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Correcting peg laterals with veneers

Ensuring a great smile with a minimally invasive procedure.

Our case study involves an eighteen-year-old athlete and his brother who were brought into our author's laboratory with the same condition, which their mother hoped to correct through cosmetic dentistry. That condition, known as "peg laterals", comparatively short lateral teeth, was causing the boys to be self-conscious about their smiles. It occurs when the teeth on either side of the centrals do not develop correctly and have a cone-like appearance. Because the lateral teeth play a central part in the role of a patient's smile, when they are misshapen, the deficiency is noted and recommended for improvement by the dentist. There are corrective measures

that can be taken, which was the purpose of this particular visit. The consultation involved discussion regarding the dentist's diagnosis and treatment preference. It was noted that the mother's inclination was to have her son minimally prepped for veneers on the laterals.

The author is often asked if this is possible with certain patients and whether or not it can be done. In his opinion, it depends on the adjacent teeth and whether or not there is room facially. In this case, there was 0.3 mm room for the facial area if the author applied external stain or, alternatively, a porcelain build-up. A veneer case must have 50 percent translucency and

slightly high opacity. The author decided that a light translucency ingot would be utilized with a build-up technique for this case.

01 During the custom shading appointment (Fig. 1), the author checked the patient's color and the cervical surface texture translucency and chroma. He next waxed up the coping with GC Press PC, (Fig. 2) utilizing proper contour compared to adjacent teeth in order to create golden proportion. This is the traditional laboratory technique for fabricating the final restoration (Fig. 3).

A GREAT SMILE VIA VENEERS



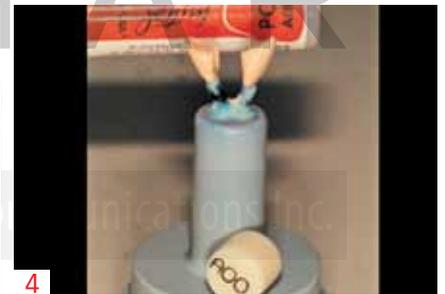
1 Fig. 1 Custom shade appointment



2 Figs 2, 3 Wax-up coping



3



4 Fig. 4 AOO ingot



5 Fig. 5 GC LF porcelain



6 Figs 6-8 After press



7



8



9 Figs 9-12 Build up for #7



10



11



12



Figs 13-16 Build up for #10

Figs 17-19 After baking



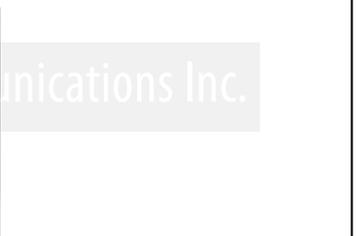
Fig. 20 Create surface texture

Fig. 21 GC Initial stain assortment

Fig. 22 Post staining



Figs 23-28 Patient try-in stage in the lab



Figs 29-30 Margin check and minor adjustments

Fig. 31 Final cementation view

02 The author decided to use an AOO ingot (Fig. 4) and GC Low Fusing porcelain (Fig. 5) in his lab processing. After pressing, the copings were fit to the die, a thin layer of opaque was applied and they were ready for build-up (Figs 6, 7, 8).

03 In the next images, the porcelain build-up steps for tooth #7 are illustrated (Figs 9, 10, 11, 12) with Translucency Enamel 59. The author then moved on to tooth #10, applying the build-up in the same way as tooth #7 (Figs 13, 14, 15, 16). After baking, on the die, appearance was photographed (Figs 17, 18, 19).

04 Creating surface texture was the next step and the author marked the restoration in the way that he wanted the texture to be produced (Fig. 20). When the res-

toration was ready for staining, the author chose GC Initial stain, shown here in a variety of colors (Fig. 21).

05 After staining, the final restorations were ready to be tried in (Fig. 22) shown in this mirrored view. The patient came into the lab for the try-in stage (Figs 23, 24, 25, 26, 27 and 28) in order to allow the author time to make any corrections or adjustments necessary to the color and/or fit.

06 The author then took a look at the marginal integrity (Figs 29, 30) and made some very minor, subtle adjustments (Fig. 31) before the restorations were permanently cemented by the clinician.

CONCLUSION

In order to match no-prep veneers with existing natural dentition, we need proper diagnosis from the clinician regarding convexity and any undercut that is present. The dentist might be asked to smooth the tooth down to prevent fracture and trim bulkiness for alignment purposes. Translucency of the adjacent teeth must be noted and adapted to mimic the natural dentition. The ingot chosen should be one of low opacity in order to match the harmony of the lobe, height of contour and incisal silhouette and surface texture. Minimally prepped veneers require all of these considerations in order to ensure that the dentist and patient will be happiest with the final restoration and its appearance in the mouth. **lab**