

Candelas Dentistry Integrates Advanced Digital Technology in Arvada

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Candelas Dentistry, led by Dr. Nicholas S. Firestone, has updated its clinical infrastructure in Arvada, Colorado, incorporating modern digital imaging systems and computer-aided restoration technology. As a trusted dentist in Arvada, CO, the practice expansion focuses on increasing diagnostic precision, reducing procedural wait times, and streamlining restorative workflows for local patients.

Modern dental practices increasingly rely on digital technology to improve diagnostic accuracy and patient comfort. Integrating high-resolution imaging and chairside milling systems allows clinicians to capture detailed anatomical data, formulate precise treatment plans, and complete complex restorations in fewer office visits.

A key component of the technology update involves the implementation of three-dimensional digital imaging and low-radiation digital radiography. Traditional film X-rays present limitations in image resolution and require physical processing time. In contrast, digital imaging systems provide instantaneous, high-definition views of internal tooth structures, bone density, and surrounding soft tissues.

The benefits of advanced digital diagnostics include:

Minimized Radiation: Digital sensors require significantly less radiation exposure compared to traditional film-based radiography, improving diagnostic safety. **Immediate Image Capture:** High-resolution scans render instantly on chairside monitors, allowing clinicians to review findings with patients in real time. **Enhanced Precision:** Three-dimensional mapping assists in planning complex procedures, such as endodontic therapy, oral surgery, and dental implant placement, by detailing nerve pathways and structural bone depth. In addition to diagnostic upgrades, the practice has integrated Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM) technology into its restorative workflow. This system enables the in-office design, fabrication, and placement of custom ceramic restorations—such as dental crowns, inlays, and onlays—during a single clinical appointment.

Traditionally, receiving a permanent crown required multiple visits, messier physical impression materials, and the placement of a temporary restoration while an off-site laboratory fabricated the final piece. Utilizing

CAD/CAM technology allows the clinical team to take precise digital optical impressions, design the restoration on specialized software, and mill the ceramic unit on-site. Eliminating temporary crowns reduces the risk of inter-appointment fracture, marginal leakage, or tooth sensitivity.

The expanded online resource hub also addresses common patient questions regarding treatment costs, insurance coverage, and financing options for advanced restorative care. By demystifying the financial aspect of dental procedures alongside the clinical details, the practice helps patients plan their care with clarity and confidence. Clear information on expected treatment timelines and post-operative instructions ensures that individuals know precisely what to expect before, during, and after their visits.

Additionally, ongoing staff education remains a central priority as dental technologies continue to evolve. Regular training sessions allow the clinical team to stay current with software updates, calibration protocols, and advanced restorative materials, ensuring that every digital impression and milled restoration meets rigorous clinical standards. This focus on continuous technical proficiency helps maintain seamless coordination between diagnostic planning and hands-on patient care.

Integrating these digital advancements into daily operations reflects a long-term commitment to elevating the patient experience. By pairing state-of-the-art diagnostic and fabrication equipment with transparent communication and well-trained staff, finding an experienced dentist in Arvada, CO allows local patients to receive efficient, high-quality oral healthcare tailored to their individual needs.

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For more information about Candelas Dentistry, contact the company here: Candelas Dentistry
Candelas Dentistry (720) 779-0088 info@candelasdentistry.com

Candelas Dentistry

Website: <https://www.candelasdentistry.com/>

Email: info@candelasdentistry.com

Phone: (720) 779-0088