ABSTRACT:

A foreign body in the oral cavity is usually associated with an accidental aetiology or habits which may lead to discomfort and infection to the patient. Timely management is necessary to overcome these problems. We present a case which describes a successful retrieval of a needle lodged in the interdental area.

Key words: foreign body, habits, management.

CASE REPORT

A 12 years old asian girl presented to the Department Of Pedodontics And Preventive Dentistry with a chief complaint of pain and food lodgement in the lower left back region of jaw since...
Figure 1: Mandibular arch showing distal caries with 74 and occlusal caries with 75.

Figure 2: IOPA showing radio opaque object in the interdental area between tooth 74 and 75.

Figure 3: Needle fragment visible after extraction of tooth 74.

Figure 4: Needle fragment after retrieval.

Figure 5: Post extraction IOPA.
7 days. Intraoral examination revealed a proximal carious lesion involving the distal surface of tooth 74 and occlusal caries with 75 (Figure 1). The soft tissue in the interdental area appeared normal. An intraoral periapical radiograph was advised which revealed the presence of a sharp radiopaque object present in relation to the interdental area between tooth 74 and 75 (Figure 2). On further questioning the child revealed to have used a needle which had broken in an attempt to take out the impacted food. The procedure was explained to the child and parent; and informed consent was obtained. Extraction of tooth #74 was carried out under local anaesthesia. This provided vision and accessibility for the retrieval of the broken needle from the interdental area (Figure 3). On removal, the fragment measured approximately 8 mm in length (Figure 4). A post operative radiograph was taken to evaluate the complete removal (Figure 5). The patient was followed up a week later when clinical examination revealed adequate healing and absence of any pathology. Space maintainer was not planned for this patient since tooth 34 was in Nolla's stage 7.

**DISCUSSION**

One can inflict injuries to oneself owing to various activities like finger nail biting, bruxism, post-anaesthetic injury, to extreme self mutilation of oral mucosa. These injuries may be, unintentional, premeditated or habitual and may be due to a wide range of organic functional or behavioural etiologies. A radiograph plays a significant role in diagnosis, particularly if the foreign body is radiopaque. Various radiographic methods have been summarized by Hunter and Taljanovic to localize foreign objects such as vertex occlusal views, parallax views, triangulation techniques, tomography and stereoradiography. Metallic objects are radiopaque unless made of aluminium. McCullock suggested that access to foreign object is improved by removing small amount of tooth structure. In the present case since the needle was not clinically visible and it was lodged deep into the interdental area, extraction of the carious primary tooth was considered which showed more than 2/3rd of distal root resorption which provided better visibility of the broken needle and thus permitted easy removal.

**CONCLUSION**

The clinical behaviour in patients who have had a penetrating injury is determined by the nature of the impacted foreign body. Removal of the foreign body becomes mandatory in most cases since they generally lead to secondary infection with abscess and eventually a formation of a fistula. Goldstein has reported a case of actinomycosis following placement of a jewellery chain piece into a maxillary central incisor. Apart from prevention of infection, it was necessary to remove the foreign body in this case as it was present interdentally and would interfere with achieving proper contact of the succedaneous teeth.

**REFERENCES**