A 37-year-old woman was admitted to our hospital for endosonography because of a pancreatic duct dilatation. Originally, this dilatation had been noted during magnetic resonance imaging (MRI) (Fig. 1) for epigastric pain recurring episodically over a period of years. Endoscopically, we found a metallic object trapped inside the papilla Vateri (Fig. 2). Endosonography revealed calcifications in the pancreatic head (Fig. 3) suggesting chronic pancreatitis. The metallic object was removed endoscopically with a snare and was found to be a Kobayashi ligature (Fig. 4). This device is used by orthodontists and is fixed by drilling it into dental braces. Our patient reported that a dental brace had been implanted at the age of 12. The extracted ligature was not drilled, substantiating the suspicion that it had been ingested before fixation to the brace, and probably swallowed during the implantation procedure. After extraction of the ligature from the papilla, our patient’s clinical symptoms improved remarkably. In summary, our patient suffered from chronic pancreatitis caused by obstruction of the papilla Vateri by an orthodontic device implanted years earlier.

Chronic pancreatitis is characterized by progressive fibrotic destruction of the pancreatic secretory parenchyma [1]. There are only a few reports on obstruction of the papilla Vateri by an ingested foreign body resulting in acute, but not chronic, pancreatitis [2, 3]. Ingestion of dental bodies is quite commonly reported [4], although mostly after implantation; however we only found one review report on devices ingested during dental treatment [5]. That publication mainly reported on swallowed reamers which were removed within the first month after implantation.

Our study reports a case where a metallic device resided for years obstructing the papilla Vateri and resulting in chronic pancreatitis. Moreover, it emphasizes that dental devices may be swallowed not only after an implantation procedure but even during it. If ingestion remains undetected, it may result in chronic complications.

Competing interests: None

Maximilian Tiller, Wolfgang Schepp, Felix Gundling, Jochen Tuerck
Department of Gastroenterology, Hepatology and Gastrointestinal Oncology, Bogenhausen Academic Teaching Hospital, Munich Municipal Hospital Trust, Munich, Germany
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Corresponding author

Maximilian Tiller
Klinik für Gastroenterologie, Hepatologie und Gastroenterologische Onkologie
Klinikum Bogenhausen
Städtisches Klinikum München GmbH
Englschalkingerstr. 77
81925 Munich
Germany
Fax: +49-89-92702486
Gastroenterologie.kb@klinikum-muenchen.de