



Regenerative Endodontic treatment on an autotransplantated tooth

Kazim Mirza

A Case Report

Faculty Acknowledgement: Dr Fatima Mashkoor (Oral Surgery) Dr Adham Azim (Endodontics)



18 year old female patient, ASA 1, presented for evaluation and treatment of tooth no 4.



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Cone Beam CT



Treatment Options and Plan

- Extraction #4 and replacement with supernumerary tooth autotransplantation
- Extraction #4 and close space with orthodontics
- Extraction #4 and replacement with implant / fixed partial denture / removable partial denture

Consideration of the evidence base and informed consent with patient

A plan was made by the oral surgery department faculty lead Dr Mashkoor to extract #4 and the supernumerary tooth autotransplanted into the site.

Two weeks after this procedure during which time the tooth was splinted, the patient was referred to the endodontic department under the guidance of Dr Azim.

Presentation after Autotransplantation at 2 weeks



Endodontic management of a tooth with an open apex



Regeneration of Autotransplanted
tooth

• MTA plug obturation of Autotransplanted tooth

Apexification

Endodontic treatment of supernumerary tooth



Visit 1: Access and irrigation with 1.5% NaOCL 20ml, placement of CaOH and sealed with sponge and Fuji IX. Scheduled a further appointment for 2 weeks

Visit 2: Access and irrigation with 17% EDTA 20ml. Bleeding induced with a Size #45 K file inserted beyond the apex, blood clot allowed to form within canal, collagen plug placed, Biodentin to seal at CEJ level, once set placement of dual cure composite.

Endodontic treatment of supernumerary tooth



Immediate Post Op radiograph

At follow up – O/S at 6 weeks

Tooth is asymptomatic and stable (no mobility) Occlusion checked WNL Percussion and Palpation

Endo Ice: - (#5 +) EPT: + 75 (#5 + 61)

Follow up



Pre operative

Post operative

3 months

Follow up





Pre operative



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Questions?

