# Influence of the catheter exit site position on the risk of mechanical and infectious complications and technique survival in peritoneal dialysis patients.

Submission date 02/03/2015	<b>Recruitment status</b> No longer recruiting	<ul> <li>Prospectively registered</li> <li>Protocol</li> </ul>
Registration date 10/03/2015	<b>Overall study status</b> Completed	<ul> <li>Statistical analysis plan</li> <li>Results</li> </ul>
Last Edited 09/03/2015	<b>Condition category</b> Urological and Genital Diseases	<ul> <li>Individual participant data</li> <li>Record updated in last year</li> </ul>

# Plain English summary of protocol

#### Background and study aims

Dialysis is a form of treatment that has been developed to take over the work of the kidney during end-stage kidney failure. It filters the blood, removing harmful waste, excess salt and excess water. There are two types of dialysis: haemodialysis and peritoneal dialysis (PD). Unlike haemodialysis, where the blood is filtered by an artificial membrane outside the body, peritoneal dialysis involves filtering the blood through the peritoneum, a thin membrane lining the outside of the abdominal organs. It works via the running of a dialysis fluid in and out of the peritoneal cavity, through a tube called a Tenckhoff Catheter. In order for the treatment to be successful, it is essential to obtain a continuous and secure access to the peritoneal cavity. Despite improvements in recent years, translocations and infections are still common and are a major cause for morbidity. More than 20% of PD patients need catheter removal and are permanently transferred to haemodialysis. One factor that could affect the incidence of such complications is the position of the exit site in relation to the risk of complications. This study will investigate whether the position of the catheter exit site influences the number of translocations and infections associated with peritoneal dialysis.

Who can participate?

Patients with chronic renal failure, age 18 and over, undergoing PD catheter implantation.

### What does the study involve?

Participants are randomly allocated into one of two groups. Those in group 1 have their catheter implanted with the exit side down. Those in group 2 have their catheter implanted with the exit site up. The patients are then followed for one year and the following outcomes reported: translocations, peritonitis, infections of exit site and permanent transfer to haemodialysis.

What are the possible benefits and risks of participating? Not provided at time of registration Where is the study run from? Nephrology Service of the Hospital das Clinicas de Botucatu – UNESP (Brazil)

When is the study starting and how long is it expected to run for? July 2013 to July 2017

Who is funding the study? Investigator initiated and funded

Who is the main contact? Dr Vanessa Banin

# **Contact information**

**Type(s)** Scientific

**Contact name** Dr Vanessa Banin

**Contact details** Distrito de Rubião Junior Botucatu Brazil 18609363

# Additional identifiers

EudraCT/CTIS number

**IRAS number** 

ClinicalTrials.gov number

Secondary identifying numbers N/A

# Study information

# Scientific Title

Influence of the catheter exit site position on the risk of mechanical and infectious complications and technique survival in peritoneal dialysis patients: a randomised controlled trial

# **Study objectives**

Catheter exit site position influences translocations rate and infectious complications associated with peritoneal dialysis, and also can affect the survival of the method.

# Ethics approval required

Old ethics approval format

**Ethics approval(s)** Local Ethics Committee in research, 06/04/2013

**Study design** Randomised controlled trial

**Primary study design** Interventional

**Secondary study design** Randomised controlled trial

**Study setting(s)** Hospital

Study type(s) Treatment

# Participant information sheet

**Health condition(s) or problem(s) studied** Patients with chronic renal failure over 18 years of age and peritoneal dialysis incidents.

### Interventions

Implant of peritoneal dialysis catheter being executed in two different ways: 1. Catheter implantation with exit site down

2. Catheter implantation with exit site up

Intervention Type

Procedure/Surgery

**Primary outcome measure** Permanent transfer to haemodialysis

### Secondary outcome measures

- 1. Translocations
- 2. Peritonitis
- 3. Infections of exit site

Overall study start date

01/07/2013

**Completion date** 01/07/2017

# Eligibility

# Key inclusion criteria

Patients with chronic renal failure over 18 years of age and peritoneal dialysis incidents, followed by the Nephrology Service of the Hospital das Clinicas de Botucatu - UNESP - Brazil.

# Participant type(s)

Patient

### Age group

Adult

### Lower age limit

18 Years

### Sex

Both

# Target number of participants

To provide a statistical power of 80 %, with Beta error of 20% and identify a minimum difference of 40% between the two groups regarding the frequency of translocations, are required 30 patients in each group, a total of 60 patients.

### Key exclusion criteria

- 1. Loss to follow-up
- 2. Recovery of renal function
- 3. Renal transplantation
- 4. Death
- 5. Change elective of method of dialysis

Date of first enrolment 01/07/2013

# **Date of final enrolment** 01/12/2016

# Locations

**Countries of recruitment** Brazil

Study participating centre Nephrology Service of the Hospital das Clinicas de Botucatu - UNESP District of Rubião Junior Botucatu Brazil 18609363

# Sponsor information

Organisation

University UNESP Botucatu

**Sponsor details** Distict of Rubião Junior Botucatu Brazil 18609363

**Sponsor type** University/education

Website www.fmb.unesp.br

ROR https://ror.org/00987cb86

# Funder(s)

**Funder type** Not defined

**Funder Name** investigator initiated and funded

# **Results and Publications**

Publication and dissemination plan

Intention to publish date

Individual participant data (IPD) sharing plan

**IPD sharing plan summary** Other