

# LASER SMART<sup>M</sup> SG

WOUND HEALING

...BE SMART... START AND FEEL THE DIFFERENCE!



ALL - IN - ONE

# LASER BIOMODULATION OF CHRONIC WOUNDS WITH SMART<sup>MI</sup> SG LASER

The SMART<sup>MI</sup> SG diode laser is a multifunctional medical device designed to perform precise haemostatic incisions, controlled coagulation and soft tissue regeneration. Specially designed optical systems enable operation with different complementary wavelengths (635 nm, 980 nm, 1470 nm, 1940 nm). Equipped with a flexible quartz optical fibre and a broad selection of handpieces, the laser guarantees a unique range of applications in contact microsurgery, percutaneous vascular closure, phlebology and proctology, aesthetic medicine as well as stimulation of post-surgical wound and ulcer healing. Owing to appropriately selected radiation parameters, the effectiveness of procedures is exceptionally high. The unique versatility of diode lasers, their small size and weight makes them indispensable equipment in every modern medical office.

**Laser biomodulation** accelerates wound healing and promotes treatment of diverse types of epidermis and dermis damage. The procedure involves stimulating soft tissue regeneration and cell proliferation, as well as inhibiting the inflammatory process and reducing the pain experienced by the patient. It shortens treatment time and reduces patient trauma. The application of the 635 nm SMART<sup>MI</sup> SG laser gives excellent results in the treatment of chronic wounds such as venous ulceration of the shin, diabetic foot syndrome, burns, cuts, discolouration, etc. **According to clinical studies, wounds treated with laser therapy heal almost twice as fast and are less likely to develop complications. Furthermore, the use of laser light reduces pain, swelling, inflammation and exudate that accompanies chronic wounds.**

## 635 NM APPLICATIONS

- biomodulation of chronic wounds
- promotion of healing
- venous leg ulcer
- diabetic foot syndrome
- burns
- cuts
- discolourations

## WHY SMART<sup>MI</sup> SG LASER?

- navigated treatment with laser precision
- time saving for the patient and the doctor
- effective treatment with fewer visits
- noticeably higher revenues for the practice
- working with the best wavelengths
- no need for hospitalization in the postoperative period
- safe and effective medical procedures
- more satisfied patients who recommend the services to other people

## OTHER APPLICATIONS

- EVLT - endovenous laser ablation therapy
- treatment of haemorrhoids
- treatment of anal fistulas
- treatment of pilonidal disease
- bloodless microsurgery of anodermal folds
- percutaneous vascular closure
- dermatologic surgery
- removal of warts and fibroids



## CASE STUDIES

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## CASE STUDY 1

**PATIENT:** 69 years old, female ♀

**CASE:** suffering from insulin-dependent diabetes mellitus, renal failure (on dialysis), atherosclerosis of the lower limb arteries, after foot phlegmon, ulceration of the dorsum of the foot.

**THERAPY:** laser therapy based on the ulceration program - 6 procedures of 2-3 minutes each (twice a week).



## CASE STUDY 2

**PATIENT:** 60 years old, female ♀

**CASE:** after occlusion of the intravenous left common iliac vein and external iliac vein due to thrombotic obstruction, suffering from arterial hypertension.

**THERAPY:** laser therapy based on the ulceration program - 11 procedures of 2-3 minutes each (twice a week).



## CASE STUDY 3

**PATIENT:** 67 years old, male ♂

**CASE:** suffering from diabetes mellitus, after Fournier gangrene (acute necrotic infection of the scrotum), after colonic emergence, with perianal ulceration (duration of ulceration - 3 months).

**THERAPY:** laser therapy based on the ulceration program - 12 procedures of 5-6 minutes each (twice a week).



