

SUMMARY

This study was carried out in Benha University Hospital in its E.N.T Department to compare the use of AlloDerm and tragal composite cartilage- perichondrium and temporalis fascia as graft for tympanic membrane perforation.

This study comprised 45 patient 20 males and 25 females with age ranging from 13 to 45 years.

15 patients were operated by AlloDerm graft myringoplasty and 15 by tragal composite cartilage-perichondrium graft and the other 15 patients by temporalis fascia graft myringoplasty.

All patients were well prepared and investigated for selection of patient who can be operated.

All patients were operated and discharging from the hospital in the same day of operation with EAC packing removed after one week.

The result of this study was found that healing occurred in 14 cases from 15 cases (93.3%) in both of AlloDerm and temporalis fascia graft myringoplasty and successful healing in

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13 cases from 15 cases (86.7%) in tragal composite cartilage-perichondrium graft myringoplasty.

Clinically there are improvement in hearing in all successful cases and 6 months postoperative there are audiological improvement.

In the statistical analysis study of the A-B gape in pure tone audiometry for the different groups before and after surgery, the results were:-

First group (AlloDerm), closure of A-B gap less than 10dB was 86.6% & less than 15 dB was 93.3%.

Second group (composite cartilage-perichondrium) closure of A-B gap less than 10dB was 73.4% and less than 20 dB was 86.7dB.

Third group (temporalis fascia), closure of A-B gap less than 10dB was 80% less than 15dB was 93.3dB.

This study showed that the results of tympanoplasty with AlloDerm, composite cartilage-perichondrium and temporalis fascia were almost the same as regards to the healing and hearing. AlloDerm gave us the best results. There was no

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significant difference between the three types of the grafts in the results of healing.

The follow up of cases were done in outpatient clinic of Benha University Hospital, ENT department.