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Exploring Bone Graft Options in Dental Implantology: A Review

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ABSTRACT:

Bone graft is the standard materials used for repairing bony defects. There are various bone graft materials/biomaterials and methods available for bone augmentation. Numerous graft materials are in use of which autografts are considered as a gold standard. Autografts have the uniqueness of having osteogenic, osteo-inductive and osteoconductive potential. At the same time, they have well identified disadvantages too which include donor site morbidity, graft availability and the risk of disease transmission. Synthetic graft substitutes do not have osteo-inductive or osteogenic properties. Composite grafts are also being used effectively for osteogenesis. The limited availability of suitable bone grafts has ushered in the era of tissue engineering for bone repair. The present article explains in detail about bone grafts and the recent advancements in bone graft materials as well as bone augmentation in implant dentistry.

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