

REGENERATING AGENT (RGTA) FOR TREATMENT OF OCULAR CHEMICAL INJURY

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Purpose: To report the successful outcome of ReGeneraTing Agent (RGTA; Cacicol20, Paris, France) treatment combined with bandage contact lens application in a patient with ocular chemical burn. **Methods:** The 14-year old female patient was referred to our clinic with the complaint of chemical injury to her left eye caused by rosewater cologne. She had already received conventional treatment over the previous week. She was diagnosed with grade IV ocular surface damage on the basis of Dua classification. After cleaning the conjunctival necrotic tissues, silicon hydrogel bandage contact lens was applied. Conventional therapy was supplemented with RGTA, used every other day as the first drops of the day, four times at 15-minute intervals. **Results:** Following the RGTA treatment, the conjunctival epithelial defect started to shrink rapidly with reduction of the ocular irritation signs. Within the first week of the therapeutic procedure, nearly total conjunctival surface and 2/3 of the corneal epithelium had recovered. On the 20th day, corneal epithelialization was completed, and RGTA application was terminated. During the treatment period, any irritation signs or side effects were not observed. **Conclusions:** RGTA, which stimulates tissue recovery by mimicking the functions of extracellular matrix components, appears to accelerate epithelialization on the ocular surface by decreasing the inflammation after chemical injury. Nevertheless, further prospective randomised clinical trials are needed to determine the effectiveness and the reliability of the RGTA treatment. **Financial Disclosure:** No