



Case #681

Weighted Peritoneal Dialysis Catheter Anchor

Peritoneal dialysis (PD) is a low cost and physiologically beneficial option for many patients with end stage renal disease (ESDR), but catheter migration from the cul de sac of the pelvis can lead to catheter malfunction and ultimately require the transfer of the patient to full hemodialysis. Migration is reported in up to 35% of cases, but more recent 3D imaging shows that this frequency is likely severely underestimated and may be closer to 80%. Currently, no available device or technique exists to prevent PD catheter migration with the percutaneous insertion method.

This device uses silastic tubing encased weighted metallic ball bearings to both position and fix the PD catheter into a satisfactory position in the cul de sac. The device is flexible and shapeable with a thermal memory and can provide more than 20 grams of weight to allow the catheter to conform easily to the anatomy of the pelvis. PD is increasingly recognized as more cost effective than hemodialysis and is associated with greater patient independence and improved quality of life. This weighted catheter anchor would help ensure that qualified patients stay on PD while also providing additional cost savings by decreasing catheter revision and replacement rates.

Applications:

- Peritoneal dialysis placement.

Advantages:

- Secures the PD catheter into the pelvis cul de sac.
- Weighted placement promotes optimal drainage of dialysate fluid.
- Reduces migration after placement.
- Flexible and shapeable with thermal memory.

Intellectual Property and Development Status:

PCT Application WO2018232190A1

Prototype ready for initial human prospective observational study and/or licensing.

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