

Contemporary Esthetic Dentistry: Minimal Adhesive Restorations

“Our patient was concerned about her smile”

Prof. Yasemin Özkan
University of Marmara
Turkey



Prof. Yasemin Özkan^{1*} and Assoc. Prof. AltayUludamar²

¹Department of Dentistry, Faculty of Dentistry, University of Marmara, Turkey

²Ilke Education Foundation, Kapodakya Vocational School, Turkey

COLUMN ARTICLE

The incessant search for beauty has motivated important advances in the physical and optical properties of dental materials. Technological advances in materials and techniques have been allowing to obtain natural esthetic results with conservative interventions. Developing esthetic technique, ceramic has been used due to its biocompatibility, longevity and resemblance with the natural appearance of teeth.

Porcelain laminate veneers (PLV) are among them esthetic and minimal adhesive technique means of creating a more pleasing and beautiful smile. PLV with in reason allow for the alteration of tooth position, shape, size and color. They require a minimal amount of tooth preparation and a more conservative restoration than a crown, which requires significant removal of sound tooth structure.

In this case, our patient's concern was her smile clinical examination revealed unsatisfactory old PLV upper teeth, discrepancies in incisal and gingival levels, and an asymmetry between arches, therefore, a decision was made here that it was time to replace the existing veneers (Figure 1).

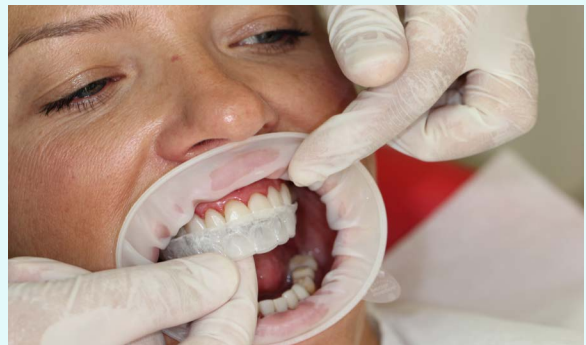


Figure 1: Baseline frontal view of patients.

Figure 2: A transparent vacuum formed matrix tried patient mouth.

Primary impressions of jaws were made using an irreversible hydrocolloid impression material. Using inter-occlusal base-plate wax record and an arbitrary facebow record, diagnostic casts were mounted in a semi-adjustable

articulator. A transparent vacuum-formed matrix was made on a duplicated cast made (Figure 2). In this case we used patients old veneers as a diagnostic mock-up and teeth preparation carefully done controlled old PLV decreasing on teeth (Figure 3). After teeth preparation (Figure 4) silicone impressions of the maxillary and mandibular arches, bite registration and diagnostic wax-up data were sent to the prosthetic laboratory along with the work order, which contained the following information: patient's chief complaint, color map, shade selection, prepared teeth shade, porcelain system selection and additional information about color and contours.

After 10 days, PLV fabricated using the IPS Empress e.max Ingots (IvoclarVivadent, Liechtenstein) ceramic system were applied to the teeth using a try-in paste (VariolinkVeneerTry-in, IvoclarVivadent, Liechtenstein) that simulates the final shade of restorations. Then PLVs cemented using Variolink Veneer adhesive cement (IvoclarVivadent, Liechtenstein). Our patient felt there was nothing better that could be done once she saw herself in the mirror. Although not the only alternative for all esthetic abnormalities, they are truly a remarkable restoration when they are the treatment of choice (Figure 5-8).

Porcelain veneers can do so much to enhance the appeal of a smile, to enhance the confidence of a patient, and to open up the personality of a person. When done properly, porcelain veneers can last for many years. They can even impact one's personality a great deal by providing confidence and enhancing self-esteem. This procedure can change one's life in a very positive way.

Keywords: Esthetic dentistry; Porcelain laminate veneers; Ceramic



Figure 3: Controlled teeth preparation.



Figure 4: Completed teeth preparation for upper jaw.



Figure 5: Natural appearance for upper centrals.



Figure 6,7: Final results with PLV.



Figure 8: Nice smiling with PLV.

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