Transconjunctival Approach Using Lateral Skin Extension for Reconstruction of Orbit Zygomatic Complex Fractures: Technique Description and a Case Series Analysis

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Abstract

Study Design: A descriptive-observational study of a series case report of patients diagnosed with orbito-zygomatic complex (OZMC) fracture with lateral wall involvement, was conducted. All patients were assessed in the Oral and Maxillofacial Surgery Service at Hospital El Carmen, Maipu, Santiago, Chile.

Objective: The purpose of this study was to evaluate a single-institution experience with the transconjunctival approach to the orbit, utilizing a lateral skin extension as unique approach to access to fronto-zygomatic suture, infraorbital rim and/or orbital floor.

Method: The authors identified 41 patients with OZMC fractures who underwent to surgical treatment over a 45 months period. Among this group, 21 patients needed fixation with osteosynthesis of the frontozygomatic suture, and 16 of whom were treated with the approach being studied. The authors assessed scleral exposure, eyelid position changes, ectropion, and entropion as outcome measures, and reported satisfactory outcomes at a minimum of 9 months follow-up.

Conclusions: This study concludes that in our experience, the transconjunctival approach utilizing a lateral skin extension allows a direct, easy, and quick access to the entire infra orbital rim, orbital floor, fronto-zygomatic suture and lateral wall of the orbit, up to spheno-zygomatic suture, with low associated morbidity and complications.

Palabras clave

Palabras clave de autor: transconjunctival approach; orbito-zygomatic complex fracture; lateral wall fracture; orbital trauma; midface trauma; lateral canthotomy; orbital approaches
KeyWords Plus: MUSCLE; SUBCILIARY; PREDICTOR

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Editorial

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