

# Validation of a novel porcine polypectomy trainer

<b>Submission date</b> 26/10/2011	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 10/02/2012	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 24/01/2020	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

Background and study aims:

The WIMAT colonoscopy suitcase is a simulator designed to teach trainee doctors how to perform colonic polypectomy (the removal of polyps in the colon to prevent them from turning cancerous). The Simbionix GI Mentor™ is a Virtual Reality (VR) simulator that is also used to teach colonic polypectomy. Evidence suggests that those who train on the Simbionix GI Mentor perform better in the early phase of real colonoscopy training. However, this type of skills transfer has not been previously demonstrated for the WIMAT colonoscopy suitcase. The aims of this study are to assess whether using the WIMAT colonoscopy simulator results in skills transfer to the clinical setting, and to compare the level of skills transfer attained using the two simulators.

Who can participate?

ST3-7 level trainees in General Surgery or Gastroenterology who have performed 1-20 'real life' endoscopic procedures and less than five colonic polypectomies.

What does the study involve?

Participants are randomly allocated to either WIMAT colonoscopy suitcase training or VR training. They attend 3 (1 hour) sessions of standardised self-directed learning on their assigned simulator over 3 weeks (one per week). The skills of the two groups are compared after 3 and 6 months.

What are the possible benefits and risks of participating?

Improved training in colonic polypectomy may improve patient outcomes.

Where is the study run from?

Welsh Institute for Minimal Access Therapy (UK)

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

December 2011 to August 2013

Who is funding the study?

Royal College of Surgeons of England (UK)

Who is the main contact?  
James Ansell

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Mr James Ansell

**Contact details**  
Welsh Institute for Minimal Access Therapy (WIMAT)  
Cardiff Medicentre  
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## Additional identifiers

**Protocol serial number**  
Awaiting

## Study information

**Scientific Title**  
Validation of a novel porcine polypectomy trainer: a randomised controlled validation study

**Study objectives**  
Can a novel colonic polypectomy simulator develop transfer skills for use in colonoscopy?

**Ethics approval required**  
Old ethics approval format

**Ethics approval(s)**  
Not provided at time of registration

**Study design**  
Randomised controlled validation study

**Primary study design**  
Interventional

**Study type(s)**  
Treatment

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

## **Interventions**

The cohort of trainees are divided into groups according to their previous experience in colonoscopy. Then their videoed performance will be measured on the colonoscopy trainer. This will tell us if the trainer is able to distinguish between levels of expertise.

The most novice group is randomised into two further groups. One will receive simulator training and the other standard training. The skills of each group will be compared to evaluate the overall use of the course in training.

## **Intervention Type**

Procedure/Surgery

## **Phase**

Not Applicable

## **Primary outcome(s)**

Transfer of skills

## **Key secondary outcome(s)**

Performance indicators

## **Completion date**

01/08/2013

## **Eligibility**

### **Key inclusion criteria**

1. Trainees specialising in general surgery or gastroenterology
2. Consultant colorectal surgeons and gastroenterologists

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

Patient

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Sex**

All

### **Total final enrolment**

20

### **Key exclusion criteria**

1. Any trainee who has performed more than 5 previous colonic polypectomies
2. Any trainee who has observed or taught on the advanced colonoscopy course at WIMAT

### **Date of first enrolment**

01/12/2011

**Date of final enrolment**

01/08/2013

## Locations

**Countries of recruitment**

United Kingdom

Wales

**Study participating centre**

**Welsh Institute for Minimal Access Therapy (WIMAT)**

Cardiff

United Kingdom

CF14 4XN

## Sponsor information

**Organisation**

Welsh Institute for Minimal Access Therapy (WIMAT), Cardiff University

**ROR**

<https://ror.org/03kk7td41>

## Funder(s)

**Funder type**

Research organisation

**Funder Name**

Royal College of Surgeons of England (UK)

**Alternative Name(s)**

RCS England, RCS ENG, The Royal College of Surgeons of England, RCS

**Funding Body Type**

Private sector organisation

**Funding Body Subtype**

Universities (academic only)

**Location**

United Kingdom

**Results and Publications**

Individual participant data (IPD) sharing plan

IPD sharing plan summary