Introduction
Duodenal perforation from a foreign body is very rare. However toothpick ingestion can be associated with significant complications including perforation. Only 143 cases have been described between 1927 and 2017.4

Case presentation
A 50-year-old woman presented to our hospital with a 4-week history of dyspepsia and vague abdominal pain with exacerbation of symptoms and vomiting in the last 2 weeks prior to presentation. Her abdomen was soft and non-tender on examination. Computerised tomography (CT) scan of the abdomen demonstrated mural thickening at the anterior wall of the duodenum and associated fat stranding. This was seen in association with an obliquely oriented hyperdense focus extending from the gastric lumen across the first part of the duodenum into segment 3 of adjacent liver with surrounding poorly defined irregular hypodensity measuring 21 x 15 x 16 mm in size, suspicious for liver abscess (Figure 1).

Endoscopy demonstrated a toothpick penetrating the first part of duodenum (Figure 2). This was manoeuvred and extracted endoscopically (Figure 3). After removal, there was drainage of pus from the tract. The patient had an uneventful post-procedural recovery after a short course of intravenous antibiotics and was discharged. Follow up CT scan 2 weeks later demonstrated complete resolution of the liver abscess.

Discussion
Most patients are unaware of having ingested a foreign body and their presentation often differs.5,6 CT scan of the abdomen is very useful in detecting foreign bodies and their associated complications.
Most cases of perforation are caused by ingestion of thin pointed objects.\textsuperscript{7} Swallowed toothpicks very frequently lead to perforation of gastro-intestinal tract. Endoscopy is the first line management for perforation of the stomach and duodenum in patients who do not show evidence of peritonitis.\textsuperscript{8}

In summary, management of swallowed toothpick can be very challenging, depending on the associated complications, as they often do not pass through and end up in perforation of the gastro-intestinal tract. Early gastroscopy with prior CT scan of the abdomen can improve the management.

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Conflict of interest
The author declares no conflict of interest.

Patient consent
Patient signed an informed consent and gave her permission to publish the related medical data.

References

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