

A Day in the Life of a Restorative Dentist

First Patient: CEREC Inlay: Application of a topical anesthetic gel on the point of insertion of the needle for the patient's comfort. The anesthetic only penetrates into the tissue if the gel adheres to the mucosa. → ADHESION. After the preparation, application of the titanium oxide powder for making the surface reflective → ADHESION. Constructing and milling the restoration. The ceramic block is bonded to its metal support → ADHESION. Checking the occlusion with color tape → ADHESION. Seating the inlay with resin-based luting agent → ADHESION.

Second Patient: Prep, impression, and temporization for large ceramic FDP. Application of a topical anesthetic gel on the point of insertion of the needle for the patient's comfort. The anesthetic only penetrates into the tissue if the gel adheres to the mucosa. → ADHESION. After preparation, impression with silicone impression material. Application of silicone adhesive to tray → ADHESION. Impression material must optimally wet the prepared surface → ADHESION. Insulation of the shell for the temporary FDP → prevention of ADHESION. Cementing the temporary FDP with temporary cement → providing and avoiding ADHESION.

Third Patient: Cementation of ZrO crown on implant: The osseointegration of the implant is based on ADHESION; the formation of a gingival cuff is based on ADHESION (hemidesmosomes). Cleaning and priming abutment and inner surface of crown, bonding crown with resin based cement → ADHESION.

Fourth patient: Esthetic direct composite restoration: of course not possible without ADHESION.

Fifth Patient: Mucogingival surgery; gingival transplant. Anesthesia see above → ADHESION. Stabilizing

the margins of transplant with cyanoacrylate glue → ADHESION. Wound dressing at donor site → ADHESION

Sixth Patient: Small orthodontic pre-prosthetic procedure: brackets are bonded to the tooth → ADHESION

Seventh Patient: Cementing 6 veneers: of course ADHESION

Eighth Patient: Prophylaxis: Cleaning teeth with prophylaxis paste → ADHESION, application of fluoride varnish → ADHESION
Etc.

Dear Reader,

Based on this simple example, you can see that ADHESION has completely changed our professional life; in fact, ADHESION is the driving force of the progress in dentistry. Taking this thought a step further, ADHESION has also completely changed our daily life: Electronic components are bonded, a large number of car parts are put together with adhesives, bonding has even become increasingly important in airplane construction. Most of our furniture is made of laminates, insulation in kitchens and baths is done with adhesive silicones etc. Is there anyone who wants to say that ADHESION is not important???

Sincerely yours,



JF Roulet