

Catheter Insertion and Care: Preoperative Management



Ideally, the optimal timing for peritoneal catheter insertion should take place at least 2 weeks prior to the use of the catheter to ensure good tissue ingrowth, fixation of the deep and superficial cuffs, and healing of the exit site.¹



Key Assessments

Factors that impair the wound healing and exit-site care management



History of colostomy, gastrostomy, or urostomy



Nutritional status



Clinical status (chronic cough, steroids use, edema)



Obesity-pannus location²



Use of adult diapers



Key Assessments

Evaluate for:



Rash and evidence of infection on the abdominal wall.



Pre-existing abdominal scars.



Chronic intertrigo under breasts and abdominal skin folds.



Abdominal wall hernias, if repair is required.³

*Staphylococcus aureus nasal carriage should be treated with intranasal mupirocin.⁴

*As per hospital protocol



Key Activities



- Set up an appropriate communication plan with the operator for catheter placement and patient follow-up.
- Confirm catheter placement date.
- Determine an appropriate exit-site location.
- Inspect the patient to determine belt-line area and other anatomical features.
- Avoid scars, folded areas, pressure points, or poorly visualized area during exit-site care.²
- Mark exit-site using stencils or actual catheter.
- Choose appropriate catheter configuration and operative methodology.



Choice of Catheter Types



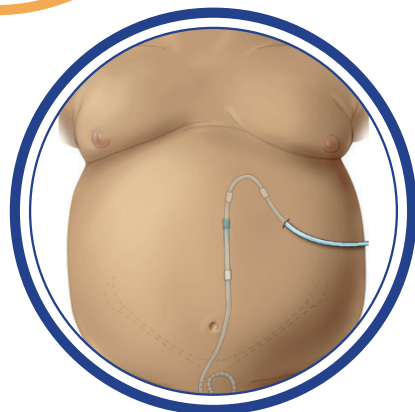
Patients with belt line above the level of the umbilicus may require catheter with a preformed intercuff bend.²



Patients with belt line below the umbilicus may require catheter with a straight intercuff segment.²



Patients with morbid obesity, abdominal stomas, or urinary-fecal incontinence may require an extended catheter with an upper chest exit-site.²



Obesity, urinary-fecal incontinence, floppy skin folds, or abdominal stomas may require an extended catheter for upper abdominal exit-site.²

Standard Tenckhoff-style catheters with or without a preformed intercuff cuff bend or a Straight- or coiled-tip configurations are most commonly used.^{2,3}



Preoperative Instructions for Patients and Caregivers



Bathing with disinfectant soap on the day of surgery.⁶



Bowel preparation.⁶



Empty bladder.⁶



Fasting of at least 8 hours prior to catheter insertion or midnight fasting as per hospital protocol.

Adapted from: Crabtree JH, *et al.* 2019

Products mentioned or illustrated in this series may or may not be available in your country. Please contact your local Baxter representative for more details.

References:

1. Gokal R, Alexander S, Ash S, *et al.* Peritoneal catheters and exit-site practices toward optimum peritoneal access: 1998 update. *Perit Dial Int.* 1998;18(1):11–33.
2. Crabtree JH. Selected best demonstrated practices in peritoneal dialysis access. *Kidney Int.* 2006;103:S27–S37.
3. Flanigan M, Gokal R. Peritoneal catheters and exit-site practices toward optimum peritoneal access: A review of current developments. *Perit Dial Int.* 2005;25(2):132–139.
4. Szeto CC, Li PK, Johnson DW, *et al.* ISPD catheter-related infection recommendations: 2017 update. *Perit Dial Int.* 2017;37(2):141–154.
5. Crabtree JH, Chow KM. Peritoneal dialysis catheter insertion. *Sem Nephrol.* 2017;37(1):17–29.
6. Crabtree JH, Shrestha BM, Chow KM, *et al.* Creating and maintaining optimal peritoneal dialysis access in the adult patient: 2019 update. *Perit Dial Int.* 2019;39(5):414–436.