

Stryker's CrossFire II Console Exhibits Highest Mass Ablation Rate

Top-Level Summary:

The ablative performance of the Stryker CrossFire II with SERFAS 90-S Accelerator RF ablation probe was compared to two competitive RF energy systems for arthroscopic knee surgery. **The CrossFire II console was found to have the highest ablation rate.**¹

Methods:

The ablative performance of three RF energy generators and their respective RF ablation probes was compared:

- Stryker CrossFire II console – SERFAS 90-S Accelerator RF ablation probe
- DePuy Mitek VAPR VUE console – Premier 90 RF ablation probe
- ArthroCare Quantum 2 console – Super Turbovac 90 RF ablation probe

Each generator was set to maximum power (400 watts) and the respective RF ablation probe was tested in an in-vitro study. The mass of the tissue before and after ablation and the ablation time was recorded from ten trials per system.¹ A single factor Analysis of Variance was used to compare mean rate of tissue ablation among the three systems tested. Statistical significance was assumed at $p \leq 0.05$.

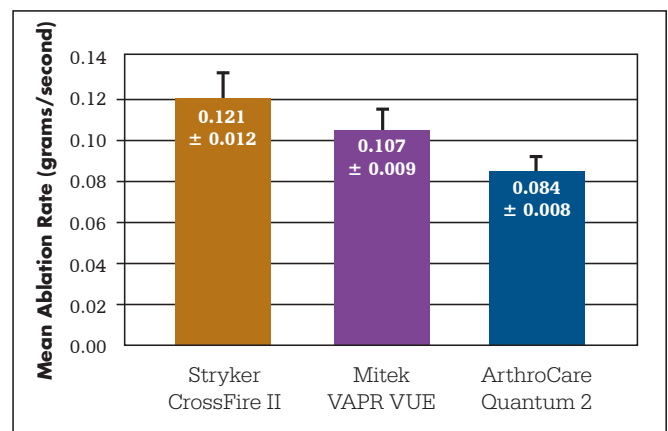


Results:

The CrossFire II console produced a significantly higher mass ablation rate than both competitive systems, averaging 13% faster than the Mitek VAPR VUE console and 44% faster than the ArthroCare Quantum 2 console.¹ Additionally, the ablation rate for the VAPR VUE console was significantly higher than the Quantum 2 console.¹

Clinical Relevance:

The significantly higher rate of ablation with use of the Stryker CrossFire II console means that tissue resection can be done faster, which may help shorten surgical time.



References:

1. Stryker DHFD11973 March 24, 2014

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