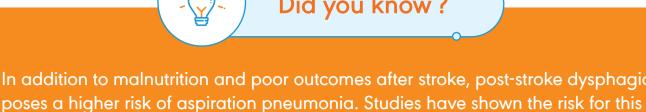
## FEEDING TUBE PLACEMENT IN PATIENTS WITH STROKE



Globally, stroke is the second single most common cause of death, with ~6.7 million deaths each year.1 May result in impaired mobility, communication, dysphagia, and depression.<sup>1</sup>

- As the most common cause of acute dysphagia resulting in malnutrition, it poses an
- impact on quality of life, as it impacts the patient's ability to independently maintain their nutrition and hydration needs.1 Prevalence of malnutrition following an acute stroke range from 8%-34%.<sup>1</sup>
  - Malnutrition after a stroke can reduce the chances of survival and functional ability.<sup>1</sup>

Did you know?



## In addition to malnutrition and poor outcomes after stroke, post-stroke dysphagia

complication being up to 12X higher in dysphagic stroke patients and occurring

While most acute stroke patients may recover from dysphagia within the first four weeks, around 15% may develop long-term swallowing difficulties.1

Nasogastric tube feeding in patients with stroke

Did you know?



abdominal aortic surgery.5

in up to 30% of patients.<sup>2,3</sup>

# Enteral tube feeding enables nutrition, hydration and medication delivery in

Dysphagic stroke patients must be placed on enteral feeding through an NGT in the first 24 hours of hospital admission.<sup>6</sup>

The European Society for Intensive Care Medicine (ESICM) guidelines 2017

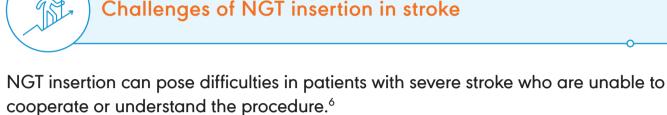
recommend early enteral nutrition in patients with traumatic brain injury, stroke, spinal cord injury, in addition to severe acute pancreatitis, diarrhea after GI injury,

does not recover within 30 days. NICE guidelines 2019 recommend that in people with acute stroke who are unable to

take adequate nutrition, fluids and medication orally must receive tube feeding with

a nasogastric tube within 24 hours of admission (unless in case of thrombolysis).8

Guidelines recommend nasogastric tube (NGT) feeding in case of impaired swallowing persistent for 7 days or longer and PEG placement if dysphagia



Risk of patient intolerance

more prone to NGT misplacement.9

Challenges of NGT insertion in stroke

NGTs are not always well tolerated by stroke patients, who may be unable to cooperate or understand the procedure

Stroke patients may frequently pull out the tube, that may lead to an interruption of nutrition, hydration and/or medication.6



## hemorrhage, pneumothorax and death<sup>6</sup>

Risks of NGT misplacement and dislodgement

Could result in life-threatening complications,

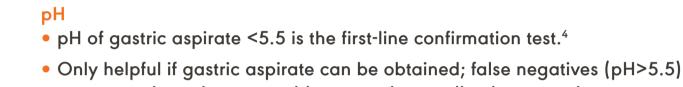
such as aspiration pneumonia, pulmonary

ensure no misplacement in the esophagus, nasopharynx or lungs.6 Methods to confirm NGT tip location

Patients suffering from dysphagia, vocal cord dysfunction or loss of consciousness are

It is crucial to reliably confirm NGT tip position in the stomach and

pH of gastric aspirate <5.5 is the first-line confirmation test.<sup>4</sup>



#### may occur in patients on acid suppressing medications, causing feeding delays.4

#### Risk of false positive readings if the tube is misplaced in the esophagus, increasing the risk of aspiration.4

- X-ray
- Second-line confirmation test.<sup>4</sup> Misinterpretation is common, with risk of excessive radiation if repeated and costly in terms of radiography department resources; can result in long delays in feeding while waiting for X-ray.4

### Reported incidents where the normal bowel sounds have been mistaken for correct NGT placement while actually misplaced in the lungs.4

**Auscultation** 

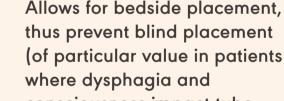
Endoscopy/fluoroscopy

Patient comfort and safety

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

Invasive and costly techniques unsuitable for many stroke patients who are

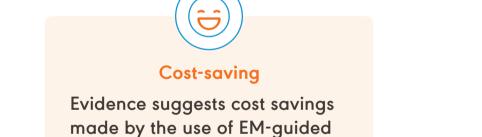
unable to maintain a sitting position or understand the procedure.4



confirmation.9 where dysphagia and consciousness impact tube insertion).9

placement device.9





Time-saving

placement due to reduced

need for X-ray placement

Decreased time to tube



### CORFLO\* NG/NI feeding tube with ENFit® connector and stylet

Long-term

Can remain in situ for as long

The medical grade polyurethane

as functional.11

patient condition.<sup>10</sup>

ease insertion.11

use.11

**Our Solution** 

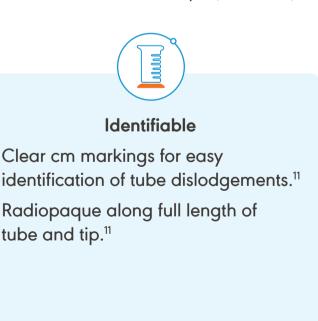
tube feedings through nasogastric or nasointestinal route.10



The AVANOS\* CORFLO\* nasogastric/nasointestinal feeding tube is a medical-grade polyurethane feeding tube specifically designed for patient comfort and safety during

tube insertion and use. It is intended for use in patients requiring intermittent or continuous

remains soft and flexible throughout tube and tip.11 CORFLO\* feeding tubes should be monitored, regularly assessed, and



CORFLO\* NG/NI feeding tube

with stylet (non-ENFit®)



### CORTRAK\* 2 enteral access system allows clinicians to confidently place tubes in an optimal feeding position, quickly confirm location, and reduce the time to nutrition delivery.<sup>12</sup>

Efficient placement<sup>12</sup>

Visualization at bedside

placement with real-time

feedback

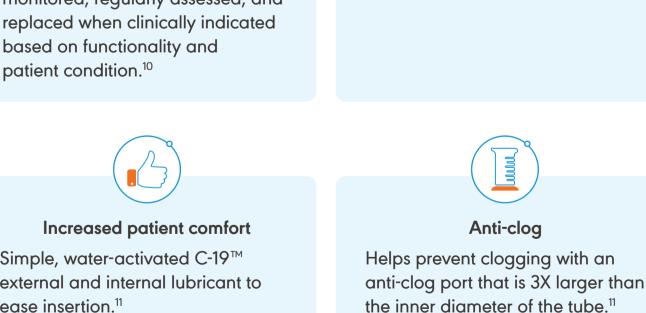
Direct tubes to desired feeding

Immediately identify misplaced



Minimize complications,

such as lung placements





**Anti-clog** 

#### Timely feeding<sup>12</sup> Can significantly reduce time-to-feed

More efficient than blind

placements with X-ray

confirmation





 Can improve patient outcomes Save time and resources

more quickly

Reduced burden<sup>12</sup>

- Feed patients faster, so that they recover faster.<sup>12</sup>

\*ESICM: European Society of Intensive Care Medicine; NICE: National Institute for Health and Care Excellence

1. Ojo O, Brooke J. The Use of Enteral Nutrition in the Management of Stroke. Nutrients. 2016; 8(12):827. 2. Mahoney C, Rowat A, Macmillan M, Dennis M. Nasogastric feeding for stroke patients: practice and education. Br J Nurs. 2015; 24(6):319-20, 322-5. 3. Wirth R, Smoliner C, Jäger M, Warnecke T, Leischker AH, Dziewas R; DGEM Steering Committee\*. Guideline clinical nutrition in patients with stroke. Exp Transl Stroke Med. 2013; 5(1):14. 4. Rowat A. Enteral tube feeding for dysphagic stroke patients. Br J Nurs. 2015; 24(3):138-45. 5. Reintam Blaser A, Starkopf J, Alhazzani W, et al. Early enteral nutrition in critically ill patients: ESICM clinical practice guidelines. Intensive Care Med. 2017; 43(3):380-398. 6. Rowat A. Dysphagia, nutrition and hydration post stroke. Br J Nurs. 2014; 23(12):634. 7. Galovic M, Stauber AJ, Leisi N, et al. Development and Validation of a Prognostic Model of Swallowing Recovery and Enteral Tube Feeding After Ischemic Stroke. JAMA Neurol. 2019; 76(5):561-570. 8. NICE guidelines. Stroke and transient ischaemic attack in over 16s: diagnosis and initial management [Internet]. [published 2019 May 01; cited 2022 Jul 28]. Available from: https://www.nice.org.uk/guidance/ng128/resources/stroke-and-transient-ischaemic-attack-in-over-16s-diagnosis-and-initial-manage ment-pdf-66141665603269. 9. Woon C. On track to the stomach!! Cortrak® for the insertion of nasogastric tubes amongst neuroscience patients-how effective is it?. AJON. 2020; 30(2):13-8. 10. CORFLO\* NASOGASTRIC / NASOINTESTINAL FEEDING TUBES IFU-Jan 2020. 11. CORFLO ANZ Flyer-2020. 12. Avanos CORTRAK\* 2 ANZ brochure. 13. CORTRAK 2 Quick Start

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Guide 15M1360.

Institution protocols must always supersede the use of the CORTRAK\*2. Clinical judgment must always take precedence.<sup>13</sup>

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