A drinkable foreign body: acrylated resin

A 65-year-old schizophrenic patient had ongoing epigastric pain. Gastroscopy revealed a large foreign body (Fig. 1). Endoscopic fragmentation and retrieval were impossible (Fig. 2). The patient denied having ingested the object, which, considering its size, was plausible. The foreign body was not dissolvable, causing symptoms and a risk of intestinal obstruction or perforation. Surgical removal was necessary (Video 1). A laparoscopic gastrotomy of the anterior gastric wall to harvest the object (Fig. 3) was followed by removal through a lengthened trocar incision in a retrieval bag. The gastrotomy was sutured laparoscopically. Postoperative recovery was uneventful. Physicochemical analysis of the object revealed it to be acrylated resin. The patient then admitted to “accidentally” having drunk clear paint. The chemicals contained in the paint hardened in the stomach forming a solid foreign body (Fig. 4). Intraintestinal formation of a large object is best known in form of a bezoar made up of many small foreign bodies, like in “Rapunzel syndrome”, when the object is made up of the patient’s own hair [1], although bezoars also occur with other material [2].

The psychiatric disorder in our patient suggested intentional ingestion of the liquid. Concealment of the facts by patients is common with deliberate foreign body ingestion [3]. Ingestion of foreign material in adults is usually intentional [3], sometimes suicidal. Paint has been used successfully to commit suicide [4].

Clinical management of ingested foreign bodies is well described [5]. Many objects pass naturally, but the rate of surgical intervention reaches 16% [5]. Endoscopy should not delay surgical consultation. Unusual in this case is that a liquid, in the stomach, becomes a solid object which could not have been swallowed as such. A laparoscopic approach can be a safe and efficient way to minimize trauma and minimize recovery time for the removal of such a large intestinal foreign body.

Video 1

Laparoscopic view of the gastrotomy and placement of the foreign body inside a retrieval bag. The gastrotomy is then sutured.
J. Knuth¹, B. Krakamp², M. M. Heiss¹, D. R. Bulian¹

¹ University of Witten/Herdecke, Cologne-Merheim Medical Center, Department of Abdominal, Vascular & Transplant Surgery, Cologne, Germany

² University of Witten/Herdecke, Cologne-Merheim Medical Center, Department of Internal Medicine I, Cologne, Germany

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Corresponding author
J. Knuth, MD
University of Witten/Herdecke
Cologne-Merheim Medical Center
Department of Abdominal, Vascular and Transplant Surgery
Ostmerheimer Strasse 200
Köln 51109
Germany
Fax: +49-221-89078561
jurgen.knuth@gmx.net