CHALLENGES OF CONVENTIONAL **TUBE PLACEMENT** CONFIRMATION TECHNIQUES



Gastric and post pyloric feeding tube placements may be associated with adverse events.¹

Tube misplacement may result in devastating and significant patient harm.¹

There is a need for a safe, accurate and reliable method to insert and confirm feeding tube tip location.²



Palpation²

- High level of expertise required²
- Obesity may complicate technique²

Radiological²

- Patient exposure to radiation, expensive, time-consuming, inconvenient²
- Mobile fluoroscopy allows bedside visualization, but with radiation

exposure to those in proximity

Bubbling²

- Can also occur when the feeding tube is in GI tract²
- No bubbles with respiratory misplacement may indicate blockage of feeding tube with mucous²

Endoscopy²

- Invasive procedure, may require general anesthetic/sedation²
- Probable feeding tube dislodgement on endoscope removal²

Did you know?

Ŧ

Various proposed and experimental methods exist to confirm feeding tube tip location. These include-2

- ECG guidance
- Capnography/capnometry
 Colorimetric capnography/capnometry
 - Electromagnetic field detection
- External magnet guidance
 Illumination
- Ultrasonography

However, these come with their own limitations-need for extra equipment and devices, not bedside in nature, expensive, need for training, etc.²

> Benefits of using electromagnetic (EM)-guided placement technique for feeding tube placement



Reduced time to feed⁴

Feeding tube insertion using EM-guided placement technique requires focused training until confirmation of necessary skills.⁴



Allows clinicians to confidently place tubes in an optimal feeding position, quickly confirm location, and reduce the time to nutrition delivery.⁵

Institution protocols must always supersede the use of the CORTRAK*2. Clinical judgment must always take precedence.⁶

GI: gastrointestinal; GERD: gastroesophageal reflux disease; ECG: electrocardiography

References:

1. 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. 2. Milsom SA, Sweeting JA, Sheahan H, Haemmerle E, Windsor JA. Naso-enteric tube placement: a review of methods to confirm tip location, global applicability and requirements. World J. Surg. 2015; 39(9):2243-52. 3. Gray R, Tynan C, Reed L, et al. Bedside electromagnetic-guided feeding tube placement: an improvement over traditional placement technique? Nutr Clin Pract. 2007; 22(4):436-44. 4. McCutcheon KP, Whittet WL, Kirsten JL, Fuchs JL. Feeding Tube Insertion and Placement Confirmation Using Electromagnetic Guidance: A Team Review. JPEN J Parenter Enteral Nutr. 2018; 42(1):247-254. 5. Avanos CORTRAK* 2 ANZ brochure. 6. CORTRAK 2 Quick Start Guide_15M1360.

