with 22 gauge FNA needle with no on site pathologist and direct expulsion of material into cyto-rich red medium. A standard 3 passes were performed in all lesions. Patient were excluded if they did not have a gold standard comparison for FNA results which was defined as surgical specimen comparison, death resulting from disease or clinical follow up and imaging for a minimum of 6 months.

**Results** 831 EUS procedure were performed during the study period of which 129 had FNA of a solid pancreatic lesions. 23 patients had a SEMS in situ at the time of EUS FNA and 5 had a plastic stent. The accuracy of pancreatic FNA with a SEMS was 65% (15/23)(95%CI: 36% to 98%) and with no stent was 84.3% (86/102)(95%CI:76–90%) and overall was 82.2% (106/129)(95%CI: 75–88%). The FNA accuracy for the presence of a metallic stent was significantly lower \( \chi^2 = 4.4 \) (p = 0.036). All 8 patients with a SEMS had a false negative result of which 5 were felt well enough to undergo a further procedure for consideration of chemotherapy which gave an accuracy of 80%(4/5). All patients were happy to undergo a repeat biopsy.

**Conclusion** The accuracy for FNA of solid pancreatic lesions in the presence of a SEMS can be significantly lower than without and should be taken into account when consenting patients and planning treatment. However it should not delay the insertion of a SEMS as if definitive cytology is required a repeat FNA is a feasible option with an acceptable accuracy.

**Disclosure of Interest** None Declared

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**THE ROLE OF THE EPS8 BINDING PARTNERS SOS1 AND ABI1 IN PANCREATIC CANCER**

**Introduction** Pancreatic cancer (PC) is an aggressive disease, characterised by marked local invasion, and identification of new molecular targets is critical to improving outcome. Cell motility requires reorganisation of the actin cytoskeleton and several actin-binding proteins have been implicated in PC. EGF receptor pathway subunit \( \beta \) (EPS8) is an adapter protein that interacts with a range of intracellular binding partners, including Abi1 and Sos1 (to form a tri-complex), and certain \( \beta \) integrin subunits, in order to regulate cytoskeletal reorganisation. The integrin \( \alpha\beta\)6 is overexpressed in approximately 70% of PC and enhances invasion. This study examines the role of the EPS8 binding partners, Abi1 and Sos1, in \( \alpha\beta\)6-dependent PC invasion and the significance of their expression on patient survival.

**Methods** We used immunochemistry to examine the expression of Eps8, Sos1 and Abi1 in normal pancreas and PC in vivo using tissue microarrays. A retrospective patient database of PC patients operated on between 2000 and 2010 was generated. 33 patients (median age 46 (range 25–71)) with morbid obesity underwent high resolution oesophageal manometry and 24hr ambulatory pH-impedance monitoring, at least 2 weeks pre-op and 3 months post sleeve gastrectomy (median no. of days post-op 129 (range 84–202)). All patients documented reflux and dysphagia symptoms at the time of testing. Nine patients also underwent concurrent gastric emptying with \( ^{13}C \) labelled octanoate breath test. Parametric data was analysed using the paired t-test and non-parametric data with Wilcoxon matched pairs test.

**Results** Mean Body Mass Index (BMI) fell from 49 (41.3–58.3) to 38.5 (35.4–46.3). 5/16 patients reported new or worsening reflux symptoms (31%). Basal LOS pressure fell from 14.4mmHg (9.7–28.5) pre-op to 8.9mmHg (0.7–40.5) post-op (p < 0.02). Intra-gastric pressure and G-O pressure gradient increased: 8.3mmHg (4.7–12.8) pre-op Vs 10.4mmHg (5.3–22.7) post-op (p < 0.01). 8/16 patients had severe hypomotility pre-op and 9/16 post-op, 3/16 patients had pathological acid reflux pre-op, 5/16 patients having de novo reflux post-op. Mean total acid exposure time pre-op was 1.8%(0.5–5%) increasing to 4.35%(0.2–12.4%)(p < 0.02) post-op. There was an increase in the number of acid: 18(8–31) pre-op vs 29(13–38) post-op (p < 0.0001), and non-acid reflux episodes: 13(7–19) pre-op vs 52(35–84) post-op (p < 0.0001). Non-acid reflux episodes occurred predominantly in the post- prandial period. Gastric half emptying time(t1/2) was significantly shorter post-op 193.1mins (range113–433) vs 115.8 mins (range 82–170) (p < 0.05).

**Conclusion** Both acid and non-acid gastro-oesophageal reflux is increased after sleeve gastrectomy with 31% of patients developing de novo acid reflux post-op. This is despite a reduction in BMI and accelerated gastric emptying. A reduction in LOS pressure and increased G-O pressure gradient are likely to be contributing factors. Future studies should determine whether decreased gastric compliance stimulates increased numbers of transient lower oesophageal sphincter relaxations.

**Disclosure of Interest** None Declared