

Clinical application of bone substitutes



Prof. Eun-Kyoung Pang (방은경 교수)
 Department of Periodontology, School of Medicine,
 Ewha Womans University

Bone grafts have been widely used in periodontal reconstructive surgery and implant surgery. Among various graft materials, autogenous bone is referred to gold standard, but it is quantitatively limited and needs secondary surgical donor sites. Therefore a lot of bone substitutes have been developed and the bone substitutes that have been commercialized are as follows;

	Bone substitute		Product
Allograft	FDDBA		MTF, Puros
	DFDBA		Grafton
	Irradiated cancellous bone		ICB
Xenograft	Bovine derived hydroxyapatite		Osteograf, Bio-Oss, BBP, OCS-B, NuOss, PepGen P-15
	Coralline calcium carbonate		Biocoral, interpore 200
Alloplast	Polymers		HTR polymer
	Bioceramics	Calcium phosphate	Cerasorb, Biocera, Syncera
		Hydroxyapatite	Periograf, Calcitite OsteoGen, Osteograf, MBCP, Osteon
	Bioactive glass		PerioGlas, Biogran
	Calcium sulfate		Capset

These bone substitute materials have been used and have shown to effective result in the treatment of periodontal defects (inrabony defects, furcation defects) and for the augmentation of horizontal, vertical defect, and sinus cavities for the implant placement.

In this symposium, technical concern of clinical applications of these bone substitutes to the periodontal & osseous defects and the sinus cavities will be discussed. Furthermore clinical & histological outcomes and the predictability of the grafts will be also presented.

주요 학력 및 경력:

연세대학교 치과대학 졸업

연세대학교 치과대학병원 치주과 수련

연세대학교 치과대학 치주과 석박사

삼성서울병원 치과진료부 치주과 전임의

연세대학교 치과대학병원 치주과 임상강사

21세기 나눔치과병원 치주과장

국민건강보험공단 일산병원 치주과장

이화여자대학교 의학전문대학원 치주과 조교수