





PGE-153



SPLIT POST AND CORE: REDEFINING CONVENTIONAL

THROUGH DIGITAL INNOVATION



INTRODUCTION: Endodontically treated molars face significant challenges due to extensive tooth loss. Split post and core systems with digital technologies enhances the precision and fit, offering a groundbreaking solution, effectively restoring structural integrity while addressing the complexities of achieving proper insertion path.

SPLIT CAST POST AND CORE







DISADVANTAGE

ADVANTAGE

-Better Adaptation -Mechanical strength

-Easy retrieval of post

-Increased susceptibility to root fracture -Esthetics is compromised

FIBRE REINFORCED POST AND CORE







- -Direct fabrication-High fracture resistance
- -Even stress distribution



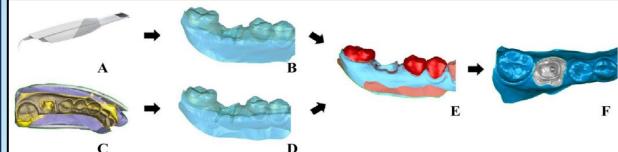


DISADVANTAGE

- -Low radiopacity
- -Tendency to debond in radicular

dentin

POLY ETHER ETHER KETONE POST AND CORE



Impression Making







PEEK Post & Core placement







3 Years follow up

References: Wang X, Zhong S, Ma D, Liu C, Liu Y, Zhao Y, Bai S. Polyetheretherketone split post and core for restoration of multirooted molar with insufficient dental tissue remnants by digital techniques: a case report and 3-year follow up. BMC Oral Health. 2024 Aug 7;24(1):904

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Before