

Endoscopic Subserosal Dissection for Gastric tumors : 32- case series in a Single Center

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Background Although endoscopic submucosal dissection is an effective technique of resecting gastric epithelial or subepithelial tumors, it is limited for resecting tumors with severe fibrosis or exophytic growth patterns. ESSD (Endoscopic subserosal dissection) could be a soluble technique of dissection through working space of sub-serosa. **Methods** We retrospectively reviewed 32 patients gastric tumors underwent ESSD by a single expert endoscopist, at Presbyterian Medical Center, between 2010 and 2020. **Results** The median age of the patients was 56 years old. The median length of the long axis of the specimen was 20.5 mm. The mean operation duration was 39.9 minutes. There were 9 cases (28.13%) of adverse events; 3 cases showed minor bleeding and 6 cases showed pneumoperitoneum. The histopathological results revealed 15 cases of leiomyoma (46.9%), 13 cases of Gastrointestinal stromal tumor (40.6%), 3 cases of low-grade adenoma with severe fibrosis (9.4%), and 1 case of schwannoma (3.1%). The follow-up period range is 8 weeks to 368 weeks. There was no recurrence during follow-up. **Conclusion** When using the Submucosal tunneling endoscopic resection and Endoscopic full thickening resection methods, there were some tricky problems treating severe fibrous epithelial tumor adhesive to muscularis propria layer and mixed or exophytic gastric SETs located in lesser curvature of fundus. But ESSD enable endoscopist to resolve this problems.

Key words: dissection, Gastric tumor, Gastrointestinal stromal tumor

Clinical Results	Patients (n= 32)
Median age, years (range)	56 (28 - 84)
Sex (M : F)	7 : 25
Median size (mm) (range)	20.5 (4 - 37)
Location	
Antrum	4
Body	20
Cardia	8
Mean Procedure time (minutes)(range)	39.9 (3 - 167)
Pathology	
GIST (%)	13 (40.6)
Leiomyoma (%)	15 (46.9)
Schwannoma (%)	1 (3.1)
Adenoma (low grade) (%)	3 (9.4)
Complete resection (%)	30 (93.75)
Adverse events (%)	9 (28.13)
Minor bleeding	3
Perforation	6
Follow-up period(weeks) (range)	8-368
Recurrence	No