Outcomes From A Retrospective Study of 626 Sequential Cases of BIOMET 3i Tapered Implants

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ABSTRACT

BACKGROUND: The placement of tapered-apex dental implants requires specific osteotomy preparation instrumentation. Drills for tapered implants establish a definite osteotomy depth for which care is needed to ensure the proper implant descent and seating. Implant design and the instruments provided for osteotomy preparation contribute to the elements needed for successful use of tapered implants. The aim of this evaluation was to document the success of a new tapered implant design and its effect on the success rate. METHODS: This protocol for conducting a retrospective study was submitted to high-volume users of the BIOMET 3i Tapered Certain Implant system. METHODS: In order to solicit participation and to determine the amount of data, the patients were provided with a data collection form that was standardized and forms and processed in one database management system. Baseline variables included demographics (gender, age at implant placement), diabetes, smoking behavior, implant site assessment (bone density), placement approach (stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage, stage,stage