The role of empiric embolization in diverticular bleeding

A 90-year-old man presented with painless, fresh rectal bleeding, but was otherwise asymptomatic. Examination was normal except for the fresh blood on rectal examination. He had undergone colonoscopy for a previous episode of bleeding, which had shown only diverticulosis and no treatment had been required. His colonoscopy on admission showed diverticulosis without active bleeding. After a recurrence of his bleeding, he underwent small-intestinal enteroscopy, which was negative, but a further colonoscopy revealed two bleeding sigmoid diverticula and five endoclips were placed (Fig. 1). This initially secured hemostasis but he had another recurrence 2 days later. This time he underwent a 99mTc-labeled red cell scan, which was also negative. The patient refused to undergo a colectomy but subsequently had another episode of bleeding. On this occasion enterography was unsuccessful despite positive red blood cell scanning and arteriography detected active gastrointestinal bleeding when the rates of blood loss are >0.2 mL/min and >0.5–1 mL/min, respectively, so will be negative if the rate of bleeding is slow. The diagnostic sensitivity is estimated at approximately 55% for red blood cell scans [4–7]; 77% and 41% for arteriography in cases of massive [8] and any bleeding [9], respectively; 29% for arteriography after provoking an occult bleeding site [10]; and 72% for colonoscopy [11].

Surgical intervention for recurrent diverticular bleeding was almost 97% [3]. Colectomy, the current definitive therapy, is unacceptable for many patients who will not consider having an ileostomy bag or are not suitable candidates for such surgery. Emergency colectomies have a 15% mortality rate [12].

We propose colonoscopy to identify the source and the placement of endoclips, which can also as a marker. Should therapeutic failure of the endoclips occur, empiric embolization of the artery supplying the region can then be performed. While this is not a routine procedure, we have successfully treated one patient in this way and it promises to be a possible solution for patients refusing, or unsuitable for, surgery that would have a drastic effect on their quality of life.

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References

1. Longstreth GF. Epidemiology and outcome of patients hospitalized with acute lower GI hemorrhage: a population-based study. Am J Gastroenterol 1997; 5: 189


**Bibliography**

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