Neoss: A proven heritage

_Author_ Neoss Staff

Convinced that existing implant systems were too complex, Professor Neil Meredith and Fredrik Engman founded Neoss in 2000 with the idea to create a much simpler and more rationalized solution. According to the company, the benefits of the resulting products are clear: reduced patient treatment time, optimized inventory control and superior outcomes for patients.

_Proven clinical evidence and design of Neoss Implants_

Produced with commercially pure titanium (Grade IV), ProActive Implants have a low surface roughness flange designed to reduce marginal bone loss. At the same time, higher surface roughness of the threaded body of the implants optimizes stability and osseointegration.

The universal Thread Cutting and Forming (TCF) design of the implant ensures suitability for all bone qualities. The secondary cutting face provides additional efficiency in dense bone. Threads extend to the tip of the implant ensuring excellent stability.

_Proven clinical experience_

A randomly selected population of 100,000 implants was sampled from the Neoss warranty registry, and statistical analysis indicated a three-year cumulative survival rate of 98.2 percent. Of the 1.8 percent of failures, the major aetiological factors were smoking, a combination of poor bone quality, bone quantity and immediate loading.

_Proof of the Neoss ProActive Surface_

Surface roughness and hydrophilicity are essential to the absorption of proteins and biomolecules onto implant surfaces, thereby facilitating healing and bone formation.

Neoss has utilized Electrowetting on titanium surfaces to increase hydrophilicity and maximize the penetration of blood and its components onto the implant surface.

The etched, blasted and treated Pro-Active Implant surface stimulates bone to form more rapidly and with a greater strength at the implant interface. ProActive Implants surpassed the performance of competitive implants in in-vivo removal torque tests.

In the first published study of ProActive Implants, they recorded a 100 percent success rate after one year of placement in non-bone grafted patients and 98.5 percent in bone-augmented patients. In the same study group of patients, marginal bone loss of 0.4 mm was recorded at one year.

Studies have consistently shown outstanding survival rates and retention of marginal bone levels.

With five implant diameters, two implant designs and just one connection, the Neoss Implant system provides both surgeons and restorative dentists the greatest possible freedom and flexibility without compromise in performance or success, according to the company. All prosthetic components in the Neoss System are compatible with ProActive Straight and ProActive Tapered implants.

_NeoLoc connection_

NeoLoc® is the unique Neoss implant to abutment connection that offers the advantages of a remarkably strong and tight connection, proven long-term clinical success, high levels of bone preservation, optimal flexibility for restoration and the “one connection” concept, the company asserts. Neoss engaging abutments have deformation lugs that minimize rotational movements and secure a distinct seating.

Crystaloc™ abutment screws are 30 percent stronger than gold screws in static strength testing, thus facilitating a high clamping force between the abutment and implant, offering an additional 10 percent resistance to fracture during long-term clinical function.

Warranty data over many years has demonstrated a low fracture rate with less than one fractured implant per 10,000 implants.

For more information, contact Neoss Inc., at (866) 626-3677 or usa@neoss.com.

*References available upon request from the publisher.*