Optimal Control
Better Outcomes

From Bovie. The Name You Trust

Now part of Symmetry Surgical’s Energy Portfolio
Optimal Control - Better Outcomes

Thermal Spread depends on Voltage (Vpeak).1,3

Optimal Control - Energy Delivery

Olsen® Precision Non-Stick Bipolar Forceps - Designed for Thermal Control

The non-stick Cermet coating on the tips of Olsen® Precision bipolar forceps creates a highly conductive, smooth surface, enabling the use of lower power settings, which may reduce tissue damage caused by thermal spread, eschar build-up and the production of noxious smoke.

Optimal Control - Safety

Bovie® Tissue Sensing Technology

Bovie’s tissue sensing technology measures tissue 500,000 times a second and adjusts to varying impedances.

Bovie DED™ (Digital Error Detection)

Unsurpassed protection for the Surgeon, OR staff and patient. At the sign of any problem, the unit instantly disables the output and displays the appropriate error code.

Bovie NEM™ (Return electrode sensing and contact quality monitoring)

The ORPRO is designed with state-of-the-art safety features including Bovie NEM™ pad-sensing technology that monitors the return electrode for optimum patient protection.

Optimal Control - Better Outcomes

Patient related electrosurgical risks can cause poor outcomes and be a major cost to the healthcare system.1,2

Direct application or damage to adjacent tissue (Thermal Spread) occurs when thermal heat spreads beyond the tissue that the surgeon intends to dissect with the energy device.

Thermal Spread depends on Voltage (Vpeak).1,3

Less Vpeak = Less Thermal Spread

"Surgeons should start with the lowest power setting to perform the procedure in order to prevent collateral damage."4

Less Vpeak = Less Thermal Spread

Less Vpeak = Less Thermal Spread

Table: Bovie® OR | PRO vs. Competitors

<table>
<thead>
<tr>
<th>MODE</th>
<th>CDT I (Pure Cut)</th>
<th>CDT II (Laparoscopic)</th>
<th>Blend 1 (75% cut 25% coag)</th>
<th>Blend 2 (62.5% cut 37.5% coag)</th>
<th>Blend 3 (50% cut 50% coag)</th>
<th>Blend 4 (37.5% cut 62.5% coag)</th>
<th>Pinpoint Coag</th>
<th>Spray Coag</th>
<th>Gentle Coag (Endo)</th>
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</thead>
<tbody>
<tr>
<td>Vpeak Max (%)</td>
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<tr>
<td>Bovie® OR</td>
<td>PRO vs. Valley Lab® Force FX</td>
<td>1000 vs. 2300</td>
<td>750 vs. 1350</td>
<td>1320 vs. 3300</td>
<td>1475 vs. N/A</td>
<td>1650 vs. N/A</td>
<td>1870 vs. N/A</td>
<td>1800 vs. 3500</td>
<td>4000 vs. 9500</td>
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<tr>
<td></td>
<td>57% Less Vpeak</td>
<td>44% Less Vpeak</td>
<td>60% Less Vpeak</td>
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<tr>
<td>Bovie® OR</td>
<td>PRO vs. Megadyne ACE</td>
<td>1000 vs. 3000</td>
<td>750 vs. 1500</td>
<td>1320 vs. 4000</td>
<td>1475 vs. N/A</td>
<td>1650 vs. N/A</td>
<td>1870 vs. N/A</td>
<td>1800 vs. 5800</td>
<td>4000 vs. 7200</td>
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<tr>
<td></td>
<td>67% Less Vpeak</td>
<td>59% Less Vpeak</td>
<td>67% Less Vpeak</td>
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<tr>
<td>Bovie® OR</td>
<td>PRO vs. Conmed System 5000™</td>
<td>1000 vs. 820</td>
<td>750 vs. 2700</td>
<td>1320 vs. 930</td>
<td>1475 vs. 1100</td>
<td>1650 vs. 1480</td>
<td>1870 vs. N/A</td>
<td>1800 vs. 2120</td>
<td>4000 vs. 6350</td>
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<tr>
<td></td>
<td>72% Less Vpeak</td>
<td>72% Less Vpeak</td>
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Bovie® Generators - Same power at less Vpeak than any leading competitor

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Bovie® Generators - Same power at less Vpeak than any leading competitor

*Surgeons should start with the lowest power setting to perform the procedure in order to prevent collateral damage.5

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BROADEST PORTFOLIO SOLUTION

Powered by Bovie® and Olsen®

- Generators
- Smoke Evacuation
- Accessories
- Grounding Pads
- Electrodes
- Bipolars
- Monopolars
- Micro Needles

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William T. Bovie

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3) Davison, J, Zamah, N. Electrosurgery: Principles, Biologic Effects and Results in Female Reproductive Surgery | Glob. libr. women's med., (ISSN: 1756-2228) 2008; DOI 10.3843/GLWM.1002