Proceeding

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Management Pulp Necrosis With Open Apex Using Apical Plug Mineral Trioxide Aggregate

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ABSTRACT

Endodontic treatment of non-vital immature teeth with open apex can be done by apexification. Apex closing can be done by single-visit apexification known as apical plug. Apical plug is done to form artificial barrier in the apex using Mineral Trioxide Aggregate (MTA). MTA is a biocompatible material with good sealing ability and marginal adaptation. Apical plug using MTA will form immediate apex-closing. A 12 years old male patient complained about pain and swelling in maxillary right incisor since 2 weeks before visiting. There was a history of trauma around 3 years ago. Clinical examination tooth 11 with vitality test, palpation, mobility was showed negative and percussion test positive. Radiographic examination showed periapical lesions and open apex. Diagnosis was Pulp Necrosis with Asymptomatic Apical Periodontitis and Open Apex. Treatment using MTA apical plug after the root canal had been debrided with 1% NaOCl, Calcium Hydroxide was then placed in the canal, before the apical was filled with the MTA plug. Apical plug has been done with MTA (6 mm) in apical tooth 11. There are significant reduction on the periapical lesion without any clinical symptoms Final restoration was done by placing crown. Apex-closing using MTA as apical plug can be done successfully and time efficiency.

Key words : Open Apex, Apical Plug, Mineral Trioxide Aggregate

INTRODUCTION

Apexification is a procedure to form apical calcific barrier to close opened apices in non-vital teeth with immature roots. Apical closing with apexification can be done by one visit, also known as apical plug, or apexification using calcium hydroxide (conventional). The disadvantage of using calcium hydroxide in apexification is its long time span, frequent visits, and risk of tooth fracture. Apical plug is done to form artificial barrier in apex using Mineral Trioxide Aggregate (MTA). The benefits of MTA are its sealing ability as biocompatible material and good marginal adaptation. MTA can perform immediate apical closing.