4D 下颌运动轨迹描记仪用于殆关系转移的精确性初探

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【摘要】 **目的**　利用 4D 下颌运动轨迹描记仪（4D™ Jaw Motion System）记录下颌运动轨迹，测量计算切导斜度、髁导斜度等相关参数，初步探讨其获得的参数值用于殆关系转移的精确性和可靠性。**方法**　选取个别正常殆、无颞下颌关节疾患等符合入选标准的 30 名志愿者作为受试对象，男女各 15 例，平均年龄在 25~35 岁之间，利用 4D 下颌运动轨迹描记仪测量下颌运动的左右侧 Bennett 角、左右侧前伸髁导斜度以及前伸切导斜度等 5 组参数，同时运用传统机械式殆架测量法计算相同参数，测量 3 次，取平均值。所得数据采用 *t* 检验进行统计学处理。**结果**　4D 下颌运动轨迹描记仪和机械式殆架测量所得参数平均值分别为：①右侧 Bennett 角：（24.81±5.23）° 和（25.35±4.05）°。②左侧 Bennett 角：（24.20±8.12）° 和（26.58±4.98）°。③右侧前伸髁导斜度：（ 37.60±9.11）° 和（34.13±6.74）°。左侧前伸髁导斜度：（38.25±10.32）° 和（35.60±8.40）°。⑤前伸切导斜度：（39.97±9.43）° 和（41.14±11.05）°。经过统计学分析，测量结果均在正常值范围内，两者之间差异无统计学意义（P>0.05）。**结论**　运用 4D 下颌运动轨迹描记仪测量殆架相关参数所得数值具有精确性和可重复性，操作简便，舒适度好。

【关键词】 4D 下颌运动轨迹描记仪　完全可调式殆架　下颌运动

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The study of four-dimensional mandibular motion trajectory measurement in oral clinical application

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【**Abstract**】 **Objective**　The purpose of this research is to apply 4D™ Jaw Motion System for recording the track of mandibular movement and measuring relevant paraments, including incisal guidance inclination and condylar guidance inclination, so as to explore its precision and reliability. **Methods**　Thirty subjects without malocclusion and TMJDS were selected for this experiment. We aimed to measure 5 paraments including Bennett angle, incisor inclination and condylar inclination, taking advantage of 4D™ Jaw Motion System and traditional articulator for the comparison of mean difference. **Result**　All subjects were successfully operated and the paraments obtained are as follows:　① The right Bennett angle for 4D™ Jaw Motion System and articulator are (24.81±5.23)° and (25.35±4.05)°, and the left are (24.20±8.12)° and (26.58±4.98)°. ② The right condylar inclination angle are (37.60±9.11)° and (34.13±6.74)°, simultaneously the left are (38.25±10.32)° and

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