An 82-year-old man underwent the routine removal of a common bile duct (CBD) stent by endoscopic retrograde cholangiopancreatography (ERCP). He had been fit and well prior to the procedure, and his past medical history was unremarkable. He had presented 18 months previously with acute cholangitis caused by gallstones.

The patient was sedated, and throughout the 20-minute procedure he maintained spontaneous breathing and standard monitoring was unremarkable. After the procedure the patient was moved from a slightly left lateral position to supine. Immediately, his SpO2 dropped to 70% and he became profoundly hypotensive with a pulse of 50 beats per minute. His Glasgow Coma Scale (GCS) score was 3/15. He was given flumazenil and naloxone with no effect. An electrocardiogram showed massive anterior ST-segment elevation with reciprocal changes (Fig. 1). Resuscitation with high-flow oxygen (15 L/min) and fluid restored SpO2 to 100% and blood pressure to 130/80 mm Hg. The patient was rushed to the cardiac catheterization laboratory where a repeat 12-lead ECG revealed complete resolution of the ST-segment elevation within 20 minutes, although the GCS score remained at 3/15. Generalized hypertonicity and a transiently dilated right pupil were noted, raising suspicion of an intracranial event. The patient was haemodynamically stable and a computed tomography (CT) scan of the head was urgently carried out. The scan revealed large quantities of air in both hemispheres of the cerebral circulation (Fig. 2). The patient was subsequently transferred to the intensive care unit but did not require intubation due to an improvement in his conscious level (GCS score 8/15). The troponin level at 12 hours post event was significantly elevated at 0.85 ng/mL.

Systemic air embolism following ERCP has only been described on four previous occasions [1–4], although reports on venous air embolism are more abundant [5]. The present case is novel in that myocardial infarction due to air embolism after ERCP has not previously been reported.

**Endoscopy_UCTN_Code_CPL_1AK_2AC**
References
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