

MEDENCY

A game-changer in implant care: Radial decontamination protocol (RDP)

Peri-implant diseases, such as mucositis and peri-implantitis, present significant challenges in modern dentistry. MEDENCY, an Italian company specialising in the development and production of cutting-edge medical laser systems introduces the Radial Decontamination Protocol (RDP)—a breakthrough laser-based solution for implant maintenance and disease treatment. Designed for bacterial decontamination and tissue regeneration, RDP provides an effective, minimally invasive, and patient-friendly approach to improving implant longevity.

What is RDP?

RDP integrates laser-assisted full-mouth disinfection with radial laser emission to effectively eliminate biofilm, reduce inflammation, and stimulate soft-tissue healing. By leveraging MEDENCY's specialised laser accessories, clinicians can apply RDP across preoperative, intra-operative, and postoperative stages for comprehensive implant care.

How RDP works

RDP is a structured, four-step approach ensuring standardised, effective implant maintenance:

1. **Patient evaluation**—Clinical assessment and implant site analysis.
2. **Treatment planning**—Selection of optimal laser parameters for individual needs.
3. **Laser-assisted decontamination**—Targeted bacterial removal and soft-tissue biostimulation.
4. **Follow-up & maintenance**—Post-treatment strategies for long-term success.

Backed by science

Clinical research highlights diode lasers' ability to penetrate bacterial biofilms, disrupt microbial colonies, and promote soft-tissue regeneration. Laser-assisted peri-implant therapy offers superior decontamination compared to traditional mechanical methods, making RDP a scientifically validated and clinically reliable solution.

The future of laser-assisted implant therapy

MEDENCY's TRIPLO multi-wavelength laser enhances peri-implant treatments with three powerful wavelengths:

- **450 nm (Blue Laser)**—Faster debriment and coagulation.
- **635 nm (Red Laser)**—Photobiomodulation (PBM) for improved healing and inflammation control.
- **980 nm (Infrared Laser)**—Deep bacterial decontamination and enhanced peri-implant tissue health.



With its wireless operation, intuitive interface, and customisable settings, TRIPLO ensures precision, efficiency, and superior treatment outcomes.

Key benefits of RDP

- **Complete bacterial decontamination**—Effectively removes biofilm from implant surfaces and tissues.
- **Inflammation reduction**—Promotes faster healing with controlled soft-tissue inflammation.
- **Enhanced tissue regeneration**—Stimulates cellular activity, reducing postoperative complications.
- **Minimally invasive & painless**—Ensures patient comfort with reduced trauma and quick recovery.
- **Customisable for different cases**—Adaptable to every stage of implant therapy.

Advancing implant care with innovation

RDP sets a new standard in implant maintenance, delivering a minimally invasive, highly effective, and scientifically supported treatment method. As peri-implant diseases become more prevalent, integrating advanced diode laser solutions like RDP and TRIPLO empowers professionals to offer the best patient care.

MEDENCY SRL
info@medency.com
www.medency.com

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