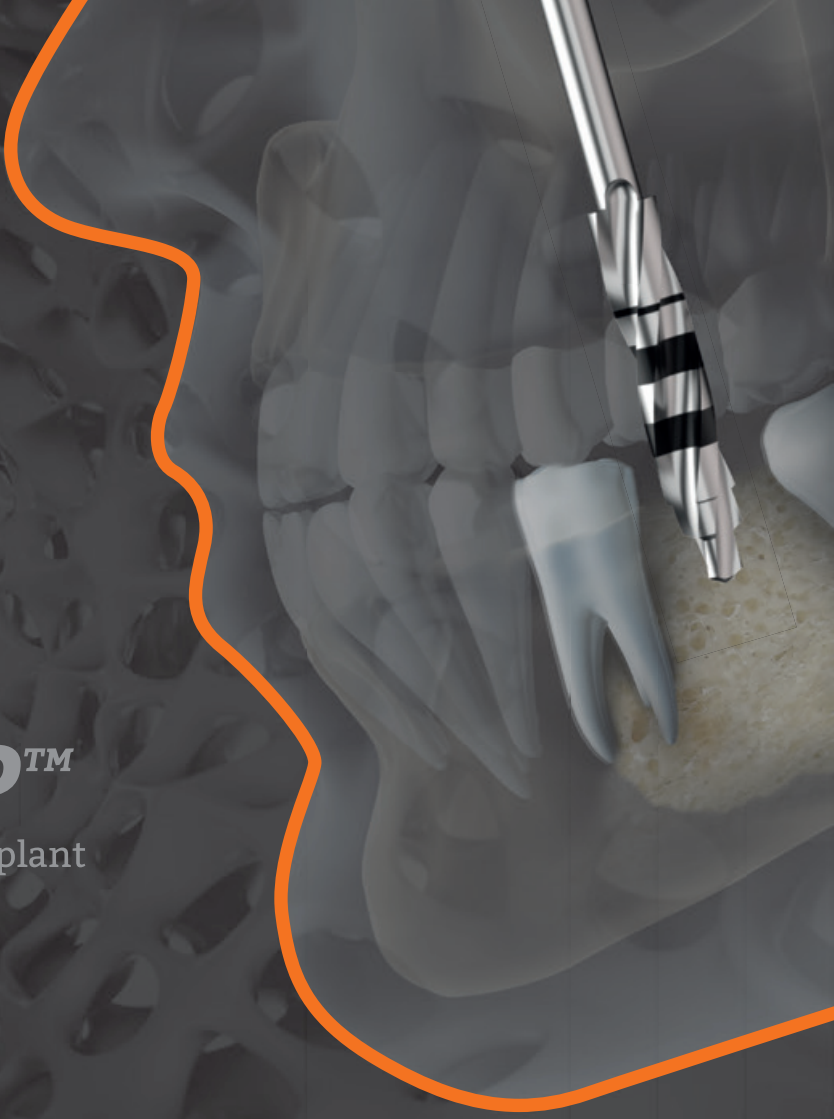




***Loocid* BCPTM**
Bone Cell Protection for every Implant

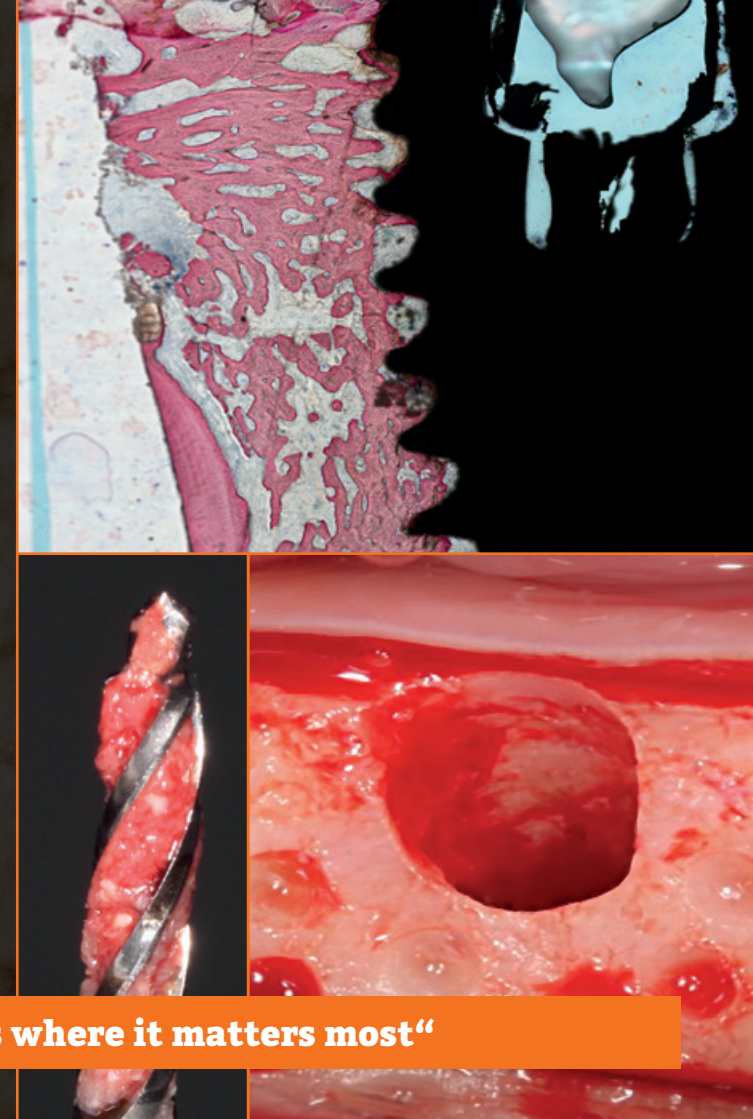




Marcus Abboud, DMD, PhD: “Developed for clinicians by clinicians”

Developed To Benefit Implants

- » The Loocid BCP™ innovative drill bit design was initiated based on clinical reports showing that after placement of dental implants a critical healing period of 3-4 weeks exists¹⁾. In this period, decreased implant stability, potential complications, and even failures have been reported. Surgical trauma, after implant bed preparation, results in bone resorption and remodeling that may affect osseointegration. This can be a significant problem when advanced treatment protocols, such as immediate function or immediate loading are used²⁾.
- » Based on these clinical findings, the Loocid BCP™ technology was developed featuring bone cell protection paired with high clinical efficiency.
- » The clinical goal of Loocid BCP™ is a high level of implant stability through minimizing trauma and maximizing efficiency for every implant osteotomy.

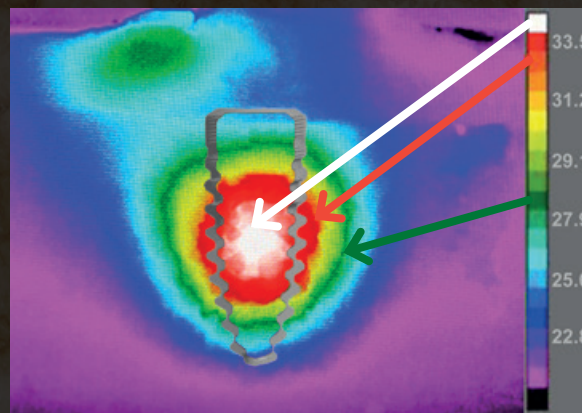


“Benefits your implants where it matters most”



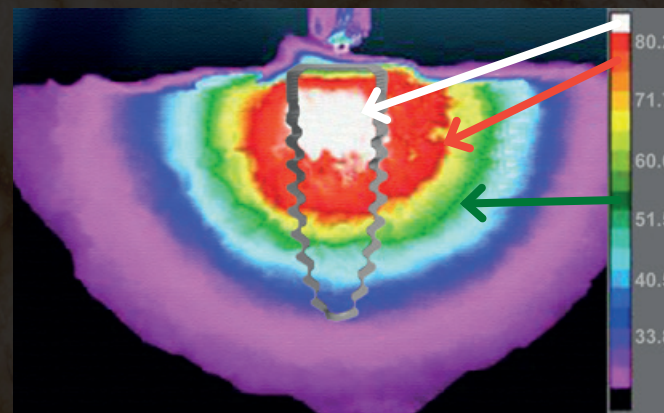
Bone Cell Protection (BCP)

- » Bone cell protection through specific drill design and thermal control (Patent Pending)
- » Significantly lower temperatures during implant bed preparation compared to conventional pilot and bone drill bits^{3) 4) 9)}



Loocid BCP™

Loocid BCP™ shows significantly lower temperatures in in-vitro studies compared to conventional pilot drills^{3) 4)}. A mild temperature increase, without bone cell damage, can activate the bone formation process⁵⁾.



Conventional Pilot Drill

A pilot drill can generate excessive heat during implant bed preparation. Temperatures over 70 °C, create immediately evident bone cell death^{3) 4)}. Over a period of weeks, a wider zone of necrotic bone develops around the implant which can prevent proper bone healing and can impede osseointegration⁶⁾.

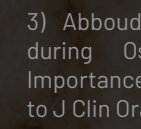


Literature References

1) Raghavendra S, et al. Early Wound Healing Around Endosseous Implants: A Review of the Literature, Int J Oral Maxillofac Implants 2005;20:425-431



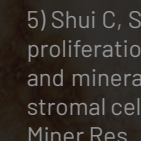
2) Abboud M, et al. Immediate Loading of Single-Tooth Implants in the Posterior Region. Int J Oral Maxillofac Implants 2005;20:61-68



3) Abboud M, et al. Bone Cell Protection during Osteotomy Preparation: The Importance of the Starter Drill, submitted to J Clin Oral Implants Research



4) Rugova S, Abboud M. Measuring Heat During Bone Cutting: Thermocouple vs Infrared Camera. Submitted to Journal of Dental Research

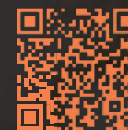


5) Shui C, Scutt A. Mild heat shock induces proliferation, alkaline phosphatase activity, and mineralization in human bone marrow stromal cells and Mg-63 cells in vitro. Bone Miner Res. Apr;16(4):731-41, 2001

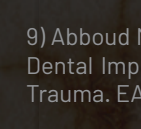


6) Berman AT, et al. Thermally induced bone necrosis in rabbits. Relation to implant failure in humans. Clin Orthop Relat Res (186): 284-292, 1984

7) Eriksson RA, Albrektsson T. The effect of heat on bone regeneration: an experimental study in the rabbit using the bone growth chamber. J. Oral Maxillofac. Surg. 42, 705-711, 1984



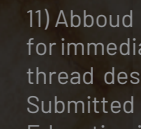
8) Stavrou SC, Rugova S, Abboud M. Comparing Osteotomy Quality for Conventional vs Single-Bur Implant Preparations. PJ Dent Res (Spec Iss 95):1456



9) Abboud M. The Effect of Simplifying the Dental Implant Drilling Sequence on Bone Trauma. EAO Online Library, 149656; 356

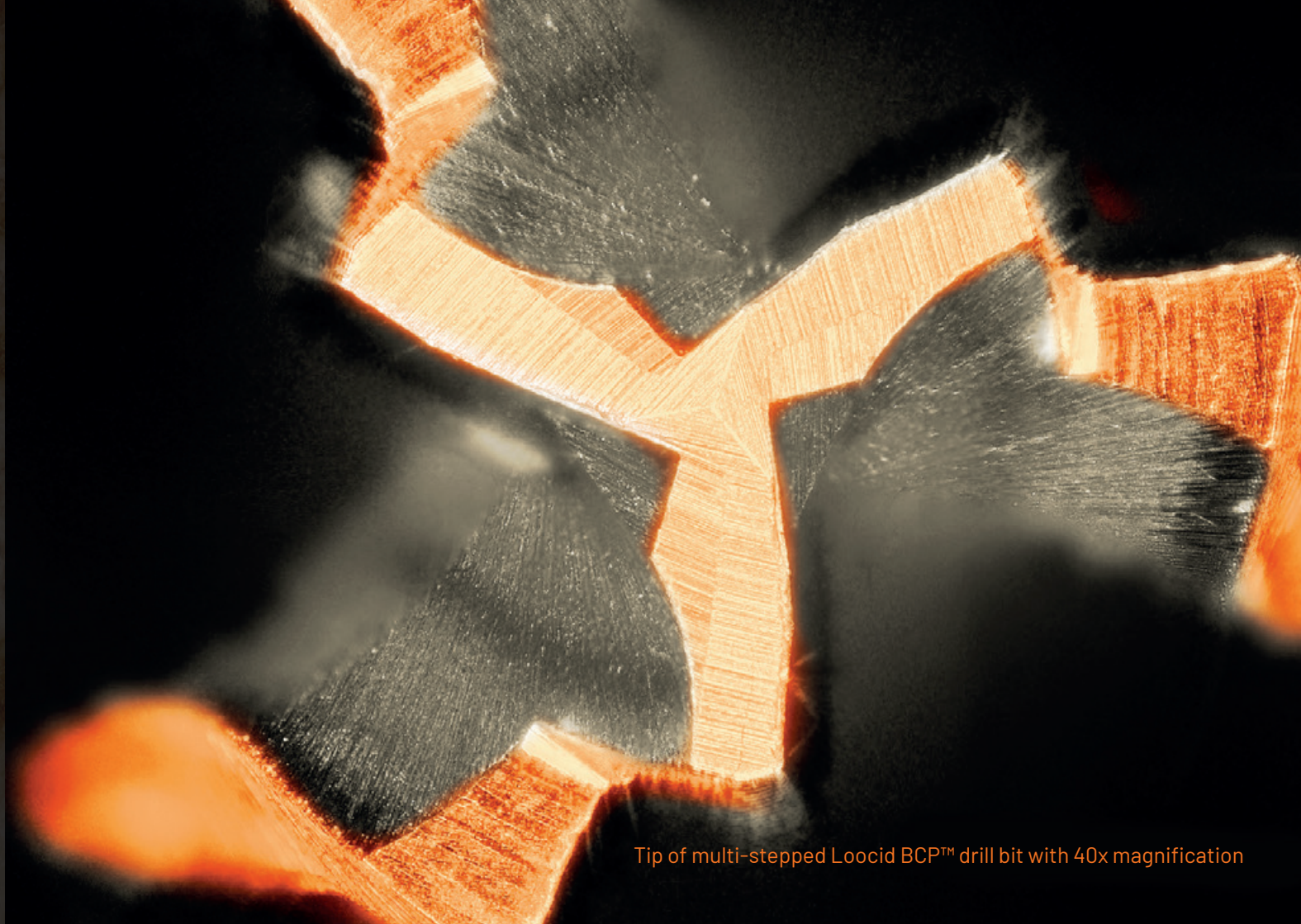


10) Abboud M, et al. Multisteped Drill Design for Single-Stage Implant Site Preparation: Experimental Study in Type 2 Bone. Clin Implant Dent Relat Res. Sep 29. doi: 10.1111/cid.12273, 2014



11) Abboud M, et al. What's more important for immediate loading: Implant surface and thread design or osteotomy preparation? Submitted to Compendium of Continuing Education in Dentistry



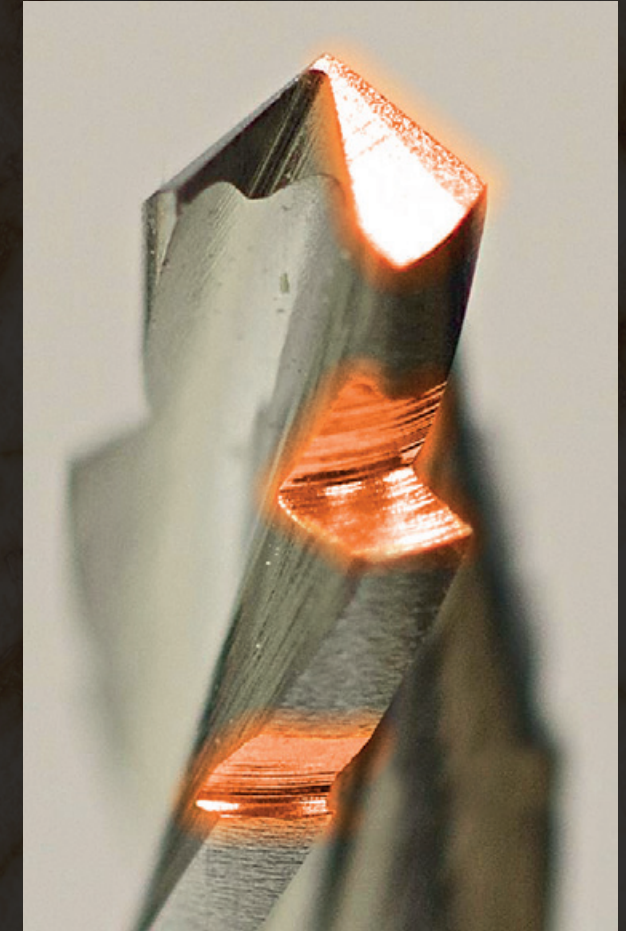


Tip of multi-stepped Loocid BCP™ drill bit with 40x magnification



Highly Innovative Technology

- » Small cutting tip for an efficient & easy start without chatter and vibration
- » Multiple level cutting edges provide smooth and effortless drilling
- » Efficient and precise osteotomies with reduced drilling protocol⁹⁾
- » The 1-Drill Protocol™ results in optimized osteotomies when compared to conventional sequential drilling techniques⁸⁾⁹⁾
- » High primary stability: With the Loocid 1-Drill Protocol, implant stability is increased up to two fold¹⁰⁾



Technology Supporting Clinical Efficiency



Efficient & Safety

Universal Use: Loocid BCP™ diameters and clinical protocols available for all common implant systems.
More information: www.loocid.com

» Reduced Steps with Loocid BCP™ Workflows:

1-Drill Protocol™ (1-DP)

Complete implant bed preparation in a safe and efficient manner, in 8-12 seconds, with only one LoocidBCP™ drill bit⁹⁾



2-Drill Protocol™ (2-DP)

1) A narrow diameter Loocid BCP™ drill is used as the starter drill bit, followed by the
2) Final drill bit of preferred implant system



3-Drill Protocol™ (3-DP)

1) A narrow diameter Loocid BCP™ drill is used as the starter drill, followed by a
2) Second, larger diameter Loocid BCP™ drill bit, followed by the
3) Final drill bit of preferred implant system



Loocid BCP™: Higher Efficiency & Safety

Loocid BCP™: Excellent Biologic Conditions for every Implant System

CRITERIA	Loocid BCP™
Bone Cell Protection	✓
High Implant Stability	✓
Efficient	✓
Easy to use	✓
Versatile	✓

**Enhancing your
clinical performance**



**Standard Diameter:
2.0, 2.8, 3.2, 3.7, 4.2, 4.7, 5.2**



Patient Satisfaction

„My oral surgeon placed an implant using the new Loocid BCP™ drill bit. It was a very fast and painless procedure. I was even able to play tennis shortly after surgery.“

M. H. (38)



„My first pain free implant placement I am glad my surgeon used the Loocid BCP drill bits.“

E. H. (73)



„I am so happy to have no pain or swellings after 6 implants have been placed. The clinician placed a fixed temporary restoration on the implants right after surgery, so that I am fully esthetically and functionally restored.“

T. T. (50)



„My implant healed perfectly and after 6 weeks I already received my final crown.“

M. S. (59)



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