

Use of double-balloon enteroscopy to extract a partial denture embedded in the ileum for 5 weeks

Xin Yin¹

Shoubin Ning¹

Tao Sun¹

Jin Niu²

Peng Yuan³

Author details can be found at the end of this article

Correspondence to:

Peng Yuan;
yuanpeng834700@126.com

A 50-year-old woman accidentally swallowed her partial denture. Five weeks later abdominal radiography confirmed the position of the swallowed denture (**Figure 1**). Per oral and per rectal double-balloon enteroscopy was carried out. The denture was found in the ileum approximately 60cm from the ileocaecal valve. The clasps on the denture were gripped with forceps and pulled out from the intestine wall under direct endoscopic visualisation (**Figure 2**). The small bowel was kept inflated while the denture was pulled out to prevent re-impaction or scratching by the sharp clasps. The patient was discharged 3 days after the procedure and no complications were seen after a 3-month follow up.



Figure 1. Abdominal radiograph showing a partial denture and a hook lodged in the intestine.



Figure 2. The denture (measuring 4.6x2.3 cm) which was extracted using a double-balloon endoscope.

How to cite this article:

Yin X, Ning S, Sun T, Niu J, Yuan P. Use of double-balloon enteroscopy to extract a partial denture embedded in the ileum for 5 weeks. *Br J Hosp Med.* 2021. <https://doi.org/10.12968/hmed.2020.0759>

In the rare cases when dentures have impacted in the small bowel, laparotomy used to be the only option for removal (Gachabayov et al, 2015; Nicolodi et al, 2016), unless the denture was close to the ileocaecal valve and could be reached by colonoscopy (Abe et al, 2014). This case offers a new solution for similar cases.

Author details

¹Department of Gastroenterology, Air Force General Hospital, Air Force Military Medical University, Beijing, China

²Department of Healthcare of 940 Hospital, Joint Logistics Support force of PLA, Lanzhou, China

³Department of Pain Treatment, Tangdu Hospital, Air Force Military Medical University, Xi'an, China

Financial support

This work was supported by the National Natural Science Foundation of China (grants 81802345), China Postdoctoral Science Foundation funded project (grant 2019M663984).

References

- Abe K, Miki A, Okamura T et al. Endoscopic removal of a denture with clasps impacted in the ileocecum. *Clin J Gastroenterol.* 2014;7(6):506–509. <https://doi.org/10.1007/s12328-014-0539-6>
- Gachabayov M, Isaev M, Orujova L et al. Swallowed dentures: two cases and a review. *Ann Med Surg.* 2015;4(4):407–413. <https://doi.org/10.1016/j.amsu.2015.10.008>
- Nicolodi GC, Trippia CR, Caboclo MFFS et al. Intestinal perforation by an ingested foreign body. *Radiol Bras.* 2016;49(5):295–299. <https://doi.org/10.1590/0100-3984.2015.0127>