# Stimulation of pudendal nerve for management of adult faecal incontinence using key hole surgery

Submission date	Recruitment status No longer recruiting	[X] Prospectively registered		
20/04/2016		☐ Protocol		
Registration date 20/04/2016	Overall study status Completed	Statistical analysis plan		
		Results		
<b>Last Edited</b> 05/09/2016	<b>Condition category</b> Signs and Symptoms	Individual participant data		
		<ul><li>Record updated in last year</li></ul>		

# Plain English summary of protocol

Background and study aims

Faecal incontinence is the inability to control bowel movement, causing leakage of bowel contents from the back passage. It affects between 1-10% of adults, with 0.5-1% experiencing regular faecal incontinence episodes that affect their quality of life. It is more common in women and with advancing age. This study aims to manage and improve adult faecal incontinence by stimulating the pudendal nerve which controls the anal sphincter (back passage).

## Who can participate?

Patients aged 18 or over who have experienced moderate to severe symptoms of faecal incontinence for more than 6 months and have not responded to conservative treatments

# What does the study involve?

The procedure involves placing an electrode (thin wire) on to the pudendal nerve laparoscopically (keyhole surgery) under general anaesthesia. The wire is then connected to a small temporary battery taped to the lower back of the participant. Regular and gentle electrical pulses are passed along the wire from the battery to stimulate the nerve. During the test period of 2 weeks, the effectiveness of the procedure is measured using a specially designed questionnaire to assess faecal incontinence and quality of life.

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

This procedure aims to improve the symptoms of faecal incontinence and quality of life. It provides an alternative option for those patients who have failed to improve with conservative management and SNS (currently the preferred and approved surgical management of faecal incontinence). General complications include: heart and lung complications, temporary urinary retention (inability to pass urine), and deep vein thrombosis (blood clots). Complications related to the general anaesthetic include: wound infection and haematoma (collection of blood), haemorrhage (bleeding more than anticipated), failure of surgical equipment, and injury to other organs in the pelvis. Device-related complications include: failed implant procedure, wound infection, electrode (lead) dislodgement, lead migration/fragmentation (movement of lead), neurological pains in the legs, perineum and vagina, pain at the battery site due to non-infective

cause such as battery rotation, and lack or loss of effectiveness (reduced or lost response after operation).

Where is the study run from? St James's University Hospital (UK)

When is the study starting and how long is it expected to run for? September 2016 to September 2017

Who is funding the study? Investigator initiated and funded

Who is the main contact? Mr Ibrahim Eltilib i.eltilib@nhs.net

# Contact information

# Type(s)

Scientific

### Contact name

Mr Sushil Maslekar

# Contact details

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# Additional identifiers

# Protocol serial number

N/A

# Study information

### Scientific Title

Laparoscopic trans-peritoneal pudendal nerve stimulation for management of faecal incontinence in adults

# **Study objectives**

Pudendal nerve stimulation is effective for management of faecal incontinence.

# Ethics approval required

Old ethics approval format

# Ethics approval(s)

REC2 East of Scotland, 02/09/2016, ref: 16/ES/0088

# Study design

Prospective UK single-site feasibility study

# Primary study design

Interventional

# Study type(s)

Treatment

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

Faecal incontinence

### Interventions

The procedure involves placing an electrode (thin wire) on to the pudendal nerve laparoscopically (key hole surgery) under general anaesthesia. The wire is then connected to a small temporary battery taped to the lower back of participant. Regular and gentle electrical pulses are passed along the wire from the battery to stimulate the nerve. During the test period which is 2 weeks, the effectiveness of the procedure will be measured using a specially designed questionnaires to assess faecal incontinence and quality of life. All procedures will be carried out by the investigating team at St James's University Hospital.

# Intervention Type

Procedure/Surgery

# Primary outcome(s)

- 1. Short-term safety and efficacy (Cleveland Clinic Incontinence Score (CCIS))
- 2. Impact on Quality of Life (QoL)

Measured prior to the surgery and 2 weeks after surgery.

# Key secondary outcome(s))

- 1. Difference in the percentage of successes, as defined by the device in use and ≥ 50% improvement in the Cleveland Clinic Incontinence Score (CCIS), between pre-operative and 2 weeks post intervention
- 2. The safety of pudendal nerve stimulation as judged by explant rates and operative and postoperative complications
- 3. The effect on disease-specific QoL (Faecal Incontinence Quality of life Score (FiQol)) and overall QoL (SF-12 score)

# Completion date

01/09/2017

# **Eligibility**

# Key inclusion criteria

1. Patients with moderate to severe faecal incontinence for more than 6 months and suffering ≥ two incontinence episodes per week

- 2. Patients should have had a trial of conservative management plus either be suitable for trial of sacral nerve stimulation (SNS) or have had unsuccessful outcome with trial of SNS
- 3. Patients willing to participate in this study
- 4. Age ≥18 years
- 5. Able to provide written and informed consent
- 6. Suitable candidate for surgery
- 7. Able and willing to comply with terms of the protocol including filling in questionnaires

# Participant type(s)

**Patient** 

# Healthy volunteers allowed

No

# Age group

Adult

# Lower age limit

18 years

### Sex

All

# Key exclusion criteria

- 1. Presence of anal sphincter augmentation device i.e. FENIX or ABS
- 2. Chronic gastro-intestinal motility disorder causing incontinence due to diarrhoea
- 3. Active anorectal sepsis or disease such as cancer
- 4. External rectal prolapse
- 5. Pregnancy
- 6. Suspected or known allergy to titanium
- 7. Multiply scarred abdomen precluding laparoscopic surgery

### Date of first enrolment

01/09/2016

## Date of final enrolment

01/09/2017

# Locations

# Countries of recruitment

**United Kingdom** 

England

# Study participating centre St James's University Hospital Rockett Street

Beckett Street Leeds

# Sponsor information

# Organisation

University of Leeds (UK)

### **ROR**

https://ror.org/024mrxd33

# Funder(s)

# Funder type

Other

# Funder Name

Investigator initiated and funded

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Available on request

# **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