ONE STOP SHOP
A NEW SINGLE SESSION AESTHETIC OPTION

Marc Bachmann evaluates 'Direct VeNears', a new aesthetic treatment option which promises optimum aesthetics in a single session

The increased demand for aesthetic restorations has led to a boom in dental treatment options and materials for aesthetic restorations, which largely lack any form of transparency. Preparing a meaningful treatment plan and selecting a suitable material for restoration is gradually turning into a real challenge for clinicians.

At present, two trends can be observed in the market: on the one hand the dental industry has virtually flooded the market with CAD/CAM-supported systems for processing ceramic materials, on the other a large number of composite systems have entered the market, all promising high quality aesthetic results. As a rule, CAD/CAM systems require complete technological solutions and corresponding investment. With the Edelweiss Composite and 'Direct VeNears' System, Edelweiss Dentistry now offers an alternative to these usually elaborate systems.

Dr Marc Bachmann qualified from the University of Zurich in 1995 and works in private practice in Landquart, Switzerland. His work focuses on periodontology and endodology and he is a member of the Swiss Dentists Organisation (SSO) and the Swiss Organisation of Endodontology (SSE).

In cooperation with Professor Didier Dietschi of the University Geneva, Switzerland, a process has now been developed for the first time that meets the wishes of both patients and dentists: optimal aesthetics in a single treatment session at an attractive price.

NATURAL LAYERING SYSTEM

The Edelweiss Composite and 'Direct VeNear' System consists of two components: a state-of-the-art nano-hybrid system with a filler ratio of 82% and a pre-fabricated, ready-to-use composite veneer made of the same material. The colour shade system for both components is based on the 'Natural layering system' by Professor Dietschi. It is based on determining the optical properties of natural dental enamel and dentin. Using the special Edelweiss Dentistry shade guide, one system component is selected for reproducing enamel and one for reproducing dentin. The selected components are then compared to

Figure 1: Initial presentation, showing multiple carious lesions

Figure 2: Preparation

Figure 3: Veneers before fitting

Figure 4: Adhesive procedure

Figure 5: Finishing after beding veneers to teeth

reference teeth. This systematic approach minimises the risk of imperfect colour shading of the restoration.

The second component of the Edelweiss System, the 'Direct VeNears', is further proof of the advanced technical and clinical know-how of the Austrian-based company. Laser processing of the veneer combines the best of both worlds: an homogenous, inorganic glass surface with a thermally annealed and biochemical composite core. This lends the restorations excellent mechanical properties, long-lasting brilliance, and protection against the ageing look often seen with composites.

The system is designed such that 'Direct VeNears' can be applied directly in a single treatment session. The layer thicknesses and the translucent properties of the shells correspond to those of juvenile enamel: 0.2 mm cervical, 0.5 mm facial and 1 to 1.3 mm incisal. Three sizes of blanks are available for the maxilla and two sizes for the mandible. The shells can be ground to obtain the right shape. Thus all acquired or congenital shapes and colour changes can be treated.

Figure 6: Final result after healing

Figure 7: Direct VeNear shapes on model, showing a very smooth and shiny surface, resulting from surface vitrification

DIRECT SOLUTION

I am fascinated by the fact that the combination of direct filling technique and application of ready-to-use 'Direct VeNears' provided by the Edelweiss Dentistry set now offers a direct high-quality solution for complex aesthetic cases in a single treatment session, which to date could only be treated successfully employing considerable technical and financial expenditure.

For the first time, Edelweiss Dentistry has provided aesthetic dental treatment as wished by dentists: a free choice of therapeutic means, at the same time with predictable results and efficient realisation. Also, the wishes of modern patients were taken into consideration with the treatment offering maximum comfort, long-lasting results and high cost-effectiveness.

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