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Dynamic jaw's motion; A new approach for prosthetic rehabilitations

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Prosthetic rehabilitation, of whatever type, is always subject to the technical difficulties of detecting the patient's position and therefore, referring to the description of the movements themselves, always referred to the individual patient. Up to now we have not had available systems that could acquire the mandibular dynamics on the patient and in return that could transfer such information both to an analysis software and to a robot which physically repeated on models as accomplished. Aim of the research program is to assess the reliability of the dynamic acquisition system of mandibular movements on a patient subject to aesthetic prosthetic rehabilitation. The registrations performed before the aforementioned rehabilitation allowed evaluating the prosthetic congruity before its installation on the patient. This evaluation was also performed on diagnostic wax up packaged using a digital workflow. The chair-side adaptation work after the cementation of the prosthetic rehabilitation was absolutely light and short considering the settings that the robot allowed to perform in the laboratory. We consider this method to be profitable and worthy of further studies.

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