# **FEEDING TUBE PLACEMENT** IN SPECIFIC **PATIENT PROFILES: GASTROPARESIS**



Gastroparesis is a chronic motility disorder of delayed gastric emptying, in the absence of mechanical obstruction.1



50% idiopathic, 38% diabetic gastroparesis, medication-induced, postsurgical, viral, neurological and autoimmune mechanisms.1

Occurs in 10%-40% of patients after major gastrointestinal surgery.2



## Consequences

Common symptoms include nausea, vomiting, early satiety, postprandial fullness, bloating, and abdominal discomfort, leading to inadequate food intake and high risk of malnutrition.1



# Did you know?

The signs and symptoms of gastroparesis can affect the quality of life of the patient and lead to an increased use of healthcare resources. Patients with gastroparesis may also report a sense of loss and social isolation when their ability to eat along with others is altered.<sup>1</sup>



Need for enteral tube feeding in patients with gastroparesis

The high risk of malnutrition in patients suffering from gastroparesis poses a negative effect on their clinical outcomes.2

- Estimated 30% of patients will need enteral feeding at some point in their disease.3
- Indications for enteral feeding -
  - Loss of 5%-10% body weight over 3-6 months.<sup>4</sup>
  - Repeated admissions for hypovolemia.<sup>4</sup>
  - Electrolyte abnormalities due to nausea and vomiting.<sup>4</sup> Enteral feeding can provide nutrition, hydration, liquid medication and

possible palliative decompression while alternate therapies for gastroparesis are explored.4

In patients unable to achieve at least 50% of their daily required caloric intake for several days, a nasoenteral\* feeding tube can be placed and used to deliver enteral nutrition.<sup>2</sup>



Challenges posed by conventional feeding tube placement techniques

Nasoenteral\* feeding tube placement can be challenging in patients with gastroparesis.<sup>2</sup>

## Usually unsuccessful.<sup>2</sup>

**Blind placement** 

- May lead to complications
- (aspiration and pneumonia) due to inadvertent airway placement.<sup>2</sup>

tube placement confirmation) Requires preprocedural fasting

abdominal radiography for

Endoscopic placement (followed by

and patient transport between the clinical ward, endoscopy and radiology departments.2



Did you know?

malpositioning may occur in 0.3%-15% of the cases, leading to pulmonary or pleural formula infusion, pneumothorax or pulmonary abscess.<sup>5</sup> Endoscopic placement may result in a chance of accidental tube dislodgement as the scope is being withdrawn.<sup>6</sup>

technique for post pyloric feeding tube placement

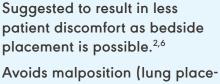


In an observational study, it was found that the total time between physician order for small bowel feeding tube placement and feeding

Benefits of using the electromagnetic (EM)-guided placement

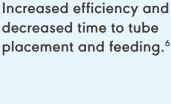
placement group.

EM-guided group vs. the blind



Patient comfort and safety

# ment) and complications.6



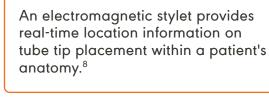
Time-saving



tube placement.<sup>7</sup>

Results in a 50% decrease in

mean cost for X-rays by reducing by half the median number of X-rays required to confirm correct



Feed patients faster, so they recover faster.<sup>8</sup>

Efficient placement8

**Our Solution** 



### Visualization at bedside Direct tubes to desired feeding placement with real-time feedback

- Minimize complications, such as lung placements

Immediately identify misplaced tubes

Timely feeding<sup>8</sup> Can significantly reduce time-to-feed More efficient than blind placements

with X-ray confirmation

On-screen visualization

on tube placement.8

provides immediate feedback



## Address feeding needs more quickly Can improve patient outcomes

Reduced burden<sup>8</sup>

Allows clinicians to confidently place tubes in an optimal feeding position, quickly confirm location, and reduce the time to nutrition delivery.8

Save time and resources

Institution protocols must always supersede the use of CORTRAK\*2. Clinical judgment must always take precedence.9

 $^{\mathsf{t}}$ as per Gerritsen, 2016, post-pyloric enteral nutrition was provided using a nasoenteral feeding tube. $^{\mathsf{2}}$ \*as per Blumstein, 2014, gastric or jejunal nutrition can be provided using a nasoenteral feeding tube.5 References:

1. Limketkai BN, LeBrett W, Lin L, Shah ND. Nutritional approaches for gastroparesis. Lancet Gastroenterol Hepatol. 2020; 5(11):1017-26. 2. Gerritsen A, De Rooij T, Dijkgraaf MG, et al. Electromagnetic-guided bedside placement of nasoenteral feeding tubes by nurses is non-inferior to endoscopic placement by gastroenterologists: a multicenter randomized controlled trial. Am J Gastroenterol. 2016; 111(8):1123-32. 3. Strijbos D, Keszthelyi D, Smeets FGM, et al. Therapeutic strategies in gastroparesis: Results of stepwise approach with diet and prokinetics, Gastric Rest, and PEG-J: A retrospective analysis. Neurogastroenterol Motil. 2019; 31(6):e13588. 4. Simons M, Bulat R. Enteric tube placement for gastroparesis: Gastrostomy, gastrojejunostomy and jejunostomy. InGastroparesis 2021 (pp. 397-411). Academic Press. 5. Blumenstein I, Shastri YM, Stein J. Gastroenteric tube feeding: techniques, problems and solutions. World J Gastroenterol. 2014; 20(26):8505-24. 6. Powers J, Brown B, Lyman B, Escuro AA, et al. Development of a Competency Model for Placement and Verification of Nasogastric and Nasoenteric Feeding Tubes for Adult Hospitalized Patients. Nutr Clin Pract. 2021; 36(3):517-533. 7. Gray R, Tynan C, Reed L, et al. Bedside electromagnetic-guided feeding tube placement: an improvement ove traditional placement technique? Nutr Clin Pract. 2007; 22(4):436-44. 8. Avanos CORTRAK\* 2 ANZ brochure. 9. CORTRAK 2 Quick Start Guide\_15M1360.





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