

**Хирургичен подход при многофрагментни фрактури на пода
на орбитата**

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Surgical approach to comminuted fractures of the orbital floor

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Abstract

Introduction: Combined comminuted fractures of the orbital floor present multiple problems during treatment. They often lead to enophthalmus and diplopia. Correction of the smashed orbit necessitates creation of adequate support for the prolapsed and incarcerated orbital contents. *Aim:* To follow-up the effect of orbital floor reconstruction with enzyme-processed lyophilized gamma-irradiated dura mater in combined comminuted orbital fractures. *Patients and methods:* In five patients with heavy orbital floor fractures the surgical reconstruction of the involved orbit was performed with enzyme-processed lyophilized gamma-irradiated allogeneous dura mater. *Results:* No complications dependent on the dura transplant were observed. In all patients the traumatic enophthalmus was corrected at the time of release from hospital. In three patients diplopia resolved within 3 weeks to 5 months after surgery. One patient lost the vision of the involved eye because of rupture of the bulbus, but the movements of the eye-ball remnant were preserved. *Conclusions:* Enzyme-processed lyophilized gamma-irradiated allogeneous dura mater is strong enough, stable in time and can be successfully used for orbital floor reconstruction.

Key words: enzyme-processed lyophilized gamma-irradiated allogeneous dura mater orbital floor reconstruction, comminuted orbital floor fractures, fronto-orbito-maxillary fractures, panfacial fractures,