

Modeling of the occlusal biodesign: A new technique to achieve functional and esthetic posterior restorations

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The restoration of the posterior teeth, are very common procedures, but a great technical exigency is needed to obtain the functional, optical and structural integration of this one to the remaining tooth. This is achieved by reproducing those morphologic and anatomical characteristics of the posterior teeth designed for an efficient function and to be resistant to the forces received during the function; the projection and reproduction of these characteristics are named "Occlusal Biodesign" and can be performed by means of diverse techniques and materials. Modeling of the occlusal biodesign is a technique of shaping with composite resins by direct and indirect restorations with a dental morphology capable of integrating itself to the tooth, restoring its functional capacity, resistance and natural appearance. Modeling of the occlusal biodesign makes possible to project the final shape the tooth will have after being restored, allowing a planned execution of the procedure and a predictable result. The objective of this presentation is to widespread the biological principles on which nature is based to generate the shapes, contours, heights and depressions in the teeth; and to show how to reproduce this occlusal biodesign, using anatomical and occlusal references. This will allow restorations with functional occlusal contacts behave similarly to the tooth in front of light and forces; allowing the patient's needs to be met quickly for an extended period of time.

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