

# Dentigerous cyst – Case Report

University of Nevada, Las Vegas – School of Dental Medicine  
Melika Shayegh DMD

UNLV School of  
DENTAL  
MEDICINE

## Introduction

Dentigerous cysts are the most common type of odontogenic cysts. They originate from separation of follicles around the crown of unerupted or impacted teeth. Common sites are mandibular molar and maxillary canine. Most patients with dentigerous cysts are younger than twenty years of age.

## Case Report

An African American 8-year-old female patient presented to Pediatric Dentistry Clinic at University of Nevada Las Vegas (UNLV) on October 9<sup>th</sup>, 2021 for an emergency visit.

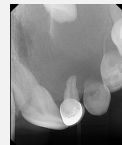
Chief complaint of recent swelling of the left cheek.

Clinical examination revealed extraoral swelling of left side of face, facial asymmetry, no tenderness upon palpation.

Radiographs revealed large unilocular, ill-defined border, radiolucency observed in the left maxilla. Radiolucency extended to maxillary sinus, displacing unerupted permanent teeth (10-13) and root resorption of primary teeth H,I,J.

## Radiographic Examination

(October 9<sup>th</sup> 2021)



## Treatment plan

Patient was referred to oral surgery for enucleation of cyst, extraction of teeth #10, H, I, J and biopsy of the pathology lesion. Orthodontics referral was suggested after treatment of pathology.

## Result

Biopsy report indicated that pathology was due to dentigerous cyst cause by tooth #10. Patient presented to UNLV clinic ten months after her first visit for follow up appointment.

## Post-Op Radiographs and Extra and Intraoral Photographs (August 25<sup>th</sup> 2021)



**Conclusion:** This case highlights the importance of an early and correct diagnosis of radiographs. Early diagnosis and conservative surgical approach are keys to successful management of dentigerous cyst in children. This preserves adjacent vital structures and allows bone growth, thereby maintaining function, aesthetics and overall, well being of the patient.

## References

- Browne RM. The pathogenesis of odontogenic cysts: A review. J Oral P 1. athol. 1975;4:31–46.
- Ikeshima A, Tamura Y. Differential diagnosis between dentigerous cyst and benign tumor with an embedded tooth. J Oral Sci 2002;44:13-17.
- Shear M. Speight Paul Cysts of the Oral and Maxillofacial Regions. 4th ed. Blackwell publishing, Bristol; 2007.