Question:What is the novelty of the described case?Reply:

Magnetic objects pose a unique risk, as they can lead to pressure necrosis and perforation if not promptly removed. The attractive force between the magnetic objects can cause them to adhere to each other across the intestinal wall, leading to pressure necrosis, perforation, or obstruction.

Children have a shorter gastric emptying time than adults, with research reporting that gastric emptying time after consuming solid food is less than 4 hours for children. For children, this means that foreign objects accidentally swallowed by the child may be expelled into the small intestine within a shorter period of time. Therefore, timely endoscopic intervention can prevent magnetic foreign bodies from entering the small intestine, thereby avoiding the occurrence of intestinal perforation, bleeding, ischemia, and necrosis. Current guidelines recommend that children undergo general anesthesia after fasting for more than 6 hours. However, after 6 hours, as food is emptied from the stomach, foreign objects may also be expelled into the small intestine, thereby increasing the difficulty of their removal. General anesthesia with endotracheal intubation can prevent the occurrence of aspiration and choking after anesthesia, while ensuring the safe implementation of endoscopic procedures under general anesthesia.

In order to protect the airway and minimize the risk of aspiration and choking, tracheal intubation anesthesia is our preferred measure. By implementing timely tracheal intubation anesthesia and initiating early endoscopic intervention, we can avoid the occurrence of potential complications. In this case, the gastric endoscopic foreign body removal procedure was successfully completed within 38 minutes of admission.

It is important to highlight the significance of timely intervention and the use of appropriate techniques, such as tracheal intubation anesthesia and endoscopy, in managing cases involving magnetic foreign bodies. These interventions not only help in the safe removal of the foreign body but also reduce the risk of complications. By prioritizing the well-being and safety of the patients, we can ensure successful outcomes in such cases.

Problem : References to the literature data should be updated to strengthen the Discussion section of the manuscript.

REFERENCES

1 Demiroren K. Management of Gastrointestinal Foreign Bodies with Brief Review of the Guidelines. Pediatr Gastroenterol Hepatol Nutr 2023; 26: 1-14 [PMID: 36816435 DOI: 10.5223/pghn.2023.26.1.1]

2 Zhang S, Zhang L, Chen Q, Zhang Y, Cai D, Luo W, Chen K, Pan T, Gao Z. Management of magnetic foreign body ingestion in children. Medicine (Baltimore) 2021; 100: e24055 [PMID: 33466161 DOI: 10.1097/MD.00000000024055]

3 Cai DT, Shu Q, Zhang SH, Liu J, Gao ZG. Surgical treatment of multiple magnet ingestion in children: A single-center study. World J Clin Cases 2020; 8: 5988-5998 [PMID: 33344597 DOI: 10.12998/wjcc.v8.i23.5988]

4 Zhang RY, Cai P, Zhang TT, Zhu J, Chen JL, Zhao HW, Jiang YL, Wang Q, Zhu ML, Zhou XG, Xiang XL, Hu FL, Gu ZC, Zhu ZW. Clinical predictors of surgical intervention for gastrointestinal magnetic foreign bodies in children. BMC Pediatr 2023; 23: 323 [PMID: 37355569 DOI: 10.1186/s12887-023-04125-8]

5 Ayalon A, Fanadka F, Levov D, Saabni R, Moisseiev E. Detection of Intraorbital Foreign Bodies Using Magnetic Resonance Imaging and Computed Tomography. Curr Eye Res 2021; 46: 1917-1922 [PMID: 34325598 DOI: 10.1080/02713683.2021.1945108]

6 Jin Y, Gao Z, Zhang Y, Cai D, Hu D, Zhang S, Mao J. Management of multiple magnetic foreign body ingestion in pediatric patients. BMC Pediatr 2022; 22: 448 [PMID: 35879696 DOI: 10.1186/s12887-022-03501-0]

7 Beck CE, Witt L, Albrecht L, Dennhardt N, Böthig D, Sümpelmann R. Ultrasound assessment of gastric emptying time after a standardised light breakfast in healthy children: A prospective observational study. Eur J Anaesthesiol 2018; 35: 937-941 [PMID: 30095551 DOI: 10.1097/EJA.000000000000874]

8 Smith I, Kranke P, Murat I, Smith A, O'Sullivan G, Søreide E, Spies C, in't Veld B; European Society of Anaesthesiology. Perioperative fasting in adults and children: guidelines from the European Society of Anaesthesiology. Eur J Anaesthesiol 2011; 28:

556-569 [PMID: 21712716 DOI: 10.1097/EJA.0b013e3283495ba1]