A 65-year-old woman underwent endoscopic retrograde cholangiopancreatography (ERCP) for choledocholithiasis, and a standard stone extraction balloon (Multi-3V; Olympus, Tokyo, Japan) was used initially to remove the stone after biliary sphincterotomy. After several attempts of downward pulling on the balloon catheter, aiming for stone expulsion, we were unable to deflate the balloon (Fig. 1). No elevator manipulation was used during stone removal. We suspected that the balloon catheter had developed stretch occlusion: total collapse of the air channel within the balloon catheter caused by the stretched surrounding plastic housing catheter. Through this mechanism the air inside the balloon becomes totally trapped above the stretched occlusion site. The balloon could not be deflated even after we cut the catheter close to the handle (Fig. 2). So, the inflated balloon was pulled to the biliary opening. Next to the cut catheter, an endoscopic needle-knife without cauterization was used to puncture the inflated balloon (Fig. 3) under endoscopic and fluoroscopic guidance. The balloon deflated immediately and was removed (Video 1). We removed all stone fragments during the same ERCP session. All ERCP endoscopists need to be aware of this rare potential complication when using stone extraction balloons and know how to manage it accordingly.

Competing interests

The authors declare that they have no conflict of interest.

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Video 1 Stretch occlusion of stone extraction balloon catheter.