Why Choose the Neoss4+ Solution?

The edentulous or soon-to-be edentulous patient population in the United States is continuously increasing. The ability to treat these patients in a predictable, timely, esthetic, and reasonably priced manner has never been more important. The Neoss 4+ treatment option may be the ideal treatment to consider for your patients.

Neoss4+ Concept:

- Is a rehabilitation concept for an edentulous patient utilizing four implants or more – Neoss4+ – to support a full arch screw-retained prosthesis based on existing clinical know-how
- Utilizes the angulation of two posterior implants to maximize contact with bone and thus increase stability, supported by two straight implants in the anterior
- Provides flexibility between implant and abutment level restorative connections in the same case including the utilization of an Access Abutment to alter platform height or angle
- With evenly distributed forces, cases can typically be provisionalized immediately
- The clinical concept has a proven long-term restorative clinical success – introduced in the late 1990’s
- The range of different abutment heights support options for both sub and supra tissue level prosthetic connections

The Neoss Advantage: Intelligent Simplicity

A Single Common Prosthetic Connection Made Simpler

The Neoss Implant System provides both surgeons and restorative doctors with the greatest possible freedom and flexibility without compromising performance or success. Whether the surgeon places Neoss ProActive® Straight or Neoss ProActive® Tapered implants, the restorative options and flexibility are the same.

All prosthetic components in the Neoss® Implant System are compatible with both the Neoss ProActive® Straight and Neoss ProActive® Tapered implants (Ø3.5-6.0 mm), providing greater flexibility of implant choice at the time of surgery. With a single common connection, single screwdriver, and procedure-friendly impression copings, the restoration could not be made simpler.

Complete Prosthetic Offering

The Neoss Implant System offers patients a broad range of esthetic and functional solutions. These are available as cemented or Access Abutment screw-retained options, overdenture, and CAD/CAM designed prostheses.
Access Abutment Features

A range of abutment heights and angulations

The Access Abutment design expands the indications for the Neoss® Implant system by allowing screw-retained restorations requiring 10°, 20° and 30° angulation. The angled Access Abutments are available with the following collar heights: 10° - 2.6 and 4.6 mm, 30° - 2.9 and 4.9 mm. Straight Access Abutments are available in four heights: 1.5, 3.0, 4.0, and 6.0 mm.

Esthetic low profile

The Access Abutment balances strength and esthetics with a unique internal connection requiring as little as 4.5 mm of interocclusal space. The compact emergence profile is designed to eliminate potential soft tissue problems.

The screw access hole is minimized and allows a tightening torque of 20 Ncm for the prosthetic screw.

Cost efficiency

All Access Abutments fit Neoss implants Ø3.5–6.0 mm, minimizing the number of components needed for inventory.

Easy positioning

The Access Abutment design allows the clinician to position the Access Abutment, tighten the screw, and remove the holder – offering a truly user-friendly placement protocol. Achieving passivity, framework delivery, and if required, retrievability are all made simple with the Access Abutment.

The compulsory mechanical tests as per ISO 14801 and 10+ years of clinical performance demonstrates that the Access Abutment design and strong prosthetic screw provide endurance strength as high as the Neoss implants themselves. Hence, the long term mechanical performance of the Access Abutment is one of the outstanding advantages of using the Neoss4+ concept.

Images courtesy of Paul S. Rosen, DMD, MS – Yardley, PA. Prosthetics was done by Eric LePine, DMD in Yardley, PA.
Treatment Planning

It is crucial that the lab, surgeon, restorative clinician, and your Neoss representative all coordinate when approaching full arch treatments. Considerations such as materials, protocols, and process must be discussed, agreed upon, and planned well in advance of the case. Protocols can vary so it is important to plan the number and duration of appointments, composition, and dimensions of the restorative prosthesis, in an effort to achieve optimal patient outcomes.

With a single prosthetic connection for all implants with a diameter of Ø3.5 mm and higher in all implant shapes, the conversion and overall restoration process is greatly simplified when compared with any other system. The Neoss® Implant System dramatically reduces the number of parts and instrumentation necessary to complete the process.

Specific guidelines for use of Neoss Access Abutments can be found in Part 3 of our Neoss Implant System Guidelines, entitled “Laboratory Guidelines”.

Medical/Dental History, Patient Intraoral Exam, Radiographs

Below are some points for clinicians and patients to consider prior to treatment, including but not limited to:

- Perform a thorough patient history and head/neck physical exam
- Inspect oral condition, paying close attention to history of TMD or periodontal disease
- Treatment and control of existing TMD/periodontal issues is critical
- Non-implant treatment based therapies may be indicated due to certain pre-existing conditions
- Clinical assessment may include:
  - Lip Line, vertical dimension, TMD, muco-gingical junction, mouth opening, maxillo-mandibular relationship, existing prosthetics, hyposalivation/xerostomia/salivary output
  - Implant placement may require 3D imaging to provide needed information for diagnosis and treatment planning
  - Perform/request any available diagnostic images
  - Panoramic radiographs, intra-oral radiographs, CB-CT, or spiral CT

Images courtesy of Jeffrey Kapman, DDS - Melville, NY.
Candidates for Neoss4+ may include patients with:

- Existing dentures
- History or existence of uncontrollable decay
- Terminal periodontal disease
- Periodontal disease with poor long-term prognosis
- Multiple missing teeth with poor prognosis
- Sufficient bone width and height
- Adequate healing capability

Basics of Neoss4+

Minimum of four implants: Two in the anterior and two in the posterior

- Maximize a/p spread by tilting the implants to avoid anatomic challenges and take advantage of bone height/width availability
- Minimize cantilevers
- Attach bar or fixed bridge straight to fixtures or use Angled Access Abutments
- Ability to achieve primary stability that is sufficient for immediate loading
- Implants should withstand a minimum tightening torque of 35 Ncm
- If this tightening torque is not achieved, a conventional healing phase is recommended prior to delivery of the provisional or final restoration

Images courtesy of John A. Hodges, DDS - Covington, WA.
Neoss4+ Cases

Screw-retained wax set-up with denture teeth.

Full arch Pekkton Hybrid with GC LisiPress crowns.

Gingival side of Pekkton Hybrid.

Neoss Access Abutments.

Final delivery of Pekkton Hybrid.

Final delivery of Pekkton Hybrid.

Images courtesy of Michael W. Brumm, DMD, AAACD – Clearwater, FL.

Pre-op.

Immediate impression using GC-resin splint for six Neoss fixtures.

Neoss case 24 hour immediate loading- six Neoss implants.

Manalibular provisional try-in using clear bite template.

Neoss case 24 hour immediate loading- six Neoss implants.

Six months post-insertion.

Images courtesy of Paul S. Apfel, DDS – Huntington, NY.
Benefits to Patients:

- Alternative to dentures
- Patient has a fixed screw-retained prosthesis
- Lower cost treatment
- Stabilizes bone
- Preserves natural facial contours and esthetics
- Improved oral health and function
- Shorter treatment time
- Improved function
- Improves self-esteem and speech

Neoss Support Services

Technical Representative Support
The experienced Neoss support team can facilitate meetings between the surgeon, restorative doctor and the laboratory, ensuring a coordinated treatment planning process.

Inventory Support
Neoss 4+ users may be eligible for a discounted start-up inventory, customized to their specific needs. With an in-office stock of commonly-used Access Abutments, your efficiency is maximized and you minimize the need to over-order and then return unused product(s).

Educational Support
Neoss can provide a variety of educational support programs to suit the needs of the Neoss4+ practitioner. This includes restorative didactic and hands-on programs to expand the referral base for the Neoss 4+ surgical office, as well as staff education programs designed to familiarize the office support staff with full arch case acceptance presentations.

Laboratory Support
Neoss maintains a nationwide network of Neoss Authorized Laboratories who are experienced in producing full arch restorations, knowing the proper use of Neoss components, and offering in-office support for surgical and restorative procedures. Neoss has partnered with the best milling companies to ensure the optimal results for full arch frames.

Images courtesy of John A. Hodges, DDS - Covington, WA
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