The higher thermal conductivity of gold electrodes allows PVAC® GOLD to consistently and accurately create high quality cardiac lesions

**More Accurate Temperature Measurement**

![Chart showing temperature measurement differences between Platinum and Gold electrodes.]

**Improved Lesion Consistency In Low Cardiac Flow Conditions**

![Graph comparing lesion depth in low and high blood flow conditions.]

**Improved Lesion Quality Between Electrodes**

![Graph comparing lesion depth between and under electrodes.]

Innovating for life.
More Accurate Temperature Measurement

Temperatures were measured at a thermocouple aligned with a tissue interface and a second test thermocouple in order to measure the temperature differential in cases of tissue/thermocouple misalignment\(^1\). Data shown use 4:1 energy mode.

Improved Lesion Quality Between Electrodes

Lesions were created in bovine myocardium sections mounted in an apparatus simulating a pulmonary vein. Sections were subsequently sliced directly beneath electrode locations and between adjacent electrodes in order to assess lesion depth\(^2\). Data shown use 4:1 energy mode.

Improved Lesion Consistency In Low Cardiac Flow Conditions

Lesions were created in porcine thigh muscle with a specially designed apparatus to simulate different cardiac flow conditions. Lesions were created with a 4 electrode array with platinum or gold electrodes and depth assessed directly underneath electrodes\(^2\). Data shown use 4:1 energy mode.

References
\(^1\)Evaluation of Gold/Platinum Electrode Multipolar Phased RF Ablations in a Swine Model: Characteristics of Energy Delivery Performance in a Swine Thigh Muscle Preparation. Haines et al. ESC 2012 P5371
\(^2\) Medtronic Design Validation Report, Data on File

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