A study of the applicability of biological adhesives to the insertion of an external ocular muscle in rabbits - II experiment II - Measurement of the distances from the nasal and temporal muscles to the limbus and of the extent of tissue adhesion. [Portuguese]

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Abstract:

Purpose: Measure the extent of mioscleral adhesion on the fourtieth postoperative day. Methods: Fifteen New Zealand rabbits were divided in to three groups of five rabbits. They were operated on to server the insertion of the rectus muscle in the eye and then to reinsert it. Group SP, polyglactin (Vicryl) was used as control. In group AF, fibrin adhesive (Beriplast-P) was used, and in group AC, cyanoacrylate adhesive (Histoacryl). Before severing muscle insertion, the distances between the muscle attachments of the limbus to the medial and lateral borders were measured. After forty-five days, the operation was again performed and the measurements were taken once more. Results: There was no significant difference between the studied adhesives in terms of tissue adhesion and of the distances from the muscle to the limbus before and after surgery. Conclusion: The found tissue adhesion was probably due to the scarring process and was not dependent on the studied materials.