An 82-year-old man was referred to our hospital with an expanding liver cyst that was compressing the inferior vena cava. His medical history revealed hypertension, chronic obstructive pulmonary disease (COPD), a hip prosthesis, and surgery for varices. At the referring hospital the patient had been treated endoscopically for upper gastrointestinal bleeding by circumferential adrenaline injection of a duodenal ulcer with adherent clot, using a 4 mm long and 0.2 mm thick needle, following which the bleeding stopped.

Abdominal ultrasonography had been performed because physical examination showed an enlarged liver and the patient had developed peripheral edema suggesting inferior vena cava compression. Ultrasound revealed multiple liver cysts, one of which, originating from segment five of the liver, had rapidly increased in size. A contrast-enhanced CT scan had shown a thickened wall with contrast enhancement and gas formation within the cyst (Fig. 1), suspicious for an infected cyst. The cyst compressed the duodenum, and inferior vena cava. The patient’s condition deteriorated and therefore he was referred to our hospital.

The diagnosis of infected liver cyst was confirmed and the cyst was drained percutaneously. Culture of the cyst content showed *Streptococcus viridans*, *Escherichia coli* and *Bacteroides fragilis*. Following drainage, the patient was transferred back to the ward and initially his clinical condition improved and temperature dropped. Unfortunately, the drain accidentally dislodged and fell out, following which the patient developed peritonitis and septic shock. He was taken to the operating theatre for emergency treatment and the diagnosis of infected liver cyst with the duodenum adherent to the medial cyst boundary was confirmed. During the surgical procedure the patient unfortunately went into irreversible septic shock and died 10 days after treatment of his upper gastrointestinal bleeding.

We hypothesize that the cyst became infected by transmural translocation of endoluminal bacteria into the cyst by accidental puncture during adrenaline injection of the bleeding ulcer.

Endoscopic adrenaline injection is an accepted treatment option for upper gastrointestinal bleeding [1–3]. We are unaware of any previous reports of infected liver cysts as a complication of this treatment. Endoscopists using injection therapy should be aware of complications caused by the needle’s passage through the gastrointestinal wall.

**References**


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