

Efficacy of physiotherapy in post-prostatectomy urinary incontinence

Submission date	Recruitment status	<input type="checkbox"/> Prospectively registered
11/01/2017	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
13/01/2017	Completed	<input type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
18/01/2017	Surgery	<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

A radical prostatectomy is an operation to remove the prostate gland in order to remove prostate cancer. The most common side effects of the operation are unintentional passing of urine (urinary incontinence) and problems with getting and keeping an erection (erectile dysfunction). This greatly reduces the patient's quality of life. The aim of this study is to test a physiotherapy program for urinary incontinence three months after radical prostatectomy.

Who can participate?

Men aged over 18 who have undergone a radical prostatectomy and are experiencing incontinence and erectile dysfunction

What does the study involve?

Participants are randomly allocated to one of two groups. One group is treated with biofeedback pelvic floor training, a type of physical therapy that trains the brain and pelvic muscles to work together to tighten and relax the pelvic floor muscles. An anal electrode is used to record the activity of the pelvic floor muscles for 30 minutes. The patients also receive electrical stimulation for 15 minutes. The treatment lasts 45 minutes per day, 3 days per week. At home, patients also train their pelvic muscles through Kegel exercises throughout the day. The other group is treated according to the usual clinical practice, and an information sheet with Kegel exercises is provided after the operation. Both groups are assessed for incontinence, erectile dysfunction and quality of life at the start of the study and after 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months.

What are the possible benefits and risks of participating?

The study will show whether physiotherapy can be used to treat urinary incontinence after prostatectomy. There is currently no standard treatment for this. Participants may benefit from an improvement in their urinary incontinence symptoms. The physiotherapy has no adverse effects. Sometimes it can cause discomfort due to the electrode being in the wrong position, but it can be fixed by adjusting the position of the electrode.

Where is the study run from?

Clínica Mercedes Soto (Spain)

When is the study starting and how long is it expected to run for?
January 2015 to December 2018

Who is funding the study?
Investigator initiated and funded

Who is the main contact?
Dr Mercedes Soto-González
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Contact information

Type(s)

Public

Contact name

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Contact details

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Additional identifiers

Protocol serial number

2016

Study information

Scientific Title

Effectiveness of a physiotherapy program in the treatment of urinary incontinence post-prostatectomy: a randomized controlled trial

Study objectives

The physical therapy program will improve the urinary incontinence in post-prostatectomy patients in three months.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Pontevedra-Vigo-Ourense Research Ethics Committee of the Health Department, 05/11/2014,
ref: 2014/351

Study design

Interventional single-centre randomized controlled clinical trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Post-prostatectomy urinary incontinence

Interventions

Participants are assigned to the control group or intervention group through simple randomization. Doctors, patients and evaluators will not be blinded.

1. Intervention: Biofeedback is used for the pelvic floor training. An anal electrode records the activity of the pelvic floor muscles (30 minutes). Besides, the patients receive electrostimulation during 15 minutes. The treatment (biofeedback + electrostimulation) is 45 minutes per day (3 days per week). At home, patients train their pelvic muscles through Kegel exercises throughout the day.
2. Control: usual clinical practice. An information sheet with Kegel exercises is provided after the operation.

Patients are assessed at baseline, 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months.

Intervention Type

Procedure/Surgery

Primary outcome(s)

Loss of urine, measured using the 24 h Pad test and 1 h Pad test, at baseline, 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months

Key secondary outcome(s)

1. Quality of life and incontinence, measured using the ICIQ-SF questionnaire at baseline, 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months
2. Erectile dysfunction, measured using the International Index of Erectile Function (IIEF-5) at baseline, 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months
3. Life habits, measured using a urinary diary at baseline, 1 month, 2 months, 3 months (end of treatment), 6 months and 12 months

Completion date

31/12/2018

Eligibility

Key inclusion criteria

1. Male patients intervened with radical prostatectomy
2. Incontinence (any loss of urine)

3. Erectile dysfunction, defined as a score under 21 in the International Index of Erectile Function (IIEF-5)
4. Over 18 years old

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Male

Key exclusion criteria

1. Patients with neurological pathology (advanced Parkinson's, multiple sclerosis and disease with deterioration of cognitive or sensitive capacities or that course with muscle weakness)
2. Patients with serious disease processes such cancer, severe epoc, severe pulmonary hypertension
3. Patients with a pacemaker
4. Patients taking muscle relaxing medication
5. Patients with incontinence or erectile dysfunction with a score under 7 in the questionnaire IIEF-5 previous to the intervention

Date of first enrolment

15/02/2015

Date of final enrolment

31/12/2017

Locations

Countries of recruitment

Spain

Study participating centre

Clínica Mercedes Soto

Emilia Pardo Bazán 29 Bajo

Vigo

Spain

36204

Sponsor information

Organisation

University of Vigo

ROR

<https://ror.org/05rdf8595>

Funder(s)

Funder type

Other

Funder Name

Investigator initiated and funded

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Dr Mercedes Soto-González (m.soto@uvigo.es)

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet		12/01/2017	18/01/2017	No	Yes
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes