Supernumerary teeth are defined as teeth in excess of the normal dental formula. They occur less frequently in primary dentition than in permanent dentition. They have a reported prevalence of 1%-4% in permanent dentition and 0.2%-1.9% in primary dentition. Interestingly, 35%-50% of supernumerary teeth in primary dentition are superseded by extra teeth in the same location in the permanent dentition.

Primosch classifies supernumerary teeth into two types according to shape. Supernumerary teeth of normal shape and size (eumorphic) are termed ‘supplemental’, or ‘incisiform’, whereas teeth of abnormal shape and smaller size (dysmorphic), are termed ‘rudimentary’ and include ‘conical’, ‘tuberculate’ and ‘molariform’ teeth.

The case reported here – bilateral supplemental teeth impeding the eruption of permanent maxillary lateral incisors – emphasizes the importance of early diagnosis and treatment during early mixed dentition.

**CASE REPORT**

An 8-year-old boy was referred to the pediatric dental clinic with the chief complaint of dental caries. The patient’s medical history was non-
contributory, there was no previous trauma to the teeth or jaws, and extraoral examination revealed no abnormality. The patient’s mother had experienced no complications during pregnancy, and there was no family history of congenital anomalies.

Intraoral examination showed mixed dentition, together with bilateral supplemental primary maxillary lateral incisors (Figure 1). Panoramic and periapical radiographs revealed bilateral supplemental permanent maxillary lateral incisors underneath the bilateral supplemental primary maxillary lateral incisors (Figure 2).

All carious teeth were restored. The bilateral primary maxillary lateral incisors as well as the bilateral supplemental primary maxillary lateral incisors were extracted to facilitate the eruption of the permanent maxillary lateral incisors and the associated supplemental teeth. Regular follow-up was scheduled to monitor the eruption of the permanent lateral incisors and the associated supplemental teeth.

After 8 months of follow-up, the maxillary right distal lateral incisor had erupted, whereas the mesial lateral incisor had impacted (Figure 3), and the decision was made to extract the impact-
ed tooth. A maxillary left lateral incisor that had erupted in the palatal regions was also extracted, as two maxillary left lateral incisors of similar shape were present. The mucoperiosteal flap was raised, and the impacted maxillary right lateral incisor was extracted (Figure 4). Sutures were removed 1 week following extraction, and the patient was recalled for tri-monthly clinical and radiographic examinations in order to closely follow the eruption pathways of the remaining teeth (Figure 5). At 10 months of follow-up, no root resorption or loss of vitality was observed in the adjacent teeth (Figure 6). Some rotation of the maxillary left lateral incisor and a super Class I occlusion in the buccal segment was observed.

DISCUSSION

According to the literature, supernumerary teeth are rarely observed in deciduous dentition. Humerfelt et al.\(^8\) point out that hyperdontia in primary dentition is often overlooked because the additional teeth often erupt normally, are of normal shape and appear to be in proper alignment, as in the case reported here. While the infrequent reporting of supernumerary deciduous teeth may partly result from the fact that their reasonably normal eruption causes them to go unnoticed, it is also true that many children do not undergo an initial dental examination until the eruption of the permanent anterior teeth, so that supernumerary deciduous anterior teeth that have erupted and exfoliated normally would not be detected.\(^9\) Distinguishing between a normal tooth and its supplemental 'twin' may be difficult. A supplemental tooth may exhibit deep palatal pith and coronal invagination.

Supplemental teeth, as the name implies, refer to teeth that are duplications of teeth in the normal series. Supplemental teeth in both primary and permanent dentition are most commonly located in the anterior maxillary region; however, whereas supplemental teeth in permanent dentition are most likely to appear as extra maxillary and mandibular lateral incisors, supplemental primary teeth are most likely to appear as upper central incisors.\(^8,13\) In the case reported here, the supplemental teeth were bilateral maxillary lateral incisors.

Supernumerary teeth may occur singly, multiply, unilaterally or bilaterally in the maxilla, man-
Bilateral cases are rare, making up only 8% of the total. A literature search found only five reports of bilateral maxillary central incisor duplication.15-18

Multiple supernumerary teeth are reported to be associated with a number of syndromes, including cleft lip and palate, cleidocranial dysostosis, Gardner’s syndrome and Chondroectodermal dysplasia. Although multiple supernumerary teeth that are not associated with any syndrome are extremely rare,3 no syndrome was identified in the case reported here.

Hyperdontia observed in primary dentition should alert the clinician to the possibility of hypodontia in the permanent dentition. A careful radiographic survey of both dental arches will provide the clinician and the parents with a preview of any potential problems likely to develop during the course of the child’s growth and development.19

In the case reported here, supplemental teeth in the primary dentition were superseded by supplemental teeth in the same location in the permanent dentition.

Various complications are associated with supernumerary teeth, including impaction, delayed eruption, or ectopic eruption of adjacent teeth; crowding; development of median diastema; eruption into the floor of the nasal cavity; formation of primordial or follicular cysts, with significant bone destruction; root resorption of adjacent teeth; and esthetic problems, including those associated with crowding.1,2,6,20,21 In making decisions related to extraction of extra teeth, if two teeth are equally well formed, the tooth that is displaced the most should be extracted.13

CONCLUSIONS
Supernumerary teeth can cause problems in the eruption and alignment of normal dentition. Early diagnosis and treatment are therefore important to prevent complications.

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