

The following overview lists the articles with focus on clinical performance of Nobel Biocare implants, with longer follow-up than 2-years in descending order.

Full Reference	Study type	Implant Brand	No. of Patients	No. of implants	Mean follow up time [y]	Survival rate [%] (failure)
<p>Glauser R. Implants with an Oxidized Surface Placed Predominately in Soft Bone Quality and Subjected to Immediate Occlusal Loading: Results from an 11-Year Clinical Follow-Up. Clin Implant Dent Relat Res. epub ahead 2015.</p> <p>Glauser R. Implants with an Oxidized Surface Placed Predominately in Soft Bone Quality and Subjected to Immediate Occlusal Loading: Results from a 7-Year Clinical Follow-Up. Clin Implant Dent Relat Res. 2013;15(3):322-31.</p> <p>Glauser R, Ruhstaller P, Windisch S, Zembic A, Lundgren A, Gottlow J, et al. Immediate occlusal loading of Branemark System TiUnite implants placed predominantly in soft bone: 4-year results of a prospective clinical study. Clin Implant Dent Relat Res. 2005;7 Suppl 1:S52-9.</p> <p>Glauser R, Zembic A, Ruhstaller P, Windisch S. Five-year results of implants with an oxidized surface placed predominantly in soft quality bone and subjected to immediate occlusal loading. J Prosthet Dent. 2007;97(6 Suppl):S59-68.</p>	Prospective	Branemark System MK IV	38	1142	11.2	97.1 (3)
<p>Mozzati M, Gallesio G, Del Fabbro M. Long-term (9-12 years) outcomes of titanium implants with an oxidized surface: a retrospective investigation on 209 implants. Journal of Oral Implantology. 2015;41(4):437-43</p>	Retrospective	Branemark MkIII TiUnite Branemark MkIV TiUnite	90	2299	11.0	97.1 (6)
<p>Degidi M, Nardi D, Piattelli A. 10-Year Follow-Up of Immediately Loaded Implants with TiUnite Porous Anodized Surface. Clin Implant Dent Relat Res. 2012;14(6):828-38.</p>	Prospective	Branemark Mk III, TiUnite	59	2100	10.0	97.6 (5)
<p>Östman PO, Hellman M, Sennerby L. Ten years later. Results from a prospective single-centre clinical study on 121 oxidized (TiUnite™) Brånemark implants in 46 patients. Clin Implant Dent Relat Res. 2012;14(6):852-60.</p>	Prospective	Branemark system, MK III and IV (NP, RP, WP)	46	1210	10.0	99.2 (1)
<p>Rocci A, Rocci M, Rocci C, Scoccia A, Gargari M, Martignoni M, et al. Immediate Loading of Branemark System TiUnite and Machined-Surface Implants in the Posterior Mandible, Part II: A Randomized Open-Ended 9-Year Follow-up Clinical Trial. Int J Oral Maxillofac Implants. 2013;28(3):891-5.</p>	Prospective	Branemark System MkIV	NR	288	9.0	90.6 (3)

Rocci A, Martignoni M, Gottlow J. Immediate loading of Branemark System TiUnite and machined-surface implants in the posterior mandible: a randomized open-ended clinical trial. Clin Implant Dent Relat Res. 2003;5 Suppl 1:57-63.						
Rocci A, Rocci M, Rocci C, Scoccia A, Gargari M, Martignoni M, et al. Immediate Loading of Branemark System TiUnite and Machined-Surface Implants in the Posterior Mandible, Part II: A Randomized Open-Ended 9-Year Follow-up Clinical Trial. Int J Oral Maxillofac Implants. 2013;28(3):891-5.  Rocci A, Martignoni M, Gottlow J. Immediate loading of Branemark System TiUnite and machined-surface implants in the posterior mandible: a randomized open-ended clinical trial. Clin Implant Dent Relat Res. 2003;5 Suppl 1:57-63.	Prospective	Branemark System MkIII, MkIV	22	594	9.0	95.5 (3)
George KM, Choi YG, Rieck KL, Van Ess J, Ivancakova R, Carr AB. Immediate restoration with ti-unite implants: practice-based evidence compared with animal study outcomes. Int J Prosthodont. 2011;24(3):199-203.	Retrospective	TiUnite (brand not specified)	24	900	9	99.0 (1)
Imburgia M, Del Fabbro M. Long-Term Retrospective Clinical and Radiographic Follow-up of 205 Branemark System Mk III TiUnite Implants Submitted to Either Immediate or Delayed Loading. Implant Dent. epub ahead 2015.	Retrospective	Branemark Mk III, TiUnite (NP, RP, WP)	41	1804	8.8	96.1 (8)
Pozzi A, Mura P. Clinical and Radiologic Experience with Moderately Rough Oxidized Titanium Implants: Up to 10 Years of Retrospective Follow-up. Int J Oral Maxillofac Implants. 2014;29(1):152-61.	Retrospective	Branemark MK III Branemark MK IV ReplaceSelect Tapered	73	1473	8.8	100.0 (0)
Malo P, de Araujo Nobre M, Lopes A, Moss SM, Molina GJ. A longitudinal study of the survival of All-on-4 implants in the mandible with up to 10 years of follow-up. J Am Dent Assoc. 2011;142(3):310-20.	Retrospective	NobelSpeedy	20	375	7.5	92.0 (4)
Polizzi G, Gualini F, Friberg B. A Two-Center Retrospective Analysis of Long-Term Clinical and Radiologic Data of TiUnite and Turned Implants Placed in the Same Mouth. Int J Prosthodont. 2013;26(4):350-8.	Retrospective	Branemark MkIII, MkIV	96	1823	7.5	96.6 (4)
Wagenberg B, Froum SJ. Long-Term Bone Stability around 312 Rough-Surfaced Immediately Placed Implants with 2-12-Year Follow-Up. Clin Implant Dent Relat Res. 2015;17(4):658-66	Retrospective	TiUnite implants	312	2309	7.4	100.0 (0)
Gelb D, McAllister B, Nummikoski P, del Fabbro M. Clinical and radiographic evaluation of Brånemark implants with an anodized surface following seven-to-eight years of functional loading. Int J Dent. epub ahead 2013.	Retrospective	Branemark System MK III, Branemark System MKIV	57	784	7.3	100.0 (0)
Ekfeldt A, Zellmer M, Carlsson GE. Treatment with implant-supported fixed dental prostheses in patients	Prospective	MK III MK IV (n=67 in total)	NR	540	7.2	88.0 (9)

with congenital and acquired neurologic disabilities: a prospective study. <i>Int J Prosthodont.</i> 2013;26(6):517-24.  Ekfeldt A. Early experience of implant-supported prostheses in patients with neurologic disabilities. <i>Int J Prosthodont.</i> 2005;18(2):132-8.		Speedy Groovy tapered (n=2) ReplaceSelect (n=6)				
Jungner M, Legrell PE, Lundgren S. Follow-up Study of Implants with Turned or Oxidized Surfaces Placed After Sinus Augmentation. <i>Int J Oral Maxillofac Implants.</i> 2014;29(6):1380-7.	Retrospective	Branemark System Mk III	15	315	7.0	97.7 (1)
Malo P, de Araujo Nobre M, Goncalves Y, Lopes A. Long-Term Outcome of Implant Rehabilitations in Patients with Systemic Disorders and Smoking Habits: A Retrospective Clinical Study. <i>Clin Implant Dent Relat Res.</i> epub ahead 2015.	Retrospective	Branemark System TiUnite Mk III (556) and Mk IV (723), NobelReplace (14), Nobel Speedy (1885)	649	22246	7.0	95.6 (84)
Malo P, de Araujo Nobre M, Lopes A, Moss S. Posterior maxillary implants inserted with bicortical anchorage and placed in immediate function for partial or complete edentulous rehabilitations. A retrospective clinical study with a median follow-up of 7 years. <i>Oral and maxillofacial surgery.</i> 2015;19(1):19-27.	Retrospective	NobelSpeedy Groovy Branemark MkIII Branemark MkIV	88	861	7.0	96.7 (4)
Malo P, de Araujo Nobre M, Lopes A, Queridinha B, Ferro A, Gravito I. Axial Implants in Immediate Function for Partial Rehabilitation in the Maxilla and Mandible: A Retrospective Clinical Study Evaluating the Long-term Outcome (Up to 10 Years). <i>Implant Dent.</i> 2015;24(5):557-64.	Retrospective	Nobel Replaced Tapered Groovy	NR		7.0	100.0 (0)
Francetti L, Azzola F, Corbella S, Taschieri S, Del Fabbro M. Evaluation of Clinical Outcomes and Bone Loss around Titanium Implants with Oxidized Surface: Six-Year Follow-Up Results from a Prospective Case Series Study. <i>Clin Implant Dent Relat Res.</i> 2014;16(1):81-8.	Prospective	Nobel Replace tapered and straight	22	367	6.8	98.0 (1)
Sanchez-Garces MA, Costa-Berenguer X, Gay-Escoda C. Short Implants: A Descriptive Study of 273 Implants. <i>Clin Implant Dent Relat Res.</i> 2012;14(4).	Retrospective	Branemark System Mk III TiUnite	NR	371	6.8	89.1 (6)
Arnhart C, Dvorak G, Trefil C, Huber C, Watzek G, Zechner W. Impact of implant surface topography: a clinical study with a mean functional loading time of 85 months. <i>Clin Oral Implants Res.</i> 2013;24(9):1049-54.	Retrospective	Branemark Mk III TiUnite	34	911	6.7	98.5 (2)
Katsoulis J, Walchli J, Kobel S, Gholami H, Mericske-Stern R. Complications with Computer-Aided Designed/Computer-Assisted Manufactured Titanium and Soldered Gold Bars for Mandibular Implant-Overdentures: Short-Term Observations. <i>Clin Implant Dent Relat Res.</i> 2015;17(S1):e75-e85.	NR	Replace Select Tapered	213		6.2	99.0 (5)
Bedrossian E. Rehabilitation of the Edentulous Maxilla with the Zygoma Concept: A 7-year Prospective Study. <i>Int J Oral Maxillofac Implants.</i> 2010;25(6):1213-21.	Prospective	Branemark System TiUnite Mk IV, Nobel Speedy	36	588	6.0	100.0 (0)

Dagorne C, Malet J, Bizouard G, Mora F, Range H, Bouchard P. Clinical evaluation of two dental implant macrostructures on peri-implant bone loss: a comparative, retrospective study. Clin Oral Implants Res. 2015;26(3):307-13.	Retrospective	Branemark MK III NobelSpeedy	59	828	5.8	93.8 (9)
Noelken R, Kunkel M, Jung BA, Wagner W. Immediate Nonfunctional Loading of NobelPerfect Implants in the Anterior Dental Arch in Private Practice - 5-Year Data. Clin Implant Dent Relat Res. 2014;16(1):21-31.  Noelken R, Morbach T, Kunkel M, Wagner W. Immediate function with NobelPerfect implants in the anterior dental arch. Int J Periodontics Restorative Dent. 2007;27(3):277-85.	Retrospective	Nobel Perfect	20	168	5.4	96.8 (1)
Nickenig HJ, Wichmann M, Happe A, Zoller JE, Eitner S. A 5-year prospective radiographic evaluation of marginal bone levels adjacent to parallel-screw cylinder machined-neck implants and rough-surfaced microthreaded implants using digitized panoramic radiographs. J Craniomaxillofac Surg. 2013;41(7):564-8.  Nickenig HJ, Wichmann M, Schlegel KA, Nkenke E, Eitner S. Radiographic evaluation of marginal bone levels adjacent to parallel-screw cylinder machined-neck implants and rough-surfaced microthreaded implants using digitized panoramic radiographs. Clin Oral Implants Res. 2009;20(6):550-4.	Prospective	NobelReplace Straight, Replace Select Straight	34	692	5.2	100.0 (0)
Polizzi G, Cantoni T. Five-Year Follow-Up of Immediate Fixed Restorations of Maxillary Implants Inserted in Both Fresh Extraction and Healed Sites Using the NobelGuide™ System. Clinical Implant Dentistry and Related Research. 2015;17(2):221-33.	Retrospective	NobelSpeedy Groovy, NobelSpeedy Replace Groovy, Replace Select Tapered, NobelReplace Tapered Groovy	27	816	5.1	97.3 (4)
Calandriello R, Tomatis M. Immediate Occlusal Loading of Single Lower Molars Using Branemark System(R) Wide Platform TiUnite Implants: A 5-Year Follow-Up Report of a Prospective Clinical Multicenter Study. Clin Implant Dent Relat Res. 2011;13(4):311-8.	Prospective	Branemark System Mk III TiUnite WP	33	200	5.0	95.0 (2)
Davo R, Malevez C, Rojas J. Immediate function in the atrophic maxilla using zygoma implants: a preliminary study. J Prosthet Dent. 2007;97(6 Suppl):S44-51.  Davo R, Malavez C, Rojas J, Rodriguez J, Regolf J. Clinical outcome of 42 patients treated with 81 immediately loaded zygomatic implants: a 12 to 42 month retrospective study. Eur J Oral Implantol 2008;1(2):141-50.  Davo R, Malevez C, Pons O. Immediately loaded zygomatic	Pro-retrospective	Branemark system (108) Branemark System Zygoma (37 TiUnite) Replace (32)	42	885	5.0	96.6 (6)

implants: a 5-year prospective study. Eur J Oral Implantol. 2013;6(1):39-47.						
Davo R, Pons O. 5-year outcome of cross-arch prostheses supported by four immediately loaded zygomatic implants: A prospective case series. Eur J Oral Implantol. 2015;8(2):169-74.  Davo R, Pons O, Rojas J, Carpio E. Immediate function of four zygomatic implants: a 1-year report of a prospective study. Eur J Oral Implantol. 2010;3(4):323-34.	Prospective	Branemark system Zygoma	NR	320	5.0	100.0 (0)
Davo R. Zygomatic implants placed with a two-stage procedure: a 5-year retrospective study. Eur J Oral Implantol. 2009;2(2):115-24.	Retrospective	Branemark Mk III RP	NR	150	5.0	93.3 (2)
Friberg B, Jemt T. Clinical Experience of TiUnite Implants: A 5-year Cross-Sectional, Retrospective Follow-Up Study. Clin Implant Dent Relat Res. 2010;12 Suppl 1:e95-e103.	Retrospective	Branemark MK III TiUnite	111	1400	5.0	98.0 (5)
Friberg B, Jemt T. Rehabilitation of Edentulous Mandibles by Means of Osseointegrated Implants: A 5-Year Follow-Up Study on One or Two-Stage Surgery, Number of Implants, Implant Surfaces, and Age at Surgery. Clin Implant Dent Relat Res. 2015;17(3):413-24.  Friberg B, Jemt T. Rehabilitation of edentulous mandibles by means of four TiUnite implants after one-stage surgery: a 1-year retrospective study of 75 patients. Clin Implant Dent Relat Res. 2010;12 Suppl 1:e56-62.  Friberg B, Jemt T. Rehabilitation of edentulous mandibles by means of five TiUnite implants after one-stage surgery: a 1-year retrospective study of 90 patients. Clin Implant Dent Relat Res. 2008;10(1):47-54..	Retrospective	Branemark system MK III TiUnite Branemark system MK IV TiUnite	165	3750	5.0	98.6 (9)
Hatano N, Yamaguchi M, Yaita T, Ishibashi T, Sennerby L. New approach for immediate prosthetic rehabilitation of the edentulous mandible with three implants: a retrospective study. Clin Oral Implants Res. 2011;22:1265-9.	Retrospective	Branemark System MK III and MKIV	NR	1265	5.0	98.8 (3)
Jemt T, Stenport V. Implant treatment with fixed prostheses in the edentulous maxilla. Part 2: prosthetic technique and clinical maintenance in two patient cohorts restored between 1986 and 1987 and 15 years later. Int J Prosthodont. 2011;24(4):356-62.  Jemt T, Stenport V, Friberg B. Implant treatment with fixed prostheses in the edentulous maxilla. Part 1: implants and biologic response in two patient cohorts restored between 1986 and 1987 and 15 years later. Int J Prosthodont. 2011;24(4):345-55..	Pro-retrospective	Branemark system TiUnite	63	1550	5.0	99.4 (2)
Jokstad A, Alkumru H. Immediate function on the day of surgery compared with a delayed implant loading process in the mandible: a randomized clinical trial over 5 years. Clin Oral Implants Res.	Prospective	Branemark system Mk III TiUnite, Branemark system Mk IV TiUnite	42	840	5.0	97.6 (4)

2014;25(12):1325-35. Alfadda SA. A randomized controlled clinical trial of edentulous patients treated with immediately loaded implant-supported mandibular fixed prostheses. Clin Implant Dent Relat Res. 2014;16(6):806-16.						
Kowar J, Eriksson A, Jemt T. Fixed Implant-Supported Prostheses in Elderly Patients: A 5-Year Retrospective Comparison between Partially and Completely Edentulous Patients Aged 80 Years or Older at Implant Surgery. Clin Implant Dent Relat Res. 2013;15(1):37-46.	Retrospective	Branemark System	NR	770	5.0	99.3 (1)
Malo P, Araujo Nobre MD, Lopes A, Rodrigues R. Double Full-Arch Versus Single Full-Arch, Four Implant-Supported Rehabilitations: A Retrospective, 5-Year Cohort Study. J Prosthodont. epub ahead 2014.	Retrospective	NobelSpeedy Groovy	110	2200	5.0	95.5 (5)
Malo P, de Araujo Nobre M. Implants (3.3 mm Diameter) for the Rehabilitation of Edentulous Posterior Regions: A Retrospective Clinical Study with Up to 11 Years of Follow-Up. Clin Implant Dent Relat Res. 2011;13(2):95-103.	Retrospective	NobelSpeedy Groovy Branemark MK III	NR	600	5.0	97.5 (3)
Malo P, Nobre M, Lopes A. The prognosis of partial implant-supported fixed dental prostheses with cantilevers. A 5-year retrospective cohort study. Eur J Oral Implantol. 2013;6(1):51-9.	Retrospective	NobelSpeedy Groovy NobelReplace Branemark MK III Branemark MK IV	NR	840	5.0	98.2 (3)
Mura P. Immediate Loading of Tapered Implants Placed in Postextraction Sockets: Retrospective Analysis of the 5-Year Clinical Outcome. Clin Implant Dent Relat Res. 2012;14(4):565-74.	Retrospective	Replace Select Tapered TiUnite (NP, RP, WP, 6.0)	56	395	5.0	100.0 (0)
Pettersson P, Sennnerby L. A 5-Year Retrospective Study on Replace Select Tapered Dental Implants. Clin Implant Dent Relat Res. 2015;17(2):286-95.	Retrospective	Replace Select Tapered	88	1355	5.0	99.6 (1)
Sayardoust S, Grondahl K, Johansson E, Thomsen P, Slotte C. Implant survival and marginal bone loss at turned and oxidized implants in periodontitis-susceptible smokers and never-smokers: a retrospective, clinical, radiographic case-control study. J Periodontol. 2013;84(12):1775-82.	Retrospective	Branemark System	40	540	5.0	96.2 (NR)
Malo P, de Araujo Nobre M, Lopes A, Ferro A, Gravito I. Complete Edentulous Rehabilitation Using an Immediate Function Protocol and an Implant Design Featuring a Straight Body, Anodically Oxidized Surface, and Narrow Tip with Engaging Threads Extending to the Apex of the Implant: A 5-year Retrospective Clinical Study. Int J Oral Maxillofac Implants. 2016;31(1):153-61.	Retrospective	Branemark Osteotome Implant TiUnite	46		5.0	97.3 (5)
Martins da Rosa JC, Pertile de Oliveira Rosa AC, Francischone CE, Sotto-Maior BS. Esthetic Outcomes and Tissue Stability of Implant	Prospective	NobelReplace Tapered TiUnite	18	88	4.9	100.0 (0)

Placement in Compromised Sockets Following Immediate Dentoalveolar Restoration: Results of a Prospective Case Series at 58 Months Follow-up. <i>Int J Periodontics Restorative Dent.</i> 2014;34(2):199-208.						
Hernandez G, Lopez-Pintor RM, Arriba L, Torres J, de Vicente JC. Implant treatment in patients with oral lichen planus: a prospective-controlled study. <i>Clin Oral Implants Res.</i> 2012;23(6):726-32.	Prospective	Brand not specified and Nobel Direct	46	519	4.4	98.3 (2)
Pozzi A, Tallarico M, Barlattani A. Monolithic lithium disilicate full-contour crowns bonded on CAD/CAM zirconia complete-arch implant bridges with 3 to 5 years of follow-up. <i>The Journal of oral implantology.</i> 2015;41(4):450-8	Prospective	NobelSpeedy Groovy, NobelSpeedy Replace	NR	287	4.1	100.0 (0)
Becker W, Hujoel P, Becker BE, Wohrle P. Survival Rates and Bone Level Changes around Porous Oxide-Coated Implants (TiUnite). <i>Clin Implant Dent Relat Res.</i> 2013;15(5):654-60.	Prospective	TiUnite (brand not specified)	409	3268	4.0	93.0 (38)
De Santis D, Cucchi A, Longhi C, Vincenzo B. Short Threaded Implants with an Oxidized Surface to Restore Posterior Teeth: 1- to 3-year Results of a Prospective Study. <i>Int J Oral Maxillofac Implants.</i> 2011;26(2):393-403.  De Santis D, Cucchi A, Rigoni G, Longhi C. Short Implants with Oxidized Surface in Posterior Areas of Atrophic Jaws: 3- to 5-Year Results of a Multicenter Study. <i>Clin Implant Dent Relat Res.</i> 2015;17(3):442-52.	Prospective	Branemark Mk III Shorty TiUnite, NobelSpeedy Shorty	46	425	4.0	96.1 (4)
Malo P, de Araujo Nobre M, Lopes A, Francischone C, Rigolizzo M. "All-on-4" Immediate-Function Concept for Completely Edentulous Maxillae: A Clinical Report on the Medium (3 Years) and Long-Term (5 Years) Outcomes. <i>Clin Implant Dent Relat Res.</i> 2012;14 Suppl 1:e139-50.	Retrospective	Branemark TiUnite Mk III-21. Branemark TiUnite Mk IV-82. NobelSpeedy	242	3872	4.0	98.0 (19)
Alvira-Gonzalez J, Diaz-Campos E, Sanchez-Garcés MA, Gay-Escoda C. Survival of immediately versus delayed loaded short implants: A prospective case series study. <i>Med Oral Patol Oral Cir Bucal.</i> 2015;20(4):e480-8.	Prospective	Branemark System MK III shorty TiUnite	24		4.0	96.4 (1)
Tallarico M, Canullo L, Erta X, Meloni SM. Dental implants treatment outcomes in patient under active therapy with alendronate: 3-year follow-up results of a multicenter prospective observational study. <i>Clin Oral Implants Res.</i> epub ahead 2015.	Prospective	Nobel Replace Tapered	32		4.0	99.0 (1)
Paul S, Held U. Immediate supracrestal implant placement with immediate temporization in the anterior dentition: a retrospective study of 31 implants in 26 patients with up to 5.5-years follow-up. <i>Clin Oral Implants Res.</i> 2013;24(6):710-7.	Retrospective	Nobel Perfect	28	112	3.4	100.0 (0)
Zembic A, Glauser R, Khraisat A, Hammerle CH. Immediate vs. early loading of dental implants: 3-year results of a randomized controlled clinical trial. <i>Clin Oral Implants Res.</i> 2010;21(5):481-9.	Prospective	Branemark MK IV TiUnite	NR	26	3.3	87.5 (1)

Bahat O. Technique for Placement of Oxidized Titanium Implants in Compromised Maxillary Bone: Prospective Study of 290 Implants in 126 Consecutive Patients Followed for a Minimum of 3 Years After Loading. <i>Int J Oral Maxillofac Implants.</i> 2009;24:325-34.	Prospective	NobelReplace , NobelReplace Select	126	870	3.0	99.3 (2)
Cosyn J, Eghbali A, De Bruyn H, Collys K, Cleymaet R, De Rouck T. Immediate single-tooth implants in the anterior maxilla: 3-year results of a case series on hard and soft tissue response and aesthetics. <i>J Clin Periodontol.</i> 2011;38(8):746-53.  De Rouck T, Collys K, Cosyn J. Immediate single-tooth implants in the anterior maxilla: a 1-year case cohort study on hard and soft tissue response. <i>J Clin Periodontol.</i> 2008;35(7):649-57.	Prospective	NobelReplace TiUnite	30	90	3.0	96.7 (1)
Demagnet M, Merheb J, Simons WF, Leroy R, Quirynen M. The outcome of a novel tapered implant in a private practice limited to Periodontology. <i>Le Dentiste.</i> 2011;426:22-5.	Retrospective	NobelActive NA Internal, TiUnite	172	1398	3.0	99.1 (3)
Fung K, Marzola R, Scotti R, Tadinada A, Schincaglia GP. A 36-month randomized controlled split-mouth trial comparing immediately loaded titanium oxide-anodized and machined implants supporting fixed partial dentures in the posterior mandible. <i>Int J Oral Maxillofac Implants.</i> 2011;26(3):631-8.  Schincaglia GP, Marzola R, Scapoli C, Scotti R. Immediate loading of dental implants supporting fixed partial dentures in the posterior mandible: a randomized controlled split-mouth study--machined versus titanium oxide implant surface. <i>Int J Oral Maxillofac Implants.</i> 2007;22(1):35-46.	Prospective	Branemark MK IV TiUnite	10	60	3.0	100.0 (0)
Gothberg C, Andre U, Grondahl K, Thomsen P, Slotte C. Bone Response and Soft Tissue Changes Around Implants With/Without Abutments Supporting Fixed Partial Dentures: Results From a 3-Year, Prospective, Randomized, Controlled Study. <i>Clin Implant Dent Relat Res.</i> 2015.  Gothberg C, Andre U, Grondahl K, Ljungquist B, Thomsen P, Slotte C. Immediately loaded implants with or without abutments supporting fixed partial dentures: 1-year results from a prospective, randomized, clinical trial. <i>Clinical implant dentistry and related research.</i> 2014;16(4):487-500.	Prospective	Branemark MkIII TiUnite (RP, NP)	50	450	3.0	95.7 (6)
Khrisat A, Zembic A, Jung RE, Hammerle CH. Marginal bone levels and soft tissue conditions around single-tooth implants with a scalloped neck design: results of a prospective 3-year study. <i>Int J Oral Maxillofac Implants.</i> 2013;28(2):550-5.	Prospective	Nobel Perfect Branemark MK III RP	24	72	3.0	100.0 (0)
Kolinski ML, Cherry JE, McAllister BS, Parrish KD, Pumphrey DW, Schroering RL. Evaluation of a	Prospective	NobelActive	55	180	3.0	98.3 (1)



<p>Variable-Thread Tapered Implant in Extraction Sites With Immediate Temporization: A 3-Year Multi-Center Clinical Study. J Periodontol. 2014;85(3):386-94.</p> <p>McAllister BS, Cherry JE, Kolinski ML, Parrish KD, Pumphrey DW, Schroering RL. Two-year Evaluation of a Variable-Thread Tapered Implant in Extraction Sites with Immediate Temporization: A Multicenter Clinical Trial. Int J Oral Maxillofac Implants. 2012;27(3):611-8.</p>						
<p>Koo KT, Wikesjo UM, Park JY, Kim TI, Seol YJ, Ku Y, et al. Evaluation of single-tooth implants in the second molar region: a 5-year life-table analysis of a retrospective study. J Periodontol. 2010;81(9):1242-9.</p>	Retrospective	Branemark System MkIII TiUnite	489	1563	3.0	95.1 (15)
<p>Kronstrom M, Davis B, Loney R, Gerrow J, Hollender L. A Prospective Randomized Study on the Immediate Loading of Mandibular Overdentures Supported by One or Two Implants; A 3 Year Follow-Up Report. Clin Implant Dent Relat Res. 2014;16(3):323-9.</p> <p>Kronström M, Davis B, Loney R, Gerrow J, Hollender L. A prospective randomized study on the immediate loading of mandibular overdentures supported by one or two implants: a 12-month follow-up report. Int J Oral Maxillofac Implants. 2010;25(1):181-8.</p>	Prospective	Branemark TiUnite	36	165	3.0	81.8 (10)
<p>Lal K, Eisig SB, Fine JB, Papaspyridakos P. Prosthetic outcomes and survival rates of implants placed with guided flapless surgery using stereolithographic templates: a retrospective study. Int J Periodontics Restorative Dent. 2013;33(5):661-7.</p>	Retrospective	Branemark System MK III TiUnite	NR	210	3.0	95.8 (NR)
<p>Malo P, de Araujo Nobre MA, Lopes AV, Rodrigues R. Immediate loading short implants inserted on low bone quantity for the rehabilitation of the edentulous maxilla using an All-on-4 design. J Oral Rehabil. 2015;42(8):615-23</p>	Retrospective	NobelSpeedy Shorty (74), NobelSpeedy groovy (98)	43	516	3.0	95.5 (6)
<p>Malo P, de Araujo Nobre M, Lopes A, Ferro A, Moss S. Extramaxillary Surgical Technique: Clinical Outcome of 352 Patients Rehabilitated with 747 Zygomatic Implants with a Follow-Up between 6 Months and 7 Years. Clin Implant Dent Relat Res. epub ahead 2013.</p> <p>Malo P, Nobre Mde A, Lopes A, Ferro A, Moss S. Five-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic maxillae with immediately loaded zygomatic implants placed extra-maxillary. Eur J Oral Implantol. 2014;7(3):267-81.</p> <p>Maló P, de Araújo Nobre M, Lopes I. A new approach to rehabilitate the severely atrophic maxilla using extramaxillary anchored implants in</p>	Retrospective	Branemark-Zygoma NobelSpeedy	352	4626	3.0	98.0 (31)

<p>immediate function: A pilot study. J Prosthet Dent 2008;100:354–366</p> <p>Malo P, Nobre M, Lopes A, Francischone C, Rigolizzo M. Three-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic maxillae with immediately loaded extra-maxillary zygomatic implants. Eur J Oral Implantol. 2012;5(1):37-46.</p>						
<p>Malo P, de Araujo Nobre M, Lopes A, Ferro A, Moss S. Extramaxillary Surgical Technique: Clinical Outcome of 352 Patients Rehabilitated with 747 Zygomatic Implants with a Follow-Up between 6 Months and 7 Years. Clin Implant Dent Relat Res. epub ahead 2013.</p> <p>Malo P, Nobre Mde A, Lopes A, Ferro A, Moss S. Five-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic maxillae with immediately loaded zygomatic implants placed extra-maxillary. Eur J Oral Implantol. 2014;7(3):267-81.</p> <p>Maló P, de Araújo Nobre M, Lopes I. A new approach to rehabilitate the severely atrophic maxilla using extramaxillary anchored implants in immediate function: A pilot study. J Prosthet Dent 2008;100:354–366</p> <p>Malo P, Nobre M, Lopes A, Francischone C, Rigolizzo M. Three-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic maxillae with immediately loaded extra-maxillary zygomatic implants. Eur J Oral Implantol. 2012;5(1):37-46.</p>	<p>Retrospective</p>	<p>NobelSpeedy</p>	<p>301</p>	<p>2385</p>	<p>3.0</p>	<p>97.9 (17)</p>
<p>Malo P, de Araujo Nobre M, Lopes A, Ferro A, Moss S. Extramaxillary Surgical Technique: Clinical Outcome of 352 Patients Rehabilitated with 747 Zygomatic Implants with a Follow-Up between 6 Months and 7 Years. Clin Implant Dent Relat Res. epub ahead 2013.</p> <p>Malo P, Nobre Mde A, Lopes A, Ferro A, Moss S. Five-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic maxillae with immediately loaded zygomatic implants placed extra-maxillary. Eur J Oral Implantol. 2014;7(3):267-81.</p> <p>Maló P, de Araújo Nobre M, Lopes I. A new approach to rehabilitate the severely atrophic maxilla using extramaxillary anchored implants in immediate function: A pilot study. J Prosthet Dent 2008;100:354–366</p> <p>Malo P, Nobre M, Lopes A, Francischone C, Rigolizzo M. Three-year outcome of a retrospective cohort study on the rehabilitation of completely edentulous atrophic</p>	<p>Retrospective</p>	<p>Branemark-Zygoma NobelSpeedy (tip)</p>	<p>352</p>	<p>4626</p>	<p>3.0</p>	<p>98.0 (31)</p>

maxillae with immediately loaded extra-maxillary zygomatic implants. Eur J Oral Implantol. 2012;5(1):37-46.						
Malo P, Nobre M, Lopes A. Immediate loading of 'All-on-4' maxillary prostheses using trans-sinus tilted implants without sinus bone grafting: a retrospective study reporting the 3-year outcome. Eur J Oral Implantol. 2013;6(3):273-83.	Retrospective	NobelSpeedy Replace NobelSpeedy Shorty	70	840	3.0	98.2 (5)
Nicu EA, Van Assche N, Coucke W, Teughels W, Quirynen M. RCT comparing implants with turned and anodically oxidized surfaces. A pilot study, the 3-year follow-up. J Clin Periodontol. 2012 39(12):1183-119.  Van Assche N, Coucke W, Teughels W, Naert I, Cardoso MV, Quirynen M. RCT comparing minimally with moderately rough implants. Part 1: clinical observations. Clin Oral Implants Res. 2012;23(5):617-24.  Quirynen M, Van Assche N. RCT comparing minimally with moderately rough implants. Part 2: microbial observations. Clin Oral Implants Res. 2012;23(5):625-34.	Prospective	Branemark Mk III TiUnite groovy	18	126	3.0	100.0 (0)
Pozzi A, Tallarico M, Moy PK. Three-year post-loading results of a randomised, controlled, split-mouth trial comparing implants with different prosthetic interfaces and design in partially posterior edentulous mandibles. Eur J Oral Implantol. 2014;7(1):47-61.  Pozzi A, Agliardi E, Tallarico M, Barlattani A. Clinical and Radiological Outcomes of Two Implants with Different Prosthetic Interfaces and Neck Configurations: Randomized, Controlled, Split-Mouth Clinical Trial. Clin Implant Dent Relat Res. 2014;16(1):96-106.	Prospective	NobelActive	34	132	3.0	100.0 (0)
Pozzi A, Tallarico M, Moy PK. Three-year post-loading results of a randomised, controlled, split-mouth trial comparing implants with different prosthetic interfaces and design in partially posterior edentulous mandibles. Eur J Oral Implantol. 2014;7(1):47-61.  Pozzi A, Agliardi E, Tallarico M, Barlattani A. Clinical and Radiological Outcomes of Two Implants with Different Prosthetic Interfaces and Neck Configurations: Randomized, Controlled, Split-Mouth Clinical Trial. Clin Implant Dent Relat Res. 2014;16(1):96-106.	Prospective	NobelActive	34	132	3.0	100.0 (0)
Worni A, Kolgeci L, Rentsch-Kollar A, Katsoulis J, Mericske-Stern R. Zirconia-Based Screw-Retained Prostheses Supported by Implants: A Retrospective Study on Technical Complications and Failures. Clin Implant Dent Relat Res. epub ahead 2014.	Retrospective	NobelReplace Tapered	95	882	3.0	99.3 (2)
Hartlev J, Kohberg P, Ahlmann S, Andersen NT, Schou S, Isidor F. Patient satisfaction and esthetic	Retrospective	Replace Select Tapered	55	151	2.8	98.0 (1)

outcome after immediate placement and provisionalization of single-tooth implants involving a definitive individual abutment. Clin Oral Implants Res. 2014;25(11):1245–50.						
Hartlev J, Kohberg P, Ahlmann S, Gottfredsen E, Andersen NT, Isidor F, et al. Immediate placement and provisionalization of single-tooth implants involving a definitive individual abutment: a clinical and radiographic retrospective study. Clin Oral Implants Res. 2013;24(6):652-8.						
Meloni SM, De Riu G, Pisano M, Lolli FM, Deledda A, Campus G, et al. Implant Restoration of Edentulous Jaws with 3D Software Planning, Guided Surgery, Immediate Loading, and CAD-CAM Full Arch Frameworks. Int J Dent. 2013;2013:683423.	Prospective	Nobel Replace Tapered Groovy	20	300	2.5	97.7 (4)
Weinstein R, Agliardi E, Fabbro MD, Romeo D, Francetti L. Immediate Rehabilitation of the Extremely Atrophic Mandible with Fixed Full-Prosthesis Supported by Four Implants. Clin Implant Dent Relat Res. 2012;14(3):434-41.	Prospective	Branemark Mk IV (TiUnite?), NobelSpeedy Groovy	7	33	2.5	100.0 (0)
Fürhauser R, Mailath-Pokorny G, Haas R, Busenlechner D, Watzek G, Pommer B. Esthetics of Flapless Single-Tooth Implants in the Anterior Maxilla Using Guided Surgery: Association of Three-Dimensional Accuracy and Pink Esthetic Score. Clin Implant Dent Relat Res. 2015;17(Suppl 2):e427-33	Retrospective	NobelReplace TiUnite	27	62	2.3	100.0 (0)
Kan JY, Rungcharassaeng K, Morimoto T, Lozada J. Facial gingival tissue stability after connective tissue graft with single immediate tooth replacement in the esthetic zone: consecutive case report. J Oral Maxillofac Surg. 2009;67 suppl 11:40-8.	Prospective	NobelReplace Tapered Groovy Nobel Perfect Groovy	14	30	2.2	100.0 (0)
Malo P, Nobre Mde A, Lopes A. Immediate Rehabilitation of Completely Edentulous Arches with a Four-Implant Prosthesis Concept in Difficult Conditions: An Open Cohort Study with a Mean Follow-up of 2 Years. Int J Oral Maxillofac Implants. 2012;27(5):1177-90.	Prospective	NobelSpeedy Branemark MK III Branemark MK IV	142	499	2.2	96.9 (7)
Cricchio G, Sennerby L, Lundgren S. Sinus bone formation and implant survival after sinus membrane elevation and implant placement: a 1- to 6-year follow-up study. Clin Oral Implants Res. 2011;22(10):1200-12.	NR	Branemark System Mk III TiUnite, Branemark System Mk III Groovy	84	502	2.1	98.7 (3)
De Vico G, Bonino M, Spinelli D, Schiavetti R, Sannino G, Pozzi A, et al. Rationale for tilted implants: FEA considerations and clinical reports. Oral Implantol (Rome). 2011;4(3-4):23-33.	Prospective	Nobel Active	35		2.1	100.0 (0)
Cricchio G, Imburgia M, Sennerby L, Lundgren S. Immediate Loading of Implants Placed Simultaneously with Sinus Membrane Elevation in the Posterior Atrophic Maxilla: A Two-	NR	Branemark System Mk III TiUnite, Branemark System	10	42	2.0	100.0 (0)

Year Follow-Up Study on 10 Patients. Clin Implant Dent Relat Res. 2014;16(4):609-17.		TiUnite Groovy				
Famili P, Zavoral JM. Low skeletal bone mineral density does not affect dental implants. Journal of Oral Implantology. 2015;41(5):550-3	Prospective	NobelReplace Tapered Groovy	30	62	2.0	96.6 (1)
Meloni SM, De Riu G, Pisano M, Dell'aversana Orabona G, Piombino P, Salzano G, et al. Computer-assisted implant surgery and immediate loading in edentulous ridges with dental fresh extraction sockets. Two years results of a prospective case series study. Eur Rev Med Pharmacol Sci. 2013;17(21):2968-73.	Prospective	Nobel Replace Tapered Groovy (RP, WP)	12	144	2.0	100.0 (0)
Renouard F, Nisand D. Short implants in the severely resorbed maxilla: a 2-year retrospective clinical study. Clin Implant Dent Relat Res. 2005;7 Suppl 1:S104-10.	Retrospective	Branemark TiUnite	NR	84	2.0	97.6 (1)
Rompen E, Raepsaet N, Domken O, Touati B, Van Dooren E. Soft tissue stability at the facial aspect of gingivally converging abutments in the esthetic zone: a pilot clinical study. J Prosthet Dent. 2007;97(6 Suppl):S119-S25.	Prospective	NobelReplace Select Groovy	NR	50	2.0	100.0 (0)
Shibly O, Kutkut A, Albandar JM. One-year re-entry results of guided bone regeneration around immediately placed implants with immediate or conventional loading: a case series. J Int Acad Periodontol. 2012;14(3):62-8.  Shibly O, Kutkut A, Patel N, Albandar JM. Immediate Implants with Immediate Loading vs. Conventional Loading: 1-Year Randomized Clinical Trial. Clin Implant Dent Relat Res. 2012;14(5):663-71.  Shibly O, Patel N, Albandar JM, Kutkut A. Bone Regeneration Around Implants in Periodontally Compromised Patients: A Randomized Clinical Trial of the Effect of Immediate Implant With Immediate Loading. J Periodontol. 2010;81(12):1743-51.	Prospective	Nobel Replace Straight Groovy TiUnite	60	120	2.0	95.0 (3)
Van de Velde T, Thevissen E, Persson GR, Johansson C, De Bruyn H. Two-Year Outcome with Nobel Direct(R) Implants: A Retrospective Radiographic and Microbiologic Study in 10 Patients. Clin Implant Dent Relat Res. 2009;11(3):183-93.	Retrospective	NobelDirect	10	24	2.0	75.0 (3)
Drago C. Frequency and Type of Prosthetic Complications Associated with Interim, Immediately Loaded Full-Arch Prostheses: A 2-Year Retrospective Chart Review. J Prosthodont. epub ahead 2015.	Retrospective	Nobel Active	129		2.0	99.5 (4)
Drago C. Cantilever Lengths and Anterior-Posterior Spreads of Interim, Acrylic Resin, Full-Arch Screw-Retained Prostheses and Their Relationship to Prosthetic Complications. J Prosthodont. epub ahead 2016.	Retrospective	Nobel Active	128		2.0	99.5 (4)

