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CEREC Technology

Dental Technology of the Future...Today!

What is CEREC? CEREC is an acronym...

- **Chairside:** The technology is in the dental operatory and used while you are in the chair
- **Economical:** The procedure is economical for both dentist and patient
- **Restorations:** The procedure *restores* your tooth to its natural beauty, function, and strength
- **of Esthetic:** The restorations are metal-free and tooth-colored
- **Ceramic:** High-strength ceramics are used that are close in composition to your natural tooth structure.

for an advanced dental restorative system that allows your dentist to restore decayed teeth, place crowns, remove defective amalgam fillings, or place cosmetic veneers in just one appointment. This allows you to have the highest quality, most lifelike dental restorations in just one visit to the dentist...in, out, and on with your busy life. The state of the art CEREC system was developed in 1985 at the University of Zurich in Switzerland by a dentist, Dr. Werner H. Moermann, and an electrical engineer, Dr. Markus Brandistini. Today, CEREC 3 with CEREC 3D software is still the world's only chair side dental CAD/CAM restorative system. At the heart of the system is the innovative technology.



CEREC Acquisition Unit



The CEREC Acquisition Unit is mobile and houses a medical grade computer and the CEREC camera. Your dentist uses the camera to take a digital picture of your prepared tooth. This picture is used instead of a traditional impression. This means no impression tray and material for you to gag on. The computer and CEREC 3D software converts the digital picture to a three dimensional virtual model of your prepped tooth. Your dentist then *designs* your restoration right on screen using the software while you wait (and watch!). This software can assist your dentist with designing any single tooth restoration: crowns, inlays (fillings), onlays (partial crowns), and veneers. Once your dentist has designed your restoration (usually about 5 minutes), he or she clicks a button, and the design data is communicated via a wireless radio signal to the CEREC Milling Unit.

CEREC Milling Unit

Your dentist or dental assistant selects a ceramic block that matches the shade of the tooth being repaired. He or she then inserts the block into the Milling Unit. The data from the Acquisition Unit is used to direct two diamond coated burs to carve the block into the indicated shape of the restoration. This process usually takes 8 to 18 minutes depending on the size and type of restoration. After the milling is finished, your dentist polishes the finished filling or crown and bonds it into place.



With CEREC technology, your dentist can restore damaged teeth or enhance your smile with bio-compatible, tooth-colored materials in a single appointment. This technology has a track record of almost 20 years, and more than 100 studies confirm the clinical excellence of the method. Ask your dentist about CEREC today.

http://www.sirona.com/ecomaXL/index.php?site=Cerec_Patient_Technology