KETTENBACHDENTAL
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# Occlusal vertical dimension and bite registration

## A simple and predictable method, essential for maintaining the detailed relationship between the arches, whether using analog or digital techniques.

A 65-year-old patient wishes to improve his chewing function and smile aesthetics, which have been compromised by severe tooth wear due to erosion and abrasion (Fig. 1-2). During the first visit, the essential records for case study and treatment plan are taken: extraoral and intraoral photographs, x-rays, impressions, facebow, and bite registration with vertical dimension augmentation.

All this information is shared with the dental technician to create a diagnostic wax-up that will be transferred to the patient's mouth using a mock-up (Fig. 3-4). This procedure allows for testing the aesthetics, as well as phonetic and functional tests. The mock-up made with **VISALYS**® TEMP can be modified subtractively using burs or abrasive discs, or additively by adding composite.

Once the treatment plan has been approved by the patient and the clinician, an impression of the mock-up is taken and sent to the technician for the fabrication of the preliminary provisional restorations.

During the next appointment, the old incongruous composite restorations are replaced, the teeth are prepared for crowns and bridges, the provisional restorations are relined and cemented with temporary cement.

Once the gingival tissues have healed and matured, impressions are taken using a double retraction cord technique with **PANASIL**® PUTTY SOFT and **PANASIL**® INITIAL CONTACT X-LIGHT, using a simplified two-step technique.

The occlusal relationships between the opposing teeth and their distance, and therefore the final amount of increase in vertical dimension, are recorded sequentially using multiple **FUTAR**® D injection. In this way, the dental technician will have a tool that will allow him to orient the two dental arches unequivocally (Fig. 5,6,7).

The procedure is also extremely useful when using an intraoral scanner, eliminating large gaps between the arches during bite registration, which are one of the major causes of image distortion of occlusal relationships.

The facebow is also taken using **FUTAR**® D. This elastomer, with its physical properties, is the ideal material for transferring this type of information to the laboratory: the rapid polymerization time and the high hardness achieved make the material extremely precise and easy for the clinician to use.

Finally, the final layered zirconium restorations are tried in and cemented with **VISALYS**® CEMCORE (Fig. 8-9). The use of high-quality materials combined with adherence to operating protocols improves the quality and efficiency of the dentist - dental technician relationship, thus achieving better clinical results while reducing the number of appointments.

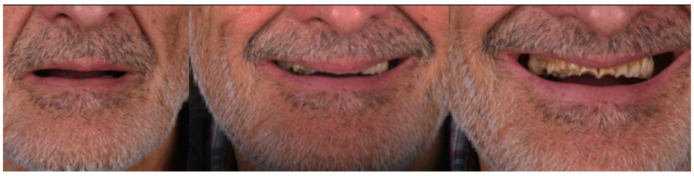

*Fig. 1*

*Fig. 2*

*Fig. 3*

*Fig. 4*

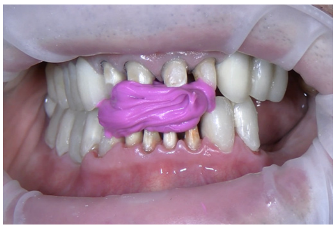

*Fig. 5*

*Fig. 6*

*Fig. 7*

*Fig. 8*

*Fig. 9*

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- Graduated with honors and a special mention from the University of Cagliari, Master in Clinical Dentistry Orthodontics (United Campus of Malta HEI Foundation).
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