

EVIDENCE MATTERS

RESEARCH BULLETIN

Stryker 90-S Cruise Probe Exhibits High Ablation Efficiency

TOP-LEVEL SUMMARY:

The ablative performance of the SERFAS 90-S Cruise probe with Stryker CrossFire II was compared to two competitive RF energy systems. **The Cruise was found to have high ablation rate and efficiency with no increase in outflow temperature compared to the two competitive RF energy systems tested.**¹

METHODS:

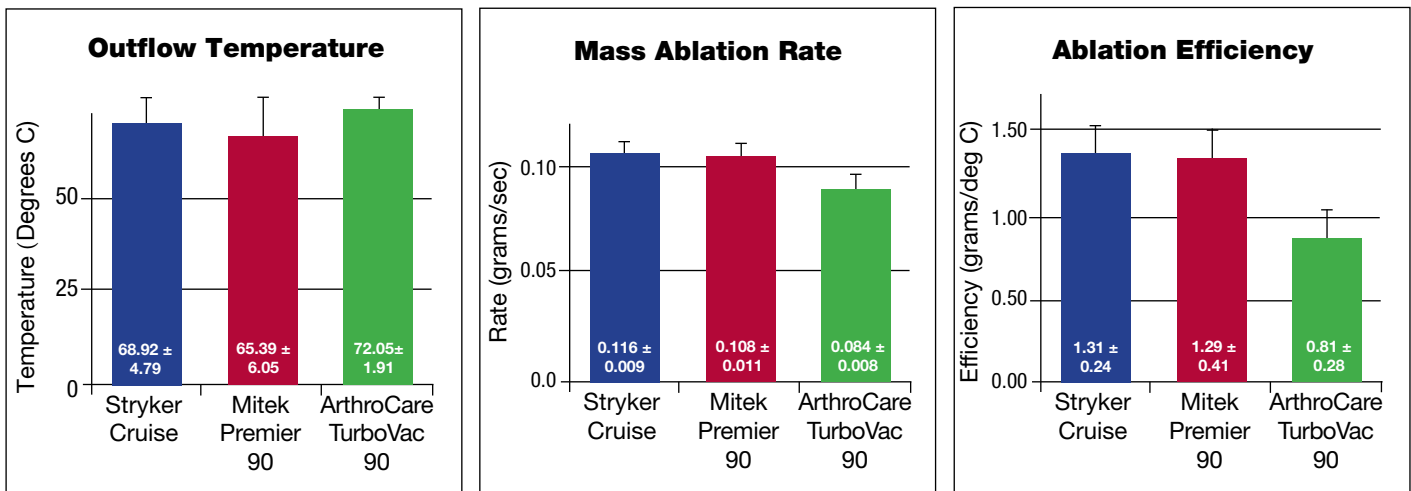
The ablative performance of three RF probes and respective energy generators was compared:

- Stryker SERFAS™ 90-S Cruise probe – CrossFire™ II
- DePuy Mitek Premier 90 probe – VAPR® VUE™
- ArthroCare Super Turbovac 90 probe – Quantum™ 2

Each generator was set to maximum power (400 watts) and the respective RF energy probe was tested in an in-vitro study. Outflow saline temperature, ablation rate (mass/sec), and ablation efficiency (grams/deg C) were determined. Single factor Analyses of Variance were used to compare mean values among the three systems with statistical significance assumed at $p \leq 0.05$.



RESULTS:



CLINICAL RELEVANCE:

- There is no significant difference in outflow temperature between the Stryker system and the two competitive RF energy systems tested.
- The Stryker system produced equal or higher mass ablation rates than the two competitive RF energy systems tested, meaning that tissue resection can be achieved fast, which may help shorten surgical time
- The Stryker system produced equal or higher ablation efficiency compared to the two competitive RF energy systems tested, meaning that tissue resection is achieved with little temperature increase.



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Reference:

1. Stryker DHFD11973 Rev D August, 2015

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