

# Endoscopic Proper Muscle Layer Resection (EPMR) Using Band Ligation-assisted Over-the-Scope Clip Method on a Patient with Rectal Adenocarcinoma

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## 1. Case presentation

A 60-year old woman underwent colonoscopy due to positive stool occult blood. A 2 cm-sized semi-pedunculated polyp was observed at the distal rectum.

## 2. Diagnosis

Rectal Adenocarcinoma

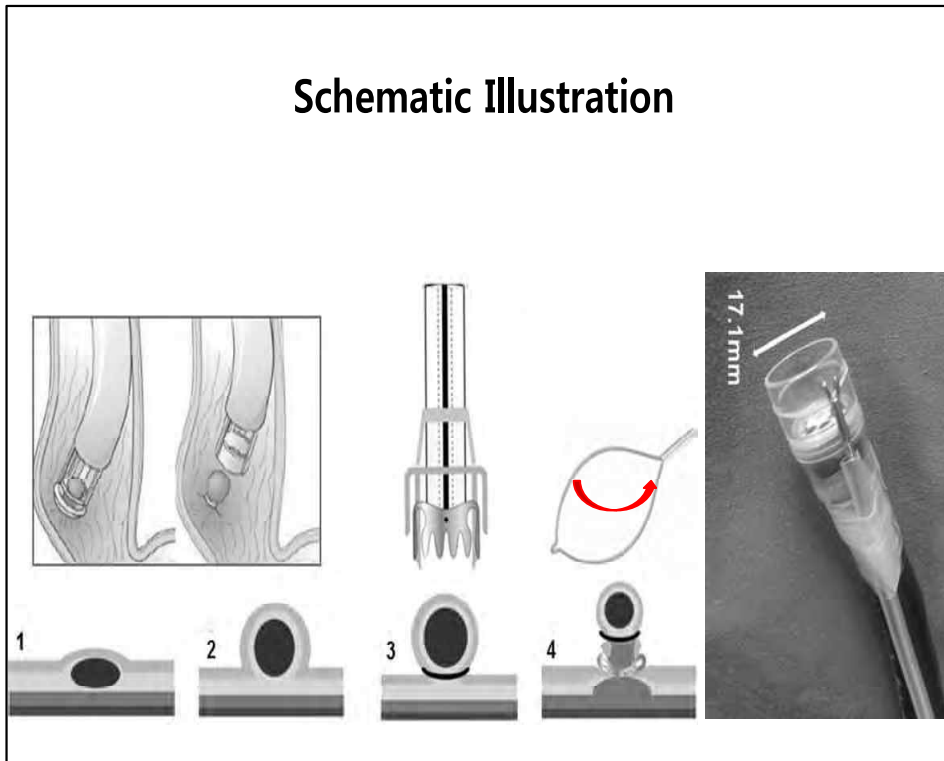
## 3. Therapy and Clinical course:

The endoscopic procedure was performed in moderate sedation state. Firstly, the polypoid lesion was suctioned into a variceal band ligation device mounted on the tip of the endoscope. Ligation was performed below the suctioned tumor lesions by using rubber bands. Then an OTSC was installed onto the end of the endoscope with an application cap. The band-ligated lesion was pulled into the cap once again, and the clip was deployed under the ligated band, thus a full-thickness duplication of the gastric wall being created. Then, resection with snare was performed between rubber band and OTSC. In pathologic result, the tumor invasion depth into the submucosa wall was 2,000  $\mu\text{m}$ , which was beyond the indication of endoscopic resection; so, the patient underwent segmental resection of the rectum surgically. No tumor cell was detected in the resected specimen.

## 4. Conclusion

In cases of small GI tract tumors less than 2 cm in size, we would like to recommend the band ligation-assisted OTSC method.

**Key words:** Endoscopic resection, Over-the-scope clip, Rectal cancer



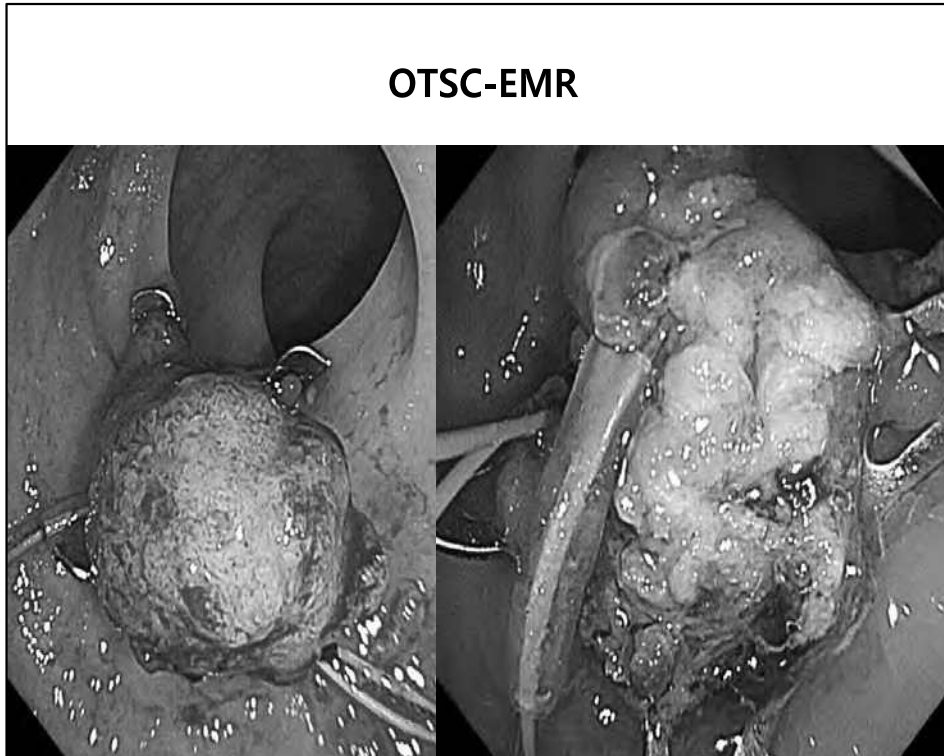
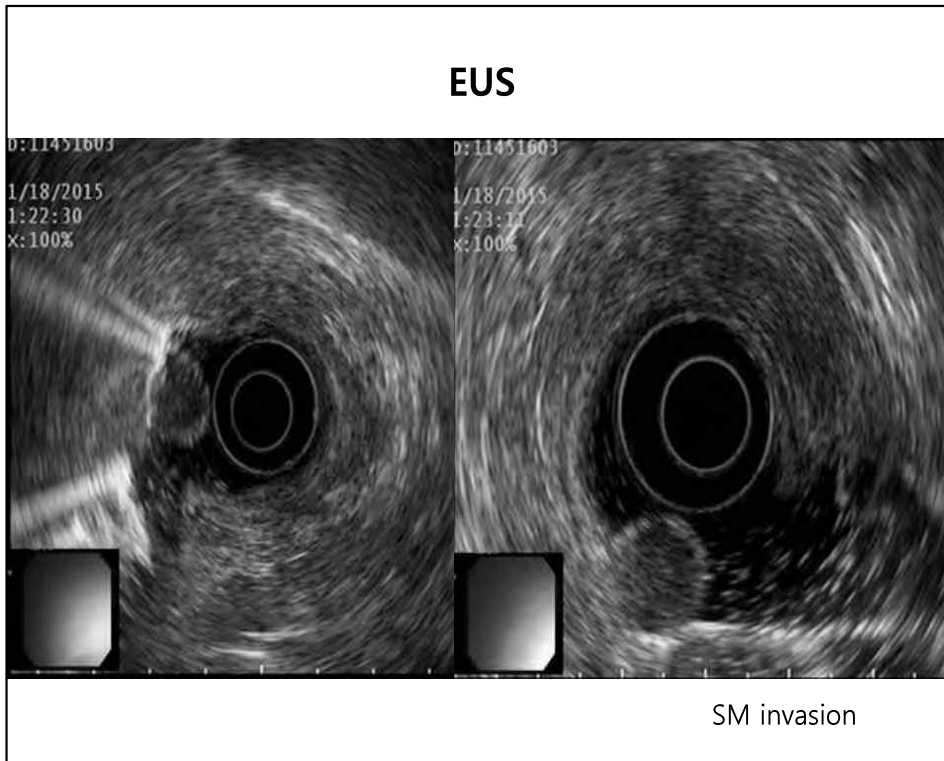
## CASE

- F/60
- P.I: 본 환자 Stool OB (+)으로 내원, Colonoscopy 상 rectal cancer 진단되어 내시경적 절제술 시행함.
- **Pre-ESD Bx.** : Adenocarcinoma, MD
- **Past Hx.** : HTN/DM/Hepatitis/Pul.TBc (-/-/-/-)

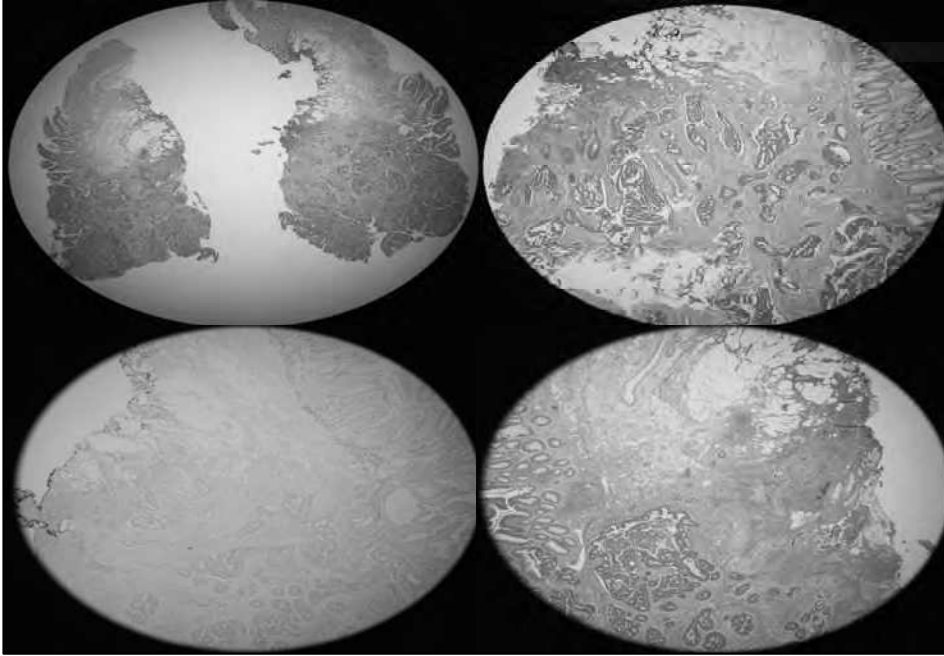
## Colonoscopy



Distal rectum, AV10 cm



**Pathologic results**



**Laparoscopic LAR at other hospital**

: No residual tumor