Procedure:

Endoscopic closure of an anastomotic leak using the Padlock Clip defect closure system.

Patient History:

A 55-year-old male had a history of perforated sigmoid diverticulitis and had a portion of the sigmoid colon resected with the creation of a temporary end colostomy. One week after colostomy reversal with colorectal anastomosis, he was re-admitted with abdominal pain and fevers. A CT scan revealed a large collection of extra-luminal contrast consistent with an anastomotic leak. The patient was referred for endoscopic closure of the defect.

Treatment:

An approximately 2cm opening was seen along the distal aspect of the colorectal anastomosis [see Fig. 1], through which the internal aspect of the percutaneous drain was easily visible [see Fig. 2]. The opening was successfully closed with adjacent placement of two Padlock Clip defect closure system clips [see Fig. 3]. The patient’s clinical status improved significantly with repeat imaging 1 week later showing near complete resolution of the abdominal fluid collections and no extravasation of contrast. CT scan 4 months later showed full closure of the leak site [see Fig. 4].

Conclusion:

“The Padlock Clip® [defect closure system] was very quick and easy to use. Most importantly, it provided me with an endoscopic tool to fix the patient’s anastomotic leak and spare him from another major surgery.”

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