BN11 2DH

**Study participating centre**

**St Georges Hospital (wandle Annexe)**

St. Georges Hospital  
Blackshaw Road  
Tooting  
London  
United Kingdom  
SW17 0QT

**Study participating centre**

**King's College Hospital**

Denmark Hill  
London  
United Kingdom  
SE5 9RS

**Study participating centre**  
**Queen Alexandras Hospital**  
Southwick Hill Road  
Cosham  
Portsmouth  
United Kingdom  
PO6 3LY

## Sponsor information

**Organisation**  
Portsmouth Hospitals NHS Trust

**ROR**  
<https://ror.org/009fk3b63>

## Funder(s)

**Funder type**  
Industry

**Funder Name**  
NEC Corporation

**Alternative Name(s)**

**Funding Body Type**  
Private sector organisation

**Funding Body Subtype**  
For-profit companies (industry)

**Location**  
Japan

## Results and Publications

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

The current data sharing plans for this study are unknown and will be 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?
<a href="#">Participant information sheet</a>	version 1.1	01/11/2022	08/06/2023	No	Yes
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Protocol file</a>	version 1.0	18/08/2022	08/06/2023	No	No