

to tortuous anatomy compared to conventional braided stents. The first covered removable oesophageal stent is now available consisting of a knitted Nitinol skeleton with large heads covered in silicone, but the shaft only externally covered by an ePTFE membrane. In vitro it has better conformability but comparable radial force to standard braided stents. We report the first experience world-wide with this type of device.

Methods All consecutive patients over a 9-month period referred for oesophageal stenting had an Egis stent (BVM Medical, Hinckley, UK/S&G Biotech, Seoul, Korea) placed under fluoroscopic guidance. Stents with anti-reflux valve were used if the lower end had to be placed in the stomach. Patients were followed up prospectively until death or stent failure. Clinical outcome was compared to the results from the national Registry of Oesophageal Stenting (ROST). The device is CE marked and was used within its license. Institutional review board was nevertheless sought and granted. The manufacturer made 30 stents were available for evaluation free of charge.

Results 22 patients with malignant dysphagia and 2 with a benign post-radiation stricture had an EGIS oesophageal stent inserted. Median immediate stent expansion at insertion was 45% (25%–100%) increasing to 100% (60%–100%) after 1 week. Minor complications occurred in 8% compared to 14% in the national audit. No stent migrated from the oesophagus above the cardia, partial migration occurred in 1/15 stents (9.8%) placed across the GO-junction, comparing favourably to a migration rate of 4.3% (mid-oesophagus) and 18% (cardia) from the national audit. Improvement in dysphagia was comparable with a pre-stent median score of 3 (2–4) improving to 2 (0–3) at 48 h and to 1 (1–3) after 1 week. The two stents inserted for benign strictures were removed endoscopically by inversion through capture of the lower purse string. Initial difficulties with the delivery system were identified and corrected by the manufacturer.

Conclusion Limited first experience shows the EGIS oesophageal stent to perform at least as good as the large variety of existing oesophageal stents. There may be a benefit in terms of reduced stent migration, particularly if placed across the adverse anatomy of the GO-junction, but more extensive experience is required. Palliation of dysphagia is as good as with conventional stents. The stent should be particularly considered in tortuous anatomy due to the excellent conformability.



Abstract PTU-188 Figure 1

Competing interests J Cain: None declared, T Westwood: None declared, C Gordon: None declared, R Frost: None declared, H-U Laasch Consultant for: S&G Biotech.

REFERENCE

1. **British Society of Interventional Radiology (BSIR).** *ROST - Registry of Oesophageal Stenting, First Report 2004.* Henley-on-Thames: Dendrite Clinical Systems, 2004.

PTU-189 ARE THE CURRENT MANAGEMENT STRATEGIES FOR T1/T2 NO OESOPHAGEAL CANCER OPTIMAL?

doi:10.1136/gutjnl-2012-302514c.189

J Evans,* R Pande, D Beardsmore, D Corless, W Crisp, C Cheruvu. *University Hospital North Staffordshire, Stoke-On-Trent, UK*

Introduction Currently patients with Stage 1 (T1/T2 N0) oesophageal cancer proceed straight to surgery; these patients have an expected 60%–90% 5 year survival. This staging is based on EUS (endoscopic ultrasound) and CT imaging, which are accurate in 90% and 70% for T stage respectively and 70% in N stage for EUS. However, reporting of postoperative histology reveals a significant proportion of these patients end up with locally advanced (T3 N1/0) disease, leading to a 5-year survival of 25%. The aim of this study is to assess the results based on the current UK protocols.

Methods This study includes all patients who underwent an oesophagectomy over a 4-year period (2008–2011), focusing on those with T1/T2 N0 disease. After comprehensive staging which included endoscopy, EUS, CT and PET scanning all patients results were reviewed. Data on patients with T1/T2 N0 disease who went straight to surgery were analysed. The primary end points included a review of the number of patients who had a higher staging on post-operative histology and also the peri-operative mortality, morbidity and survival.

Results 167 oesophagectomies were carried out during the study period in our institution, of which 26 (15.6%) were for preoperatively staged T1/T2 N0 disease (6 T1 and 20 T2). The mean age was 68 years and 18 (69.2%) of the patients were male. Ivor-Lewis oesophagectomies were performed on 23 patients, minimally invasive 3-stage procedures in 2 and 1 had a trans-hiatal operation. Post-operative histology indicated a higher stage of disease in 54% (14) of patients, 10 had a T3 lesion while 10 patients were noted to have nodal disease. One (3.8%) patient died on the 8th post-op day with bowel ischaemia and major or minor complications occurred in 11 (42%) of patients peri-operatively. Disease recurrence was seen in 4 (15.3%) patients at 15 to 18 months post-operatively, 3 (75%) of these had stage migration on histology to a higher stage and two have died.

Conclusion Our study concludes that in patients with T1/2 N0 oesophageal cancer, despite the high specificity and sensitivity of both EUS and CT scan we still seem to have a large proportion of patients who are under staged and often offered curative operations, which appear to result in sub-optimal management leading to early recurrence and poorer long-term outcomes. Further studies are essential for accurate assessment of this stage of disease so that appropriate treatment strategies can be implemented for the management of oesophageal cancer.

Competing interests None declared.

PTU-190 ISOLATED UPRIGHT OESOPHAGEAL ACID EXPOSURE IS ASSOCIATED WITH LESS FAVOURABLE OUTCOMES AFTER LAPAROSCOPIC ANTI-REFLUX SURGERY

doi:10.1136/gutjnl-2012-302514c.190

J A Cornish,* E O'Dea, C Thomas, G W Clark. *General Surgery, University Hospital of Wales, Cardiff, UK*

Introduction With the increasing use of antireflux surgery since the widespread dissemination of the laparoscopic approach, preoperative indicators to predict success could reduce the number of patients with a poor outcome. The aim of this study was to identify if poorer outcomes could be predicted in patients with upright reflux alone vs mixed upright and supine reflux, in the presence of a positive DeMeester score.