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The importance of using Semi-Adjustable Articulators

One of the most important reasons for assembling the study models in a semi adjustable articulator is that the simulated condylar rotational axis between the arches will be closer to the patient's mandibular rotation axis, thus allowing a more reliable functional analysis in reference positions of static and dynamic occlusion. This axis of rotation is defined in the mandible by the medial poles of the condyles, which in the articulator is represented by the condylar sphere (fig.1).

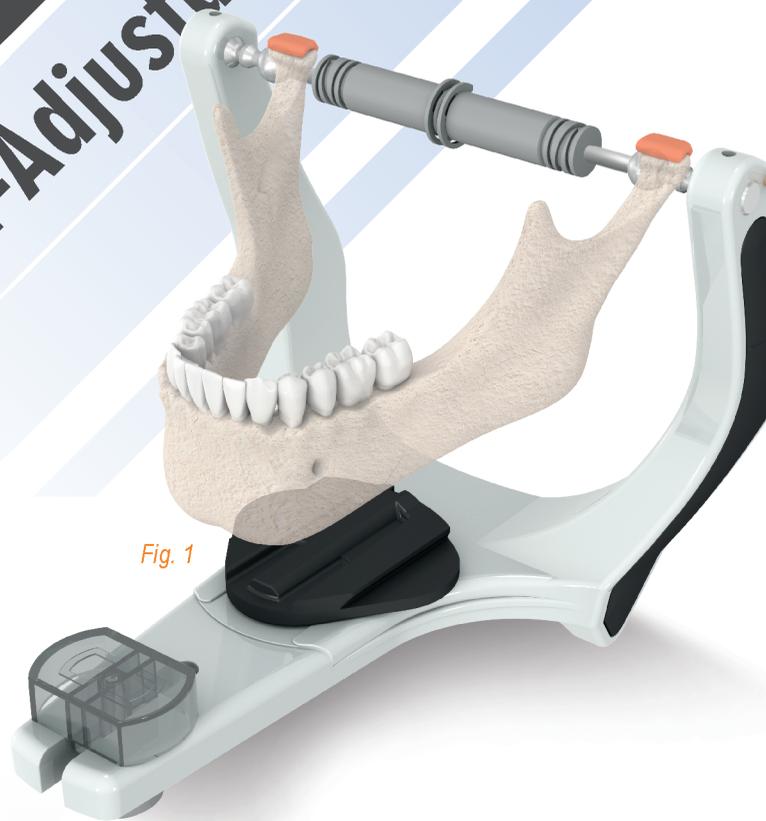


Fig. 1

When the plaster models are assembled in a non-adjustable articulator, known as “**simple hing articulator**”, the only position for analysis is the static, in which the models are fixed and the axis of rotation is in a different location of the patient and in a shorter radius. It results in a wrong trajectory of the mandibular movements, allowing the appearance of possible occlusal interferences of greater magnitude in the posterior region (fig. 2).

Thus, the assembly of study or work models in an articulator is essential to **achieve a correct diagnosis, planning with predictability, a safe and effective treatment with longevity.**

However, other advantages are enumerated: it maximizes clinical procedures, minimizes unnecessary adjustments and repetitions, as a result, we have time-consuming saving and cost reduction.

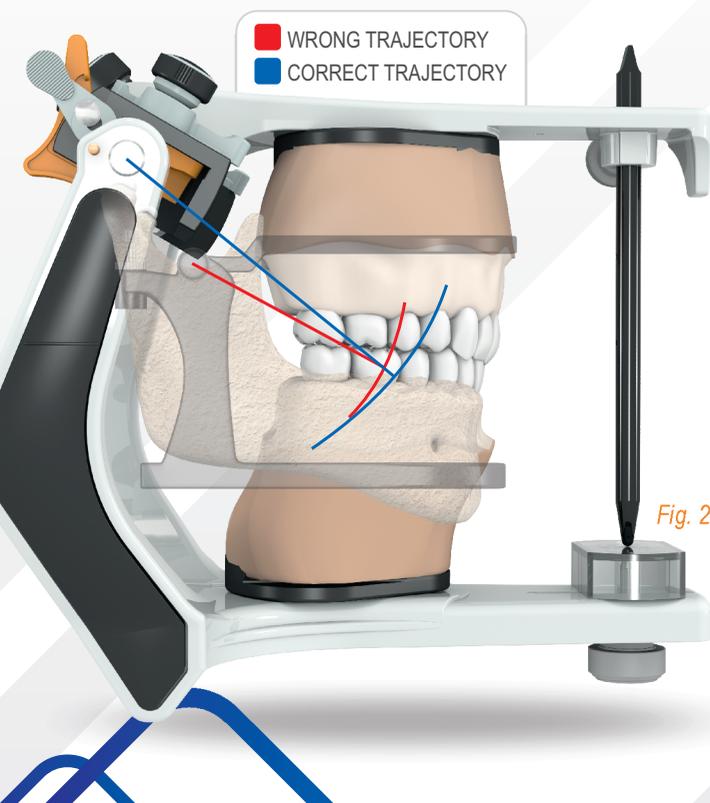


Fig. 2