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Orbicularis oculi myocutaneous flap과 결합된 다중 재건 기법의 임상적 유용성과 기능적 결과

(Clinical Utility and Functional Outcomes of Multimodal Reconstructive Techniques Integrated with Orbicularis Oculi Myocutaneous Flaps)



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Purpose: The orbicularis oculi myocutaneous (OOMC) flap is a well-established option for periocular reconstruction due to its reliable vascularity, thin profile, and excellent tissue match.

- However, its application is often limited by restricted flap size and mobility.
- This study aimed to evaluate the clinical utility and functional outcomes of OOMC flaps in combination with adjunctive reconstructive techniques for complex periocular defects.

Methods: A retrospective review was conducted of 65 patients with 79 periocular defects who underwent reconstruction using a total of 90 OOMC flaps over a 20-year period.

- The primary outcomes included the frequency and types of adjunctive procedures, postoperative complications, and functional outcomes.

Results: A total of 90 OOMC flaps were used for 79 defects

- Multimodal reconstruction was required in 35 defects (44.3%) to achieve complete closure.
- Adjunctive techniques included skin grafts (n=16), secondary OOMC flaps (n=13), composite grafts (n=6), nasolabial flaps (n=5), forehead flaps (n=5), and cheek rotation flaps (n=1).
- Eyelid function and structural integrity were preserved in all cases. Complications were rare and included one case of tumor recurrence, one entropion, and one partial flap necrosis.



Fig. 1. (A) Preoperative photograph after MMS showing the post-excisional defect on medial canthal region and upper and lower eyelid, Rt. (B) Immediate postoperative photograph following reconstruction with an OOMC flap and paramedian forehead flap. (C) Postoperative photograph at 18 months showing a satisfactory result.



Fig. 2. (A) Preoperative photograph after MMS showing the post-excisional defect on lateral side of lower eyelid, Lt. (B) Immediate postoperative photograph following reconstruction with an OOMC flap and a cheek rotation flap. (C) Postoperative photograph at 12 months showing a satisfactory result.

Conclusion: OOMC flaps provide reliable outcomes in periocular reconstruction.

- However, complex defects frequently necessitate a **multimodal reconstructive strategy**.
- The combination of OOMC flaps with adjunctive reconstructive techniques allows for effective defect coverage while maintaining functional integrity and a low complication profile.
- These findings support the use of a tailored, multimodal strategy in managing complex periocular defects.