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INTRODUCTION

- Mastoid dressing consists of large gauze bands covering the operated ear and wrapped tightly around the head.
- Pressure dressings are widely regarded as necessary to minimize the risk of postoperative hematoma formation, especially when surgical drains are not inserted.
- The purpose of this study was to assess
 whether mastoid pressure dressing is
 necessary after ear surgery to prevent
 complications such as hematoma or
 protruding ear.

MATERIAL AND METHODS

- Sixty-four patients who had middle ear or mastoid operations via a postauricular incision were included in the study.
 Patients were allocated to mastoid dressing group and no-mastoid dressing group.
- Evaluations and measurements could be completed in 37 patients. Of the 37 patients, 17 were in the mastoid dressing group and 20 were in the no-mastoid dressing group. A careful follow-up was planned, and complications were recorded.
- We measured the distance from mastoid scalp to helix rim at most posterior level of upper auricular rim in the operated and nonoperated ears (Fig 1). SPSS software was used for the statistical analysis.

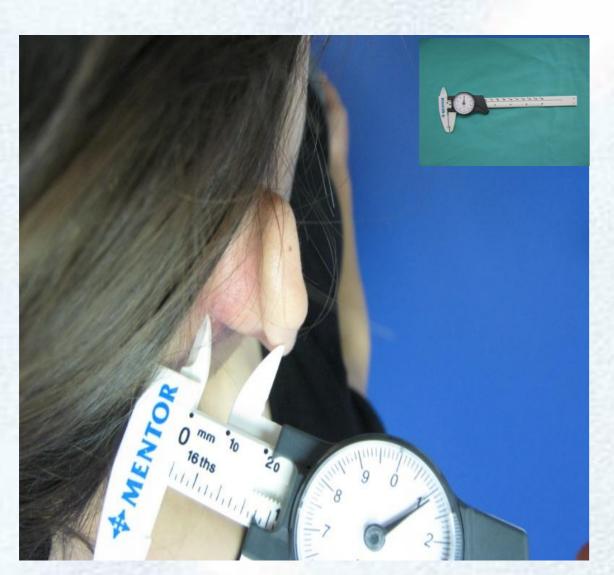


Fig 1. The caliper uesd to measure mastoid to helix distance

RESULTS

- In the mastoid dressing group, one patient had minor skin lesion (Fig 2). No patient had bruising or erythema in the no-mastoid dressing group.
- · For mastoid to helix distance of the operated ears of the patients, there were no statistically significant difference between mastoid dressing group and no-mastoid dressing group (Table 1). We found a significant difference for the measured distance in between operated and non-operated ears of mastoid dressing group (Table 2), the mean value of distance in the operated ears being lower than that of non-operated ones (p<0.05). On the other hand, there was no significant difference for the measured distance in between operated and non-operated ears of no-mastoid dressing group (Table 2), the mean value of distance in the operated ears being higher than that of non-operated ones (p>0.05). Presence of mastoidectomy did not change the results (Table 3)

Table 1. Results of operated ears with and without mastoid dressing

Mastoid Dressing (+) n=17 Mean ± SD (mm)	Mastoid Dressing (-) n=20 Mean ± 5D (mm)	p
15,53 ± 4,3	17,20 ± 2,9	>0,05

DISCUSSION AND CONCLUSION

This study showed that the mastoid to helix distance did not change significantly when the mastoid dressing was not applied while mastoid dressing seemed to decrease the mastoid-to-helix distance. For his reason, the application of a mastoid pressure dressing following middle ear and mastoid surgery seems to be unnecessary and may contribute to increased wound morbidity.



Fig 2. Minor skin lesion related to mastoid dressing (arrows)

Table 2. Results of nonoperated ears and operated ears with or without mastoid dressing

	n	Operated ear Mean ± SD (mm)	Nonoperated ear Mean ± SD (mm)	þ
Mastoid Dressing (+)	17	15,53±4,3	$16,47 \pm 3,9$	<0,05
Mastoid Dressing (-)	20	17,20 ± 2,9	$16,90 \pm 3,6$	>0,05

Table 3. Results of nonoperated ears and operated ears with or without mastoidectomy and mastoid dressing

	n	Operated ear Mean ± SD (mm)	Nonoperated ear Mean ± SD (mm)	P
Mastoid Dressing (+), Mastoidectomy (+)	9	$14,90 \pm 4,4$	$15,70 \pm 3,4$	>0,05
Mastoid Dressing (+), Mastoidectomy (-)	8	$16,43 \pm 4,3$	$17,57 \pm 4,5$	>0,05
Mastoid Dressing (-), Mastoidectomy (+)	8	$17,25 \pm 3,7$	17,25 ± 4,0	>0,05
Mastoid Dressing (-), Mastoidectomy (+)	12	$17,17 \pm 2,3$	16,67 ± 3,4	>0,05