

Title: Vascular graft in conjuntctivodacryocystorhinostomy

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Introduction. Complete bicanalicular obstruction has been traditionally treated with Jones' tube and remains the gold standard in the treatment of obstruction of the proximal lacrimal duct. This technique, presents complicactions such as infection, extrusion and obstruction. These and the cost make it unfeasible for its use in the entire population.

Objective. To evaluate the functional and anatomical results of proximal lacrimal duct reconstruction with modified CDCR using an autologous venous graft coating a collagen tube

Methods. Interventional, prospective, non-randomized study of 2 patients ≥10 years who underwent CDCR with an autologous venous vascular graft coating a collagen tube in case 1, and a silicon tube in case 2.

Results. Until February 2018, 2 boys aged 15 and 11 years, with agenesis of the lacrimal punctum, were operated with the modified technique . No complications were recorded, except for the technical difficulty in covering the collagen tube due to primary contraction of the venous graft and instability of the collagen tube, which could be per- formed by fenestrating it under microscopic visualization. In case 1, scar tissue and im- possibility of lacrimal irrigation were observed at the 4th postoperative month. Case 2 at the second week of surgery showed a significant tearing decrease , with an anatomica- lly integrated silicone tube inside of the vascular graft. No extrusion was observed.

Discussion. Our proposal of modified CDCR with insertion inside the venous graft of a collagen or silicon tube could prevent collapse and improve the integration of the graft. The surgical time will be very similar to a conventional CDCR once the lear- ning curve is exceeded. We consider this innovative technique, but we must recognize the disadvantage represented by vascular graft intake and the morbidity associated with a second surgical site.

Conclusions. A new surgical technique was reported as an alternative method to the classic surgical procedure of CDCR.

Biography

Elenore Bergen has completed his PhD in the National University of Asunción - Paraguay and realized further studies in Ophtalmology in Germany (Klinikum Bielefeld) and Master Degree in Oculplastic Surgery in the UNAM (Universidad Autónoma de México). She is an oculoplastic and reconstructive surgeon specializing in cosmetic and reconstructive surgery of eyelids, orbit and lacrimal system. She is Member of the PAAO (Panamerican Society of Ophtalmology), (SPO) Ophtlamology Society of Paraguay and (SMO) Oculoplastic Society of Mexico.

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