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## Congenital Granular Cell Epulis

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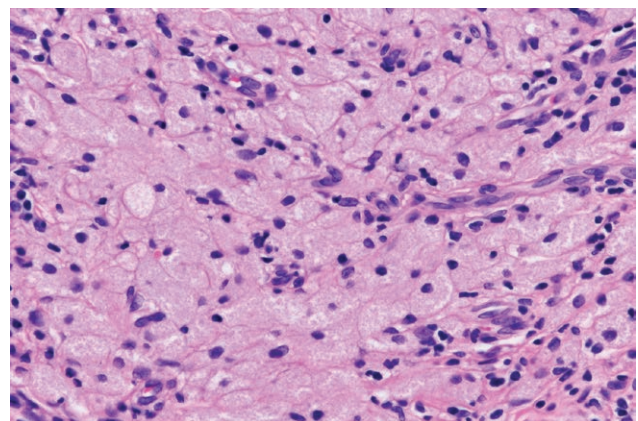
Sir,

**A** 1-day-old Japanese baby girl was consulted to oral and maxillofacial surgeon. An approximately 15×15 mm pedunculated mass with a healthy color attached to maxillary alveolar ridge was observed in the right maxillary deciduous canine or first molar region (Fig. 1). The baby was born by normal delivery at 40 weeks and 2 days' gestation. Birth weight was 3,486 kg. She had no congenital malformation. The mother of the baby was a 33-year-old Japanese; she had asthma. There were no medications, alcohol, or tobacco used. Both the father and older brother had no medical history. A clinical diagnosis of congenital epulis was made. She showed no feeding problem. Four months after, she became 60 cm tall with a body weight of 6.5 kg, and the patient was scheduled for surgical excision. The surgical excision was performed under general anesthesia without complications. Histopathological analysis of the mass showed proliferation of large cells with granular cytoplasm under the squamous epithelium (Fig. 2). Immunohistological analysis revealed S-100 negative, weakly positive for CD68 (KP-1), and finally diagnosed with congenital granular cell epulis. No postoperative recurrence was recognized. Congenital granular cell epulis is a rare benign tumor arising from alveolar ridges of newborns and composed of sheet of cells with cytoplasmic granules. There is no reactivity with S-100 protein. Females are affected 10 times more often than males. It occurs twice as often in maxilla as in the mandible, usually presenting as solitary, somewhat pedunculated fibroma-like lesion attached to the alveolar ridge near the midline. The size varies from a few millimeters up to several centimeters.<sup>1</sup> In this case, the authors have planned to resect the mass under general anesthesia at a body weight that allowed general anesthesia to be performed more safely until before mandibular deciduous central incisor eruption (before 6 months old) concerning the trauma caused by baby teeth, because (1) she showed no feeding problem

and (2) a spontaneous regression of congenital epulis has been reported.<sup>2</sup> Eventually, the surgical excision was performed at 4 months, although interestingly the mass was shrunk from 15×15 mm to 5×8 mm. The histogenesis is still unknown.<sup>1-5</sup> In this case, the lesion showed weakly positive for CD68, which is a rare histopathological finding. However, some cases with CD68 positive are reported.<sup>3,4</sup> Vered et al.<sup>5</sup> have reported that immunohistological analysis using the broad panel of antibodies that characterize different tissues confirms no particular cell type for the histogenetic origin of congenital granular cell epulis. However, the lesion will be of non-neoplastic nature because the clinical course is characterized by



**Fig. 1.** Intraoral photograph in 1-day-old baby girl. An approximately 15×15 mm pedunculated mass with a healthy color attached to maxillary alveolar ridge was observed in the right maxillary deciduous canine or first molar region.



**Fig. 2.** Hematoxylin-eosin staining of the mass. Proliferation of large cells with cytoplasmic granules under the squamous epithelium was observed (magnification of ×400).

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(1) no growth after birth; (2) regression during the first year of life; and (3) no recurrence despite an incomplete excision.<sup>5</sup>

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