

Proven long-term success in challenging situations: ten-year clinical outcomes¹

Aim

To investigate the outcomes of the All-on-4[®] treatment concept when implants are inserted in sites with dehiscence or fenestration

Study design

Single cohort clinical study (patients retrospectively selected based on the presence of dehiscence or fenestrations).



123
patients



127
full-arch rehabilitations with the All-on-4[®] treatment concept



192
Nobel Biocare implants Immediate Function



NobelProcera[®] titanium framework, and NobelProcera crown or acrylic resin teeth



10-year
follow-up



150 implants with dehiscence
Absence of alveolar bone and apical implant exposure



40 implants with fenestration
Buccal or lingual window defect

2 implants with both dehiscence and fenestration

Ten-year results

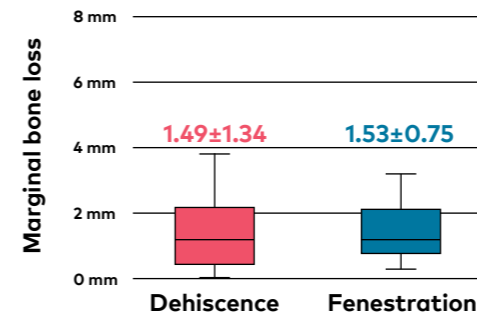
96.2% implant survival rate: 97.2% in the dehiscence and 90.0% in the fenestration group.

98.4% prosthetic survival rate: 98.9% in the dehiscence and 96.4% in the fenestration group.

1.53±0.75 mm mean marginal bone loss.

18 of the 192 implants demonstrated biological complications: suppuration (n=2), infection (n=2), fistula (n=1), and peri-implant pathology (n=13).

Marginal bone loss at 10 years



Authors' conclusion

"Implants inserted with dehiscence or fenestrations demonstrate good long-term outcomes with overall high success and survival rates and low average marginal bone resorption."

Reference
1. de Araújo Nobre M, et al.: J Clin Med. 2022; 31;11(7):1939