

Lykke Dentistry Introduces Same-Day CAD/CAM Dental Crown Technology

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Lykke Dentistry has expanded its restorative dental services in Pflugerville through the implementation of digital intraoral imaging and computer-aided design and manufacturing (CAD/CAM) technology. Under the clinical direction of Dr. Emily Lykke, the practice now offers single-visit custom dental crown design and fabrication, reducing the standard multi-week treatment timeframe traditionally required for dental restorations.

The addition of onsite CAD/CAM technology allows the practice to alter how structural dental repair is delivered to local patients. Under standard restorative protocols, physical tray impressions are taken using physical putty materials, after which a temporary crown is placed while a third-party dental laboratory fabricates the permanent restoration offsite. This traditional process typically requires two separate office visits spaced two to three weeks apart, along with an interim period where temporary restorations can dislodge, break, or cause localized sensitivity.

With the newly introduced digital workflow, the full restoration process is consolidated into a single appointment. The practitioner uses a specialized intraoral scanner to capture thousands of high-definition 3D optical images of the prepared tooth and surrounding bite alignment. Specialized CAD software then constructs a precise virtual model, allowing the clinician to design the custom crown directly in the clinic. Once the design is finalized, an onsite milling unit carves the restoration from a solid, tooth-colored block of high-strength ceramic material. After custom glazing and thermal processing, the finished crown is permanently bonded to the patient's natural tooth structure during the very same visit.

Dr. Lykke noted that digital workflows streamline the restoration process by eliminating physical impression materials and temporary restorations, creating a more direct treatment experience for patients who require structural dental repairs.

Beyond individual restoration efficiency, the introduction of digital dental modeling allows for long-term record keeping and comparative analysis. Because digital scans create permanent electronic files of a patient's oral

architecture, the clinical team can track minor shifts in tooth alignment, enamel wear patterns, and gum line recession over long periods. This cumulative data helps the practice monitor subtle structural changes that might otherwise go unnoticed during routine visual exams, allowing for earlier preventative interventions before major restorative work becomes necessary.

While single-visit CAD/CAM restorations offer operational efficiency and precise marginal adaptation, clinical outcomes vary based on individual physiological factors. Key variables including the extent of structural tooth decay, subgingival margin location, heavy bite forces, and aesthetic demands in the anterior mouth help determine the optimal material and approach. During initial evaluations, the clinical team assesses these variables to determine whether a same-day CAD/CAM ceramic crown or a traditional laboratory-fabricated restoration—such as layered porcelain-fused-to-metal or gold—is appropriate for the patient's long-term oral health.

To support the adoption of this technology, the clinical team at Lykke Dentistry has completed specialized training in digital restorative techniques, digital impression accuracy, and modern bonding protocols. In addition to technical upgrades within the practice, Lykke Dentistry is working to expand its existing partnerships with regional dental insurance providers to broaden coverage options for advanced restorative treatments. The practice is also participating in local community oral health initiatives in the Greater Austin region to provide educational resources on preventative and restorative care.

Residents seeking additional information regarding same-day CAD/CAM dental crowns in Pflugerville, TX, restorative options, practice hours, or appointment availability can visit the Lykke Dentistry website, submit an online inquiry, or contact the administrative staff directly at their office location.

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