

Treatment of advanced Peri-implantitis by Laser assisted GBR procedure



Dr. Bernard Dahan DCD
Moria Periodontal Center

A 45-year-old patient presented with Perimplantitis on the tooth # 46, (ten years after the implant had been placed).

The clinical symptoms were a slight sensitivity on brushing and discomfort.

The probing of the area revealed an 8-mm pocket circumferentially around the implant (Picture 1).

The X Rays showed bone loss of the cervical third of the bone support (Picture 2).

Owing to the good hygiene, the motivation of the patient "to save his implant", and the relatively good prognosis, we decided to proceed to a Guided Bone Regeneration surgery assisted by Er Yag Laser Therapy (Light Instruments).

After vertical and intrasulcular incisions (200mj Energy/20hz Frequency,20Hz) (Pictures 3-4), the debridement of the defect was achieved showing a crater as a circumferential lesion. (Pictures 5-6)

A complete decontamination was achieved by the Er Yag beam Laser :1300 microns Tip, 100mj Energy, 20hz Frequency (Picture 7).

The defect was filled with Bone Allograft and Growth Factor (Emdogain) and protected by a resorbable Collagen Membrane (Pictures 8-9-10-11).

After nine month, the patient presented with better clinical situation (less probing depth and improved bone topography) - (Picture 12)

In conclusion, the GTR procedure associated with the Er Yag Laser approach could help in the treatment of the Perimplantitis.

