www.jmscr.igmpublication.org Impact Factor 5.244

Index Copernicus Value: 5.88

ISSN (e)-2347-176x ISSN (p) 2455-0450

crossref DOI: http://dx.doi.org/10.18535/jmscr/v4i6.04



Huge Denture Causing Acute Obstruction in Oesophagus and Stridor Case Report

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Abstract

We report a rare case of an unusually long foreign body (Denture) Impacted in the mid esophagus of a 62 year-old man. He was illiterate drink wine regularly. He came to me with 4 or 5 person with his with history of taking wine with lunch and after it acute obstruction since lunch at 12:30 pm on 22-5-2016 and reached kota by 9:30 pm till that time he was NBM and we take time to anaesthetic and with help of endoscope we did it successfully. Next morning after check x- ray and swallowing food, water and breakfast without any difficulty, then we discharge him.

Keywords: Foreign body, Esophagus, denture

Introduction

Majority of ingested foreign bodies, particularly if they are smooth or smaller than 12 mm in through diameter will pass safely the gastrointestinal tract. Severe problems such as perforation may occur in some circumstances, for instance, following ingestion of sharp objects, bone fragments, pins or long foreign bodies (greater than 6.5 cms). The postcricoid region is the site of impaction of foreign bodies in 84% of the subjects. Impaction of a bolus of food in the distal esophagus in adults is frequently related to pre-existing stricture, diverticulum or tumour.² Adult with non food foreign bodies have a high incidence of psychiatric and social derangements.

Most foreign objects will pass through the pylorus, although on occasion, some objects may remain in the stomach for a long period. Once beyond the pyloric canal most objects, even sharp edged foreign bodies such as pieces of glass or nails, will pass without harm until the terminal ileum which is again a site of predilection for Ingested impaction. foreign bodies occasionally remain fixed in the caecum, ascending colon or sigmoid colon. Non contrast CT scan is indicated for diagnosing suspected upper esophageal foreign bodies not expected to be visible on plain radiography ³ and in order to rule out perforation.²

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Case Report

Sixty two year old gentleman, presented to the emergency services at night with complaints of difficulty in swallowing, pain on swallowing, drooling of saliva and pain in the chest following the accidental ingestion of "denture" with which he was drinking wine and eating lunch. Suddenly piece of denture approx. 4-5 cm swallowed and causes acute obstruction and distress, also having problem in respi. he came to me at 9:30 pm at night from bundi but basically he was from devil. locally I sprayed but did not got relieve.

Finally this time he couldn't retrieve it and landed in emergency department



Figure 1.

He was illiterate, without any chronic disease and at presentation there were symptoms of respiratory distress or hoarseness. The general physical examination was unremarkable except that he was looking anxious. Examination of the ear, nose and throat was all within normal limits and on indirect laryngoscopy there was pooling of saliva in both pyriform sinuses. An X-ray of the neck and chest region AP and lateral view was unremarkable.



Figure 2.

Subsequently a CT scan of the neck and chest region revealed a long radio opaque foreign body in the whole length of the esophagus and also impinging into the stomach. So a diagnosis of foreign body esophagus was made and the patient was subjected to rigid esophagoscopy under anaesthesia. Using general adult oesophagoscope, upper end of the foreign body was encountered just beyond the cricopharynx and it was grasped securely with a grasping forceps and 37.5 cm long wooden foreign body was removed along with the Jackson's esophagoscope

A check esophagoscopy was done and revealed no injury to the oesophageal mucosa. The post operative period was uneventful and the patient was allowed orally after 12 hours.



Figure 3.

Discussion

A foreign body impacted in the esophagus requires immediate attention and treatment. Review of literature reveals that dysphagia (92%) and tenderness in neck (60%) are the most common clinical features. Majority (89%) patients come to the hospital within 24 hours. X-ray of the neck (lateral view) is the most useful investigation with presence of air in the esophagus being a significant finding.4 Most foreign bodies are more or less radio opaque and will be readily recognized on a plain radiograph. Their progress in the bowel, if needed can be checked periodically. Ingested bone fragments appear as linear or slightly curved densities with sharp margins. However, some foreign bodies such as small fish bones or pieces of plastic and wood are only faintly radio opaque and their detection may require a CT scan. Foreign bodies in hypopharynx and cervical esophagus such as chicken & fish bones usually need radiologic workup. Non contrast CT scan may demonstrate these small calcified esophageal foreign bodies.⁵ Indirect signs visible on plain radiography are soft tissue swelling and/or air due to oedema or haematoma. doubtful and suspected perforations oesophagography should first be performed with hydrosoluble contrast medium to exclude perforation & study can then be completed with a barium examination. The contrast medium may impregnate the surface of the foreign body and render it more conspicuous. Radiographic signs of impaction in the distal esophagus are dilatation of the esophagus proximal to the obstruction with air fluid level as well as absence of air in the fundus of the stomach. Post-cricoid region is the site of impaction of foreign bodies in 84% of the subjects. The procedure of esophagoscopy is successful in 97% of the patients and fails in 3%. Coins are the most common foreign bodies (60%), followed by meat related foreign bodies (22.5%) and dentures in 5% cases. Complications occur in 18% patients and are more common in adults (37.1%) compared to children (8.8%). The most serious complication is pneumo-mediastinum. Maximum complications occur with dentures (80%) and bone chips (42%).4 Foreign body in the esophagus is a serious condition and early removal by rigid esophagoscopy is recommended which is a safe and effective procedure. The other modalities of treatment involve removal with a laryngoscope in case of foreign bodies impacted hypopharyngoscope pharynx, hypopharyngeal foreign bodies and less easily foreign bodies are removed using a flexible esophagoscope. The common complications occurring while using a rigid oesophagoscope are injury to the lips, teeth tongue, palate and esophageal perforation which commonly occurs at cricopharyngeal of Complications can be reduced if treatment is started within 24 hours of foreign body impaction.6

Sharp end of the foreign body has to be taken in the lumen of the endoscope to avoid complications. Partial dentures with sharp hooks, metallic springs, and screws are the most difficult and dangerous object to remove from oesophagus ^[7]. One can cause laceration and perforation during removal of such objects. Due to the high risk of complication, we took the decision of pushing the foreign body distally towards the stomach and retrieved it with open surgical technique.

Conclusion

Early diagnosis and immediate removal of foreign body are key to avoid any complications. Although 80% to 90% of the foreign bodies pass smoothly through the gastrointestinal tract, the nature of foreign body has to be determined. In

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case of a discbattery, it should be removed surgically if it remains in any one position for more than 24 hours. Sharp and large foreign bodies such as a screw have to be removed to prevent any further complications.

It is advisable to have a team approach while dealing with such sharp and impacted foreign bodies.

Disclosure

None of the authors was given an honorarium, grant or other form of payment to produce this paper. We declare no potential conflict of interests, real or perceived.

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