

The Key to Prosthetic Treatment - Transfer of The Occlusal Plane, a New Approach Digitalization

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For successful dental treatment, it is very important that the patient's information is transferred from the clinic to the laboratory without errors. In particular, it is essential that the information on the occlusal plane be accurately transmitted because it plays a role as a core for correctly setting the patient's vertical and horizontal intermaxillary relationship, arch form, occlusal scheme of the patient. To this end, the clinic should be able to accurately check and take the patient's three-dimensional (frontal, horizontal, sagittal) occlusal plane information through various anatomical indicators related to the maxilla and mandible.

Traditionally, the transfer method using a face bow has been educated, but due to high cost and complexity of use, in actual clinical practice, direct marking on the occlusal material or various types of rods are used as temporary measures. However, this method also has disadvantages in that it has an irregular shape, is highly deformable, and has limitations in delivering three-dimensional patient information.

In order to overcome these problems, a prefabricated occlusal plane transfer device (POP BOW system) has been recently introduced and applied to clinical practice. By connecting the components parallel to the patient's anatomical index, the patient's three-dimensional occlusal plane information can be easily and correctly transmitted on the model in a simple way. In addition, with this novel device, digital transfer of the occlusal plane, which has been difficult in CAD/CAM systems, can be easily performed.

In this lecture, from the traditional method to the CAD/CAM system, the importance of the occlusal plane transfer through communication between the clinic and the laboratory in the manufacturing process of dental prostheses will be reminded. It is expected that the clinical application of the newly introduced prefabricated occlusal plane transfer device will help improve the quality of dental treatment as an easy and economical occlusal plane transfer method.

Profile

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