Case report of a piece of dishwashing steel wool in a child's pharynx

Parvin Abbaslou, Maryam Ahmadi

Department of Pediatric, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran

Introduction
Foreign body ingestion happens at all ages, especially in children (1). Most foreign bodies pass through the gastrointestinal tract without any complications, but pharyngeal foreign body is a medical emergency (2,3). The most common pharyngeal foreign bodies are fish bones, small pieces of food, and plastic toys that often pass with no symptoms, but sometimes they may migrate to the soft tissues of the neck and result in localized infections (4,5). Swallowing of unusual foreign bodies that has been observed in a limited number of cases can cause specific symptoms and complications and may require surgical intervention (6). Factors involved in foreign body complications include the age of the person, the time elapsed since swallowing, the type of foreign body and accompanying factors such as mental retardation (7,8). The present case report pertains to the presentation of a child with a piece of dishwashing steel wool in the pharynx.

Case Presentation
A 10-year old boy was presented with a history of painful ingestion of liquids and solids from five weeks ago. According to the child and parents, swallowing was associated with throat pain and itching. Oral examination did not reveal anything significant. In lateral neck radiographs of the patient, a metal wire was observed in the hypopharyngeal region opposite the 4th and 5th cervical vertebrae. Endoscopic attempts to remove the foreign body were not successful. Therefore, the foreign body was removed from the patient's pharynx in the operating room under general anesthesia. No complications were observed.

Conclusion
Despite the prevalence of swallowing foreign bodies in children, ingestion of a piece of dishwashing steel wool not diagnosed for three weeks was considered interesting to report. Pharyngeal foreign bodies are medical emergencies; therefore, it is particularly important to suspect the presence of a foreign body and perform diagnostic procedures.

Keywords: Foreign Body, Ingestion, Children
and their diagnosis can be problematic when neither history nor clear clinical signs exist (5). Taking history and careful physical examination can help diagnose the presence of pharyngeal foreign bodies. They can be seen directly in most cases, but sometimes plain radiography, computed tomography (CT) scan, and even magnetic resonance imaging (MRI) are required (6). Pharyngeal foreign bodies are of particular importance due to their potential complications such as aspiration into the airways, infiltration into the surrounding soft tissues, perforation, inflammatory reaction and infections. Clinical symptoms include painful swallowing, itching, increased salivation, children’s refusal to eat and drink and sometimes halitosis. Swallowing unusual objects such as toothbrushes and tools is often seen in people with mental retardation. According to reports, fish and chicken bones are the most common foreign bodies that get stuck in the pharynx (7,8). Regarding the present patient, a piece of dishwashing steel wool that had penetrated into a carrot while washing it got stuck in the hypopharyngeal soft tissue during swallowing. Due to the lack of a clear history, the child who exhibited symptoms of painful swallowing and throat itching received various treatments for infections and allergies for 5 weeks. Since the wire had penetrated into the pharyngeal soft tissue, it could not be observed in direct examination of the pharynx; however, an opaque object was seen in the posterior pharyngeal area on the lateral neck radiograph (Figure 1). Few studies have reported swallowing of unusual foreign bodies; for example, Kim et al reported a case of toothbrush swallowing in a patient with mental retardation (9), and Kurul and Kandogan reported the presence of a gold ring in the throat of a 4-year old child who had been treated for halitosis for 3 years (10). Failure to detect pharyngeal foreign bodies can lead to complications such as infection, cellulitis and abscess formation. Serious complications may occur due to proximity to the airways, esophagus, blood vessels, etc (11-13). The most important challenge in detecting foreign bodies swallowed by children is the lack of a clear history from the child, parents and the caregivers. In the case of our patient, treatment was delayed for 5 weeks because the child and the parents were unaware that the child had swallowed the piece of wire. In cases of suspected foreign body ingestion, diagnostic techniques such as direct vision, endoscopy and plain radiography can be considered, which may be very helpful for detecting radiopaque materials.

Conclusion
The presence of foreign bodies in the pharynx should be considered in children with symptoms such as painful swallowing, halitosis, and frequent pharyngeal infections. In addition, families should be trained about not washing food materials with tools that have separable and cutting pieces.

Authors’ contributions
PA performed the intervention and MA prepared the manuscript for report.

Ethical Issues
The authors considered all subjects related ethical issues and the parents of patient signed the consent form.

References
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