Peritoneal Dialysis (PD)

A step by step approach

January 14, 2021

BCRenal
Provincial Health Services Authority

Outline


What can I expect to happen at each step?
1
I have decided PD is the best treament option for me.
2
6
PD will typically start in the next 6 months.
3
It is time to have a PD catheter inserted.
4
My PD catheter has been inserted.
5
PD training starts.
6
I am ready to do PD myself at home.

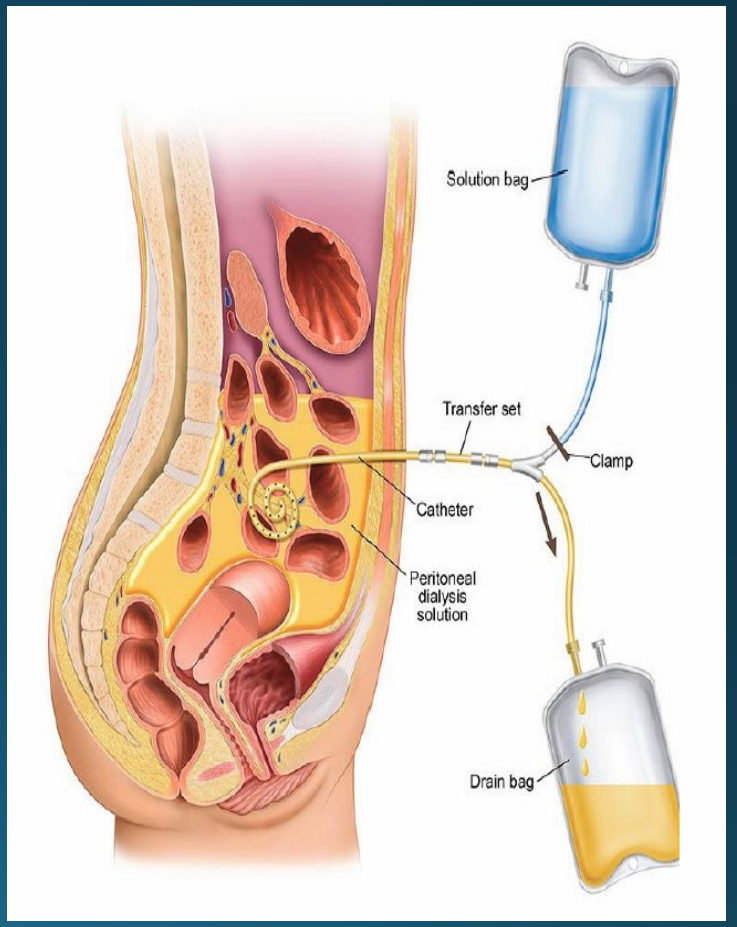
Step 1&2
Is PD the right modality for me?

Automated PD

CAPD

What is PD?

- Type of dialysis that uses the lining of the abdomen to filter blood inside of the body
- Dialysis solution flows from a bag through a catheter that has been placed in the peritoneal cavity
- The dialysis solution absorbs wastes and fluid from the body
- The dialysis solution, wastes and extra fluid is drained from the body

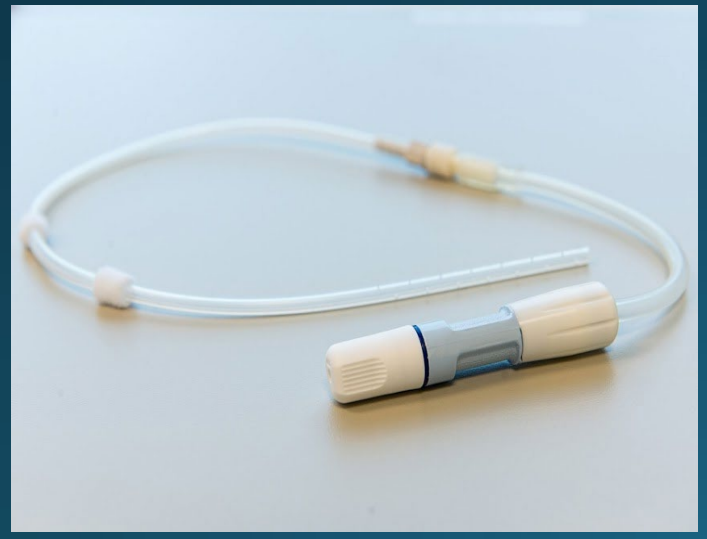


Benefits of PD

- Home-based self care therapy: greater lifestyle flexibility and independence
- Continuous therapy much like natural kidneys
- Short training time
- Less travel time to hospital or clinic
- Less diet restrictions
- Needle free treatment
- Increased travel opportunities
- Longer lasting residual kidney function

What is needed to perform PD?

- PD catheter
- Dialysis solution and supplies
- Clean work environment

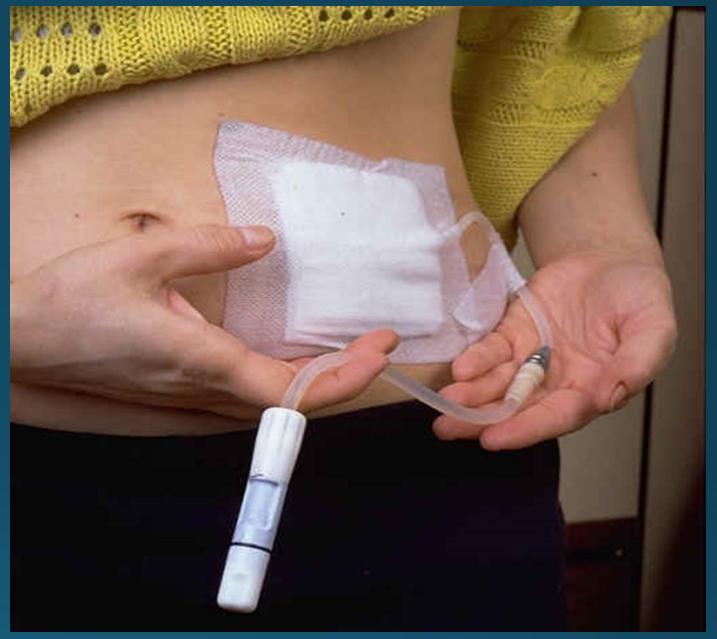


Step 3
It’s time to have a PD catheter inserted

- Soft, flexible silicone tube/catheter
  - Allows PD solution to flow in and out of the peritoneal cavity
- Placed in the lower abdomen area
- Dacron cuffs hold it in place
- Inserted in the OR, radiography or at the bedside
  - Usually a day procedure
- Insertion considered when GFR is around 15ml or less

What does a PD catheter look like?

Exit site and PD Catheter



PD catheter attached to Baxter transfer set with twist clamp

Step 4
Let’s look at the PD catheter and discuss what to expect following insertion

Step 5
PD training

- CAPD training usually starts 2-6 weeks after PD catheter insertion
  - ➢CAPD training: average 5 days (Mon-Fri)
  - ➢APD training: average 2 additional days at a later time

- you and your support person will be provided all information to care for yourself at home

  - ➢PD procedures - CAPD/APD exchanges
  - ➢How to keep clean
  - ➢Caring for your exit site
  - ➢How to solve any PD problems
  - ➢How to monitor your health
  - ➢Ordering PD supplies

PD Modalities

- Continuous Ambulatory PD (CAPD)
  - ➢manual method
  - ➢Majority of patients start on CAPD

- Continuous Cycler PD (CCPD)/Automated PD(APD)
  - ➢ automated method

- There may be clinical indications to recommend one over the other
  - ➢ultimately patient's decision

CAPD

- Consists of 3 phases (exchange)
  - Fill: with new PD solution called dialysate
  - Dwell dialysate: 4-5 hours
  - Drain dialysate: remove dialysate along with extra fluid and waste

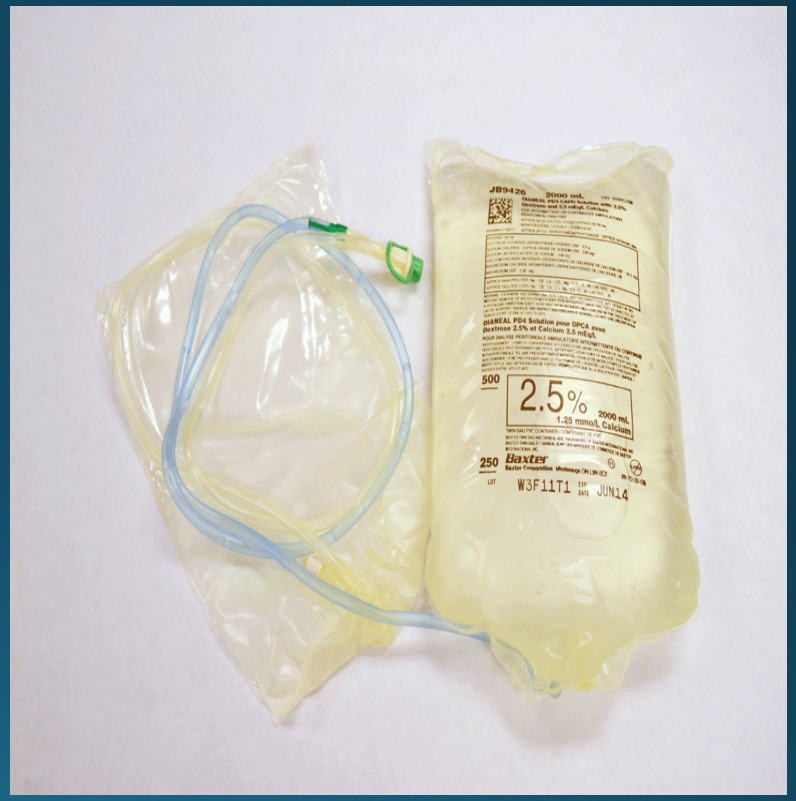
- 4 exchanges are performed every day
- Each exchange takes approximately 30 minutes
- Each fill volume is approximately 2000cc – 2500cc
- There is always fluid in the abdomen

CCPD/APD

- Utilizes cycler to perform PD overnight
- Machine automatically performs patient's therapy by filling and draining dialysate through out the night
- Patient disconnects from cycler in morning and in many cases is free to go about the day
- Option to leave fluid dwelling during the day

PD Solutions: Dialysate

- Dialysate removes extra fluid and wastes from the body
- Dialysate contains
  - a sugar called dextrose or a compound called icodextrin
  - Minerals
- Usual volume of dialysate for each exchange is 2000 cc – 2500cc



Let’s take a look at a PD exchange

Step 6
Performing PD at home

Caring for yourself

You will be in contact with all members of your health care team

- Self monitoring of your health
- Regular clinic visits at the hospital
- Telephone calls with the PD nurses

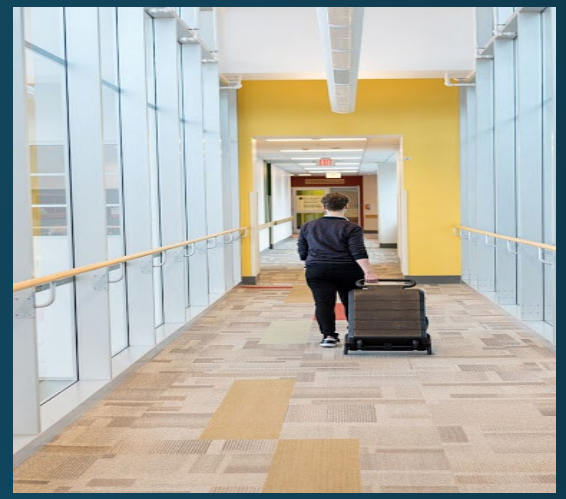
PD Supplies

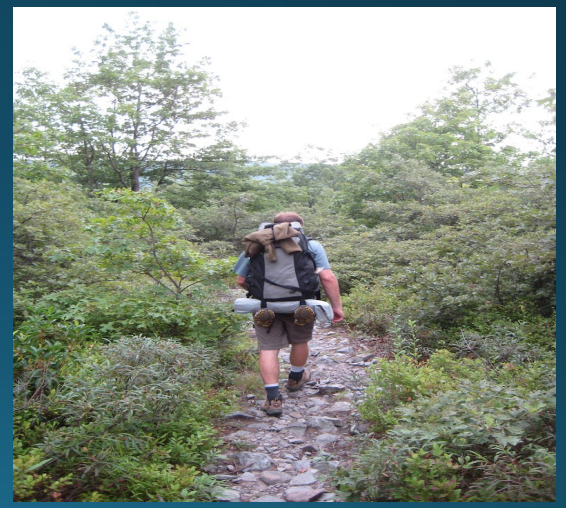
- PD supplies will be delivered to your home every 2-4 weeks
- You must have space to accommodate supplies

Activities on PD

Maintaining your current interests and activities is important

- Discuss ways to include activities such as hobbies, sports and travel with your PD team





Patient experience on Peritoneal Dialysis

Jeff Moore

Questions?

PD support resources for patients and families

✓Your KKC and PD health care team members!

✓BC Renal website: bcrenal.ca
- PD transition guides
- Patient e learning modules
- Videos

✓Kidney foundation: kidney.ca