

Clinical and Radiographic Outcome of Camlog Implants in

Partially Edentulous Cases After an Observation Period of 10 Years.



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Objectives: The aim of this clinical study was to evaluate the outcome of 253 Camlog implants in the posterior maxilla and mandible in 67 patients after 10 years of functional loading; to report the incidence of the most common technical problems, in implant-supported fixed partial dentures (FPDs), and to and assess the survival and success rate (event-free survival) after 10 years of function. Materials and Methods: Patients with missing posterior teeth were treated with implants and follow-up examinations were scheduled 1 week after suprastructure placement, after 6 months and annually for 10 years. Clinical parameters like plaque index (PI), sulcus bleeding index (BI), peri-implant probing depth (PD), and marginal bone loss (MBL) were recorded along with any biological and mechanical complications

at baseline and recall evaluations. Repeated-measurement ANOVA, Kruskal-Wallis test, Wilcoxon signed rank test and paired samples test were used for statistical analysis (p=.05). Complications with implant supported restorations were recorded. Success was defined as event-free survival. Survival and success probabilities were estimated with the Kaplan–Meier estimator.

Results: In 67 patients, a total of 253 implants were placed and restored with 143 implant-supported FPDs (63 single crowns, 80 FPD bridges). Cumulative implant survival rate was 100 %. At 10 years, the mean PD value was 2.33 (0.58) mm, and MBL was 0.35 mm. The survival rate of FPDs supported by implants was 97.94 % after mean follow-up oat 10 years. The success rate (event-free survival) of the FPDs was 96.9%.

Table 1. Patient and implant-related parameters investigated in this study. **Patient-related parameters** Gender Male: n = 30Female: n = 37Age Mean: 34.5 years Minimum: 22 years Maximum: 50 years **Type of supra-structure** Single crown, n = 63Fixed partial denture, n = 80Area and number of implants Premolar:142 Molar:101 Maxilla: 137 Mandible:116



Table 2. Mean Probing Depth measurements at baseline and recall.

Time	Mean	Sd
Baseline	1.32	0.45
6 months	1.37	0.6
12 months	1.42	0.47
2 year	1.43	0.51
3 year	1.75	0.46
4 year	2.21	0.69
5 year	2.25	0.59
10 year	2.33	0.58

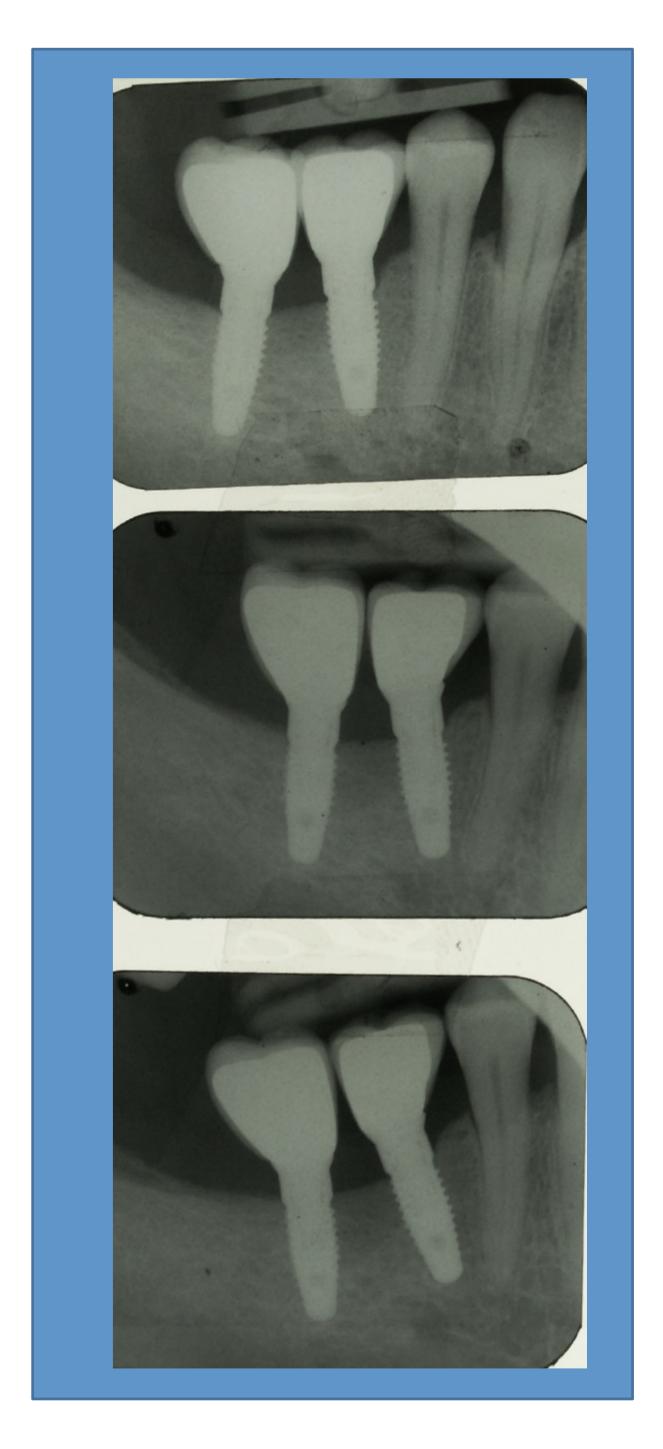
Table 3. Marginal bone level change at 6 month and recall evaluations.

Time	Mean	Sd	
6 months	0.08	0.03	
12 months	0.14	0.02	

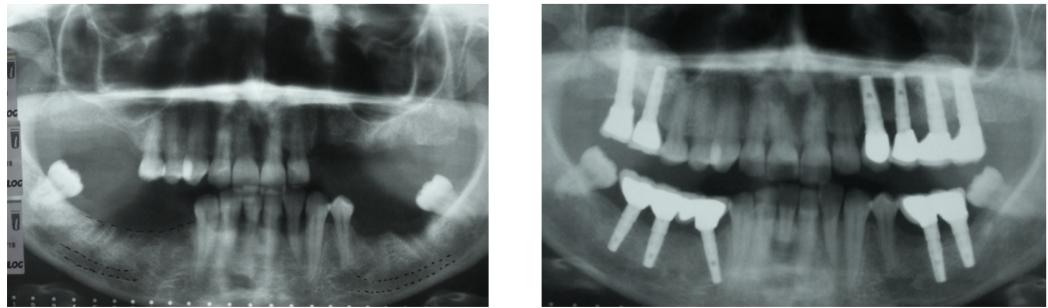
0.03

0.05

0.07







5 year		0.34				0.07				
10 year		0.35				0.11				
Patient satisfaction										
Parameters	Exce	llent	Go	Good Satisfa		factory	ry Poor			
	n	%	n	%	n	%	n	%		
Esthetics	208	82	45	18	-	-	-	-		
Masticatory ability	215	85	38	15	-	-	-	-		
Phonetics	253	100	-	-	-	-	-	-		
Cleansability	235	93	18	7	-	-	-	-		

0.24

0.3

0.33

2 year

3 year

4 year

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Conclusions: Fixed partial dentures supported by Camlog implants showed high clinical and radiographic outcomes and low technical complications rates at 10 years.