

RectaNav: Managing Chronic Constipation in Patients with Neurogenic Bowel Disorder

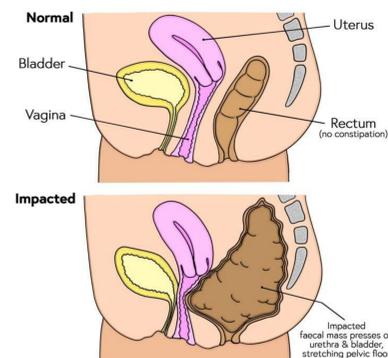
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CLINICAL BACKGROUND:

Neurogenic Bowel Disorder (NBD) is a condition characterized by disrupted nervous communication between the brain and the bowel, leading to loss of regular and deliberate bowel function.



[1]

Primary symptoms of NBD include **chronic constipation** and **fecal incontinence (FI)**. The Peristeen Transanal Irrigation (TAI) system is the gold standard for treating these symptoms.

PROBLEM:

Advantages of Transanal Irrigation

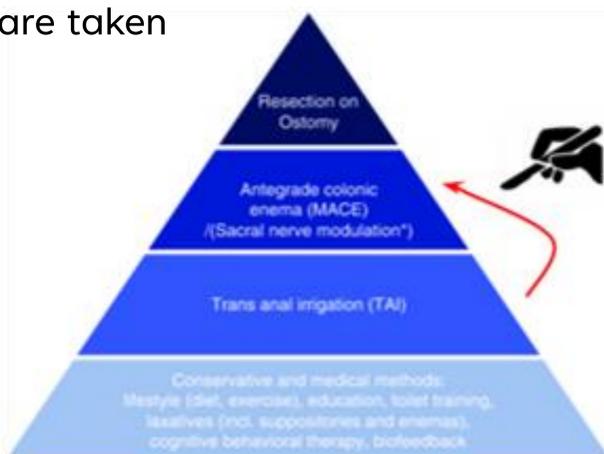
- Reduced likelihood of eventual stoma surgery (**35% reduction**)
- Decrease in expected number of FI episodes (**36% reduction**)
- Decrease in expected number of FI episodes (**36% reduction**)



[6]

TAI is also the last treatment option before **invasive measures** are taken

However, patients are discontinuing TAI to **difficulty navigating catheter to the anus**



[5]



[4]

PROBLEM SIZE BREAKDOWN & IMPACT:

A recent study of adult TAI users showed:



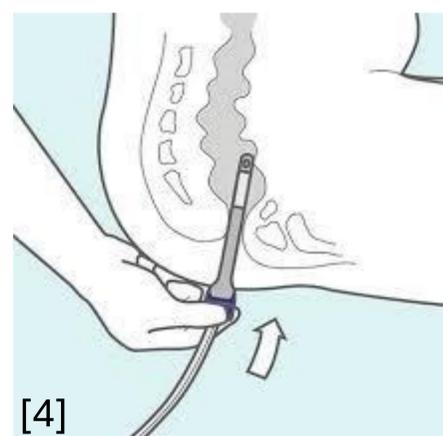
NEED:

User Problem Desired Outcome

Chronically-constipated individuals with Neurogenic Bowel Disorder who use transanal irrigation for bowel management need a more efficient* process for rectal insertion in order to reduce the transanal irrigation discontinuation rate.

OUR SOLUTION:

A supplementary device to TAI systems that improves catheter navigation to the anus and deployment of catheter into rectum



[4]

Alleviates the demands on

- Hand Dexterity
- Arm Mobility
- Trunk Stability
- Patient Dependence On Caregiver

References

[1] Faecal impaction with overflow. (n.d.). FutureLearn.
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 [3] Bildstein, C., Melchior, C., Gourcerol, G., Boueyre, E., Bridoux, V., Vérin, E., & Leroi, A.-M. (2017). Predictive factors for compliance with transanal irrigation for the treatment of defecation disorders.
 [4] Peristeen® Plus Training Guide for Healthcare Professionals 2 3 Preface Contents. (n.d.).
 [5] Mosiello, Giovanni & Marshall, David & Rolle, Udo & Crétolle, Célie & Gallo Santacruz, Bruno & Frischer, Jason & Benninga, Marc. (2016). Consensus Review of Best Practice of Transanal Irrigation in Children.
 [6] Coloplast Care – Transanal irrigation. (n.d.). ColoplastCare.