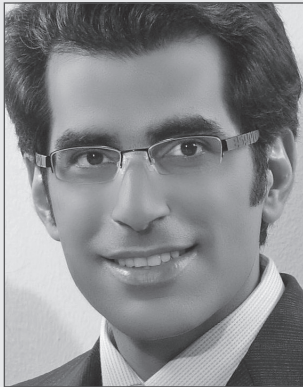


Reso-Pac®

Wound coverage after diode laser frenectomy with Reso-Pac

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- Since 2014 Lecturer for Laser Courses



Reso-Pac single tube, 25 g REF 155 011
Reso-Pac 5er Pack, 5 x 25 g tube REF 155 010
Reso-Pac single-use cup, 50 x 2 g REF 155 014

After more than 15 years experience with laser treatments, the main question from patients is: "Why is my wound infected?" Patients see the wound surface in a mirror and while fibrins cover the area after some hours, they think this is an infection appearance!

It is evidence based that with any diode laser assisted incision in oral soft tissue, the healing will take place in less than 72 hours and no or very minor bleeding will occur. In most cases the lesion can be left without any coverage but in cases it is recommended to use some periodontal medicaments like chlorhexidine mouth wash and gels. The main concern with mouth-rinses, gels or any other medicine carrier is how to ensure they stay in contact with the wound surface for some hours and not to get washed out.

Therefore, dentists are always looking to find a suitable wound protection to solve this problem. Currently, an innovative wound dressing that contains Poly-Ethylene oxide Reso-Pac (Hager & Werken, Germany) has been introduced. It is shown by Brun P. et al that Poly-Ethylene oxide supports the tissue regeneration. Also, Reso-Pac contains Myrrh that is well known for its disinfectant and astringent characteristics. Myrrh supports the hemostatic procedures as well. So, this material was found to be the most suitable dressing for wounds after diode laser assisted oral surgeries. It is also very patient friendly as Reso-Pac has no odor or bad taste. It remains soft on the surface and is self-dissolving after 24 – 36 hours.

Case study

A 38 years old lady with tooth sensitivity in anterior lower area was referred to our clinic with the main reason of feeling discomfort. During clinical examination, it was clear that labial frenum was the main reason for root exposure in lower right central. (Fig. 1)

Treatment plan was frenectomy and desensitization with help of LaserHF (Hager & Werken, Germany) and also low level photodynamic therapy to support regeneration of gingiva after healing of wounds. (Fig. 2)

Immediately after covering the area with Reso-Pac, she felt relaxation and happy. Laugh was back to her face! She said that she was ready for photodynamic therapy, although before covering the area, she was going to leave the clinic with anger! (Fig. 3)

After 24 hours the patient reported that the area was completely healed and she was more than happy because of such a huge progress in field of modern dentistry.



Fig. 1: Frenectomy was performed with soft tissue diode LaserHF (Hager & Werken)



Fig. 2: After removal of labial frenums with 2.2 W continues 980 nm diode LaserHF, patient asked to see the wound and got very nervous how this wound will heal.



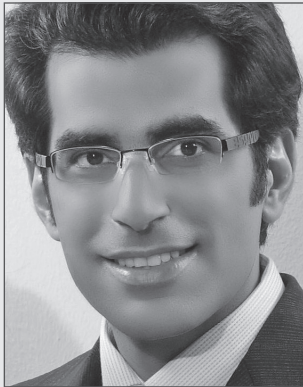
Fig. 3: Immediately after coverage of wound with Reso-Pac (Hager & Werken) in situ



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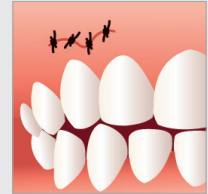
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Conclusion

Combination of laser and healing material like Reso-Pac will offer a high level of comfort and satisfaction not only for patients but also for dental professionals. We can reduce our work environment stress significantly while obtaining better clinical results. Our professionals for photodynamic therapy continued to monitor the case three weeks post operation. Patient was still happy and sensitivity was no longer reported by patient.

Reference:

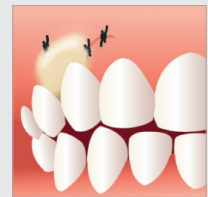
1- Paola Brun, Francesca Ghezzi, Martina Roso, Roberta Danesin, Giorgio Palù, Andrea Bagno, Michele Modesti, Ignazio Castagliuolo, Monica Dettin. Electrospun scaffolds of self-assembling peptides with poly(ethylene oxide) for bone tissue engineering, Acta Biomaterialia; Volume 7, Issue 6, June 2011, Pages 2526–2532



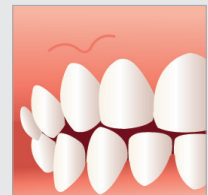
Suture post operation



Reso-Pac (Hager & Werken, Germany) wound protection



Reso-Pac remains soft with antibacterial and hemostatic effect



Self dissolving material after 36 hours



Video

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