

# **Application of hyperdry amniotic membrane patches without fibrin glue over the bony surface of mastoid cavities in canal wall down tympanoplasty.**

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## **Abstract:**

Conclusion: Fibrin glue might be an inessential bioadhesive for attachment of hyperdry amniotic membrane (AM) patches in canal wall down (CWD) tympanoplasty. Objective: To clarify the pliability and adherence capability of human hyperdry AM, the feasibility of fixing hyperdry AM without fibrin glue to the bony surface of the mastoid cavity was evaluated in CWD tympanoplasty. Methods: This was a retrospective chart review. In seven ears of seven patients, the AM was simply attached over the bony surface of the mastoid cavity without fibrin glue (AMG(-) group). In 22 ears of 20 other patients, hyperdry AM (11 ears of 11 patients, AMG(+) group) or temporal fascia (11 ears of 9 patients, TFG(+) group) was attached over the bony surface of the mastoid cavity with fibrin glue. Times for graft epithelization were compared among the three groups. Results: Complete epithelization of the mastoid cavity took place in all patients in all three groups. The mean time to complete epithelization of the graft in the AMG(-) and AMG(+) groups was significantly faster than that in the TFG(+) group ( $p < 0.05$ ) and was not significantly different between the two AM groups ( $p > 0.05$ ). © 2012 Informa Healthcare.