GC Case Report

Anterior layered composite resin veneer on a peg lateral tooth

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(Abridged version, full case study available on request)

For patient P. M-W, a 26 year old young man with generalised maxillary anterior spacing, congenitally-missing tooth 22 and peg lateral 12, we decided that a direct, layered resin veneer would be the best choice considering the need to be optimally conservative of remaining tooth structure and create a biomimetic restoration that would blend seamlessly into the tooth structure.

After

G-ænial ANTERIOR, GC Corporation, was the composite selected for this procedure.

Before









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Technique



Conserving the full volume of enamel was possible due to the under-contoured dimensions of the tooth so a no-preparation technique was used. Following retraction tooth 12 was micro-air abraded with 50 micron aluminium oxide.



G-ænial ANTERIOR AO2 was then incrementally applied to form the opacious body dentine mass. The material was sculpted incisally to create optical irregularity and mimic the internal structure of dentine as well as facially to start the deep formation of dentin lobes.



Finally, the enamel layer was applied in a single increment of G-ænial ANTERIOR Adult Enamel (AE) sculpted, brushed and defined interproximally.



Following etching and application of bond an initial lingual shelf was developed using G-ænial ANTERIOR Adult Enamel (AE). This layer exceeding no more than 0.3mm thickness and was the scaffold for the restoration.



Next, G-ænial ANTERIOR Incisal Enamel (IE), an achromatic translucent enamel shade was applied to the incisal third of the tooth. This would increase light transmission into the tooth in this critical area and allow optical viewing/characterisation of the constructed incisal details.



Following final curing a needle-point fine diamond bur and large, coarse disc was used to define anatomy. The patient sent away for 48 hours to allow for full hardness setting of the composite resin prior to final polishing.

