

Historically, implants have been associated with time-consuming surgical procedures. This is no longer the case with the Nobel Biocare implants, since Nobel Biocare has received FDA clearance for Immediate Function™ of all but one of our implant systems. The NobelDirect 3.0 is currently under 510(k) review for immediate function.

Provided high initial stability and controlled loads, the implants can be placed into function immediately after insertion. Implants with the osseointegrative TiUnite® surface are preferred for Immediate Function™ applications, since the more rapid bone formation on TiUnite® results in better maintenance of implant stability and faster and stronger osseointegration compared to implants with a machined surface. The advantages of Immediate Function™ are obvious: less trauma for the patient and a shorter treatment time, resulting in better clinical efficiency.

The Immediate Function™ procedure has been documented in more than 90 independent clinical publications. The studies cover all oral regions and indications (single-tooth restorations, partial and full-arch fixed prostheses, as well as implant-supported overdentures), and show high success rates. The highest success rates have been reported for splinted multiple implants in sites with sufficient bone density, using TiUnite® implants. The highest risks have been encountered in single-tooth cases in the posterior maxilla in combination with soft bone quality, short implants, long supra-structures and parafunctions.

(Please note that Abstracts, reviews, case reports, technique descriptions, animal and in vitro tests are excluded)

<i>Author</i>	<i>Year</i>	<i>Implant system</i>	<i>Indication</i>	<i># pat.</i>	<i># impl.</i>	<i>Time of loading</i>	<i>Time of follow-up</i>	<i>CSR %</i>
<i>Aalam et al</i>	2005	<i>Brdemark system Mk III</i>	<i>Complete mandible</i>	16	90	<i>At placement</i>	<i>3 years</i>	96.6
<i>Adriaenssens et al</i>	2001	<i>Brdemark system Mk III, Mk IV</i>	<i>Maxillary incisors/ bicuspids, single tooth</i>	25	37	<i>At placement</i>	<i>1 year</i>	94.6
<i>Achilli et al</i>	2007	<i>Replace Select Tapered TiUnite</i>	<i>Maxilla & mandible Posterior FPD</i>	51	120	<i>61% at placement 39% after 6 weeks</i>	<i>1 year</i>	100
<i>Attard et al</i>	2005	<i>Nobel Biocare, TiUnite</i>	<i>Complete mandible</i>	35	70	<i>After 10 days</i>	<i>1 year</i>	98.6
<i>Balshi & Wolfinger</i>	1997	<i>Brdemark System</i>	<i>Complete mandible</i>	10	40	<i>At placement</i>	<i>*4.5 months*</i>	80.0
<i>Balshi & Wolfinger</i>	2005	<i>Brdemark System</i>	<i>Complete maxilla</i>	55	522	<i>At placement</i>	<i>1 up to 4 years</i>	99.0
<i>Balshi et al</i>	2005	<i>Brdemark System Machined & TiUnite</i>	<i>Complete mandible & maxilla</i>	51	344	<i>At placement</i>	<i>3 months</i>	98.5
<i>Becker et al</i>	2003	<i>Brdemark System Mk III</i>	<i>Complete mandible</i>	20	92	<i>After 5 days</i>	<i>1 to 4 years</i>	96.3
<i>Bedrossian et al</i>	2006	<i>Brdemark System Zygoma MkIV</i>	<i>Complete maxilla</i>	14	83	<i>Within 2 hours</i>	<i>1 up to 2.5 years</i>	100