

CONTENTS

CHAPTER 1	General introduction	9
CHAPTER 2	Human maxillary sinus floor elevation as a model for bone regeneration enabling the application of one-step surgical procedures	15
CHAPTER 3	Short (15 min) BMP-2 treatment stimulates osteogenic differentiation of human adipose stem cells seeded on calcium phosphate scaffolds	41
CHAPTER 4	Growth factor gene expression profiles of bone morphogenetic protein-2-treated human adipose stem cells seeded on calcium phosphate scaffolds <i>in vitro</i>	63
CHAPTER 5	A histomorphometrical and micro-CT study of bone regeneration in the maxillary sinus comparing biphasic calcium phosphate and deproteinized cancellous bovine bone in a human split-mouth model	87
CHAPTER 6	A novel approach revealing the effect of a collagenous membrane on osteoconduction in maxillary sinus floor elevation with β -tricalcium phosphate	115
CHAPTER 7	Evaluation of a new biphasic calcium phosphate for maxillary sinus floor elevation: micro-CT and histomorphometrical analysis	139
CHAPTER 8	General discussion	161
	GENERAL SUMMARY	169
	ALGEMENE SAMENVATTING	175
	DANKWOORD	181
	CURRICULUM VITAE	187