Acculis
Microwave Tissue Ablation System

A single device for fast, predictable, large ablations.
Considerations in selecting a Microwave Ablation System

The Differences:
- 2.45GHz vs 915 Mhz
- Larger ablation zone
- Faster procedure times
- Fewer probes required

More power = Faster Ablations

Simple set up, planning, device placement and coagulation parameters

Planning

In the plane perpendicular to the applicator, A is the coagulation diameter.
In the plane of the applicator, B is the coagulation length.

Placement

Post-ablation

CT

Ex-vivo tissue, bovine
A single device for fast, predictable, large ablations.

The Acculis® MWA system is rated the fastest in achieving the largest coagulation diameter (short-axis) at 5 and 6 minutes.¹

Line graphs show the (a) volume and (b) short-axis diameter of the coagulation zone in relation to ablation duration.

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Ex-vivo bovine study—liver

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The Acculis MWA system provides the most spherical and largest diameter ablations at 5 minutes.¹²

Graphs show the volume, b/a ratio and short axis diameter of the coagulation zone after 5 minutes, 10 minutes, and the maximum recommended ablation duration:

System A — Acculis, 6 minutes
System B — HS Amica, 10 minutes
System C — Covidien, 10 minutes
System D — Mediwaves, 15 minutes

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1 Hoffman et al., Radiology, Published online, Feb 2013
2 IFU pMTA Issue 4
3 IFU MTA Issue 4
Acculis MTA System

- Thermal coagulation of Soft Tissue using Microwave Energy
- Probe placed under CT or Ultrasound Guidance
- System consists of the Sulis VpMTA Generator, Acculis Local Control Station (LCS), Accu2i pMTA Applicators, and optional MTA Temperature Probes.

Accu2i pMTA Applicator

Percutaneous applicator (available in 14 cm, 19 cm and 29 cm lengths)

- Fast, large, near-spherical ablations
- 4.5 cm x 5.5 cm diameter ablations in 6 min

<table>
<thead>
<tr>
<th>Power</th>
<th>2 minutes</th>
<th>4 minutes</th>
<th>6 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 watts</td>
<td>2.3 x 2.7</td>
<td>3.3 x 3.7</td>
<td>3.5 x 4.0</td>
</tr>
<tr>
<td>100 watts</td>
<td>2.7 x 3.2</td>
<td>3.6 x 4.1</td>
<td>4.0 x 4.7</td>
</tr>
<tr>
<td>140 watts</td>
<td>2.9 x 3.5</td>
<td>4.1 x 5.2</td>
<td>4.5 x 5.5</td>
</tr>
</tbody>
</table>

Diameter x Length (both in cm)

See IFU for Muscle and Kidney Protocols with the applicators.

NOTE: Coagulation results are from coagulations performed in ex vivo animal tissue models.
Accu20s MTA Surface Applicator

Open use (available in 30 cm length)

- 1.9 cm x 1.2 cm diameter ablations in 60 sec
- Scalable burn size
- Unique design—only microwave surface applicator on the market

<table>
<thead>
<tr>
<th>Power</th>
<th>20 seconds</th>
<th>40 seconds</th>
<th>60 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 watts</td>
<td>0.8 x 0.6</td>
<td>1.4 x 0.9</td>
<td>1.6 x 1.0</td>
</tr>
<tr>
<td>90 watts</td>
<td>1.2 x 0.6</td>
<td>1.5 x 0.9</td>
<td>1.7 x 1.1</td>
</tr>
<tr>
<td>100 watts</td>
<td>1.5 x 0.8</td>
<td>1.7 x 0.9</td>
<td>1.9 x 1.2</td>
</tr>
</tbody>
</table>

Diameter x Depth (both in cm)

NOTE: Coagulation results are from coagulations performed in ex-vivo animal tissue models.

Accu5i MTA Applicator

Open or Laparoscopic use (available in 17.4 cm and 33.4 cm lengths)

- 5.0 cm x 6.8 cm diameter ablations in 8 min
- 5.6 mm shaft
- Scalable near spherical coagulation zones

<table>
<thead>
<tr>
<th>Power</th>
<th>4 minutes</th>
<th>6 minutes</th>
<th>8 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 watts</td>
<td>2.4 x 2.8</td>
<td>2.9 x 3.3</td>
<td>3.6 x 3.9</td>
</tr>
<tr>
<td>70 watts</td>
<td>3.4 x 4.8</td>
<td>4.0 x 5.5</td>
<td>4.7 x 6.3</td>
</tr>
<tr>
<td>100 watts</td>
<td>4.3 x 6.0</td>
<td>4.6 x 5.9</td>
<td>5.0 x 6.8</td>
</tr>
</tbody>
</table>

Diameter x Length (both in cm)

See IFU for Muscle and Kidney Protocols with the applicators.

NOTE: Coagulation results are from coagulations performed in ex-vivo animal tissue models.

Acculis LCS (Local Control Station)

- Coolant temperature monitoring system
- Most efficient pump on the market
- Integrated control interface for disposable applicators
- Single-action multi-connector cartridge

Sulis V MTA Generator

- Touch screen user interface
- Most powerful generator on the market
- Simple to operate
- 140 watts maximum

Acculis MTA temperature probes

- Single-use, disposable instrument used to monitor temperature levels up to 70 °C in real-time
A single device for fast, predictable, large ablations.

4.5 cm x 5.5 cm ablation\(^1\) in a single 6 minute application

\(^{1}\)The liver coagulation results are from coagulations performed in ex-vivo animal tissue models.

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Diameter</th>
<th>Length</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>pMTA Accu2i Standard Applicator (cooled)</td>
<td>1.8 mm</td>
<td>14 cm</td>
<td>900-600</td>
</tr>
<tr>
<td>pMTA Accu2i Intermediate Applicator (cooled)</td>
<td>1.8 mm</td>
<td>19 cm</td>
<td>900-602</td>
</tr>
<tr>
<td>pMTA Accu2i Long Applicator (cooled)</td>
<td>1.8 mm</td>
<td>29 cm</td>
<td>900-601</td>
</tr>
<tr>
<td>MTA AccuSi, Applicator (not cooled)</td>
<td>0.56 cm</td>
<td>17.4 cm</td>
<td>900-312</td>
</tr>
<tr>
<td>MTA AccuSi, Applicator (not cooled)</td>
<td>0.56 cm</td>
<td>33.4 cm</td>
<td>900-313</td>
</tr>
<tr>
<td>MTA Accu20s, Surface Applicator (not cooled)</td>
<td>24 mm</td>
<td>30 cm</td>
<td>900-500</td>
</tr>
<tr>
<td>MTA Temperature Probes (black and grey)</td>
<td>18G</td>
<td>20 cm</td>
<td>900-314</td>
</tr>
<tr>
<td>MTA Temperature Probes (black and grey)</td>
<td>18G</td>
<td>33 cm</td>
<td>900-315</td>
</tr>
<tr>
<td>Sulis (^{V}^{\text{max}}) Generator</td>
<td>—</td>
<td>—</td>
<td>806-010</td>
</tr>
<tr>
<td>LCS Unit</td>
<td>—</td>
<td>—</td>
<td>806-011</td>
</tr>
<tr>
<td>Cart and Monitor Arm</td>
<td>—</td>
<td>—</td>
<td>700-006</td>
</tr>
<tr>
<td>Cord Set Canada 10A/125v</td>
<td>—</td>
<td>—</td>
<td>800-017</td>
</tr>
</tbody>
</table>

**IMPORTANT RISK INFORMATION**

DFU (510.243)

The Accu2i pMTA applicator is intended for the coagulation of soft tissue during open, laparoscopic or percutaneous procedures.

DFU (62813-09-002-230) & (62810-09-002-Accu51)

The Acculis Accu20s MTA Surface Applicator and AccuSi MTA Surgical Applicator are indicated for the intraoperative coagulation of soft tissue.

CONTRAINDICATIONS: The Accu2i pMTA applicators, Acculis Accu20s MTA Surface Applicators and AccuSi MTA Surgical Applicators are contraindicated in patients with heart pacemakers and other electrical device implants.

For exclusive international use, outside the US.