



Smile for everyone solution



NeoArch® Solution



Helix® Implant

NEODENT® NEOARCH®

IMMEDIATE FULL-ARCH SOLUTION.



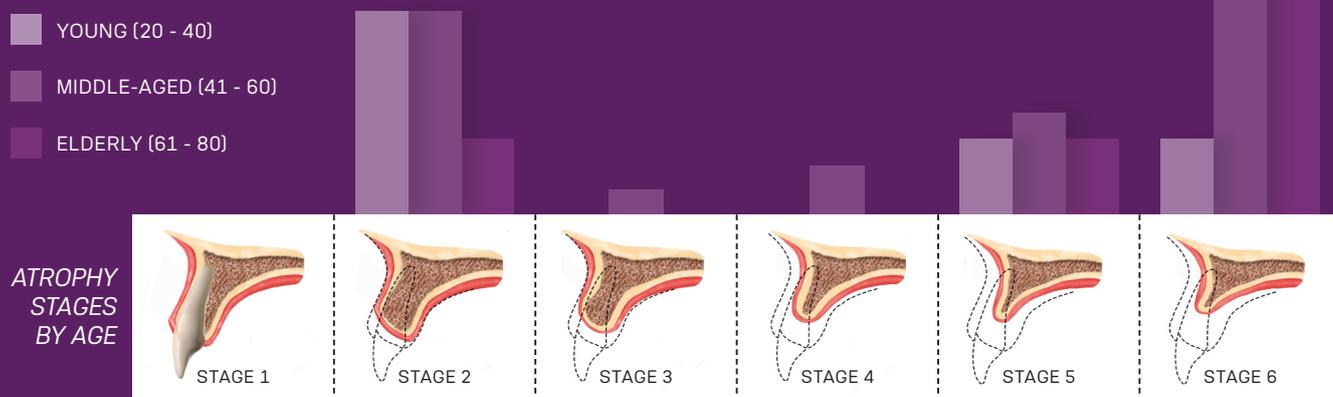


Smile for Everyone.

Neodent® goes beyond conventional implant dentistry to offer solutions for immediate treatments in a wide range of clinical challenges. From solutions for limited surgical and prosthetic spaces to full arch rehabilitations, 'Smile For Everyone' portfolio aims to increase efficiency and peace of mind, while improving patient satisfaction and quality of life, by immediately restoring function with reliability.

High levels of atrophic maxilla are mainly affecting a growing population

Globally, poor oral health among elderly people represents high levels of tooth loss. Following this, the severely atrophic maxilla is a very common oral disease particularly in this population aged 60 and above.⁽¹⁻²⁾



1990
0,5 BILLIONS



2050
MORE THAN
2 BILLIONS



INCREASE OF
MORE THAN **4X**

A phenomenon known as **population ageing** is occurring throughout the world. The elderly population is growing at a rate of about 3 percent per year and is projected to be 2.1 billion by 2050.⁽³⁾

NEODENT® NEOARCH® IMMEDIATE FULL-ARCH SOLUTION

Increasing expectations for shortened treatment duration represents a significant challenge for dental professionals, especially in patients with anatomical deficiencies. The Neodent® Neoarch® offers an optimized solution for immediate treatment protocols in edentulous patients, offering state-of-the-art resources for digital and conventional workflows. Improve your patient's satisfaction and quality of life by restoring function and esthetics.^[4]

● COMPREHENSIVE WORKFLOWS FOR IMMEDIATE RESULTS

1

COMMITTED TO THE EDENTULOUS PATIENT JOURNEY



Find the ideal workflow for your edentulous patient with straightforward results and increased patient acceptance.

2

ANATOMICALLY DRIVEN SOLUTION



Designed for predictable immediate treatment in different densities and atrophy levels of the residual alveolar bone.

3

IMMEDIATE NATURAL-LOOKING ESTHETICS



Several gingival heights and angulations combined with an anatomical shape, short cone and wide angle, resulting in an optimized emergence profile.

A REMOVABLE OPTIONS FOR STABLE SMILES

Designed to maximize flexibility and reliability in removable solutions.





IMMEDIATE FUNCTION RESULTING IN SHORTER TREATMENT TIMES.

- | Different implant techniques to avoid the use of grafting procedure.^[5]
- | Optimized implant design to achieve high primary stability in all bone types.^[6]



IMMEDIATE NATURAL-LOOKING ESTHETICS WITH VERSATILE RESTORATIVE OPTIONS.

- | A broad gingival height abutment range to meet patient's needs.
- | Options of straight and angled abutments (17°, 30°, 45°, 52 and 60°).



IMMEDIATE PEACE OF MIND THANKS TO A STABLE FOUNDATION.

- | One connection regardless of the diameters.
- | Unique connection combining platform switching associated with a deep 16° Morse taper including an internal indexation.



WHETHER DIGITAL OR CONVENTIONAL WORKFLOW, YOUR FULL ARCH JOURNEY STARTS HERE

- | The first step for immediacy, simple as it should be with NeoConvert™: an optimized technique for denture conversions.
- | Deliver the best for your patient through the Centralized Production Center* or In-house workflows.

*Check availability in your region

4

IMMEDIATE TEMPORARY PROSTHESIS WITH NEOCONVERT™



Save time and costs in your treatments converting a conventional denture into a fixed solution, and improve your patient's experience.

5

DIGITAL OPTIONS TO STREAMLINE YOUR CLINICAL PRACTICE



Immediate personalized leverage neoarch digital resources for enhanced results in your cases.

6

COMPREHENSIVE RESTORATIVE SOLUTIONS



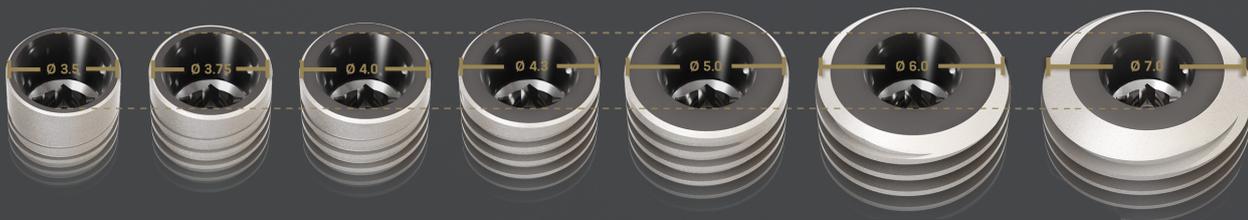
Meet patient expectations with different possibilities of workflows and materials: customize frameworks for provisional or final restorations.

THE NEXT LEVEL OF IMMEDIATE FIXED FULL-ARCH

The NeoArch® Grand Morse® combines Neodent's technologies designed to enhance immediate full-arch rehabilitation. The Grand Morse® stability, the Helix® versatility, the Acqua surface predictability, and optimized Mini Conical abutment shape all combined, maximize NeoArch® efficiency: one implant, one connection, one abutment.

GRAND MORSE® CONNECTION: A STABLE AND STRONG FOUNDATION DESIGNED FOR LONG TERM SUCCESS.

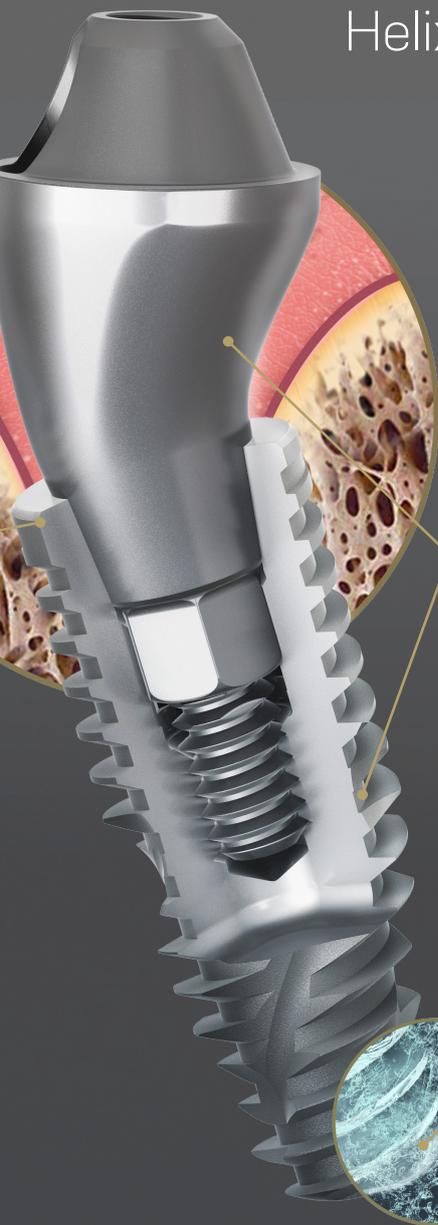
- One prosthetic connection for all Grand Morse® Implants: ease of use.
- 16° Morse Taper connection: designed to ensure a tight fit for an optimal connection seal.
- Platform switching morse taper connection: fulfils the platform switching concept.
- Deep Morse taper connection: designed for optimal load distribution.
- Internal Indexation: precise abutment positioning, protection against rotation and easy handling.



HIGH SURGICAL AND RESTORATIVE PREDICTABILITY

A prospective cases analysis demonstrated the high predictability of the Neodent® Grand Morse® implant system; from 111 GM implants (37 in upper jaw and 74 in lower jaw) placed with a follow up of up to 24 months, NeoArch® has performed and achieved a success rate of 100%.⁽⁸⁾

Helix GM[®]



HELIX[®] GRAND MORSE[®]: UNBEATABLE VERSATILITY.

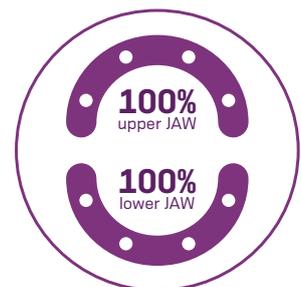
- Fully tapered body design: allows for under prepping of the osteotomy.
- Hybrid contour: enabling stability with vertical placement flexibility.
- Dynamic progressive thread design: designed to achieve high primary stability in all bone types.
- Active apex: self-tapping.

MINI CONICAL ABUTMENT: IMMEDIATE NATURAL-LOOKING ESTHETICS.

- Optimized emergence profile: reducing the need of bone profiling.
- Several gingival height options: adapting to tissue availability.
- Optimal angulation of 17°, 30°, 45° and 60°: fitting topatient anatomy.
- Short cone, wide angle: maximizing passive fit and angulation compensation.

ACQUA SURFACE: HIGH TREATMENT PREDICTABILITY.

- Sand-blasted Large grit and Acid etched surface: NeoPoros highly successful surface.
- Hydrophilic surface: immediate greater surface accessibility. ⁽⁷⁾



Neodent[®] NeoArch[®] Survival Rate *up to 24 months*

IMMEDIATE SOLUTION IN SEVERE ATROPHIC MAXILLA

The Neodent® Helix GM Long, Zygoma GM and GM Zygoma-S complement the standard implant system for achieving immediate loading protocol in fixed full-arch restorations.

They are specifically designed to bring surgical predictability to atrophic maxilla cases, as an alternative to grafting procedures.

Helix GM® Long Solution for bicorticalization



“The use of long implants may avoid more complex solutions, like bone grafting procedures, with a minimal invasive approach that can even represent a reduction in treatment time.”

DR. LUIS EDUARDO PADOVAN



Zygoma GM™ Implant for zygomatic anchorage



1. GRAND MORSE® CONNECTION

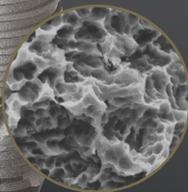
- All benefits of the original 16° Morse taper GM connection designed to ensure a tight fit for an optimal connection seal.
- Straight head designed to bring flexibility to the implant positioning.

2. IMPLANT DESIGN

- Tissue protect portion without threads for a friendly contact with the mucosa.
- Progressive increase of the thread depth at the apical area.

3. COMPREHENSIVE PORTFOLIO

- 4.0 mm of diameter.
- Ten different lengths: 30 / 35 / 37.5 / 40 / 42.5 / 45 / 47.5 / 50 / 52.5 / 55 mm.



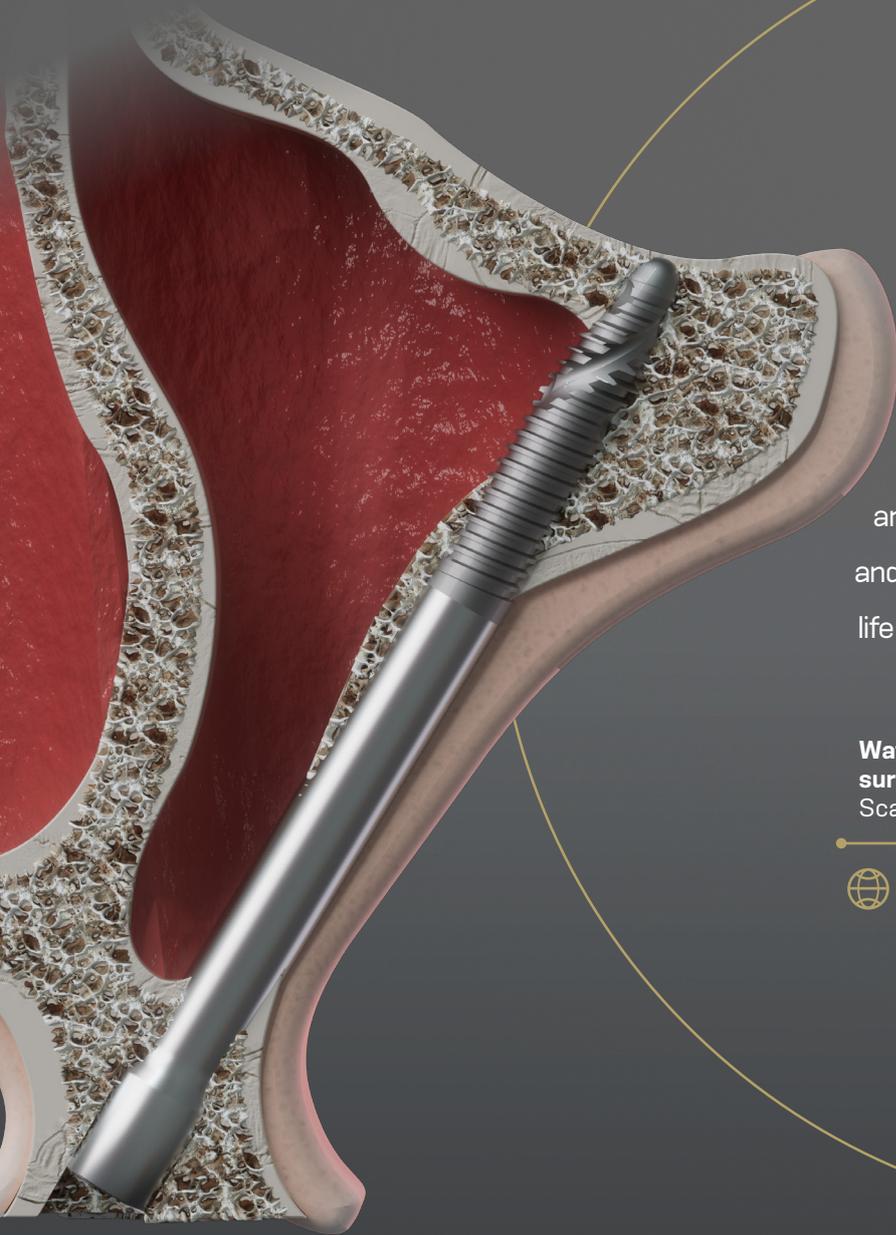
NeoPoros

“The new design of the ZygomaGM™ implant has been developed to increase surgical predictability and reduce complexity in Zygomatic surgeries.”

DR. GENINHO THOMÉ

GM Zygoma-S

Greatness in severe atrophic maxilla cases



The Neodent® GM Zygoma-S features the unbeatable versatility of Helix® Grand Morse® to high primary stability^[2] for long-term success. Additionally, to the combination of remarkable features, the Neodent® GM Zygoma-S offers an anatomical friendly relation, soft tissue preservation and versatile treatment options, resulting in quality of life by immediately restoring function and esthetics^[9].

Watch a video of how the smooth surface can optimize clinical results
Scan the QR or visit the link below:

 neodent.com/zygoma-s_surface



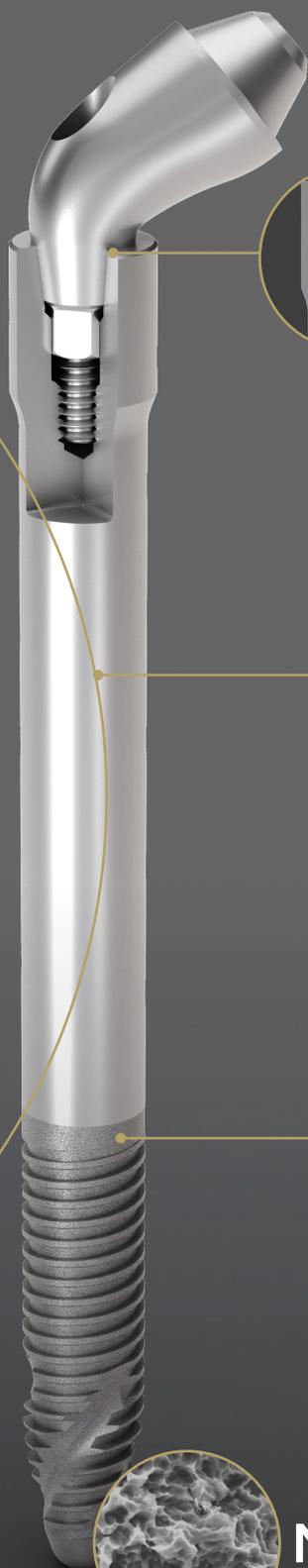
The polished surface of Zygoma-S implant is a game-changer. I know a lot of patients will benefit from the extra-sinus technique with an improved soft tissue approach of this new implant.

DR. RIAD ALMASRI



Scan the QR or visit the link below and learn more about this **unique feature**:

 neodent.com/zygoma-s_implant



GRAND MORSE® CONNECTION: A STABLE AND STRONG FOUNDATION DESIGNED FOR LONG TERM SUCCESS.

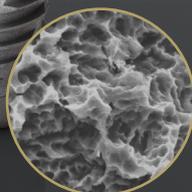
- One prosthetic connection for all Grand Morse® Implants: ease of use.
- 16° Morse Taper connection: designed to ensure a tight fit for an optimal connection seal.
- Platform switching morse taper connection: fulfils the platform switching concept.
- Deep Morse taper connection: designed for optimal load distribution.
- Internal Indexation: precise abutment positioning, protection against rotation and easy handling.

IMPLANT DESIGNED TO PROVIDE VERSATILE POSSIBILITIES OF PLACEMENT^[10], RESULTING IN ANATOMICAL EFFICIENCY

- Implant designed to extra maxillary or intra sinus cases.
- Associated with regular implants or Quad Z placement.
- 3.5mm and 3.75mm of diameter.
- Smooth Machined Surface in the implant body maintains soft-tissue preservation^[6].
- Coronal portion with 4.3mm of diameter designed to ensure resistance and a tight fit for an optimal connection seal.
- Ten different lengths: 30 / 35 / 37.5 / 40 / 42.5 / 45 / 47.5 / 50 / 52.5 / 55 mm.

HELIX® GRAND MORSE®: UNBEATABLE VERSATILITY.

- Progressive depth threads at the apical area allow under-prepping of the osteotomy.
- Apex with Neoporos surface, potentializing the osseointegration to enhance the zygomatic anchorage.
- Hybrid contour: enable stability with vertical placement flexibility.
- Dynamic progressive thread design designed to achieve high primary stability in all bone types.
- Active apex: self-tapping.



NeoPoros

Visit our website to get further information about **Zygoma-S**.

 neodent.com/zygoma-s

PROSTHETIC VERSATILITY

The Neodent® Grand Morse® restorative portfolio offers optimal abutments angulations and a broad range of gingival heights is designed to attend different clinical needs. It allows to reach immediate function and esthetics, regardless of the maxilla atrophy level.

Mini Conical Abutment

Several gingival heights and angulations combined with an anatomical shape, short cone and wide angle, resulting in an optimized emergence profile.



*The 45° Mini Conical Abutment is indicated for use only with Helix GM® Long and Zygoma GM™.

**The 60° Mini Conical Abutment is indicated for use only with Zygoma GM™.

SURGICAL SIMPLICITY & PREDICTABILITY

Neodent® provides a complete range of products designed to bring simplicity to the dental practice and predictability during the surgeries.



COMPREHENSIVE RESTORATIVE SOLUTIONS

Meet patient expectations with different possibilities of workflows and materials: customize frameworks for provisional or final restorations.

Centralized Production Center*

Provisional fixed prosthesis



Final fixed prosthesis
Straumann® CARES®/Creotech Medical



*Check availability in your region

In-house CAD/CAM Solutions

Provisional fixed prosthesis



Final fixed prosthesis
Straumann® M series/ Zirkonzahn M4
For library downloads, please go to:
www.neodent.com/cadcam



Conventional Manufacturing Solutions

NeoConvert™
Provisional fixed prosthesis
Mini Conical temporary coping
Mini Conical distal bar coping



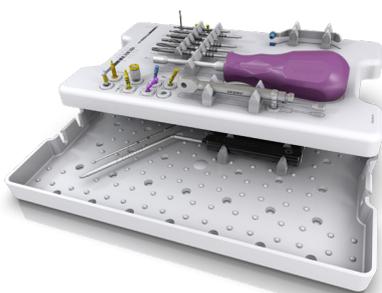
Final fixed prosthesis
One Step Hybrid



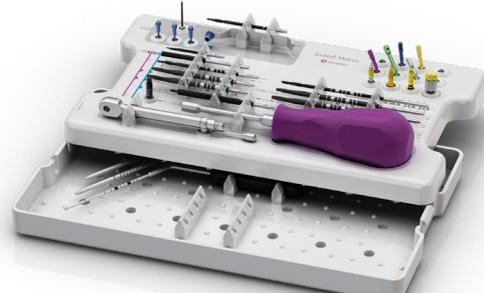
Helix GM®



Helix GM® Long



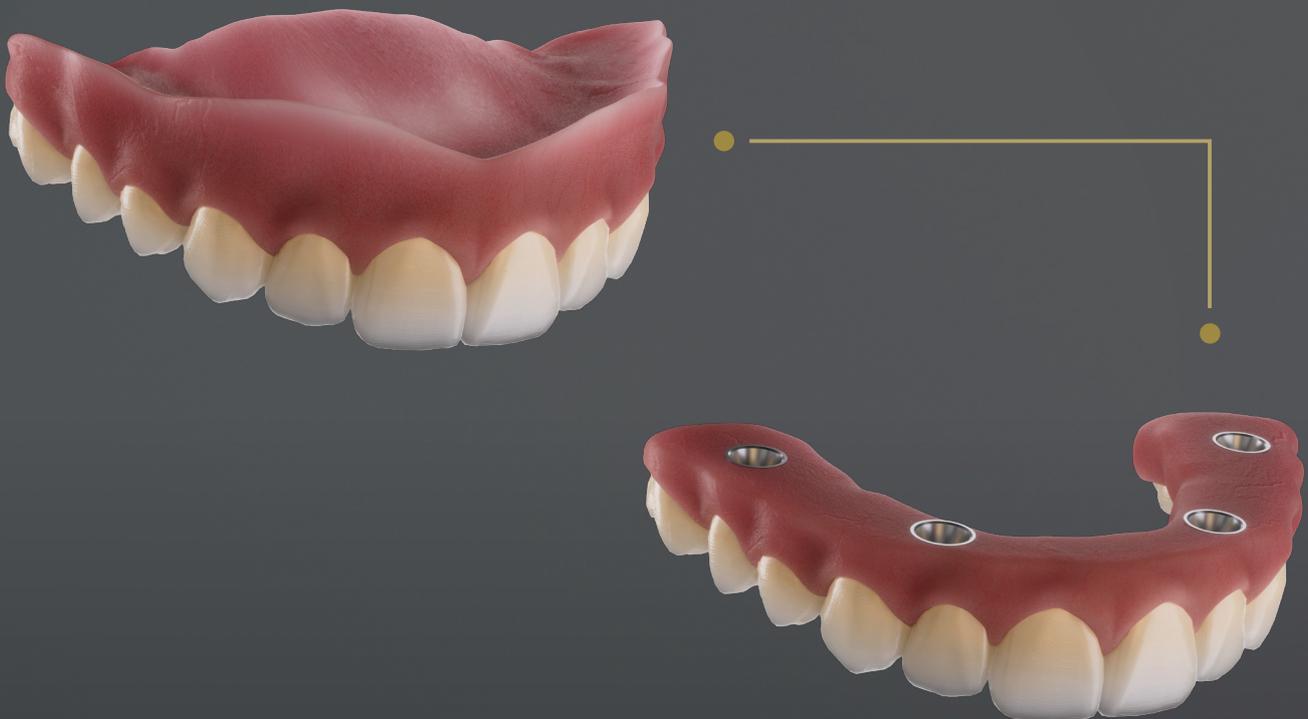
Zygoma GM™



GM Zygoma-S



THE NEODENT® TECHNIQUE FOR
IMPROVING THE CONVERSION FROM
REMOVABLE TO FIXED DENTURES.



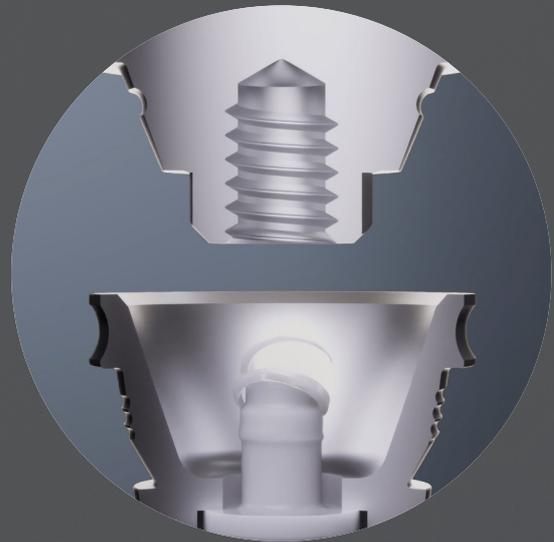
The challenges in this journey are directly related to decreasing the time for fixed teeth, and improving comfort during the procedures while keeping treatment affordability. All these aspects are crucial for decision-making, and the technique of choice has a relevant impact on the journey.

NeoConvert™ delivers a different way to transform smiles: a first step to full arch immediacy developed to enable temporary treatment with lower chair time and greater predictability with a straightforward workflow, whether performed chairside or in the lab.



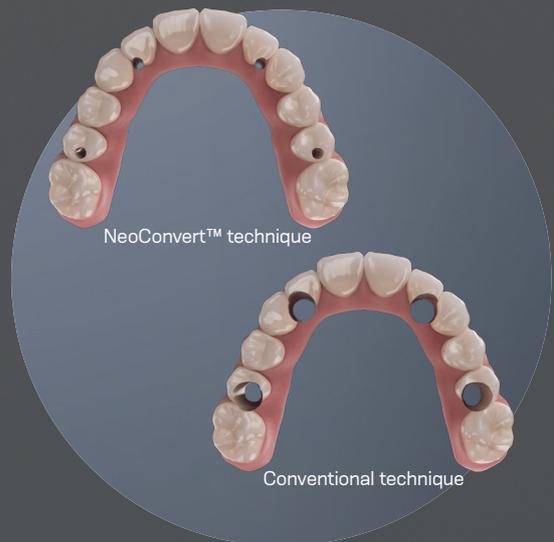
THE FIRST STEP FOR IMMEDIACY: SIMPLE AS IT SHOULD BE

NeoConvert™ is a game-changing technique to convert removable to fixed dentures: the simplicity in every step for immediacy.



IMMEDIATE FULL ARCH TREATMENT: ONE STEP CLOSER TO EFFECTIVENESS

NeoConvert™ values your chair time with efficiency: full conversion technique in your hands with a straightforward workflow.



A REMOVABLE OPTION FOR STABLE SMILES.

Implant-retained dental prosthesis should be considered the first choice for edentulous rehabilitation as it results in better oral function and quality of life for compared to conventional dentures.⁽¹¹⁻¹⁴⁾

Since edentulism primarily affects the aging and economically disadvantaged population⁽¹⁵⁻¹⁸⁾, implant supported overdentures allow for an affordable treatment option that leads to substantial improvement in patient's quality of life and oral function.

The Neodent® Attachment TiN solution for removable prosthesis is designed to maximize flexibility and reliability.

- FLEXIBILITY ON ORIGINAL CONNECTION
- RETENTION RELIABILITY MADE SIMPLE



A REMOVABLE SOLUTION OPTION ON MULTI-UNIT ABUTMENTS

Transform your Mini Conical Abutments into a removable solution with the Coping for Removable Prosthesis.

CLINICAL CASES



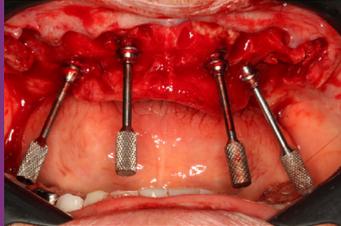
DR. EVELYN LACERDA JURI

- Master in Implant Dentistry - São Leopoldo Mandic
- Coordinator and professor of the specialization course in Implant Dentistry - FUNORTE

AN ESTHETIC AND FUNCTIONAL FULL-ARCH TRANSFORMATION WITH THE IMMEDIATE LOADING REHABILITATION PROTOCOL



Initial clinical aspect, buccal view.



Clinical aspect after the GM Mini Conical Abutment installation, with 20 N.cm of torque for the angled and 32 N. cm for the straight abutments.



Clinical aspect of the definitive prosthesis installed.



Radiographic aspect of the definitive prosthesis installed, 2 days after the surgery.



CHECK OUT THIS FULL CLINICAL CASE

Scan the QR code or visit the link below to access it:



neodent.com/neoarch-cc1



DR. RIAD ALMASRI

- Prosthodontic Specialist - Nova Southeastern University
- NSU College of Dental Medicine Adjunct Faculty
- 1on1 Implantology™ CEO/Founder

ATROPHIC MAXILLA REHABILITATION WITH IMMEDIATE LOADING USING GMTM ZYGOMA-S IMPLANTS ASSOCIATED WITH HELIX GM®.



Initial panoramic radiographic of the patient.



Clinical aspect after installing two GM Zygoma S and 3 Helix GM. Occlusal view.



Final radiographic aspect, post-surgical.



Post-surgical clinical aspect with prosthesis installed, vestibular view, seven days follow-up.



CHECK OUT THIS FULL CLINICAL CASE

Scan the QR code or visit the link below to access it:



neodent.com/neoarch-cc2

- [1] Petersen, P. E., Kandelman, D., Arpin, S., & Ogawa, H. (2010). Global oral health of older people-call for public health action. *Community dental health*, 27(4), 257-67.
- [2] Reich, K. M., Huber, C. D., Lippnig, W. R., Ulm, C., Watzek, G., & Tangl, S. (2011). Atrophy of the residual alveolar ridge following tooth loss in an historical population. *Oral diseases*, 17(1), 33-44.
- [3] United Nations, Department of Economic and Social Affairs, Population Division (2017). *World Population Prospects: The 2017 Revision, Key Findings and Advance Tables*. Working Paper No. ESA/P/WP/248.
- [4] Babbush CA. Post treatment quantification of patient experiences with full-arch implant treatment using a modification of the OHIP-14 questionnaire. *J Oral Implantol*. 2012 Jun;38(3):251-60.
- [5] Block MS, Haggerty CJ, Fisher GR. Nongrafting implant options for restoration of the edentulous maxilla. *J Oral Maxillofac Surg* 2009;67:872-881.
- [6] Steigenga J, Al-Shammari K, Misch C, Nociti FH Jr, Wang HL. Effects of implant thread geometry on percentage of osseointegration and resistance to reverse torque in the tibia of rabbits. *J Periodontol*. 2004;75(9):1233-41.
- [7] Sartoretto SC, Alves ATNN, Zarranz L, Jorge MZ, Granjeiro JM, Calasans-Maia MD. Hydrophilic surface of Ti6Al4V-ELI alloy improves the early bone apposition of sheep tibia. *Clin Oral Implants Res*. 2017;28(8):893901.
- [8] Data based on the ethics committee project approval under No. 1.677.012 on August 13th, 2016.
- [9] Aparicio C, López-Piriz R, Albrektsson T. ORIS Criteria of Success for the Zygoma-Related Rehabilitation: The (Revisited) Zygoma Success Code. *Int J Oral Maxillofac Implants* 2020;35:366-378.
- [10] DT-2207-080 - Technical Statement, FORM: FORM.P&D.048.013
- [11] Fernandez-Estevan L, Selva-Otaola E, Montero J, Sola-Ruiz F. Oral health-related quality of life of implant-supported overdentures versus conventional complete prostheses: Retrospective study of a cohort of edentulous patients. *Med Oral Patol Oral Cir Bucal*. 2015 Jul 1;20 (4):e450-8.
- [12] Allen PF, McMillan AS. A longitudinal study of quality of life outcomes in older adults requesting implant prostheses and complete removable dentures. *Clin Oral Implants Res*. 2003 Apr;14(2):173-9.
- [13] Sharma AJ, Nagrath R, Lahori M. A comparative evaluation of chewing efficiency, masticatory bite force, and patient satisfaction between conventional denture and implant-supported mandibular overdenture: An in vivo study. *J Indian Prosthodont Soc*. 2017 Oct-Dec;17(4):361-372.
- [14] Cardoso RG, Melo LA, Barbosa GA, Calderon PD, Germano AR, Mestriner W Junior, Carreiro AD. Impact of mandibular conventional denture and overdenture on quality of life and masticatory efficiency. *Braz Oral Res*. 2016 Oct 10;30(1):e102.
- [15] Starr JM, Hall R. Predictors and correlates of edentulism in healthy older people. *Curr Opin Clin Nutr Metab Care*. 2010 Jan;13(1):19-23.
- [16] Pengpid S, Peltzer K. The prevalence of edentulism and their related factors in Indonesia, 2014/15. *BMC Oral Health*. 2018 Jul 3;18(1):118.
- [17] Peltzer K, Hewlett S, Yawson AE, Moynihan P, Preet R, Wu F, Guo G, Arokiasamy P, Snodgrass JJ, Chatterji S, Engelstad ME, Kowal P. Prevalence of loss of all teeth (edentulism) and associated factors in older adults in China, Ghana, India, Mexico, Russia and South Africa. *Int J Environ Res Public Health*. 2014 Oct 30;11(11):11308-24.
- [18] Tyrovolas S, Koyanagi A, Panagiotakos DB, Haro JM, Kassebaum NJ, Chrepa V, Kotsakis GA. Population prevalence of edentulism and its association with depression and self-rated health. *Sci Rep*. 2016 Nov 17;6:37083.
- [19] Del Castillo R, Chochlidakis K, Galindo-Moreno P, Ercoli C. Titanium Nitride Coated Implant Abutments: From Technical Aspects And Soft tissue Biocompatibility to Clinical Applications. A Literature Review. *J Prosthodont*. 2022 Aug;31(7):571-578. doi: 10.1111/jopr.13446. Epub 2021 Nov 20. PMID: 34731520.

© 2024 - JIGC Indústria e Comércio de Materiais Dentários S.A. All rights reserved.
Neodent®, NeoPoros®, Acqua™, Helix®, Grand Morse®, Helix GM®, NeoArch® are trademarks or registered trademarks of JIGC Indústria e Comércio de Materiais Dentários S.A.
Straumann®, CARES® are registered trademarks of Straumann Holding AG.
Zirkonzahn is a trademark or registered trademark of Zirkonzahn GmbH.

1089_neodent_asmileforeveryone_brochure_en_eU_D00_of_310724