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Endocrown: Minimal invasive post endodontic monoblock restorations

Introduction: The most difficult task is the rehabilitation of highly damaged endodontically treated teeth, which has a higher probability of failure than viable teeth. Although the traditional crown supported by radicular metal posts is still extensively used in dentistry, it has been heavily criticized for its invasiveness. There are currently new materials and treatment possibilities based solely on adhesion. The endocrown is advised for the repair of severely damaged molars, which necessitates the use of particular restoration techniques to meet biomechanical criteria. They make it possible to undertake a more conservative, quicker, and less expensive dental procedure. It is recommended when the pulp chamber provides suitable conditions for retention. The coronal portion of an endocrown is merged into the apical projection, which occupies the pulp chamber space and possibly the root canal openings. It preserves tooth structure while being minimally invasive. With the introduction of new ceramics and adhesives, this endocrown may be viewed as a viable alternative to traditional crown-root anchored restorations. Clinical investigations have demonstrated that the endocrown has a long functional life, and it has emerged as a potential option for the cosmetic and functional restoration of endodontically treated molar teeth. The current lecture will high light this minimal invasive restoration (endocrown) with presentation of clinical cases.

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