

Use of fibrin glue in ocular surgery. [Portuguese]

Authors: Dal Pizzol M.M., Roggia M.F., Kwitko S., Marinho D.R., Rymer S.

Publication Date: 2009

Abstract:

PURPOSE: To evaluate the use of fibrin glue and its complications in different ophthalmic surgeries.

METHODS: A retrospective and non-comparative case series study. 161 eyes were evaluated. The mean age was 51.8 years. Fibrin glue (Beriplast--Aventis Behring, Germany) was used in all patients for tissue adherence or incisional closure. **RESULTS:** Main preoperatives diseases were pterygium (76 patients), superior limbic keratoconjunctivitis (4 patients), limbal tumor (4 patients), conjunctivochalasis (21 patients), bullous keratopathy (31 patients), limbal stem cell deficiency (7 patients), alkali injury (6 patients), Stevens-Johnson syndrome (2 patients), cataract (5 patients) and glaucoma (5 patients). Complications occurred in 28 patients (17.4%). Detachment of the fixed tissue and granulomatous foreign body reaction were the main complications. Detachment occurred in 10 cases (5.6%) (7 in amniotic membrane transplantation in bullous keratopathy, 2 in autologous conjunctival grafting for pterygium surgery, 1 in autologous limbal transplantation in a Stevens-Johnson syndrome). Granulomatous foreign body reaction was described in 9 patients (5.6%) (5 in amniotic membrane transplantation due to acute alkali injury, 1 in autologous limbal graft due to chronic burn injury, and 3 in autologous conjunctival transplant due to pterygium surgery). All the complications described occurred in the first week after surgery. **CONCLUSION:** Despite the limitations related to the retrospective and non-comparative setting, this study suggests that the use of fibrin glue seems to be safe and effective for tissue fixation or incisional closure presenting low rates of complications in ocular surface and anterior segment surgeries.