Transplantation of autogenous oral mucosa with orbital implantation of hydroxyapatite for construction of conjunctival sac

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[ABSTRACT] Objective: To observe the clinical effects on transplantation of autogenous oral mucosa combined with orbital implantation of hydroxyapatite (HA) for reconstruction of conjunctival sac. Methods: A total of 109 patients (109 eyes) suffered conjunctival constriction were treated by above combined treatment for reconstruction of conjunctival sac. The patients' ages from 12 to 68 years old. Results: Both motility and the cosmetic results in 100 cases (100 eyes) were satisfied and there were only 9 cases of complications (8.25%). Among the complicated eyes, 3 eyes were exposure of HA, and were underwent reconstruction of conjunctival sac again in six months. Conjunctival epithelium could not cover the defect areas in the another 6 eyes. Conclusion: The transplantation of autogenous oral mucosa with orbital implantation of hydroxyapatite (HA) for reconstruction of conjunctival sac are safe and effective.

[KEY WORDS] Conjunctival disease; Oral mucosa; Hydroxyapatite; Eye, artificial; Surgery operation