An unusual entry site for a nasal foreign body: a neglected trauma patient

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ABSTRACT

Foreign body (FB) in the nose is a frequent situation seen generally among children. A variety of objects left in different sites of the nose has been reported in the literature. Insertion of a FB to the nose is generally via the anterior nares. In this report, an unusual entry site for a nasal FB in a neglected trauma patient is presented. FB should be suspected and investigated in children after penetrating facial injury.

Key words: Maxillofacial trauma; nose; penetrating injury.

INTRODUCTION

Most otorhinolaryngologists do not give careful attention in the follow-up of foreign bodies (FBs) in the nose. FB in the nose is generally seen among young children. Many factors lead children to insert FBs into the upper aerodigestive system, including curiosity, frivolity, nasal itching or irritation caused by rhinitis or otalgia, and attraction to small, round objects, as shown in the literature.[1] Studies show that the younger the child, the more frequent the insertion of FBs. [2] The most common FBs are toys, nuts, beans, rubber erasers, grapes, and paper. Some typical anatomical sites of FBs include nasal entrance anterior to the middle turbinate and floor of the nasal cavity just below the inferior turbinate. [3] However, one must visualize every anatomical location in the nasal cavity to avoid overlooking FBs.

We present a neglected case of FB in which the FB entered the nasal cavity after external trauma to the face and went unnoticed for four years.

CASE REPORT

An 11-year-old female patient complaining of a foul nasal odor for about six months admitted to our outpatient clinic. She had a trauma history in which she fell onto a plastic pen four years ago, and as the patient described, the pen lodged in her right nasolabial skin and was removed immediately. After being taken to an emergency department, the skin laceration at the nasolabial sulcus was sutured. She complained about odorous nasal discharge and admitted to an otorhinolaryngologist four years after the trauma. A paranasal computerized tomography showed a FB in the right nasal cavity penetrating through the middle concha and septum (Fig. 1). Afterwards, the patient was referred to our clinic for the removal of the FB. The physical examination revealed a 2 cm scar on the right nasolabial sulcus (Fig. 2). Nasal endoscopy under topical anesthesia showed a cylindrical FB in the right nasal cavity lateral to the middle concha (Fig. 3). The middle concha was retracted medially and the FB, a plastic pen cap, was removed using a Blakesley nasal forceps (Fig. 4). Nasal irrigation and antibiotics were given, and no infection or purulent discharge was seen in the follow-up.

DISCUSSION

Nasal FB in children is a frequent situation in otorhinolaryngology practice. It can be presented with odorous nasal discharge, foul nasal odor, and pain or discomfort in the nose. However, some authors have reported that 63% of the cases may be asymptomatic.[4] When a patient complains of long-standing, unilateral mucopurulent nasal discharge, one should suspect FB in the nasal cavity. The most common entry site for FBs is via the anterior nares, especially in young children.[5]
In this case, the FB had entered the nasal cavity transcutaneously, which is very unusual. Although there have been some cases with unusual sites of penetration, such as craniofacial trauma resulting from orbital foreign body,[6] the entrance of the nasal FB described above remains unique.

Foltran et al.[7] reviewed 1475 articles regarding FB in the airways over a period of 30 years, and noted that pen cap is not a common FB in the nose. Patients with nasal FBs usually admit to emergency departments for removal of their FBs. FBs can be removed either in the emergency service or otorhinolaryngology department. Although emergency practitioners are familiar with the removal techniques, multiple attempts may be required for removal,[8] and their failure rate can be as high as 35%.[9] Some FBs are inert and may remain in the nose for years, but others can harm the nasal mucosa, leading to mucosal ulcerations, epistaxis and toxemia in some cases. Longstanding FBs in the nose also tend to become encrusted with calcified material and become a rhinolith.[3] There are some cases in which the FB remained in the nasal cavity up to 40 years.[10] These can cause nasomaxillary abnormalities in the growing child.

Nasal FBs should not be neglected and must be removed as soon as possible, preferably by an otorhinolaryngologist. After removal, one must visualize the entire nasal cavity, endoscopically if possible, to ensure no other pieces are left in the cavity. In a child with a penetrating injury to the face, one should suspect and investigate any hidden FB embedded in deep tissues, even in the nasal cavity. If the penetrating object is available, it should be examined to ascertain if any part is missing.

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REFERENCES


Burunda yabancı cisimde sıradışı bir giriş yolu: İhmal edilmiş bir travma olgusu

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