

A Few Tips on the Endodontic Management of Teeth with Deeply Broken Down Margins

Case 1: An injectable and light curable material, such as *OpalDam* from *Ultradent* can be injected around the deep margin to provide a seal-proof chamber. After being thinned internally, this barrier may also be used as a matrix for the final buildup.

Case 2: If pulp chamber can be reached first, a loose cotton pellet can be inserted to occupy the chamber; after decay is removed over the deep margin, a *Pre-Endo Buildup* restoration with an injectable dual-cure material such as *Fuji IX* from GC can be placed and then re-accessed for the endodontic treatment. Such a *Pre-Endo Buildup* may also be used as a matrix (after internal thinning) for the definitive core buildup or to facilitate the placement of a conventional band matrix.

Case 3 & 5: With good rubber dam isolation and carefully controlled micro-irrigation and micro-suction, endodontic treatments on teeth with deeply broken down margins may be performed without additional seal or pre-buildup.

Case 4 & 5: When working on a severely broken down teeth, it is usually a good idea to place a permanent buildup right after the root canal treatment in order to prevent potential coronal leakage and further breakdown of the tooth in the interim.

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