bti®
Human
Technology

BTI® SOLUTIONS
FOR ATROPHIC
MAXILLAE

Human Technology

DO SHORT AND NARROW IMPLANTS OFFER PREDICTABLE RESULTS IN THE ATROPHIC MAXILLA?

"Where indicated, immediate loading on **narrow implants (3.0 mm)** does not compromise long-term survival or peri-implant bone stability, making them a reliable alternative for horizontal atrophic ridges[1]."

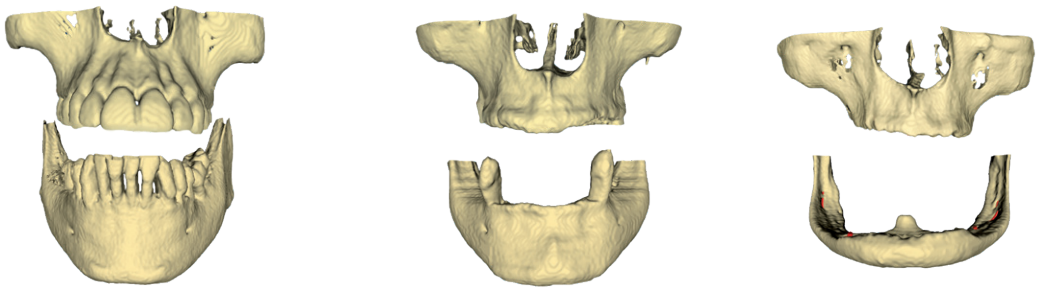
"**Extra-short implants (5.5 mm)** offer survival, bone stability and peri-implant health comparable to longer implants when splinted under the same prosthesis[2]."

"In the cases indicated, **extra-short implants (4.5 mm)** offer clinical performance comparable to that of longer implants when splinted under the same fixed prosthesis[3]."

"**Extra-short implants (≤ 6.5 mm)** are a predictable and safe option for supporting full-arch prostheses screwed onto intermediate abutments (MULTI-IM®) in both atrophic and non-atrophic jaws[4]."

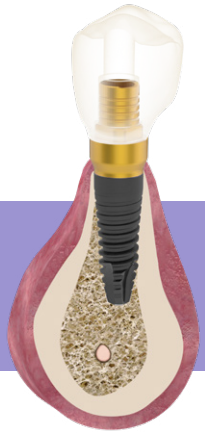
"In clinical scenarios where it is indicated, immediate loading of **short implants in combination with low-speed drilling and PRGF** allows for predictable results similar to those obtained with delayed loading[5]."

"**Short implants** can offer favourable biomechanical performance even in low-density bone, provided that the appropriate diameter is selected and primary stability is optimised using appropriate surgical techniques[6]."



Process of bone resorption once teeth are lost in lower or upper jaw

1. Anitua E, Fernandez-de-Retana S, Anitua B, Alkhraisat MH. Long-Term Retrospective Study of 3.0-mm-Diameter Implants Supporting Fixed Multiple Prostheses: Immediate Versus Delayed Implant Loading. Int J Oral Maxillofac Implants. 2020 Nov/Dec;35(6):1229-1238. / 2. Anitua E, Montalvillo A, Eguia A, Alkhraisat MH. Clinical Performance of Extra-Short (≤5.5 mm) Compared to Longer Implants Splinted under the Same Prosthesis: A Randomized Clinical Trial. Dent J (Basel). 2024 Sep 13;12(9):292. / 3. Anitua E, Eguia A, Alkhraisat MH. Clinical Performance of Splinted 4.5-mm Extra-Short Implants: A Controlled Retrospective Cohort Study. Int J Periodontics Restorative Dent. 2024;44(5):544-555./ 4. Anitua E, Eguia A, Alkhraisat MH. Extra-short implants (≤ 6.5 mm in length) in atrophic and non-atrophic sites to support screw-retained full-arch restoration: a retrospective clinical study. Int J Implant Dent. 2023 Sep 13;9(1):29 / 5. Anitua E, Flores C, Fernández-de-Retana S, Anitua B, Alkhraisat MH. Performance of Immediately Loaded Short Implants Using Low-Speed Drilling Protocol and Plasma Rich in Growth Factors: A Controlled Retrospective Observational Study. Int J Periodontics Restorative Dent. 2023 May;43(2):232-239b. / 6. Anitua E, Larrazabal Saez de Ibarra N, Saracho Rotaeche L. Implant-Supported Prostheses in the Edentulous Mandible: Biomechanical Analysis of Different Implant Configurations via Finite Element Analysis. Dent J (Basel). 2022 Dec 23;11(1):4.



SOLUTION FOR HORIZONTAL ATROPHIES

SIMPLIFIED TREATMENTS WITH **THE NARROWEST IMPLANTS**

The 3.0 family of implants enable the treatment of total and partial edentulisms **where bone volume is moderate**, without previously having to undertake bone augmentation.

In cases of severe atrophies, the expansion technique may be carried out less invasively, using the motorized expanders kit and PRGF-ENDORET® Technology to achieve the adequate bone volume without having to resort to complex and less predictable surgeries.

PLATFORM 3.0

X Profile

- *3 mm Prosthetic platform.*
- *Diameters: 2.5 - 3 - 3.3 and 3.5 mm.*
- *Self-tapping conical apex, to displace bone without apical compression, and achieve excellent primary stability.*

PRGF-ENDORET® Technology

- Autologous graft.
- Heterologous graft.
- Fibrin membrane.

Expander Kit KEXCO

The BTI® Motorized Expander Kit allows performing ridge expansions in bone type I, II and III, in both jaws, both in anterior and posterior areas as well as compactions in bone type IV.

SOLUTION FOR VERTICAL ATROPHIES

SIMPLIFIED TREATMENTS WITH **THE SHORTEST IMPLANTS**

Short implants enable the treatment of edentulisms with **moderate atrophies** in one surgical step:

- With no maxillary sinus lifts.
- With no risks in lower jaw because of the proximity to dental nerve.

For the severe atrophies, the front cutting drill and PRGF-ENDORET® allow to simplify the surgical approach of the lower jaw and maxillary sinus (vertical bone growth technique, trans-alveolar sinus lift).

SHORT IMPLANTS CORE CORE-X®

- *Available on different prosthetic platforms.*
- *Length of 4.5 - 5.5 - 6.5 and 7.5 mm.*
- *Flat apex.*

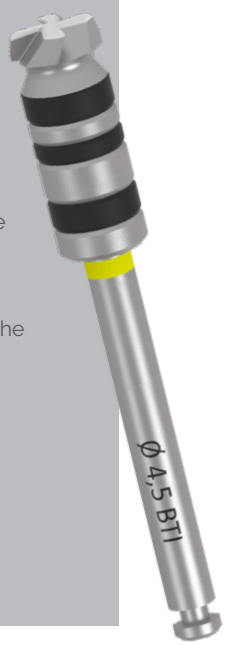
PRGF-ENDORET® Technology

- Autologous graft.
- Heterologous graft.
- Fibrin membrane.

Front cutting drills

With flat morphology, the front cutting drill is indispensable for the apical preparation of the site of these implants.

It is also used in the sinus lift with trans-alveolar approach technique allowing to drill the cortex and gain access to the sinus, without damaging the Schneiderian membrane.

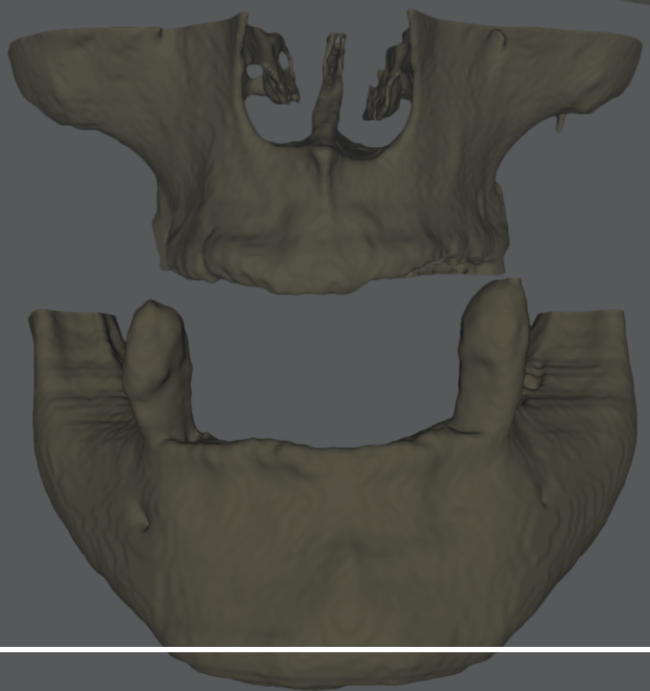


Reconsider the treatments of bone atrophies

with BTI® solutions

BTI®'s intensive research in biomechanics has enabled the development of **implant lines of reduced diameter and length**, so that you can face the bone reabsorption treatments with:

- **LESS TRAUMA**
  No complex reconstructions
- **REDUCTION IN SURGICAL-PROSTHETIC TIME**
  No delays in rehabilitation
- **INCREASED PATIENT ACCEPTANCE**
  More success and lower costs



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NOTE: consult your distributor for the availability of the product in the different markets.