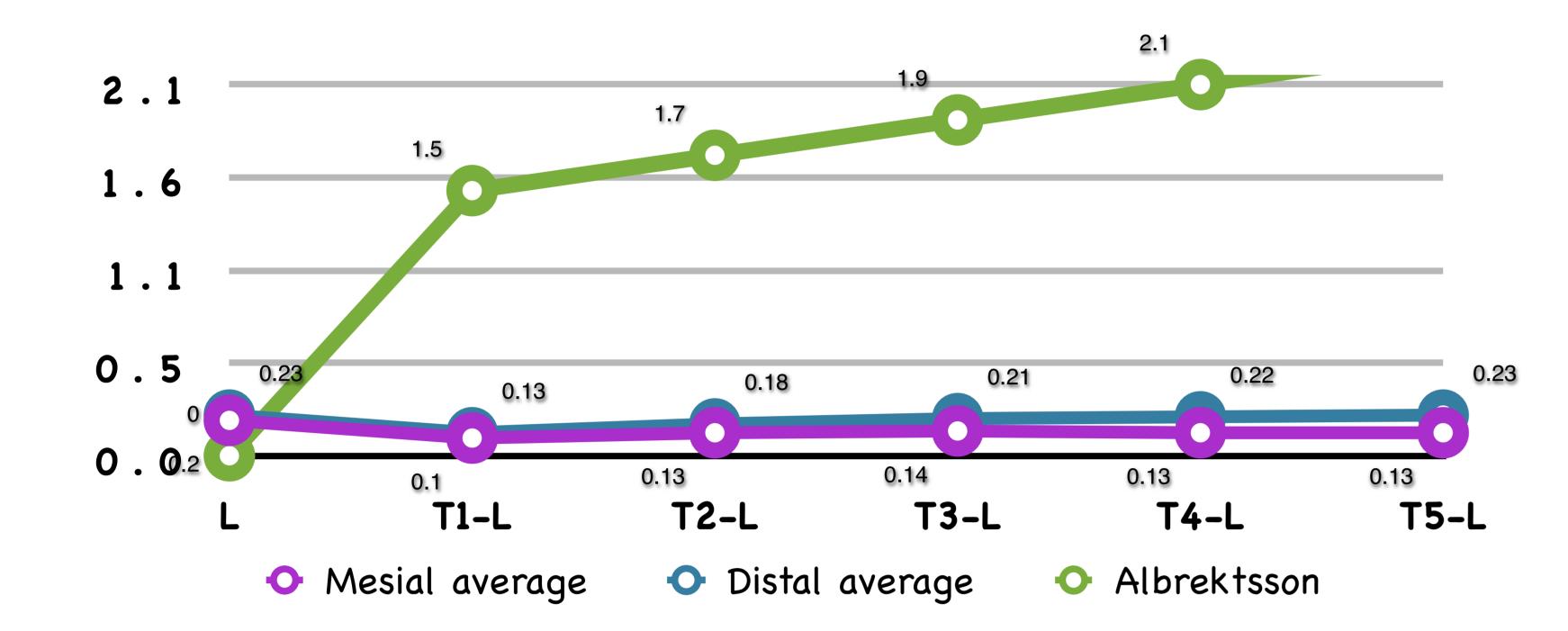
THE REAL PROPERTY OF A REAL PROP	SUCCESS RATE OF PLATFOR	94% UCCESS RATE OF PLATFORM SWITCHED IMPLANTS: A RETROSPECTIVE ANALYSIS WITH MARGINAL PERI- IMPLANT BONE LOSS EVALUTATION				
MEGAGEN For Lifetime Smiles		alvatore Terlizzi, <u>David Palombo</u> *, Vincenzo Capilupi*, Matteo Chiapasco* I Prof. M. Chiapasco), Department of Health Sciences, San Paolo Hospital, University of Milan, Italy	THE 11 th ANNUAL MEGA'GEN INTERNATIONAL SYMPOSIUM			
OBJECTIVES		MATERIALS AND METHODS				
•	peri-implant marginal bone	80 patients affected by partial or total edentulism of the upper and/or lower jaw				

resorption around platform switched implant fixtures and to define their success and survival rates according to the Albrektsson & Zarb criteria.

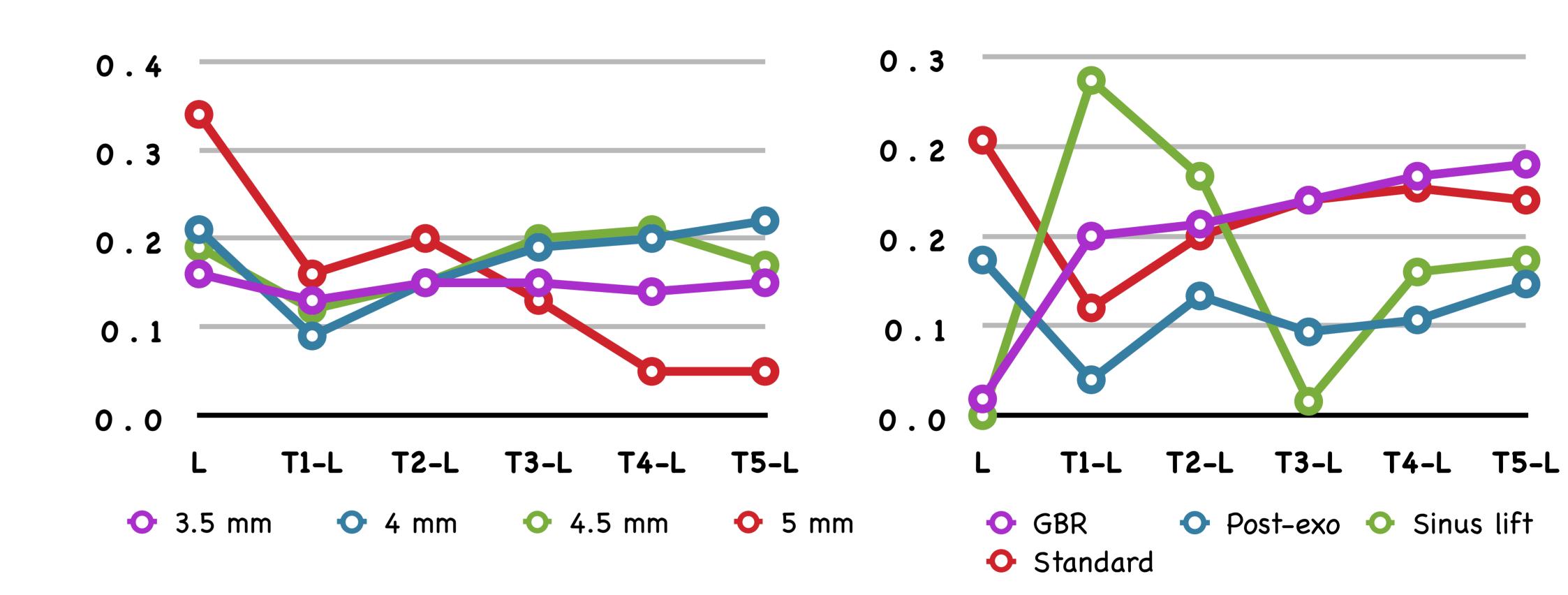
placement of 212 platform switched implants (OsseoSpeed®, Astra Tech Implant SystemTM, Dentsply IH S.r.l.). Of these: 175 implants were inserted without any bone regeneration; 14 were inserted in fresh extraction sockets; 6 were inserted after sinus augmentation; 17 were placed concomitantly to a guided bone regeneration. Forty-seven implants were subjected to immediate loading (within 48hours) and 165 to conventional loading (after 3 to 6 months). Marginal bone level changes were evaluated around every implant at 12, 24 and 60 months after prosthetic finalization.

Average Peri-implant bone resorption rate rapported to Albrektsson et al. criteria



	load	12 months	24 months	36 months	48 months	60 months
Mesial	0,2±0,25	0,10±0,23	0,13±0,27	0,14±0,30	0,13±0,26	0,13±0,33
Distal	0,23±0,35	0,13±0,26	0,18±0,29	0,21±0,34	0,22±0,33	0,23±0,36
Albrektsso	-	1.5	1.7	1.9	2.1	2.3

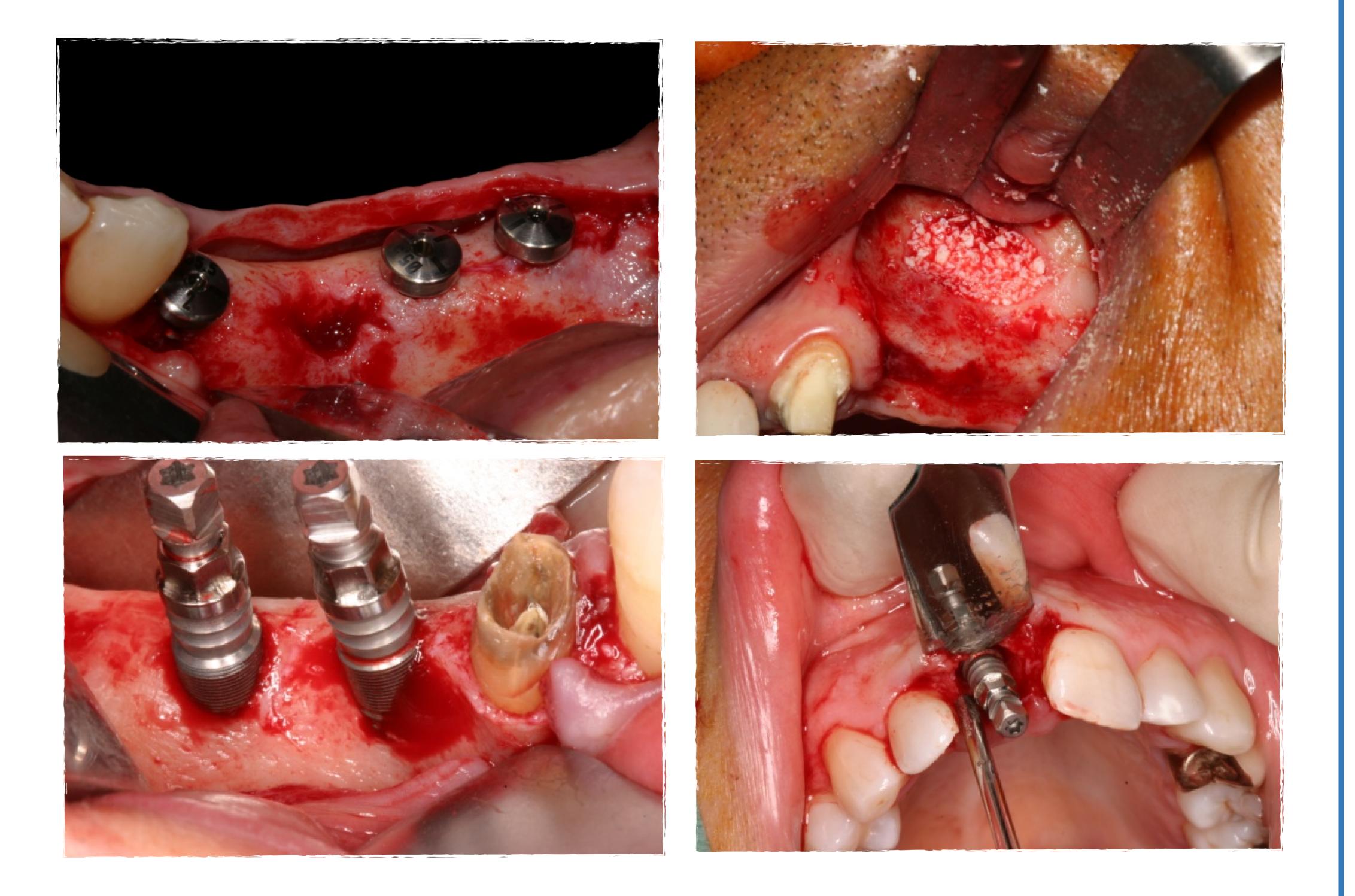
Peri-implant bone level according to implant diameter



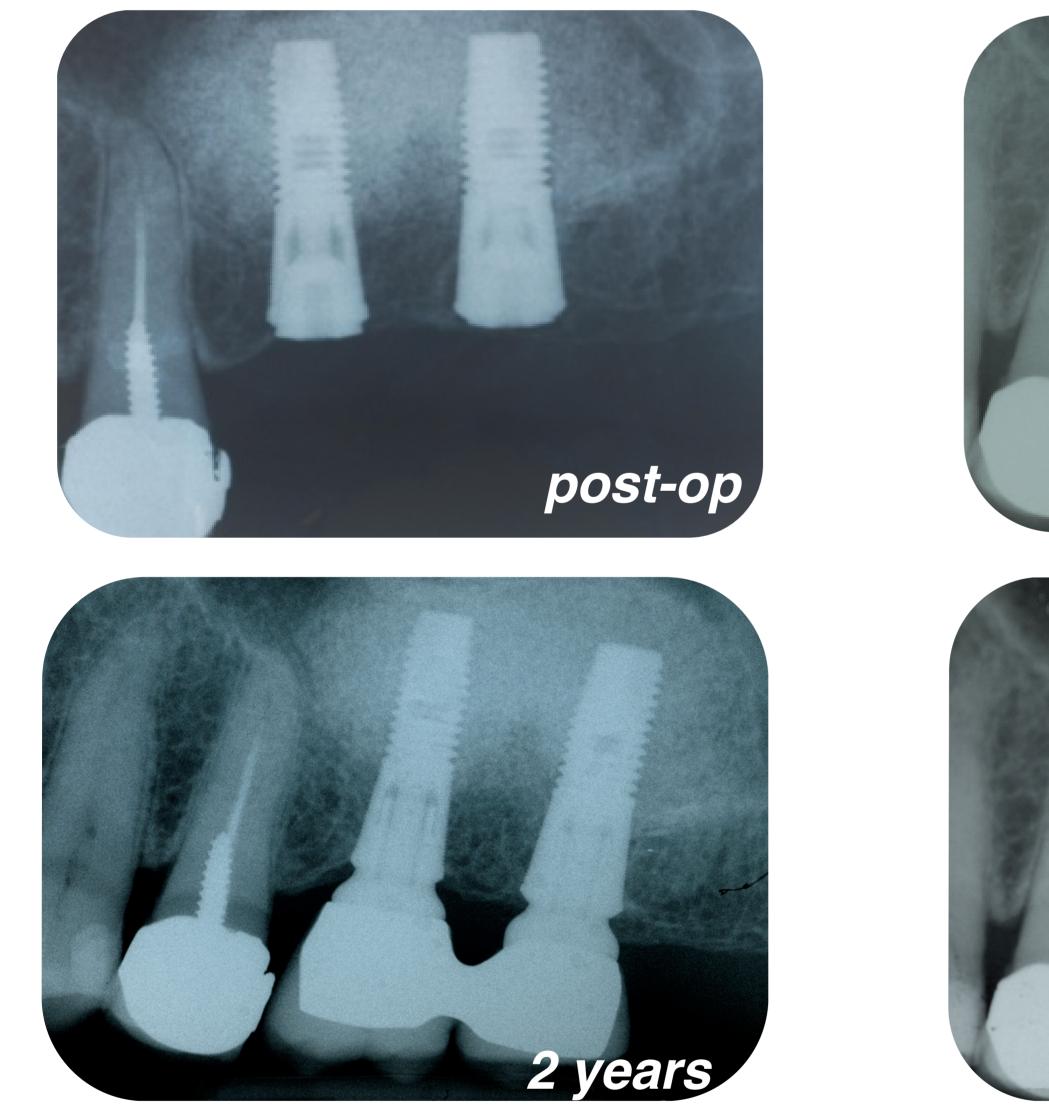
Peri-implant bone level according to protocol

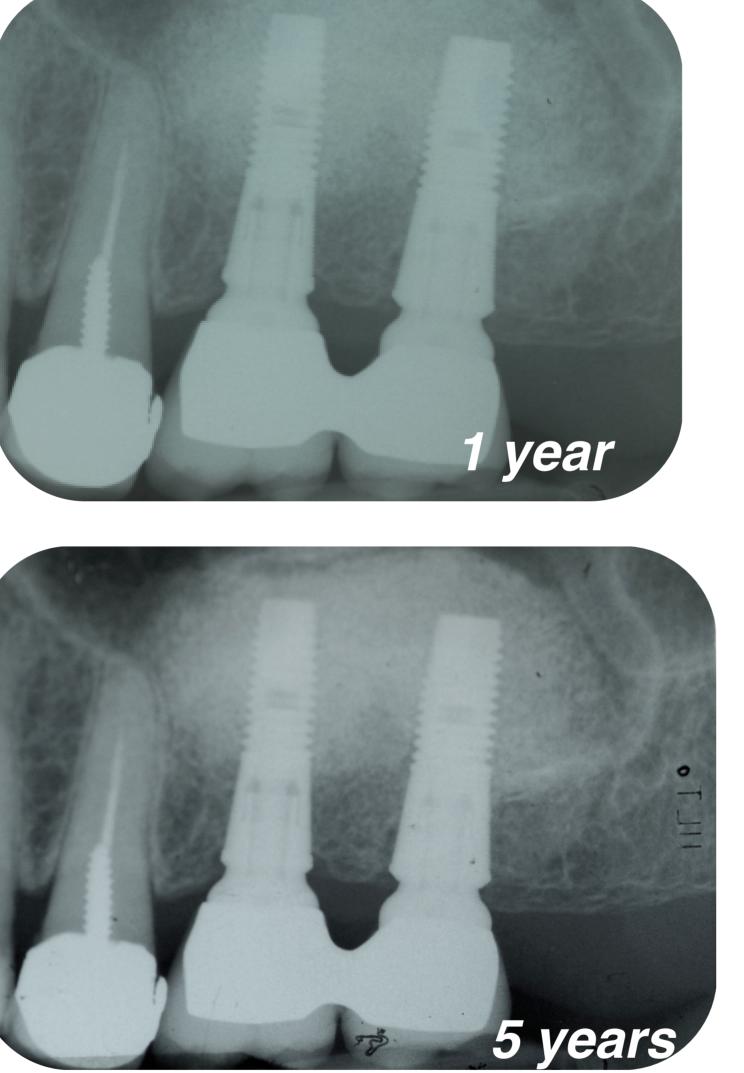
◆ Post-exo ◆ Sinus lift





Radiographic followup





RESULTS

At each recall, the mean peri-implant bone resorption resulted to be similar in all groups, regardless of the implant dimensions, the edentulous sites, the surgical protocols and the loading times adopted. Specifically, the mean resorption rate varied between 0,10 and 0,13 mm after 12 months, increased of 0,05 - 0,06 mm at 24 months, and of 0,03 - 0,05 mm at 60 months. Only a single implant failed to osteointegrate. At the last recall, 199 implants fulfilled the Albrektsson e Zarb success criteria, while 12 implants survived with significant peri-implant bone resorption. The overall survival and success rates were 99% and 94%, respectively.

CONCLUSION

Results from this study suggest that platform switched implants with a moderately rough blasted surface can provide valuable medium-term outcomes (60 months) in different clinical conditions. In most cases, the observed peri-implant bone resorption resulted to be significantly lower than the threshold set from Albrektsson et al. to define a successful implant rehabilitation.

References

AlbrektssonT, Zarb G, Worthington P, Eriksson AR. The long-term efficacy of currently used dental implants: a review and a proposed criteria of success. Int J Oral Maxillofac Implants 1986; 11-25
Gardner DM. Platform switching as a means to achieving implant esthetics. N Y State Dent J 2005;71:34-7.
Hermann, J.S., Cochran, D.L., Nummikoski, P.V. & Buser, D. (1997) Crestal bone changes around ti- tanium implants. A radiographic evaluation of unloaded nonsubmerged and submerged

implants in the canine mandible. Journal of Periodontology 68: 1117 – 1130.

4. Stein AE, McGImphy EA, Johnston WM, Larsen PE. Effects of implant design and soft tissue levels in the esthetic zone. Int J Oral Maxillofac Implants. 2009 Sep-Oct;24(5):910-9.