Surgical Reconstruction of Ocular Surface Tumors Using Fibrin Sealant Tissue Adhesive.

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Abstract:

Purpose: To evaluate the surgical outcomes of ocular surface reconstruction in corneal-conjunctival tumors using fibrin tissue adhesive. Methods: A prospective noncomparative study was performed between May 2013 and February 2015. Patients were submitted to routine surgical procedure for corneal-conjunctival tumor excision followed by amniotic membrane graft transplantation using fibrin tissue adhesive (Evicel, Omrix Biopharmaceuticals Ltd., Israel). Results were assessed on the 1st, 7th, 15th and 30th postoperative days to analyze subjective complaints, adhesiveness and positioning of the graft, potential complications and recurrences. Results: Twenty-five eyes were analyzed (male, 14). The diagnosis after the treatment was categorized as squamous cell neoplasia, dysplasia, actinic keratosis, squamous papilloma and compound melanocytic nevus. Few significant symptoms were reported, such as mild hyperemia and ocular dyscomfort. One case developed a conjunctival granuloma which regressed after topical treatment. All grafts were successful with no displacements or retraction postoperatively. There was no clinical recurrence of the tumor in a mean time of follow-up of 11 months. Conclusion: Fibrin tissue adhesive is safe and effective in the surgery of ocular surface tumor. In this series, sutureless amniotic membrane transplantation using fibrin glue has the potential to shorten the surgical time, mitigate inflammation postoperatively and improve patient discomfort.