

# Aesthetic Single-Tooth Replacement Using High-Strength Ceramics and CAD/CAM Technology



**David A. Little, DDS\***

- Effective treatment planning and laboratory communication were essential to ensure optimal aesthetics that matched the shade of the adjacent natural teeth.
- Preparation of the defective amalgam filling was accomplished with a 1.5-mm chamfer margin to enable efficient scanning of the restoration using the CERCON (Dentsply Prosthetic) CAD/CAM system.
- In the laboratory, a high-strength coping was veneered with porcelain to achieve a natural, aesthetic result.
- The durability of the dense, CAD/CAM-fabricated restoration would be essential in withstanding the functional demands of the posterior region.
- The restoration's ability to prevent crack propagation and to provide biocompatibility made it a beneficial restorative solution.



Preoperative buccal view demonstrating aesthetic compromise



Intaglio surface of the metal-free CAD/CAM restoration

*David A. Little, DDS*



**CERCON (Dentsply Prosthetic) crown was fabricated using CAD/CAM technology**



**The CERCON crown was conventionally cemented in place**



**Natural integration of the aesthetic, full-coverage crown**

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