

# The Next Generation in Microwave Thermal Ablation

**Experience a Faster, Easier and More Predictable Ablation with MedWaves AveCure™ Microwave System.**



## Advantages:

- Intelligent power and frequency control optimizes energy delivery
- Adjustable power and temperature settings allows for custom ablation zones
- Predictable ablation zones with reduced 'heat-sink' effect
- Real-time temperature, power, and time display
- Absence of RF current minimizes pain and reduces required anesthetic dosage
- Multiple probes can be used simultaneously for larger ablation zones

## AveCure Microwave System Features

### Dynamic Frequency Selection

MedWaves' AveCure generator is the only microwave generator to use a dynamic frequency range (902-928MHz) capable of adapting to tissue permittivity changes during ablation. The MedWaves' AveCure generator monitors power levels automatically and adjusts frequency to maximize power delivery to the targeted tissue.

### Efficient Energy Delivery

This efficient method of energy delivery allows the physician to create larger ablation zones in less time with a single probe. It also allows the generator to operate at only 32 watts, eliminating the need for irrigated shaft cooling and reducing the risk of charring and burns.

### Real-Time Data Feedback

The probe's integrated temperature sensor provides direct feedback from the ablation. Reverse power is also displayed on the generator to show how efficiently the microwave energy is being delivered to the targeted tissue.

### Predictable Ablation Zones

Microwave power is less affected by cooling blood flow, which allows the ablation zone to expand completely up to the vessel. This allows more predictable and complete ablation zones with potentially lower recurrence rates (*R. C. G. Martin et al, Surgical Oncology, August 2009*).

### Customizable Ablation Zones

Adjustable temperature and power settings allow the physician to create custom ablation zones specific to the targeted area. Multiple antenna sizes are available for small, medium and large ablation zones.

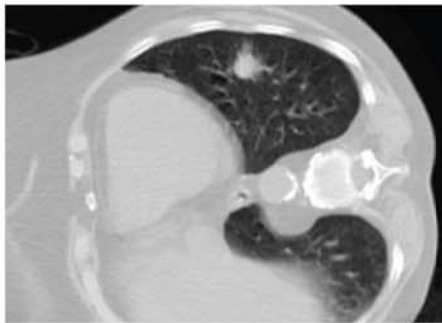
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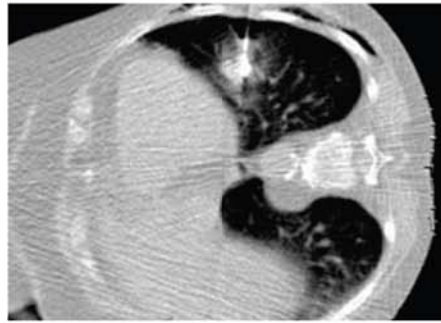
**MedWaves**  
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# Clinical Applications

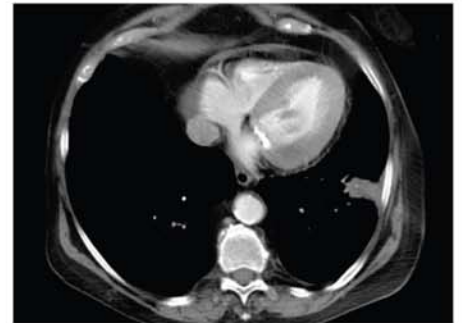
*MedWaves AveCure Microwave System is designed for soft tissue ablation in multiple specialties*



Before ablation



During ablation



One month after ablation with contrast

## Lung

MedWaves' microwave system does not rely on the conductivity of the target tissue to create an ablation zone. This method of energy delivery has proven very effective in ablating airy lung tissue with limited conductivity.

## Liver

MedWaves' microwave system is less affected by cooling blood flow. This allows the microwave antenna to create more predictable and complete ablation zones, especially in hypervascular areas.

## Bone

MedWaves' thin probe and antenna design allows for easy access and efficient soft tissue ablation in bones.

## Kidney

Medwaves' AveCure microwave system is effective for ablating soft tissue in the kidney.

### MedWaves Ordering Information

Catalog No.	Description	Power in VAC	Frequency in Hz
<b>MWG881</b>	AveCure Microwave Generator	100-240	47-63

### AveCure Microwave Probes

Catalog No.	Shaft diameter	Shaft length	Handle length	Microwave field
<b>16-15-LH-10</b>	16 gauge	15 cm	Long	1 cm
<b>16-15-LH-15</b>	16 gauge	15 cm	Long	2 cm
<b>14-15-LH-35</b>	14 gauge	15 cm	Long	4 cm
<b>14-15-SH-35</b>	14 gauge	15 cm	Short	4 cm
<b>14-23-LH-35</b>	14 gauge	23 cm	Long	4 cm
<b>14-23-SH-35</b>	14 gauge	23 cm	Short	4 cm
<b>12-30-LH-35</b>	12 gauge	30 cm	Long	4 cm

### Avecure Microwave Cables

Catalog No.	Description	Length (ft)
<b>MECO</b>	AveCure Microwave extension cable	8
<b>SECO</b>	AveCure Signal extension cable	8

