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Veiled Right Kidney Sign in Endoscopic Retrograde Cholangiopancreaticography

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Introduction

76-year-old female underwent Endoscopic Retrograde Cholangiopancreatography (ERCP) for symptomatic choledocolithiasis. Biliary achieved cannulation was only after pancreatic guidewire placement. Cholangiogram showed several calculi in the common bile duct (CBD). Biliary sphicterectomy was performed, followed by biliary drainage with basket and balloon, resulting in extraction of multiple stones. Complete clearance was not possible and a 10Frx10cm plastic stent was placed. During the procedure, a radiolucent halo around the right kidney was noted at fluoroscopy (Fig. 1). This finding, known as the veiled right kidney sign, is suggestive of air in the retroperitoneal cavity due to duodenal perforation and, therefore, the procedure was interrupted.

This patient was managed conservatively with nil per mouth, nasogastric suction, intravenous fluids, antibiotics and analgesics. The patient had a rapid clinical and radiological improvement and was discharged 7 days after the procedure.

ERCP has become an important therapeutic modality for biliary and pancreatic disorders. ERCP-related perforation is a serious complication and although rare, it is associated with significant mortality that can be as high as 37.5% [1]. Early diagnosis and treatment have been shown to improve prognosis and decrease the need for surgery. Most perforations can be diagnosed during ERCP by X-ray fluoroscopy [1, 2].

The veiled right kidney sign was first described in 1996 and refers to the appearance of a "veil" over the right kidney due to accumulation of air in the pararenal space [3]. Although infrequent, this is an early and typical sign of retroperitoneal perforation and should be sought in every ERCP.

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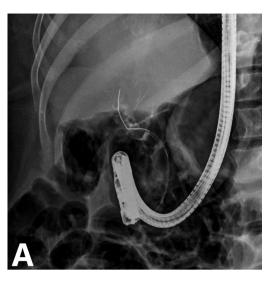


Fig. 1. Fluroscopy showing a discrete collection of air around the kidney during ERCP.

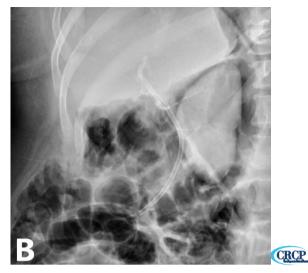


Fig. 2. Fluroscopy showing the "veiled right kidney sign", caracterized by air collection around the kidney. A biliary stent was placed in the common bile duct.

Ethical Considerations

Compliance with ethical guidelines

The authors have complied with the ethical standards and current ethical guidelines

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Conflict of interest

The authors declared no conflict of interest.

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References

- [1] Li G, Chen Y, Zhou X, Lv N. Early management experience of perforation after ERCP. Gastroenterol Res Pract 2012; 2012:657418.
- [2] Bill J, Smith Z, Brancheck J, et al. The importance of early recognition in management of ERCP-related perforations. Surgical Endoscopy 2018; 32:4841-4849.
- [3] McWilliams RG, Blakeborough A, Johnson MI, et al. Case report: the "veiled right kidney sign"— an ultrasound finding in retroperitoneal perforation of the duodenum. Br J Radiol 1996; 69:1061 1063