FIT 4 SURGERY
4 MHz RADIOFREQUENCY
RADIOFREQUENCY KNIFE AND COAGULATOR

- NEW DESIGN
- HIGHER OUTPUT POWER AT 4 MHz
- PULSE MODE FOR VASCULAR LESIONS
The Dr Derm Fit 4 Surgery radiofrequency cautery is a successful combination of 4 MHz technology and digital control. Its elegant design, logical grouping of buttons, and the extraordinary services it provides owing to the underlying technology rank it among the most innovative devices. The LCD display continuously informs the user on the name of the currently used program and the output applied.

The digital control provides quick and accurate setting of the treatment parameters. The built-in memory facilitates the recall and repeated use of previous settings, thus allowing easier start-up even when patient turnover is high. The microprocessor ensures an even distribution of performance, which provides a more precise cut. For the sake of safe use, the unit gives light and audio signals at the start and stop of the treatment session.

The unit works at a frequency similar to that of radio sets, thus the high frequency used for the treatment guides electric current through the human skin easily. The electrical resistance of the skin helps to turn electric energy into molecular energy, which leads to precipitation of intracellular and extracellular proteins. The result is the so-called coagulation effect. In essence, the intracellular liquid is heated to the boiling point, which leads to break of the cell membrane, i.e. a cutting effect in the skin. High frequency current provides a more even cutting accompanied by a slight sense of heat. The resulting cut heals with an apparently minimal scar after the therapy, similar to CO₂ surgeries. Owing to this favourable effect, irregularities of vascular origin such as haemangioma, granuloma, etc. can also be eliminated by this method.

**APPLICATION FIELDS**

- Dermatology
- Dental Surgery
- Gynecology
- Otorhinolaryngology
- Plastic surgery

**TECHNICAL DETAILS**

- **Mains voltage:** 230 V, 50Hz ± 10 %
- **Rate of power input:** max. 120 VA
- **Shockproofing Class:** Class I / BF
- **Applying standards:** MSZ EN 60601-1
  - IEC 601-2-2
- **Output parameters:**
  - Max output power: 50 W
  - Operation frequency: 4 MHz
- **Dimensions:** 230x200x120 mm
- **Weight:** 5 kg

CE 1011
TREATING PROGRAMS

› CUT
The Cut program uses the electrode to cut the skin. The shape of the end of the electrode can be snare, loop, or triangle. As the electrode end is guided through the skin slowly, a steam envelope is created, and a cutting effect occurs. The treatment is accompanied by a minimal heat sensation along the cut, and the resulting wound looks like a cut made by the scalpel. According to pathological examinations, the cut surface is similar to laser-cut results. The edges of the wound close perfectly, facilitating the subsequent suturation.

› CUT AND COAG
The advantage of radio frequency cautery is a reduced treatment time in case of minor surgeries without bleeding. The „Cut and Coag” program can be used for surgeries with minimal bleeding. The electrode guided in the skin seals the blood vessels in the moment of cut, thus less blood will enter the wound. The treated area can be kept clear by preventing bleeding.

› HAEMOSTAT (COAG)
The “Haemostat” program is ideal to seal minor blood vessels, and to reduce bleeding. The electrode used for the treatment has a 2 mm metal ball at the end. The electrode can be used directly on the skin, as it seals the blood vessels or stops bleeding upon touch.

› HIGH BURST (FULGURATION)
The High Burst program is ideal for treating flatly protruding benign lesions such as: Verruca Seborrhoica, Verruca Plana, Papulosis Nigra. With the electrode contacting the skin, move it lightly, without exercising pressure, and then wipe the treated area with a wet gauze pad. The intact skin surface will be visible after wiping.

› PULSE MODE (S, M, L)
Pulse mode is a treatment function developed specifically by Dr Derm Equipment. It works similar to the latest laser devices which use impulses in the msec range. Using this program, dilated blood vessels can be treated by very short pulses with high outputs, sparing adjacent tissues, and with minimum or no scars.

NEW TECHNOLOGY

Ergonomic design
Digital control with treatment programs
Liquid crystal display (LCD)
Minimal side effects
Bipolar option
4 MHz radiofrequency
Minimal coagulation zone
Minimal scarring
Unique wave forms
Excellent cosmetologic results
Rhinophyma treatment with Fit4Surgery 4MHz radiofrequency cautery

“I have been working with ablative and non ablative lasers for almost 10 years now and was pretty satisfied with the outcome. When I heard about the new radiofrequency device from Dr Derm Equipment, I though what could be the benefit over the lasers I am using, but still decided to try it. From the first time I used the device I realized that I am using a device which is as superior as the lasers if not even better in some applications. The precision and the selectivity I have experienced is not easy to get even with some lasers I am using. More than that, the post operative pain, scarring or hyperpigmentation is significantly reduced. Its Pulse mode program gives an added option for treating the telengectasia and small veins which can not be obtained by any other RF device in the market. Finally, after working with the machine now, for few months, I do recommend that every dermatologist should have one Fit 4 surgery in his office, it will add a lot to his practice and his results”.

Ashraf Badawi, M.D. LASER INSTITUTE, CAIRO UNIVERSITY, EGYPT.