



OSSEODENSIFICATION
Hydrodynamic Bone Preparation

1, 2, 3, 4
Compaction Autografting / Condensation

Maintaining Bone Bulk Results In Higher BIC

5, 6, 7
Enhance Bone Density

Accelerates Bone Healing

8, 9, 10
Increase Residual Strain

Enhances Osteogenic Activity
Through Mechanobiology

11, 12, 13
Increase Implant Stability

Higher Insertion Torque & ISQ Reduces Micromotion

01. Todisco, M. and P.Trisi, Bone mineral density and bone histomorphometry are statistically related. *Int J Oral Maxillofac Implants*, 2005. 20(6): p. 898-904.
02. Frost HM.A brief review for orthopedic surgeons: fatigue damage (microdamage) in bone (its determinants and clinical implications). *J Orthop Sci*. 1998;3(5):272-281.
03. Kold S, et al. Bone compaction enhances fixation of hydroxyapatite-coated implants in a canine gap model. *J Biomed Mater Res B Appl Biomater*. 2005;75(1):49-55.
04. Schlegel KA, et al. Bone conditioning to enhance implant osseointegration: an experimental study in pigs. *Int J Oral Maxillofac Implants*. 2003;18(4):505-511.
05. Nkenke E, et al. Histomorphometric and fluorescence microscopic analysis of bone remodelling after installation of implants using an osteotome technique. *Clin Oral Implants Res*. 2002;13(6):595-602.
06. Frost HM. *Intermediary Organization of the Skeleton*. 1st ed. Boca Raton, FL: CRC Press; 1986:109-164.
07. Burri C, Wolter D. [The compressed autogenous spongiosis transplant (author's transl)]. *Unfallheilkunde*. 1977;80(5):169-175.
08. Halldin A, et al. The effect of static bone strain on implant stability and bone remodeling. *Bone*. 2011;49(4):783-789.
09. Duncan RL, Turner CH. Mechanotransduction and the functional response of bone to mechanical strain. *Calcif Tissue Int*. 1995;57(5):344-358.
10. Kold S, et al. Compacted cancellous bone has a spring-back effect. *Acta Orthop Scand*. 2003;74(5):591-595.
11. Trisi P, et al. Implant micromotion is related to peak insertion torque and bone density. *Clin Oral Implants Res*. 2009;20(5):467-471.
12. Pagliani L, Sennerby L, Petersson A, et al. The relationship between resonance frequency analysis (RFA) and lateral displacement of dental implants: an in vitro study. *J Oral Rehabil*. 2013;40(3):221-227.
13. Trisi P, Colagiovanni M, Perfetti G. Implant Stability Quotient (ISQ) vs Direct in Vitro Measurement of Primary Stability (Micromotion): Effect of Bone Density and Insertion Torque. *Journal of Osteology and Biomaterials*. 2010;1(3).

NOTE: The references cited illustrate general principles of bone Biomechanics and implant treatment and are not specific to the Densah™ Bur