

## Hepatic injury following colonoscopy



**Fig. 1** Abdominal computed tomography showed a right hepatic lobe lesion with hematoma.



**Fig. 2** Follow-up abdominal computed tomography at 2 months showed organization of the hematoma, which was smaller compared with the initial image.

Colonoscopy is a common and relatively safe diagnostic and therapeutic procedure. Iatrogenic injuries have been reported in the medical literature, but the overall risk of serious complications such as perforations and visceral lacerations is low [1–4]. Database studies have shown the total complication rate to be in the range of 2.8 per 1000 colonoscopies, with a mortality rate of 0.007% [5].

A 73-year-old male presented to our Emergency Department 4 days after undergoing a routine diagnostic colonoscopy. The patient complained of increasingly severe right upper quadrant abdominal pain radiating to the ipsilateral lumbar region, and associated with diffuse abdominal tenderness on palpation, but he was

hemodynamically stable. An urgent abdominal computed tomography (CT) scan was obtained, which showed a subcapsular hepatic hematoma and a right hepatic lobe laceration as well as a large hemoperitoneum, with no other hepatic parenchymal lesions (► **Fig. 1**). The consultant surgeon performed laparoscopic evaluation and drainage of approximately 1100 mL of blood without complications. The patient was discharged in a satisfactory condition. A follow-up CT scan 2 months later demonstrated increasing resolution of the hepatic hematoma (► **Fig. 2**). An abdominal magnetic resonance scan almost a year later showed only a small residual hematoma and confirmed the absence of associated parenchymal lesions.

Hepatic injury after colonoscopy is an extremely rare complication, previously described only by Levine and Wetzel in 1987 [6]. Nevertheless, it is feasible and may occur more frequently than suspected.

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**I. Noreña<sup>1</sup>, A. Varón<sup>2</sup>, C. Dennis<sup>3</sup>, R. Dennis<sup>1</sup>**

<sup>1</sup> Department of Internal Medicine, Fundación Cardioinfantil, Bogotá, Colombia

<sup>2</sup> Gastroenterology and Hepatology Unit, Fundación Cardioinfantil, Bogotá, Colombia

<sup>3</sup> Vascular and General Surgery, Brookhaven Memorial Hospital, New York, USA

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### Bibliography

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### Corresponding author

**R. Dennis, MD, FACP**  
 Department of Internal Medicine  
 Fundación Cardioinfantil  
 Cll 163A N°13B-60  
 Bogotá 102973  
 Colombia  
 Fax: +57-1-6672727  
 rdennis@cardioinfantil.org