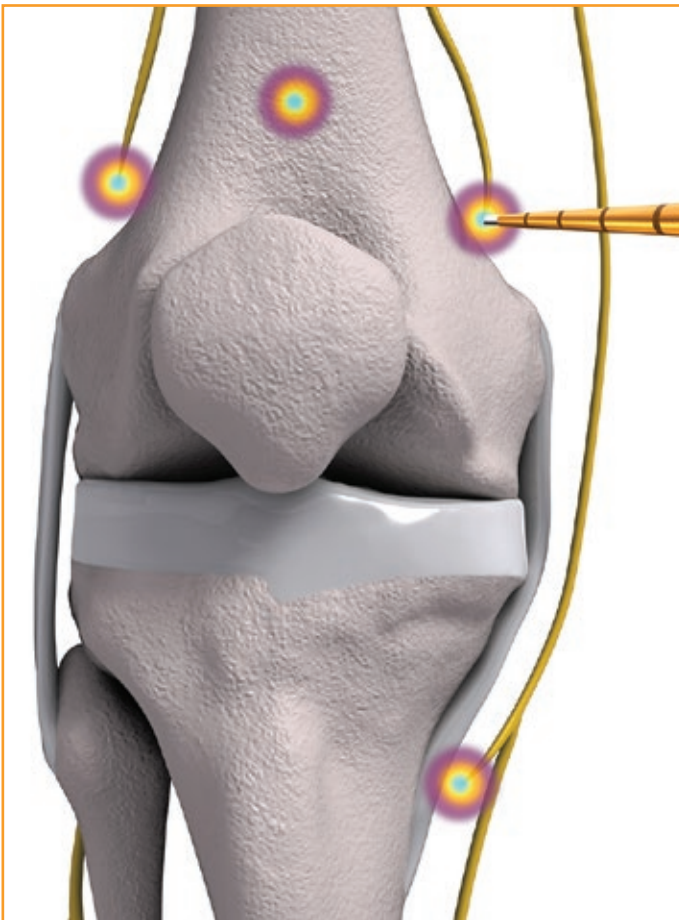


AVANOS

COOLIEF* KNEE
Cooled Radiofrequency

A NON-SURGICAL, NON-NARCOTIC PROCEDURE FOR CHRONIC KNEE PAIN



Chronic knee osteoarthritis (OA) is one of the most common diseases of advanced age. With up to 20 million adults in the US suffering from OA of the knee¹, close to 700,000 cases progress to total knee joint replacement.² However, there exists a large demographic of chronic joint pain patients who are not candidates for invasive procedures due to BMI, age and other comorbidities.

Alternative therapies such as arthroscopic debridement or injections are associated with less than optimal clinical outcomes.

COOLIEF* COOLED RADIOFREQUENCY

- Clinical studies of COOLIEF* Cooled RF addressing other sources of pain have demonstrated up to **24 months pain relief** with improved physical function and a reduction in paid medication usage.³
- Is designed to treat complex anatomy of variable nerve courses through the creation of large volume, spherical lesions.
- Potentially reduces the amount of time and fluoroscopic exposure through straightforward, familiar placement techniques.

COOLIEF* KNEE COOLED RADIOFREQUENCY

Fortunately, the same revolutionary COOLIEF* Cooled RF Pain Management System with documented pain relief in segments of the spine is now available to target other origins of chronic pain.



NON-SURGICAL. MINIMALLY-INVASIVE. NON-NARCOTIC.

COOLIEF[®] Cooled RF is a non-surgical, minimally-invasive, non-narcotic solution for chronic knee pain. Because it can be performed in an outpatient setting, patients have the potential to return to an enhanced quality of life much sooner than with surgery – and with a reduced need for narcotics.³

Studies show that when COOLIEF[®] Cooled RF is performed on other joints with osteoarthritis:

- Physical function is significantly improved⁴
- Pain and disability are decreased⁴
- Drug utilization is reduced⁴



COOLIEF[®] COOLED RF FOR CHRONIC CERVICAL PAIN

Anatomically tailored cooled RF system offering relief in the cervical region by delivering large volume lesions where anatomy and nerve path are variable.



COOLIEF[®] COOLED RF FOR CHRONIC LUMBAR BACK PAIN

Large volume, anatomy-specific lesion using perpendicular approach encompasses the medial branch nerve in one pass, eliminating the need for multiple passes.



COOLIEF[®] SINERGY[®] COOLED RF FOR CHRONIC SACROILIAC JOINT PAIN

Large volume lesions ablate the variable target neural structures between the posterior sacral foramina and the painful SI joint.



COOLIEF[®] COOLED RF FOR CHRONIC THORACIC FACET PAIN

Large volume lesion size and position compensate for the variable course of the medial branch nerve, especially in the mid-thoracic levels.



COOLIEF[®] TRANSDISCAL[®] COOLED RF FOR DISCOGENIC BACK PAIN

For intervertebral disc biacuplasty, bipolar probe placement straight into the disc creates large, reproducible lesion within a significant volume of the disc.



COOLIEF[®] COOLED RF FOR CHRONIC HIP JOINT PAIN

Now available to target and treat sensory branches of the obturator and femoral nerves innervating the hip joint.

COOLIEF[®] COOLED RF PAIN MANAGEMENT SYSTEM

PRODUCT CODE	DESCRIPTION	PACKAGING
PMG-ADVANCED	COOLIEF [®] Cooled RF Generator, Advanced Model	1/each
TDA-PPU-1	COOLIEF [®] Cooled RF Pain Management Pump Unit	1/each
CRX-BAY-CRP	COOLIEF [®] Cooled RF System Connector Cable	1/each
TDX-PMG-PPU	COOLIEF [®] Cooled RF System Pump Connector Cable	1/each
CRX-BAY-MCRF	COOLIEF [®] Multi-Cooled RF Module	1/each
PMA-GP-BAY	Grounding Pads	1/each

COOLIEF[®] COOLED RF PROBE KITS

Disposable, sterile. Includes 17 gauge introducer and tube kit. Probes and introducers also available separately.

PRODUCT CODE	DESCRIPTION	PACKAGING
CRK-17-50-2	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 50 mm, 2 mm Active Tip	1/each
CRK-17-50-4	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 50 mm, 4 mm Active Tip	1/each
CRK-17-75-2	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 75 mm, 2 mm Active Tip	1/each
CRK-17-75-4	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 75 mm, 4 mm Active Tip	1/each
SIK-17-75-4	COOLIEF [®] SINERGY [®] Sacroiliac Cooled RF Probe Kit, 17 gauge, 75 mm, 4 mm Active Tip	1/each
CRK-17-75-5.5	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 75 mm, 5.5 mm Active Tip	1/each
CRK-17-100-4	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 100 mm, 4 mm Active Tip	1/each
CRK-17-150-4	COOLIEF [®] Cooled RF Probe Kit, 17 gauge, 150 mm, 4 mm Active Tip	1/each
SIK-17-150-4	COOLIEF [®] SINERGY [®] Sacroiliac Cooled RF Probe Kit, 17 gauge, 150 mm, 4 mm Active Tip	1/each
TDK2-17-150-6	COOLIEF [®] TRANSDISCAL [®] Cooled RF Probe Kit, 17 gauge, 150 mm, 6 mm Active Tip	1/each

COOLIEF[®] MULTI-COOLED RF KITS

PRODUCT CODE	DESCRIPTION	PACKAGING
MCK2-17-75-4	COOLIEF [®] Multi-2 Cooled RF Kit, 17 gauge, 75 mm, 4 mm Active Tip	1 Kit
MCK3-17-75-4	COOLIEF [®] Multi-3 Cooled RF Kit, 17 gauge, 75 mm, 4 mm Active Tip	1 Kit
MCK2-17-100-4	COOLIEF [®] Multi-2 Cooled RF Kit, 17 gauge, 100 mm, 4 mm Active Tip	1 Kit
MCK3-17-100-4	COOLIEF [®] Multi-3 Cooled RF Kit, 17 gauge, 100 mm, 4 mm Active Tip	1 Kit

“Although severe knee osteoarthritis with refractory pain is commonly treated surgically, this is often not an option for patients with poor health status or unwillingness to undergo major surgery.”⁵

1 www.CDC.gov/arthritis/osteoarthritis.htm

2 MedTech Insights: U.S. Market for Joint Replacement and Reconstruction, June 2011.

3 Stelzer W. MD, Use of Radiofrequency Lateral Branch Neurotomy for the Treatment of Sacroiliac Joint-Mediated Low Back Pain: A Large Case Series. Pain Medicine, 2013 Jan (1)29-35.

4 Masahiko Ikeuchi, MD, PhD, et al. Percutaneous Radiofrequency Treatment for Refractory Anteromedial Pain of Osteoarthritic Knees. Pain Medicine, 2011; 12: 546-551.

5 W.-J. Choi et al. Radiofrequency treatment relieves chronic knee osteoarthritis pain: A double-blind randomized controlled trial. PAIN: Journal of the International Association for the Study of Pain; 152 (2011) 481-487.

From the UK & IE, please call Avanos
at 0800 917 65 85 - fax 0800 169 02 35
or send an email to customerservice.uk.ie@avanos.com

From all other countries, please call Avanos
at +32 2 700 68 51 - fax +32 2 711 26 91
or send an email to customerservice.export@avanos.com

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