Denture as an unexpected cause of obstructive jaundice

A 78-year-old woman who presented with jaundice and fever was referred from another hospital to our endoscopy unit. Her laboratory tests revealed a total bilirubin concentration of 11.7 µmol/L. Computed tomography (CT) scans revealed dilatation of the main biliary duct and the presence of a foreign body in the peripapillary area (Fig. 1). The appearance of the foreign body was suggestive of a denture, and the patient reported having involuntarily ingested, 3 days previously, a denture that had been implanted many years ago. We performed an endoscopic retrograde cholangiopancreatography (ERCP), which revealed a protruding papilla with the appearance of an impacted stone. We started to perform a sphincterotomy using a precut needle-knife and completed it with a standard sphincterotome. After this, the denture was immediately expelled and allowed to pass into the duodenum (Video 1). In the following days, the patient’s total bilirubin level decreased and she was discharged home.

Foreign bodies may lead to a wide variety of complications, although the majority of foreign bodies will be passed spontaneously; among the elderly, the most common object is a dental prosthesis [1]. To the best of our knowledge, this is the only reported case of an impacted denture causing jaundice. We are unable to explain the possible way in which the denture could have got into the papilla, although such an occurrence is known to be possible because there are other reports of foreign bodies in the biliary tract, including toothpicks and surgical clips [2–4]. The speculated mechanism is reflux from the duodenum [5]. In this case, the sphincterotomy led to a fast resolution of the biliary obstruction and the patient was discharged a few days later. Because the majority of the ingested foreign bodies are unintentional and asymptomatic, the true incidence is difficult to evaluate, but we should nevertheless bear in mind the possibility of biliary obstruction being caused by small foreign bodies.

Competing interests

The authors declare that they have no conflict of interest.

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