CRF

RADIOFREQUENCY ABLATION SYSTEM

Optimized to achieve large spherical ablation zones rapidly and reproducibly using a single cost-effective electrode.¹







CAMBRIDGE INTERVENTIONAL

CRF GENERATOR POWERFUL AND EASY TO USE



LARGE RAPID SPHERICAL REPRODUCIBLE ABLATION VOLUMES^{1,2}

1. Ben-David E,

Nissenbaum I, Gurevich S, Cosman ER Jr & Goldberg SN. Optimization and characterization of a novel internally-cooled radiofrequency ablation system with optimized pulsing algorithm in an ex-vivo bovine liver. International Journal of Hyperthermia 2019; 36(2):81-88.



CRF ELECTRODES VERSATILE AND COST EFFECTIVE





Stock inexpensive introducers with a variety of tip lengths Biopsy through introducer before ablation Sequentially ablate via multiple introducers using a single electrode

RFA INNOVATION SINCE 1952



1971 AANS: Bernard J Cosman, MS (MIT) founded Radionics[®] and was the first to market an RF generator in 1952. MIT Professor Eric R Cosman, Sr, PhD, developed the Cool-tip[®] RFA system for tumor ablation in the 1990's.⁷



2007 SIS: Prof. Cosman founded Cosman Medical⁷ in 2004 and invented myriad RFA devices for neurosurgery and pain. His son, Eric R Cosman, Jr, PhD (MIT) founded Cambridge Interventional and developed the CRF system.

INTENDED USE & REFERENCES

The CRF radiofrequency ablation system is intended for use in percutaneous, laparoscopic and intraoperative coagulation and ablation of tissue. Read the Instructions for Use before use. Radiofrequency ablation is a well-established and reproducible method for performing percutaneous, minimally invasive, thermal ablation of neoplastic disease.¹ Below are selected literature current at the time of this publication.

- 1. Ben-David E, Nissenbaum I, Gurevich S, Cosman ER Jr & Goldberg SN. Optimization and characterization of a novel internally-cooled radiofrequency ablation system with optimized pulsing algorithm in an ex-vivo bovine liver. International Journal of Hyperthermia 2019; 36(2):81-88.
- 2. Shown are average ellipsoidal ablation zone sizes generated using the CRF system in bovine liver ex vivo at nominal initial temperature 20°C. Ablation size and shape may differ clinically and lead to incomplete treatment or unintended damage to nearby structures.
- 3. Gillams AR, Lees WR. Radiofrequency ablation of colorectal liver metastases in 167 patients. Eur Radiol. 2004 Dec;14(12):2261-7.
- 4. Goldberg S, Gazelle G. Thermal ablation therapy for focal malignancy: A unified approach to the underlying principles, techniques, and diagnostic imaging guidance. AJR. 2000: 174(2): 323-31.
- 5. Peyser A, Applbaum Y, Khoury A, Liebergall M, Atesok K. Osteoid osteoma: CT-guided radiofrequency ablation using a water-cooled probe. Ann Surg Oncol. 2007 Feb;14(2):591-6.
- Solbiati L, Livraghi T, Goldberg SN, Ierace T, Meloni F, Dellanoce M, Cova L, Halpern EF, Gazelle GS. Percutaneous radiofrequency ablation of hepatic metastases from colorectal cancer: long-term results in 117 patients. Radiology. 2001 Oct;221(1):159-66.
- 7. Radionics^{*} is a trademark of Integra. Cool-tip^{*} is a trademark of Covidien AG. Cosman Medical LLC is owned by Boston Scientific. No affiliation with, or endorsement by, these companies is implied.



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