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Topic:
Fiber Posts: A Vital Technique for Prolonging Natural Tooth Function

Abstract

The preservation of natural tooth function is a fundamental goal in restorative dentistry. When teeth are severely damaged due to caries or fractures, the use of posts is often necessary to reinforce the remaining structure and support long-term function. Among various post types—metal, ceramic, and fiber posts—fiber posts have become a preferred choice due to their biomechanical advantages. Their elastic modulus, closely resembling that of dentin, allows for optimal stress distribution, reducing the risk of root fractures. However, successful fiber post restorations depend heavily on achieving durable adhesion to intracanal dentin, which presents inherent bonding challenges. Ensuring a strong and lasting bond is crucial for the long-term prognosis of restored teeth.The discussion will explore the critical role of fiber posts in prolonging natural tooth function, highlighting their mechanical properties, adhesive considerations, and clinical strategies for maximizing success.

Objectives

By the end of this lecture, participants will be able to:

1. Understand the principles and functions of dental posts.
2. Identify clinical situations that necessitate the use of posts.
3. Comprehend the step-by-step procedure for fiber post restorations.
4. Recognize key clinical considerations when placing fiber posts, including post preparation guidelines, optimal post length and diameter.
5. Learn how to apply fiber posts in real clinical practice through various case studies.