A New Treatment Approach Utilizing CAD/CAM Restorations for Endo-Treated Permanent Anterior and Posterior Teeth in Pediatric Patients

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AIM

The aim of this research is to describe an alternative treatment for children with severely damaged upper permanent central incisors by endodontic root-canal therapy and placement of E.MAX endocrowns utilizing digital workflow.



METHODS

A 13-year-old female patient presented to the GSDM pre-doctoral treatment center during pediatric rotation with severe and profound caries in teeth #8 and #9 after RCT done 3 years ago. Endo-retreatment and endocrowns were planned as final treatment. CAD/CAM IPS E.MAX CAD blocks were chosen. Digital impressions were obtained using the Omnicam Intraoral scanner, and the endocrowns were designed digitally, milled and cemented with multilink.









CONCLUSION

The CAD/CAM endocrowns demonstrated to be a good material for the short-to-long-term treatment for this case. As GSDM Clinical Faculties, we encourage the Pre and Post-doctoral Pediatric Dentistry Departments to include this approach in the curriculum as an alternative treatment for children.





Citation

An Innovative Treatment Approach Using Digital Workflow and CAD-CAM Part 1: The Restoration of Endodontically Treated Molars in Children https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7068261/pdf/ijerph-17-01364.pdf

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