patients on PN who have not received NST or dietitian intervention during the period from Mar 2016 – Mar 2017. Energy, protein, and micro-nutrients consumption adequacy were compared between the intervention and control groups. Patients without body weight and nutrition intake records were excluded. Independent t-test and chi-square test were used to compare the variables between both groups. A p-value of <0.05 was considered statistically significant.

Results The patients in the intervention group had a significantly higher energy and protein intake than that of the control group (1279 ± 353 kcal versus 934 ± 261 kcal; 58 ± 16 g versus 43 ± 12 g). In terms of nutritional intake adequacy, the percentage of targeted energy and protein requirement achieved is significantly higher in the intervention group ($81 \pm 21\%$ and $90 \pm 28\%$ of their energy and protein requirements respectively), compared to $64 \pm 21\%$ and $75 \pm 23\%$ in the control group. Adequacy of micronutrient consumption is also significantly higher in the intervention group, 88.6% of patients in the intervention group achieved adequate intake of micronutrients from PN compare to 8.1% of patients in the control group.

Conclusions Nutrition care provided by the NST is promising to ensure the nutrition well-being of hospitalized malnourished patients. This review suggests that NST intervention can improve both macro- and micronutrient intake adequacies in patients on parenteral nutrition support. Further clinical outcomes studies on the benefits of NST are recommended.

IDDF2021-ABS-0011 ENDOSCOPIC ULTRASONOGRAPHY IS USEFUL IN PREDICTING PERFORATION OF ENDOSCOPIC RESECTION FOR GASTRIC SUBMUCOSAL TUMORS ORIGINATING FROM THE MUSCULARIS PROPRIA

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Background Predicting the risk of perforation during the endoscopic resection (ER) of gastric submucosal tumors (SMTs) originating from the muscularis propria (MP) could remind us to be more cautious and be prepared ahead of time. Moreover, we could select the appropriate patients for the inexperienced endoscopists. But for now, the predictive model was rare. Therefore, we conducted this study to figure out important parameters in the endoscopic ultrasonography (EUS) images to predict perforation, and try to build predictive models.

Methods From May 1st, 2013, to January 15th, 2021, consecutive patients with gastric SMTs originating from MP and received ER in our hospital were retrospectively reviewed. The patients were classified into two groups based on whether they had perforation (the case group) or without (the control group). To evaluate the depth of the SMT locates using the quantification index, we came up with a parameter called the ratio of inner distance to outer distance (I/O ratio). Logistic multivariate analysis was used to identify potential variables and predictive models.

Results 199 EUS procedures (194 patients) were finally chosen for analysis. The median age of the patients was 53 years old, and 88 (44.22%) were males. The en bloc resection rate had

no difference in the two groups, while patients in the case group had longer procedure time, higher probability of infection, and longer postoperative hospital stay. Multivariate analysis showed that age, I/O ratio, and the pathology of the tumors were risk factors for perforation, and we further built two models to predict perforation, with an AUC of 0.836 (for Model 1) and 0.755 (for Model 2).

Conclusions EUS was useful in predicting perforation of ER for gastric SMTs originating from MP, and we have identified two models to predict perforation, which might serve as a useful tool in clinical practice.

IDDF2021-ABS-0016 EFFICACY AND SAFETY OF PRE-ENDOSCOPIC TREATMENT FOR ASYMPTOMATIC OR INCIDENTAL STRICTURES IN CROHN'S DISEASE

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Background Current important treatment modality for stricture in Crohn's disease (CD) is endoscopic treatment. However, there is no unified treatment plan for asymptomatic or incidental strictures with CD patients (AIS).

Methods All eligible patients with stenosis of CD who were treated by endoscopic therapy from January 2013 to January 2021 were included (IDDF2021-ABS-0016 Figure 1. Endoscopic balloon dilation of small intestinal stricture with CD patients. A, Small intestinal stricture; B, Place 35GW through the stenosis segment; C, Dilation with 16 mm through-the-scope balloon; D, Post-dilation appearance). The primary outcomes were treatment success rate, post-procedural complications, endoscopic recurrence, additional surgical treatment rate, and stenosis-free survival with pre-endoscopic treatment for AIS or endoscopic treatment for symptomatic strictures.

Results A total of 87 patients of 125 procedures were studied, including pre-endoscopic treatment group (N=31) and endoscopic treatment group (N=56). The median follow-up time was 21 months (2-91 months). Cox multivariate regression analysis found that the type of treatment (HR 3.146, 95%CI 1.081-9.156, $P=0.036$), balloon diameter (HR 3.877, 95%CI 1.343-6.466, $P=0.009$), total enteral nutrition (HR 2.946, 95%CI 1.112-11.323, $P=0.007$), and history of anal fistula surgery (HR 3.548, 95%CI 1.412-10.648, $P=0.032$) were risk factors for recurrent stenosis after endoscopic treatment. While duration (HR 5.860, 95%CI 1.068-32.163, $P=0.042$) and hypoproteinemia (HR 4.578, 95%CI 1.038-20.196, $P=0.045$) were risk factors for additional surgery after endoscopic treatment. Compared with endoscopic treatment group, pre-endoscopic treatment group had the immediate technical success for therapy fairly (96.77% vs. 91.07%, $P=0.573$), lower endoscopic stenosis recurrence rate (16.13% vs. 46.43%, $P=0.003$), lower surgical treatment rate (0 vs. 16.07%, $P=0.024$), and higher 3-years stenosis-free survival (85.9% vs. 50.4%). The postoperative complications in all 3 cases, bleeding in 1 case, 2 cases of perforation were in the endoscopic treatment group.

Conclusions CD patients with AIS were often inadvertently found during colonoscopy and might develop symptomatic