Fluorescence Guided Transanal Minimally Invasive Surgery

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Clinical Image

A 53 year-old male without previous medical history was seen in the outpatient clinic with a history of intermittent bloody stools. A colonoscopy was performed and a 1.5 cm sub-mucous, soft, mobile tumor was seen 5 cm from the anal verge. We performed a transanal minimally invasive surgery as a means for local excision. A SILS™ (Medtronic) was placed transanally in combination with Airseal® (Conmed) CO₂ insufflator and the EleVision® IR platform (Medtronic) for the purpose of performing endoluminal rectal surgery and identification of the tumor using fluorescence-guided surgery. Twenty five mg of ICG is dissolved in 10 mL of sterile water and 1cc of ICG was applied IV. The tumor fluoresced completely and with standard laparoscopic instruments, the lesion was completely excised. The patient was discharged the following day. Pathology reported a villous adenoma with high-grade dysplasia and clear margins Figure 1. No further treatment was needed.

Figure 1: Pathology reported a villous adenoma with high-grade dysplasia and clear margins.