

## Endodontic treatment of a large cyst-like periradicular lesion using a combination of marsupialization: a case report

Soo-Yeon Hwang\*, So-Young Lee, Kee-Yeon Kum

*Department of Conservative Dentistry, School of Dentistry, Seoul National University, Seoul, Korea*

### I. Introduction

Treatment options to manage large periapical lesions range from nonsurgical root canal treatment and/or apical surgery to extraction. Current philosophy in the treatment of teeth with large periapical lesion includes the initial use of nonsurgical root canal treatment. When this treatment is not successful in resolving the periradicular pathosis, additional treatment options should be considered. Surgery may occasionally be required. Surgical treatment most often involves curettage and apical resection. However, simpler approaches such as marsupialization or tube decompression may be alternatives for large cystic lesions. This case report describes the endodontic treatment of a large cyst-like periradicular lesion combined with marsupialization.

### II. Case Presentation

1. Sex/age : M/21
2. Chief Complaint (C.C) : swelling and pus discharge on lower right molar area
3. Past Dental History (PDH) : N/S
4. Present Illness (P.I) : #36 per(-), mob(+), EPT(-), buccal sinus tract, Large periapical radiolucency
5. Impression : chronic apical abscess with pulp necrosis r/o radicular cyst
6. Tx Plan : #36 nonsurgical root canal treatment, surgical management if needed

### III. Conclusion

Irrespective of the size of the lesion, the periapical tissues have the potential to heal. Thus, nonsurgical root canal treatment should be considered prior to surgical treatment in cases of large cyst-like periapical lesions. When nonsurgical root canal treatment is not successful, surgical intervention should be considered.