

### **Summary**

This study was conducted on 20 patients with cleft palate, collected from the otolaryngology clinic in Benha Faculty of medicine hospital during the period from January 2008 to June 2009.

Patients were classified in two groups:

Group (A): 10 patients with cleft hard and soft palates who were corrected surgically without adding any synthetic material using V-Y pushback (Veau-Wardill- Kilner 1937) repair technique.

Group (B):10 patients with cleft hard and soft palates who were corrected surgically by the same technique for group A with the modification of putting bioglass disc between the muscle and mucosal layer.

Group A was followed up clinically by oral examination weekly for a period of 2 months post operatively, detection of complete healing , fistulization or failure were recorded.

Group B was followed up clinically for a period of two months; C.T. was done for every patient after one week and after six months to detect bone formation.

The net clinical results of group A after 2 months were:

- 5 cases with complete healing.
- 2 cases with permanent fistulae.
- 3 cases with complete failure.

## *Summary*

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The net clinical results of group B after 2 months were:

- 9 cases with complete healing.
- 1 case with total failure.
- No cases with fistulae.
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CT Results for group B:

After one week from the operations done for group B, CTs of the palate coronal and axial views were done to all patients with no failure (9 patients).

The bioglass disc was well distinguished in the palate by a soft tissue space between it and the bony part of the palate and gum from both sides.

After six months CTs of the palate coronal and axial views were done for the same 9 patients from group B. All CTs showed no discrepancy between the bioglass discs and the bony palate and gums all around with complete bone formation.