The New Generation of Interstitial Microwave probes for tissue thermoablation

Distributed By:

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HS AMICA, “Future made Present”!
Our technology overcomes all drawbacks of conventional microwave applicators for thermoablation:

- Small gauge applicators: 14G and 17G already available, 18G coming up soon!
- Elimination of back heating effects: thanks to the combined action of the probe cooling system and of our patented reflections trapping system, the coagulation pattern size and shape are never out of control!
- Safe generation and proper handling of microwave energy: our programmable solid state source warrants altogether maximum electrical safety, full control over microwave generation and delivery to patients and extreme versatility!

Microwaves, the future of thermoablation!
With respect to existing technologies for electromagnetic thermoablation, microwaves are:

- Faster: microwaves heat biological tissues very rapidly and allow complete coagulative treatments even in proximity of large blood vessels;
- More effective: bigger lesions in a shorter time;
- Safer: no currents dispersed through the patient’s body, true confinement of the irradiated volume, no grounding pads
- More versatile: the same microwave applicator may be successfully used for ablative therapies on almost any type of target tissue
- More reliable: homogeneous and repeatable necrosis for a given set of working parameters, little dependence on local variations in the tissue physical properties.

Solid state, programmable microwave generator
- Microwave Output: up to 100W
  Continuous Wave at 2450 MHz
- Maximum electrical safety: microwave amplifier fed at 12VDC, low dispersed currents.
- Optimized microwaves delivery monitoring: continuous measurement of forward and reflected microwave power; automatic microwaves inhibition in case of exceeding probe temperature or reflection coefficient; self-diagnosis of microwave module
- Essential and intuitive user interface: just an LCD touchscreen for menu browsing and a rotary knob for parameters selection!
- “Open” digital architecture: any customization is as easy as a software upgrade!
- Unlimited interfaceability: AMICA-GEN is designed for networking with any number of peripheral devices daisy chained to AMICA-PUMP (including PCs…).

Fully automated peristaltic pump for probe cooling through water circulation
- Fed and driven by AMICA-GEN: requires no manual intervention by the operator!
- Compact and lightweight (only 500 g !)
- Built-in status LED
- Pre-cooling of water to be pumped into the probe is not necessary: ambient temperature water will perfectly do.