**Dynamic stereometry of the temporomandibular joint**

**Summary / Zusammenfassung**

Aim of this project is to study the movement of the whole condyle in the fossa for didactic purposes and for the assessment of kinematic norms and irregularities of the temporomandibular joint (TMJ). The method, under constant development, consists in combining the three-dimensional software reconstruction of the joint structure (obtained by segmentation of a stack of tomographic images) with jaw movement data (obtained by means of optoelectronic tracking with 6 degrees-of-freedom) (Technology and Health Care, 2:193-207, 1994, Ann Acad Med Singapore, 24:11-16, 1995, Der Unfallchirurg, 261:106-114, 1997, Orthod Craniofac Res, 6-S1:37-47, 2003). It is thus possible not only to calculate and represent graphically the relative movement of the whole articular segments but also to perform quantitative measurements within the joint such as for instance the determination of time-varying intraarticular distances.

**Project Leadership and Contacts / Projektleitung und Kontakte**

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**Duration of Project / Projektdauer**

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