

Radiance Family Dental Implements Advanced CAD/CAM Digital Restorative Protocols in Spokane

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Radiance Family Dental has officially announced the integration of an expanded computer-aided design and computer-aided manufacturing (CAD/CAM) clinical workflow at its Spokane, Washington practice. Available to area residents as of fall 2026, the updated technological framework expands local access to precision indirect restorations from an established Spokane dentist, enabling patients to undergo high-resolution digital intraoral scanning, single-visit ceramic crown fabrication, and custom prosthetic designing within a unified clinical facility. Under the direction of Dr. Jane Mitchell, the clinical team implemented these advanced restorative protocols to address structural dental caries, cracked tooth syndrome, and secondary breakdown surrounding legacy dental restorations. Contemporary restorative dentistry increasingly relies on digital impressioning and chairside milling technology to optimize structural accuracy and streamline the delivery of full-coverage crowns, inlays, onlays, and fixed dental prosthetics.

According to clinical studies and consensus guidelines published by the American Dental Association (ADA) and the Academy of General Dentistry (AGD), CAD/CAM digital workflows offer distinct biological and mechanical advantages over traditional indirect restorative techniques. Traditional restorative processes require physical alginate or elastomeric tray impressions, which can induce patient gag reflexes, distort during polymerization, or introduce subtle dimensional inaccuracies during physical plaster model pouring. In contrast, 3D intraoral optical scanners project continuous light rays across the prepared tooth, capturing millions of precise spatial data points to construct a highly accurate three-dimensional digital topology of the patient's dental arch and opposing occlusal alignment.

Once digital impressions are captured, specialized CAD software allows the clinician to design the restoration with precise marginal adaptation, customized occlusal anatomy, and optimal interproximal contact points. The digital file is then transmitted directly to an in-office milling unit, which carves the custom restoration from a solid block of high-strength ceramic material, such as lithium disilicate or monolithic zirconia. These modern ceramic materials exhibit high flexural strength and wear resistance while matching the natural fluorescence and light transmission of human enamel. High marginal precision is clinically vital, as microscopic gaps between the restoration and natural tooth structure can permit fluid microleakage, marginal staining, and

secondary bacterial colonization that leads to recurrent internal decay.

In addition to improving marginal fit, single-visit digital manufacturing eliminates the requirement for temporary acrylic restorations and secondary anesthetic injections. Traditional multi-week waiting periods during laboratory fabrication expose prepared dentinal tubules to potential micro-bacterial leakage or temporary crown dislodgement. By completing the tooth preparation, digital design, automated milling, and permanent adhesive bonding within a single appointment, clinicians minimize pulpal irritation, reduce postoperative tooth sensitivity, and preserve maximal healthy tooth structure.

The practice has also established a structured patient education initiative designed to guide individuals through the physiological factors, material selection parameters, and maintenance requirements of digital restorations. Consultations focus on establishing clear clinical expectations, detailing the biomechanical advantages of conservative tooth preparation, and explaining how high-precision ceramic restorations distribute occlusal bite forces evenly across the natural root structure to prevent future tooth fractures.

Furthermore, this educational framework equips patients with specific home maintenance protocols aimed at extending the functional lifespan of digital ceramic restorations. Patients receive detailed instruction on non-abrasive oral hygiene products, proper interdental flossing techniques around restorative margins, and the necessity of managing nocturnal bruxism through protective occlusal nightguards to prevent ceramic chipping. By pairing digital manufacturing technology with rigorous pre-operative risk assessment and long-term preventive surveillance, the practice aims to deliver durable structural rehabilitation tailored to individual patient anatomy. Area residents seeking diagnostic evaluations, single-visit ceramic crown consultations, or comprehensive restorative treatment plans from a Spokane dentist can access direct telephone scheduling and educational clinical resources through Radiance Family Dental's official office in Washington.

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