

BONE CELL TRANSPLANTATION IN RECONSTRUCTIVE SURGERY IN OROFACIAL REGION

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Introduction: Defects of facial bones have a variety of causes(trauma,cysts,benign osteodestructive tumors,malignant tumors,atrophic loss of bones,congenital deformities).The aim of this study is to evaluate possibilities of reconstruction of this defects.

Materials and Methods: There are three types of bone grafts used in reconstruction surgery of hard tissue defects in orofacial region.Autogenous grafts,which are composed of tissues of the same individual.Allogenic grafts,which are taken from another individual of the same species.Xenogenic bone grafts,taken from one species and grafted to another,are not very frequently used in human medicine.In the period within 1998-2006,210 patients were treated at our clinic.In 112 cases autografts were used.In 98 cases the allografts were used.Xenogenic bone grafts were not used.In 69% of cases supporting of osteointegration with autogenic osteoblasts was used.

Results: Time after operation was in range 6-48 months.The healing success was in 73% of cases,but in combination with autogenic osteoblasts was more than 91% and the period of healing activated and time decrease to 32%.

Conclusion and Discussion: Using a bone grafts in hard tissue reconstruction surgery in orofacial region is very popular in these days.The correct choice of type of bone graft depends on many factors(evaluation of the defect,type of surgical intervention,possibility of supportive therapy using a autogenic osteoblasts).One of the biggest disadvantages of autografting is the mutilation of the patients.But allografting is linked with technical problems and the healing phase is longer and healing success is not as big as in autografting.

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