Succes rates of full ceramic restorations on endodontically treated teeth is lower than over vital teeth due to limited healthy tooth structure.

A case report of a full ceramic restoration elaborated with chair side CAD/CAM technology in one single appointment is presented on a severely compromised non-vital tooth is presented.

Img. 1 - Initial extraoral image. Patient presents with tooth no. 1.2 severely damaged.
Img. 2 - Initial intraoral image. Tooth 1.2 is endodontically treated with a resin bonded fiber post without ferrule effect.
Img. 3 - Shade selection is performed before the restorative procedure to prevent teeth dehydration and color alteration.
A resin core build-up was performed using the existing post due to its intraradicular length and because it was adhesively bonded.

After tooth preparation for a full ceramic crown, an intraoral scan was performed.

The restoration was designed using the CEREC 4.4 software.
A polychromatic feldspathic block was selected due to its high translucency and aesthetics.

After milling, the restoration was tried-in and a stain and glaze was applied.
Img. 9 - Final extraoral image after adhesive cementation.
Conclusions With proper material selection, and adhesive techniques, single unit ceramic restorations can be elaborated with chair side CAD/CAM technology in one single appointment.

References


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