

Inclusive Magazine: Volume 4, Issue 1 with Paresh B. Patel, DDS **Bicortical Stabilization** (800) 854-7256 Main I (855) 289-9657 Case Pickup I

New Customer | My Account NEW is important when choosing the appropriate implant diameter. That is where mini implants are at their best: placed in thin bone with strong

cortical plates — the ideal environment for a small-diameter implant to engage and osseointegrate. Availability of Bone

Conventional-diameter implants typically require at least 6 mm of width labio-lingually. But most patients who need denture stabilization lack

sufficient bone width for these larger root-form fixtures, necessitating either a ridge augmentation procedure or the placement of small-diameter implants. Mini implants can often

be placed in as little as 3 mm of bone, gaining stability by engaging both labial and lingual cortical plates. Similarly, a mini implant of just 10 mm in length can be sufficient to achieve

bicortical stabilization along the inferior-superior axis in a resorbed mandible. Bicortical Stabilization of Inclusive® Mini Implants in the Labio-Lingual Dimension

Quality of Bone Generally accepted placement protocols suggest

that the widest possible diameter of implant be

used based on the available bone. However, the thread design of various implant sizes may also be taken into account in relation to the quality of bone. A thinner ridge often indicates a higher percentage of cortical bone and associated bone density. A thicker ridge often indicates a higher

percentage of cancellous interior bone. The increasing thread pitch associated with successively wider Inclusive®\_Mini\_Implants reflects an anticipation of the bone density to be encountered with various ridge sizes.

Naturally, it is incumbent upon the clinician to

treatment plan for the ideal implant size on a

diagnostic evaluation. The variation in thread

design referenced above is chiefly intended to

The increasing thread

Inclusive Mini

anticipation of the

INCLUSIVE MINI IMPLANT

Ø 2.2 mm

Ø 2.5 mm

Ø 3.0 mm

Thin/Dense

Thin/Trabeculated

Average/Spongy

facilitate efficient placement in various bone

types as commonly encountered.

case-by-case basis, based on a complete

pitch associated with successively wider Implants reflects an

bone density to be encountered with various ridge sizes.

D3 Note: The 3.0 Inclusive Mini Implant is used to compress, condense and engage Type D2 bone. Because it is a self-tapping screw, removing the entire volume of bone, as in the case of a traditional implant with a non-cutting apex, is not necessary.

Ø 2.2 mm Inclusive Mini Implant for Types D1 and D2 Bone, Respectively

Ø 2.5 mm Inclusive Mini Implant for Highly Resorbed Premaxilla Bone

Other Factors for Consideration

Number of implants – As important as

the diameter, the standard number of mini

implants is typically four in the lower arch

placing five in the lower and seven in the

upper and engaging additional alveolar

Immediate loading – If 35 Ncm of torque

can be achieved, it is generally safe to load

featuring O-ring attachment housings, or to

pick up the housings in an existing denture

chairside. If achieving 35 Ncm of torque is

denture and allow for a prescribed period of

not possible, consider a soft reline of the

Parafunctional habits - Lateral forces

can compromise the success of any

grinder, consider placing the largest

diameter implant possible.

implant, so if the patient is a bruxer or

Occlusion – Whether mini implants are

being placed in the upper or the lower arch,

if the opposing arch is natural dentition and

35 Ncm of torque cannot be achieved for all

implants, consider soft lining the denture for

posterior (A-P) spread, the more stable the

Upper arch: Maximize the A-P spread

by placing the most distal implants as

implants 5 mm anterior to the mental

**A-P spread** – The wider the anterior-

far back as possible without

Serving a Changing Demographic

As a population, we are simply living longer, and

Statistics say 10,000 Americans are turning 65

daily, with 40 million people estimated to be

embrace the idea of mini implants as a viable

resorption is more commonplace among aging

protocols represent a minimally invasive, more

affordable alternative to conventional-diameter

\*SOURCE: Federal Interagency Forum on Aging-

Forum on Aging-Related Statistics. Washington,

DC: U.S. Government Printing Office. June 2012.

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Available at agingstats.gov.

Related Statistics. Older Americans 2012: Key

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patients, and small-diameter implant placement

edentulous.\* Clearly, it's time for us to fully

treatment option for these patients. Bone

implant placement.

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the number of older people will increase

dramatically over the next few decades.

impinging on the sinus cavities

Lower arch: Try to space posterior

osseointegration.

six weeks.

oral environment.

foramen.

the mini implants with a new denture

and six in the upper arch. If possible,

bone will lend greater stability.

 $\mathbf{Y}$ 

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