A new device for the introducer technique for percutaneous endoscopic gastrostomy placement

Percutaneous endoscopic gastrostomy (PEG) is the preferred method for achieving enteral access for patients requiring long-term nutritional support [1]. The popular PEG pull-through technique is not adequate for patients with obstructive head and neck or esophageal cancer because of the higher morbidity associated with the technique, including the risk of malignant implantation at the stoma. The introducer technique is then indicated as described by Russell et al. [2]. This involves direct puncture of an inflated stomach through the anterior abdominal wall, followed by the introduction of a guide wire and dilation of the newly created tract. The introduction system is removed by peeling it off.

It is believed that gastropexy provides safer conditions for direct puncture of the stomach, in particular for the insertion of larger gastrostomy feeding tubes [3–6]. We believe that there is a simple and cheaper alternative to the use of a guide wire, dilator, and "peeling off" devices. This is a development of a trocar system, consisting of an external sheath with a lateral cleft. The usual three-sided, sharply pointed end of the internal shaft of the trocar system is replaced by a cone-shaped end, in order to reduce the cutting trauma to the abdominal and gastric walls (Fig. 1).

Two gastropexy stitches are placed under endoscopic guidance using a double-needle puncturing device [3,4]. The trocar system is then advanced through a 10-mm skin incision between the fixation sutures and into the transilluminated and inflated stomach under endoscopic guidance. The internal shaft is removed and a 20-Fr ballooned tube is introduced through the lateral cleft. Once the tube is in place the balloon is inflated and the external sheath of the trocar is pulled out as the feeding tube is slid out through the lateral cleft (Fig. 2, 3).

Another advantage of this technique is the potential availability of the device in different diameters, allowing insertion gastrostomy tubes of various sizes.
J. H. Giordano-Nappi, S. Ishioka, F. Maluf-Filho, F. Y. Hondo, S. E. Matuguma, P. Sakai
Department of Gastrointestinal Endoscopy, Division of Gastroenterology, Hospital of Clinics of São Paulo University Medical School, São Paulo, Brazil

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Corresponding author
J. H. Giordano-Nappi, MD
Department of Gastrointestinal Endoscopy, Division of Gastroenterology, Hospital of Clinics of São Paulo University Medical School
R. Teodoro Sampaio 498 Apto. 147
Pinheiros
05406-000
São Paulo
Brazil
drgiordano@hotmail.com