

## Implaprotect

Dentists know that it is vital to treat peri-implant mucositis promptly to prevent the onset of peri-implantitis and potential loss of the implant.<sup>3</sup> Dental practices can now offer their patients a non-surgical (and on-site) treatment for this ever-growing condition. Implaprotect acts as a Stage 1 defence against peri-implantitis.

### Science and Simplicity

Implaprotect's patented preparation brings together antibiotic and regenerative therapies to deliver an 'all-in-one' therapy for the localized treatment of peri-implant mucositis. The combined antibiotic and liquid solution is able to penetrate the micro-openings of the implant and attack and contain the spread of bacteria. This is combined with hyaluronic acid to stimulate bone regrowth, and improve osteogenic and osteoinductive activity.

## Implacure

Approximately 20% of implant patients go on to suffer from what has been referred to as the 'ticking dental time bomb', peri-implantitis.<sup>4</sup> Despite this, up to now there has been no recommended protocol or solution for dealing with this destructive inflammatory condition. However, Implacure gives dental practices new possibilities for treating the disease.

### Science and Simplicity

Dentists can now offer patients a fast and affordable treatment that will help increase the chance of saving existing implants, and save patients from the discomfort of extraction and replacement.

Implacure's 'all-in-one' approach allows dentists to carry out treatment on site, increase the chances to save the existing implant, reduce costs and save time. Implacure also ensures rigorous patient compliance because all aspects of the treatment are controlled by the dentist.

The kit (including an antibacterial delivery system, burs to perform the implantoplasty treatment and regenerative and decontamination elements) ensures a safe and strong bone regeneration protocol to deliver a comprehensive treatment outcome. This helps with dental bone consolidation and enables vertical regeneration of the alveolar ridge. Decontamination is ensured with the use of high concentrations of CHX Gel and orthophosphoric acid.

## References

- <sup>1</sup> Derks J. Effectiveness of implant therapy in Sweden. J Dent Res. 2015 Mar; 94(3 Suppl): 44S-51S.
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- <sup>3</sup> Rosen P et al. Peri-Implant mucositis and peri-implantitis: a current understanding of their diagnoses and clinical implications, Task Force on Periimplantitis of the American Academy of Periodontology in January 2013.
- <sup>4</sup> Lewis N. A ticking dental time bomb? Medical and Defence Union of Scotland 2015; Winter.
- <sup>5</sup> Brunel G et al. Action of hyaluronic acid on the wound healing following extraction. Dent inform 2004; 7: 385-91.
- <sup>6</sup> Sasaki T, Watanabe C. Stimulation of osteoinduction in bone wound healing by high-molecular hyaluronic acid. Bone 1995; 16(1): 9-15.
- <sup>7</sup> Azlan M et al. The effect of hyaluronic acid-supplemented bone graft in bone healing: experimental study in rabbits, Bio App 2006; 20(3): 209-20.
- <sup>8</sup> Sasaki T, Watanabe C. Stimulation of osteoinduction in bone wound healing by high-molecular hyaluronic acid. Bone 1995; 16(1): 9-15.
- <sup>9</sup> Azlan M et al. The effect of hyaluronic acid-supplemented bone graft in bone healing: experimental study in rabbits, Bio App 2006; 20(3): 209-20.
- <sup>10</sup> Bartoloni S, Omer G. Peri-implant infections: prevention and treatment with a gel containing sodium hyaluronate and piperacillin and tazobactam, Doctor Os; 2014.
- <sup>11</sup> Heitz-Mayfield, L et al, The Therapy of Peri-implantitis: A Systematic Review, Int J Oral Maxillofac Implants 2014;29(Suppl):325-345.

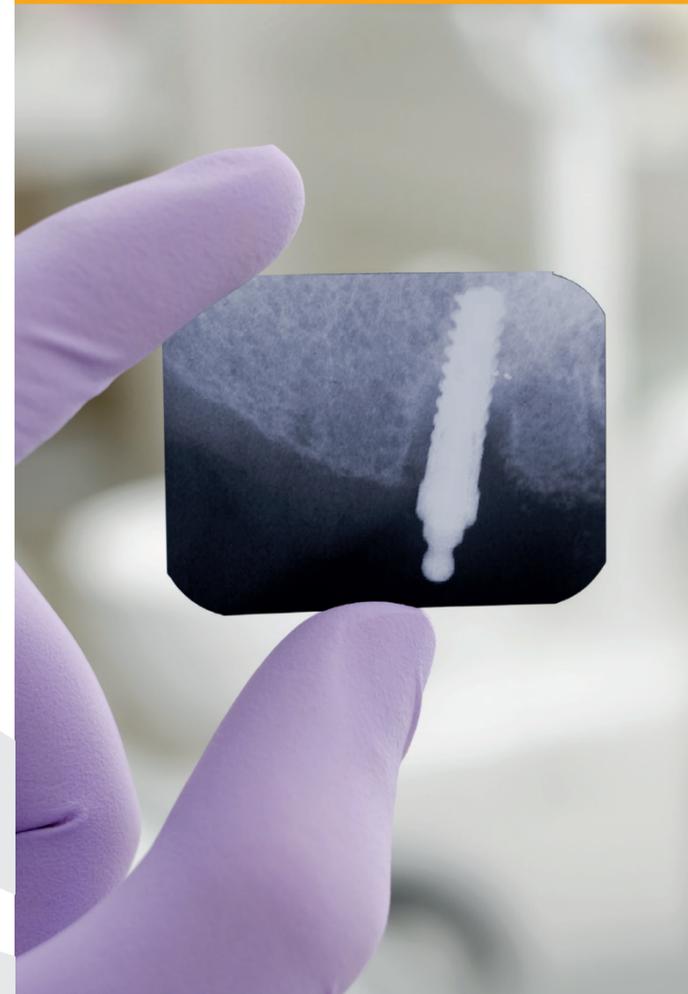
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## The MTD IMPLA Line Protecting your Patients' Smiles



# IMPLA LINE



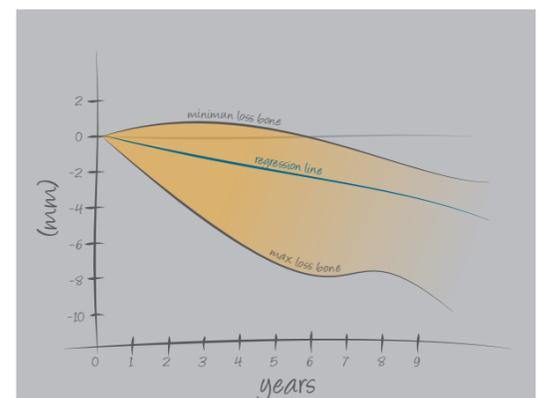
'Because dental-bone preservation  
is at the heart of every smile'

## Peri-implant diseases are here to stay

The first dental implant was placed in 1965, but it took the dental industry several years to catch up on the benefits of using implant technology. Only in the 1990s did implants become a proven option for replacing teeth. Dental implants are now preferred by most practices, their success driven by an ability to offer both an aesthetic and a functional solution. Implants help maintain the bone and also allow the patient to exert better chewing forces than traditional restorations.

However, the procedure might bring long-term problems: a key threat to the treatment's success is a correlated rise in implant-specific diseases, such as peri-implant mucositis and peri-implantitis, which can, after 9 years, affect 60% of implant patients.<sup>1</sup> Unfortunately, as recent studies prove, these diseases are degenerative, so early diagnosis and treatment are required to prevent implant loss.<sup>2</sup>

### Peri-implantitis patients: bone-loss estimation pattern<sup>3</sup>



Estimated pattern of bone loss for each  
implant diagnosed with moderate/severe  
peri-implantitis at the 9-year examination  
(n = 105, implants)<sup>1</sup>

## MTD's IMPLA range

Up to now, there has been no proven protocol or any specific recommendations for dealing with these conditions. However<sup>11</sup>, MTD's new 'Impla' line (which includes the products Implaprotect and Implacure) can now offer dental professionals an effective on-site protocol for preventing, and if necessary, treating peri-implantitis.

# Why Implacure?

## Use Implacure to

- Treat peri-implantitis without implant extraction.
- Help patients save time and money.
- Improve the dental practice's ability to offer a choice of treatment options.
- Enhance practice profitability.

## A Patented Treatment Protocol with Results

With several cases treated during the product-development phase, ongoing trials show:

- Strong short- and medium-term results: in 43 patients, 'excellent' results after 8 days in 84% of patients and 'good' in 16%.
- Good results in all patients treated after 3-6 months.
- Increased osseointegration: All treated implants were well osseointegrated after 3-4 months.
- Excellent long-term results: Implants with severe peri-implantitis showed excellent results in all patients with bone regeneration around the implant.

## Product Benefits

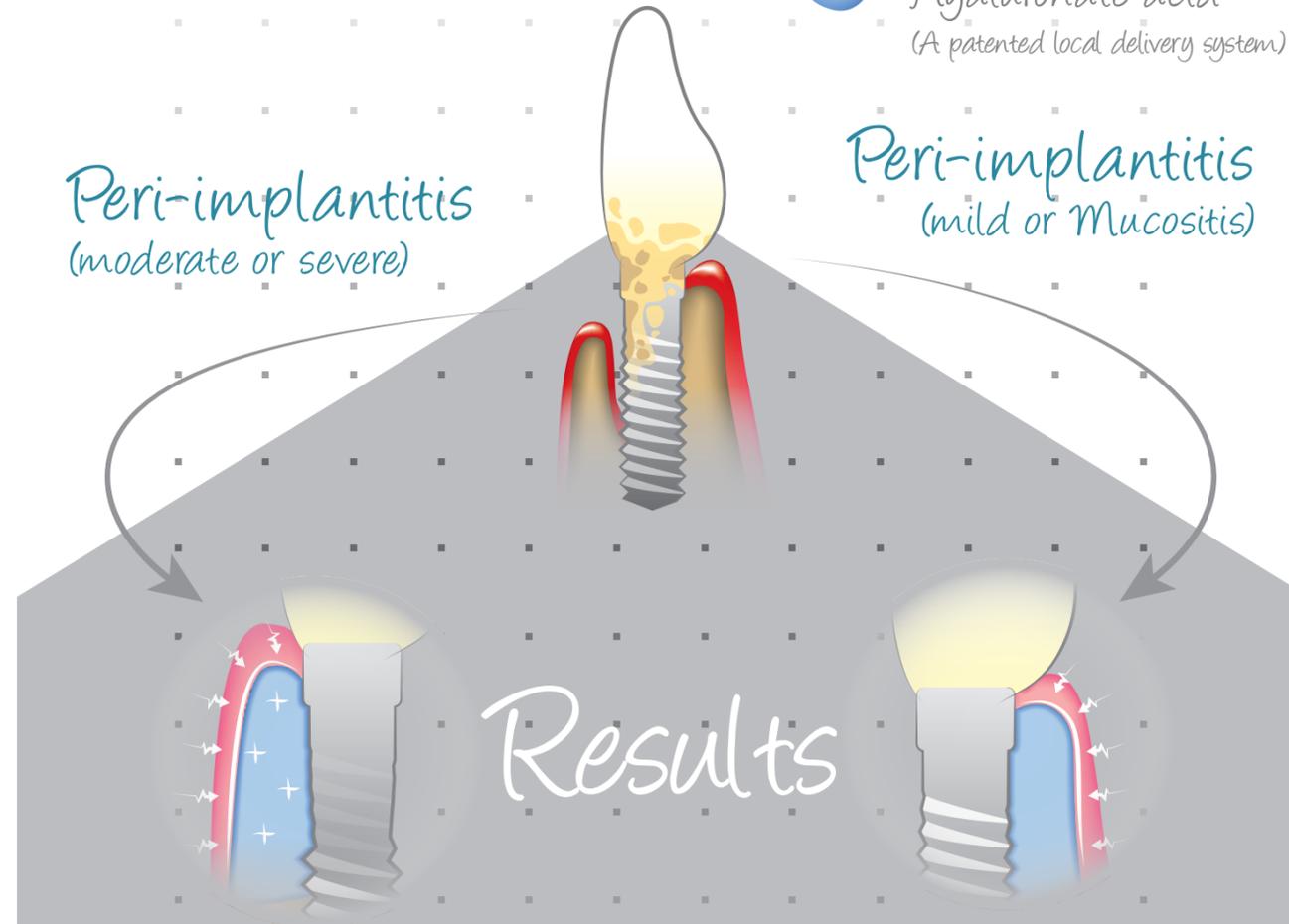
- Increased chances of saving existing implant.
- Faster and more affordable treatment.
- Less discomfort for patients.
- Bone regeneration in a shorter time than standard treatments.<sup>8</sup>
- Implaprotect's patented use of hyaluronic acid improves the regeneration of the alveolar bone allowing for a better implant insertion.<sup>9</sup>
- Rigorous patient compliance (pre- and post-surgery controlled by dentist).
- Best-in-class local antibiotic delivery.
- Extensive long-term decontamination due to coadministration of high concentrations of CHX gel and orthophosphoric acid.



 Piperacilline,  
Tazobactam and  
Hyaluronate acid  
(A patented local delivery system)

Peri-implantitis  
(moderate or severe)

Peri-implantitis  
(mild or Mucositis)



Results

After performing implastoplasty with Implacure's exclusive burs to ensure surface sanitation, bone graft is used to fill the defect. This, applied with MTD's exclusive formula of CHX gel and orthophosphoric acid, ensures best-in-class long-term decontamination to help tissue regeneration. Patented product combines a broad antimicrobial active formula with regenerative materials to accelerate tissue growth and give patients a proven, fast, affordable and reliable option to save their implant.

### Long term outcome

Initial studies show excellent results in 100% of patients, with a 50 to 80% bone restoration around implant.<sup>10</sup>

New studies (in Press) of 4+ years continue to support this trend.

Application of Implaprotect combats biofilm affecting soft tissue (and eventually bone). Patented formula allows powerful antibiotic to work locally for several days, treat exposed implant surface, eliminate bacteria, and create healthier environment. Hyaluronic acid acts as carrier and stimulant for living tissues, enabling faster recovery, fostering growth, and creating sustainable healthy and aesthetic result within days. Disease contained for prolonged period and bone holding implant and implant itself are protected.

## Use Implaprotect to

- Treat peri-implant mucositis (no bone loss).
- During implant placement.
- Protect crestal bone for future implant placement during extractions.

## A Patented Local Action with Rapid Results

- Attacks and contains bacteria proliferation.
- Increases bone and soft-tissue cell proliferation.
- Improves osteogenic and osteoinductive activity.

## Product Benefits

- Disinfects and treats affected area with a local slow-release formula that provides high concentration of MIC levels over a sustained treatment duration.
- Delays/prevents bone loss in patients suffering from peri-implant mucositis.
- Non-surgical recurring treatment that can be carried out during regular visits.
- When applied to a new implant, 100% of treated cases are well osseointegrated after 3 to 4 months.<sup>10</sup>
- Faster bone regeneration in post-extraction sites when compared to other treatments.<sup>5</sup>
- Better implant insertion because of Implaprotect's patented use of hyaluronic acid.<sup>6</sup>
- Rapid re-ossification of extraction sites.<sup>7</sup>



# Why Implaprotect?