



Apexification / Bleaching Case

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16 year old female with chief complaint of tooth 1.1 discoloration becoming more noticeable over the years. History of trauma about 8 years ago.



Lingual I.R.M. restoration appears "sunken in"; tooth tests normal to percussion, probing, mobility, palpation.



She remembers being treated over several visits by an endodontist in Saskatchewan. Radiograph suggests an apexification procedure was performed and the root obturated with thermoplasticized gutta percha. No obvious periradicular pathosis is present.



A liner of Vitrebond GIC was placed over top of the gutta percha at the level of the CEJ. A mixture of sodium perborate and sterile saline was used for a walking bleach procedure.



Immediate post-bleach radiograph to confirm sufficient removal of gutta percha to maximize bleaching agent in contact with the clinical crown.

1. Vitrebond GIC liner

2. Chamber containing sodium perborate/saline

3. Photac-fil GIC restoration (cotton pellet underneath)



Appearance after two changes of sodium perborate/saline bleaching agent (each for a duration of one week). It was decided to use a 30% H_2O_2 /sodium perborate mixture to more aggressively induce a colour change.



One week after placement of the sodium perborate/30% H_2O_2 agent. This procedure was repeated once more prior to a new composite resin restoration by her dentist.

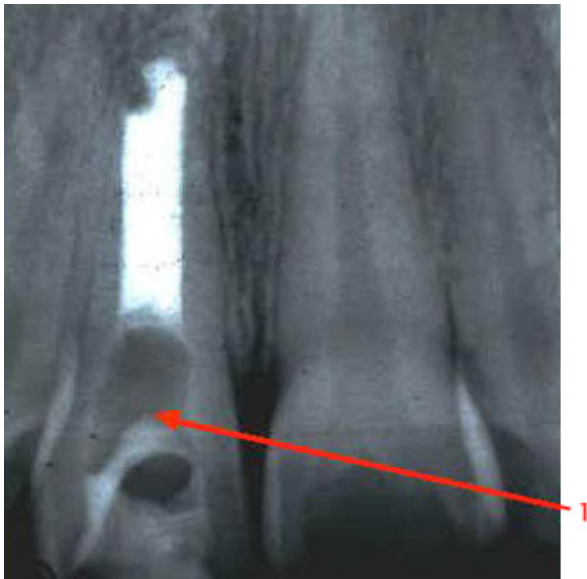


Appearance four months afterwards (with new resin restoration). No indications of cervical resorption*; tooth asymptomatic.

*incidence reported to be 1.96% in 204 teeth bleached in a similar manner, according to Heithersay et al., Austr Dent J 39:82-7, 1994.



Appearance at the 12 month-followup examination. Colour change appears to be stable and there are no indications of resorption.



Radiograph exposed at 12-month recall exam. This view shows evidence of an intact lamina dura and no signs of pathosis 9 years after the apexification procedure was initiated.

1. Composite resin restoration. Two resins of different translucencies were used to enhance the esthetic appearance of this tooth.



This patient is extremely happy with the improved appearance of her tooth. She says "thanks, Dr. Teplitsky!"