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Endoscopic management of a difficult common bile duct stone

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Key words: ERCP, sphincterotomy, CBD stone, lithotripsy

Introduction

Endoscopic sphincterotomy and lithotripsy using a lithotripter basket have evolved as successful methods to manage bile duct stones. Endoscopic methods reduce morbidity associated with open or laparoscopic surgery. A major deterrent to successful endoscopic management of bile duct stones is large size, especially if the diameter of the stone is greater than the basket. We report a patient who had recurrent common bile duct (CBD) and hepatic duct stones, with one stone in the CBD measuring 35 mm × 33 mm, and the endoscopic technique used to clear the CBD.

Case report

A 75-year old man, with an ASA (American Society of Anaesthesia) grading of 3, who had a history of recurrent choledocholithiasis presented with one large stone (35 mm × 33 mm) and multiple smaller stones in he CBD. He underwent endoscopic retrograde cholangiopancreatography (ERCP). The large stone was in the upper CBD at the hepatic duct confluence and there were three free floating 10 mm stones in the distal dilated segment (figure 1). After deep canulation, an Olympus BML-2q lithotripter (Olympus Optical Co. Tokyo, Japan) was advanced along a guide-wire beyond the large stone. The largest available basket (31 mm), would not accommodate the whole stone. The technique we used to break this stone was to grate the edge of the stone, which resulted in its disintegration. Thereafter the stone was partially held with the basket and piecemeal crushing was done with periodic evacuation into the duodenum. With multiple such passages it was fluoroscopically confirmed that complete clearance had been achieved (figure 2). The stone was a pigment stone that could be crushed easily. The CBD was stented with two 8.5Fr, 7cm stents to facilitate free drainage of bile, and to prevent cholangitis (figure 3). The patient made an uneventful recovery.

Figure 1. ERCP finding of large proximal CBD stone and distal small stones. (Note: the size of the scope is 1.7 cm)

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Discussion

Since it was first introduced in 1982, mechanical lithotripsy, more CBD stones are treated endoscopically [1]. Many endoscopists claim that stones larger than the lithotripter basket are best managed by non-endoscopic techniques such as extracorporeal shock wave lithotripsy (ESWL) or surgery [2]. However, our patient had an unfavorable ASA grade and a previous history of procedure related complications. The grating of the side wall, partial grasping of the stone, and then crushing it piecemeal was the method we successfully used in this difficult case. In these situations it is important to remove the stones completely to avoid reformation [3].

References


An unusual cause of recurrent seizures

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Introduction

Gliopendymal cysts are congenital epithelial cysts of the neuraxis. They have a characteristic inner lining, which consists of glial and ependymal cells. They are developmental anomalies arising from inappropriate displacement and heterotopia (ectopic gray matter) of ventricular epithelium during neuronal migration [1].

Case report

A 14-year old boy had a history of generalised tonic-clonic seizures from the age of 6 years. He was free of seizures until 6 months ago when seizures recurred, associated with intermittent headache. Neurological examination was normal. The electroencephalograph showed left-sided focal sharp wave activity. Cranial CT scan revealed a well-defined non-enhancing cystic mass, eroding the adjacent skull (figure 1). Radiological diagnosis was a 'pilocytic astrocytoma'.

Craniotomy and complete excision of the cystic mass was performed. Histology of the cyst wall showed an

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