Single appointment full ceramic anterior restoration: chairside CAD/CAM technology.

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Success 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.
Fig. 1 – Initial extraoral image. Patient presents with tooth no. 1.2 severely damaged.
Fig. 2  - Initial intraoral image. Tooth 1.2 is endodontically treated with a resin bonded fiber post without ferrule effect.
Fig. 3 – Shade selection is performed before the restorative procedure to prevent teeth dehydration and color alteration.
Fig. 4 – A resin core build-up was performed utilising the existing post due to its intraradicular length and because it was adhesively bonded.
Fig. 5 – After tooth preparation for a full ceramic crown, an intraoral scan was performed.
Fig. 6 – The restoration was designed with the CEREC 4.4 software.
Fig. 7 – A polychromatic feldspathic block was selected due to its high translucency and aesthetics.
Fig. 8 - After milling, the restoration was tried-in and a stain and glaze was applied.

Fig. 9  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.