Minimally invasive intraoral proportional condylectomy with a three-dimensionally printed cutting guide

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INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY
Volumen: 49
Número: 11
Páginas: 1435-1438
DOI: 10.1016/j.ijom.2020.06.015
Fecha de publicación: NOV 2020
Tipo de documento: Article

Abstract

The aim of this study was to describe the steps of a minimally invasive surgical technique used to perform a proportional intraoral condylectomy with a three-dimensionally (3D) printed cutting guide. The technique consists of two steps: virtual surgical planning and intraoral condylectomy. During virtual surgical planning, the mandibular ramus was measured bilaterally, the height of the proportional condylectomy was planned virtually, and a cutting guide was 3D printed. In the intraoral condylectomy, the mandibular condyle was approached intraorally, the 3D printed cutting guide was positioned in the sigmoid notch, and the proportional condylectomy was performed. The protocol reported in this technical note is the sum of knowledge acquired from a series of studies published previously by the authors, who have jointly developed a surgical technique that is both minimally invasive and accurate for the treatment of condylar hyperplasia.

Palabras clave

Palabras clave de autor: temporomandibular joint; condylar hyperplasia; intraoral; computer-assisted; CAD/CAM; minimally invasive surgery

KeyWords Plus: CONDYLAR HYPERPLASIA

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Información de la revista
- Impact Factor: Journal Citation Reports

Categorías / Clasificación
Áreas de investigación: Dentistry, Oral Surgery & Medicine; Surgery
Categorías de Web of Science: Dentistry, Oral Surgery & Medicine; Surgery

Información del documento
Idioma: English
Número de acceso: WOS:000581532000009
ID de PubMed: 32653260
ISSN: 0901-5027
eISSN: 1399-0020