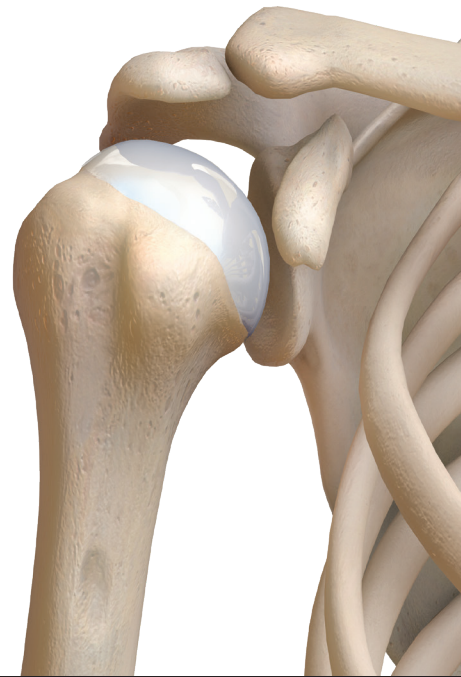
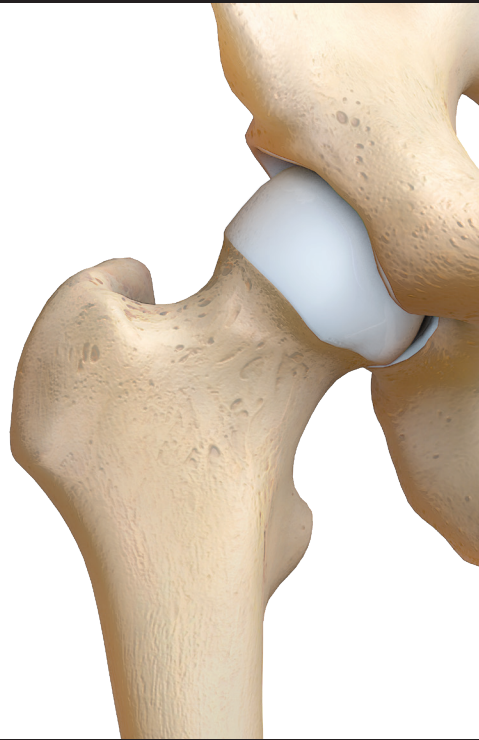
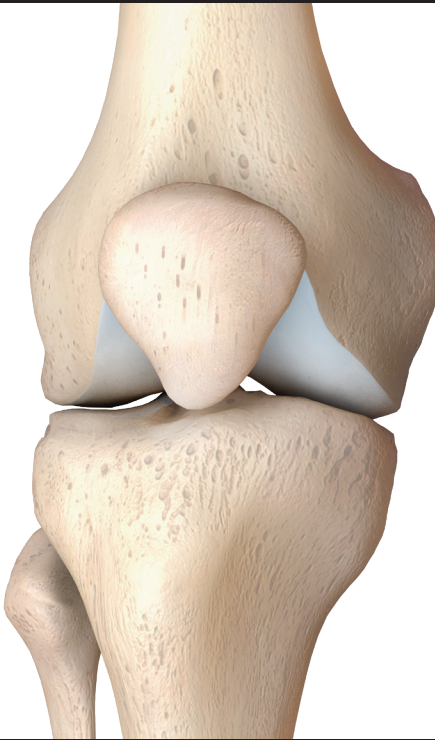


# FIRST AND ONLY CLINICALLY PROVEN COOLED RADIOFREQUENCY (RF) TREATMENT FOR CHRONIC KNEE, HIP AND SHOULDER PAIN



PROVEN BY **LEVEL I**  
EVIDENCE IN  
MULTIPLE MODALITIES



LONG-LASTING  
CHRONIC PAIN RELIEF



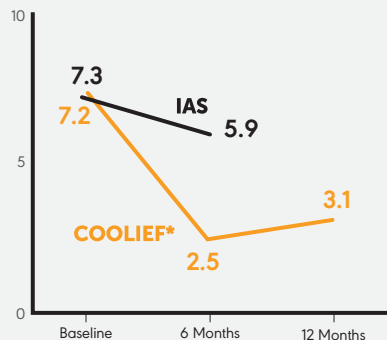
MINIMALLY INVASIVE



NON-OPIOID

# COOLIEF\* COOLED RADIOFREQUENCY (RF): LARGE PROSPECTIVE, RANDOMIZED, MULTI-CENTER STUDY ANALYZING 151 PATIENTS OVER A 12-MONTH PERIOD

## NRS PAIN SCORE<sup>1</sup>



**Six months post-procedure, patients reported  $\geq 50\%$  pain relief:**

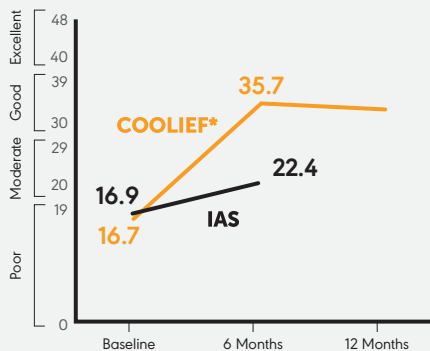
- 74% of COOLIEF\* group
- 16% of intra-articular steroid (IAS) group

**12 months post-procedure, 65% of COOLIEF\* Cooled RF patients reported  $\geq 50\%$  pain relief.**

- 85% of the IAS group switched to COOLIEF\* Cooled RF at 6 months

The 11-point NRS consists of a scale from "0" to "10" points, with "0" indicating "no pain" and "10" being "worst pain imaginable". A treatment "responder" experienced a clinically-significant change in pain indicated by an NRS score decrease  $\geq 50\%$  relative to the respective baseline.

## OXFORD KNEE SCORE<sup>1</sup>



**At baseline, patients reporting severe OA:**

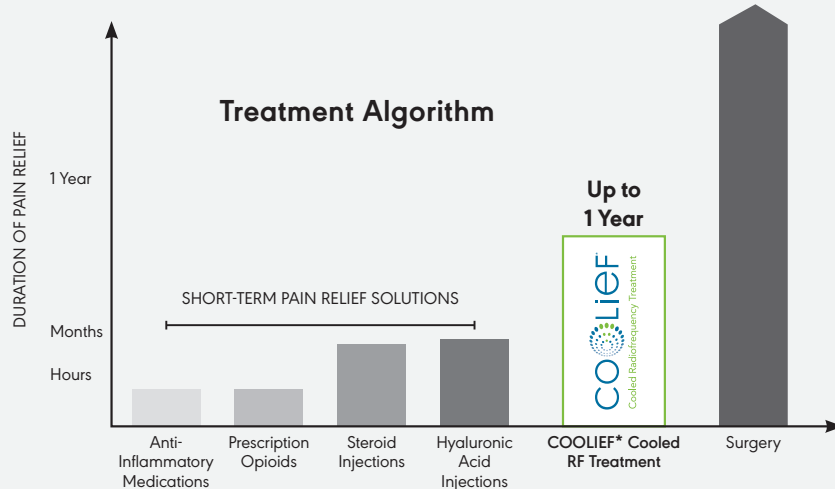
- 67% of the COOLIEF\* Cooled RF group
- 63% of the IAS group

**6 months post-procedure, patients reporting severe OA:**

- 5% of the COOLIEF\* Cooled RF group
- 37% of the IAS group

OKS measured study subjects' knee function based on a scale from 0 to 48 points, with knee arthritis becoming less severe as score values increase.

## COOLIEF\* Cooled RF Fills The Gap Between Short-Term Pain Relief And Surgery



**Compared to intra-articular steroid injections, COOLIEF\* Cooled RF demonstrated improved:**

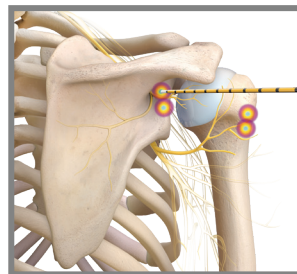
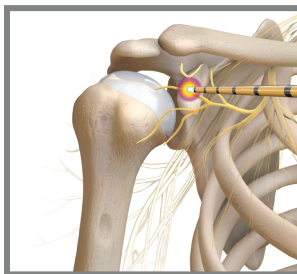
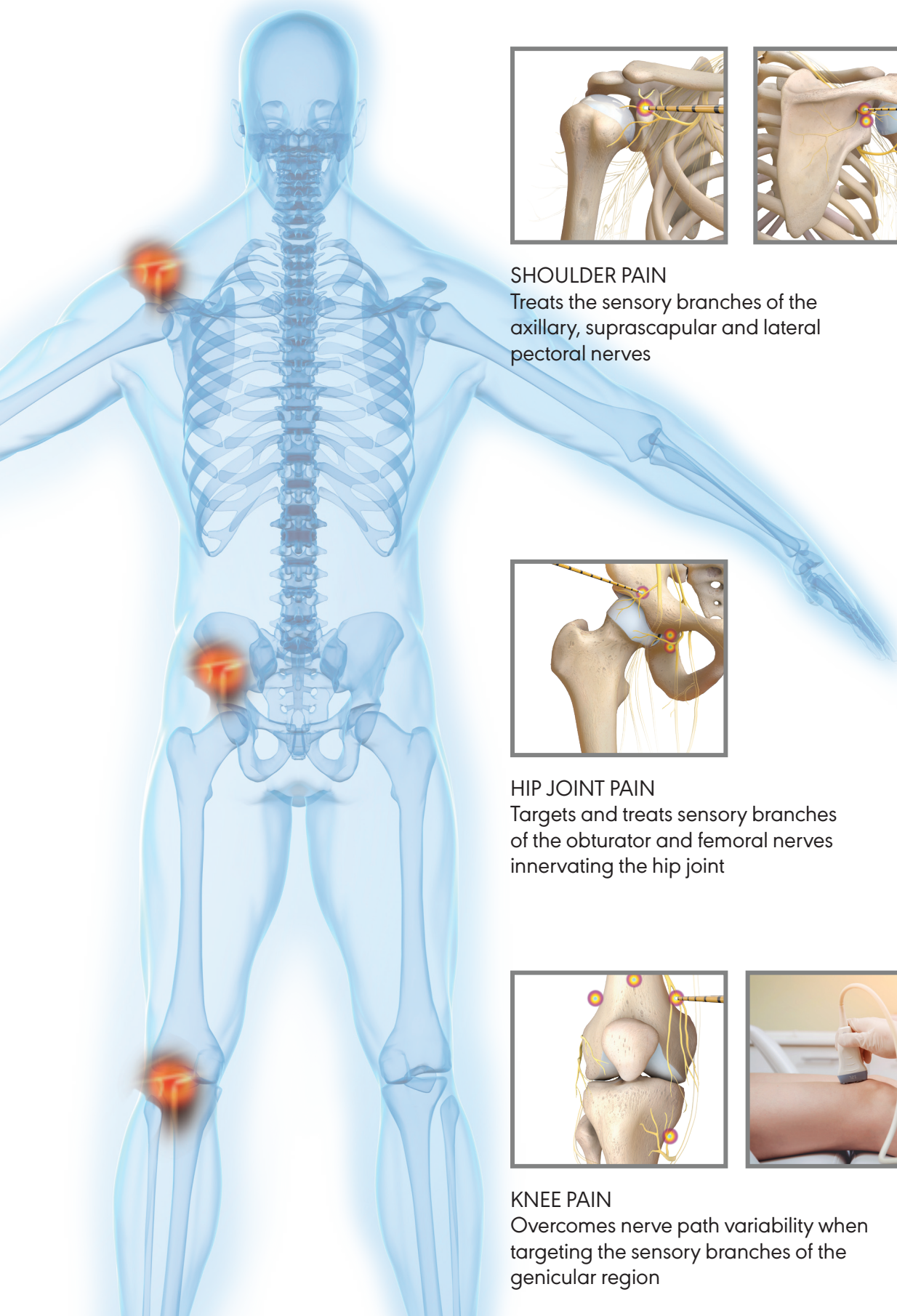
- Pain relief
- Functionality
- Patient satisfaction

**GET YOUR PATIENTS  
BACK TO THE THINGS  
THAT MATTER**

Learn more about how COOLIEF\* Cooled RF can fit into your treatment algorithm for chronic pain patients.

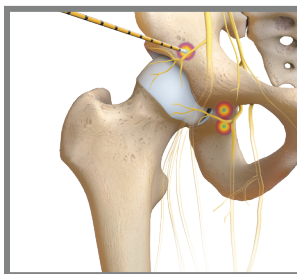
[extendpainrelief.com](http://extendpainrelief.com)

# TARGETED TREATMENT WITH COOLIEF\* COOLED RF



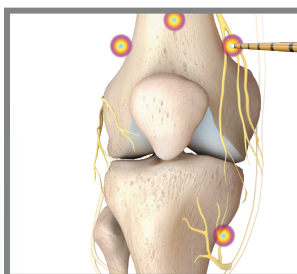
## SHOULDER PAIN

Treats the sensory branches of the axillary, suprascapular and lateral pectoral nerves



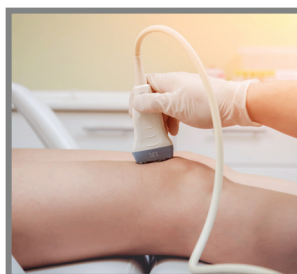
## HIP JOINT PAIN

Targets and treats sensory branches of the obturator and femoral nerves innervating the hip joint



## KNEE PAIN

Overcomes nerve path variability when targeting the sensory branches of the genicular region



## COOLIEF\*

Cooled RF for osteoarthritis knee pain can be performed under fluoroscopy and/or ultrasound.

## HOW COOLIEF\* COOLED RF WORKS

A radiofrequency generator transmits a small current of RF energy through an insulated electrode placed percutaneously

The electrode delivers water-cooled energy through RF electrodes

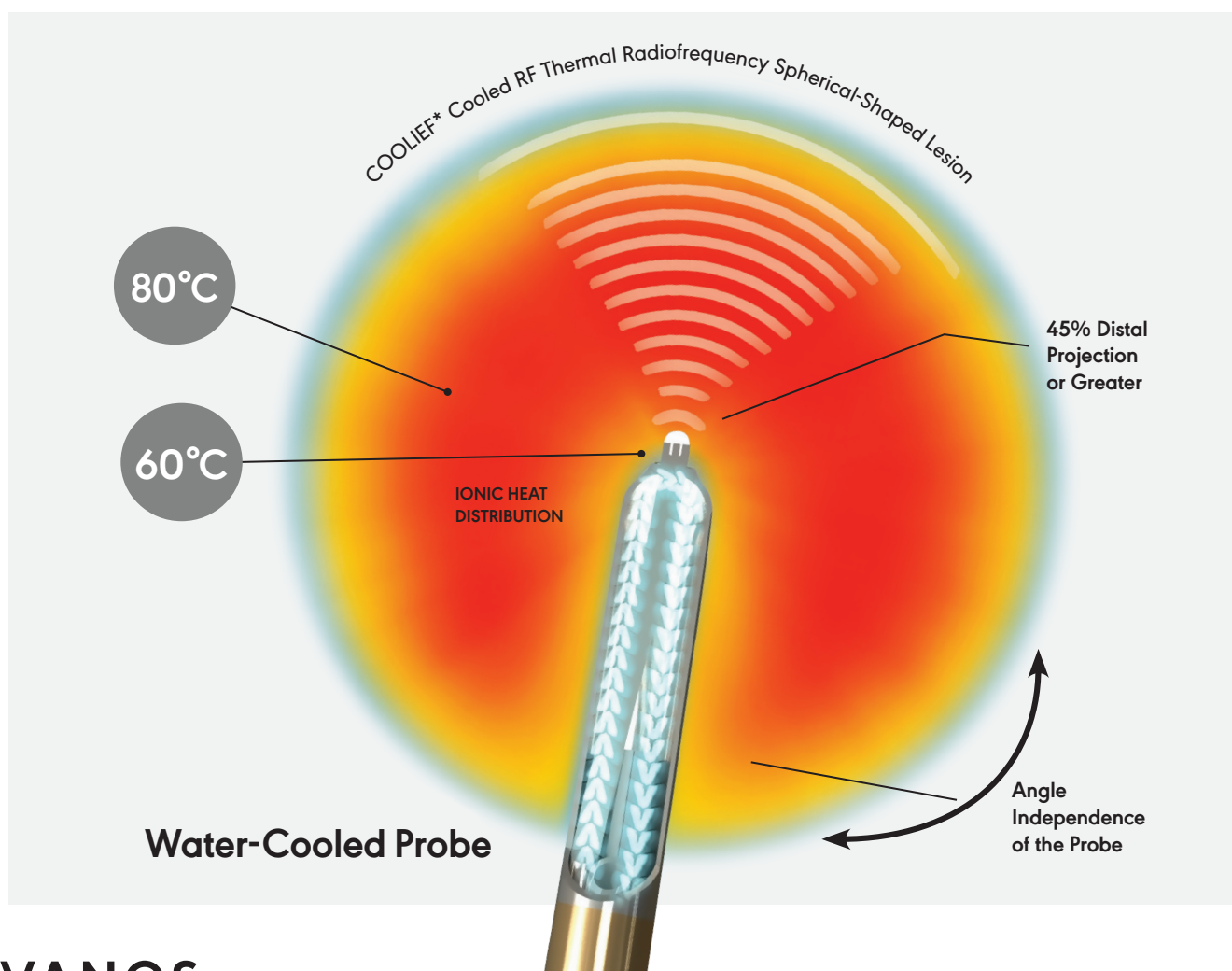
This RF energy creates a targeted lesion that ablates and deactivates the sensory nerves responsible for sending pain signals to the brain while leaving motor nerves intact to preserve function

1

The spherical shape of the Cooled RF lesion allows for perpendicular, oblique or parallel approaches towards the target structure

2

3



**AVANOS**

1. Davis T. Study: Cooled RF Ablation Superior to Corticosteroids in Knee Osteoarthritis. *Pain Medicine News* 2017 Feb.

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