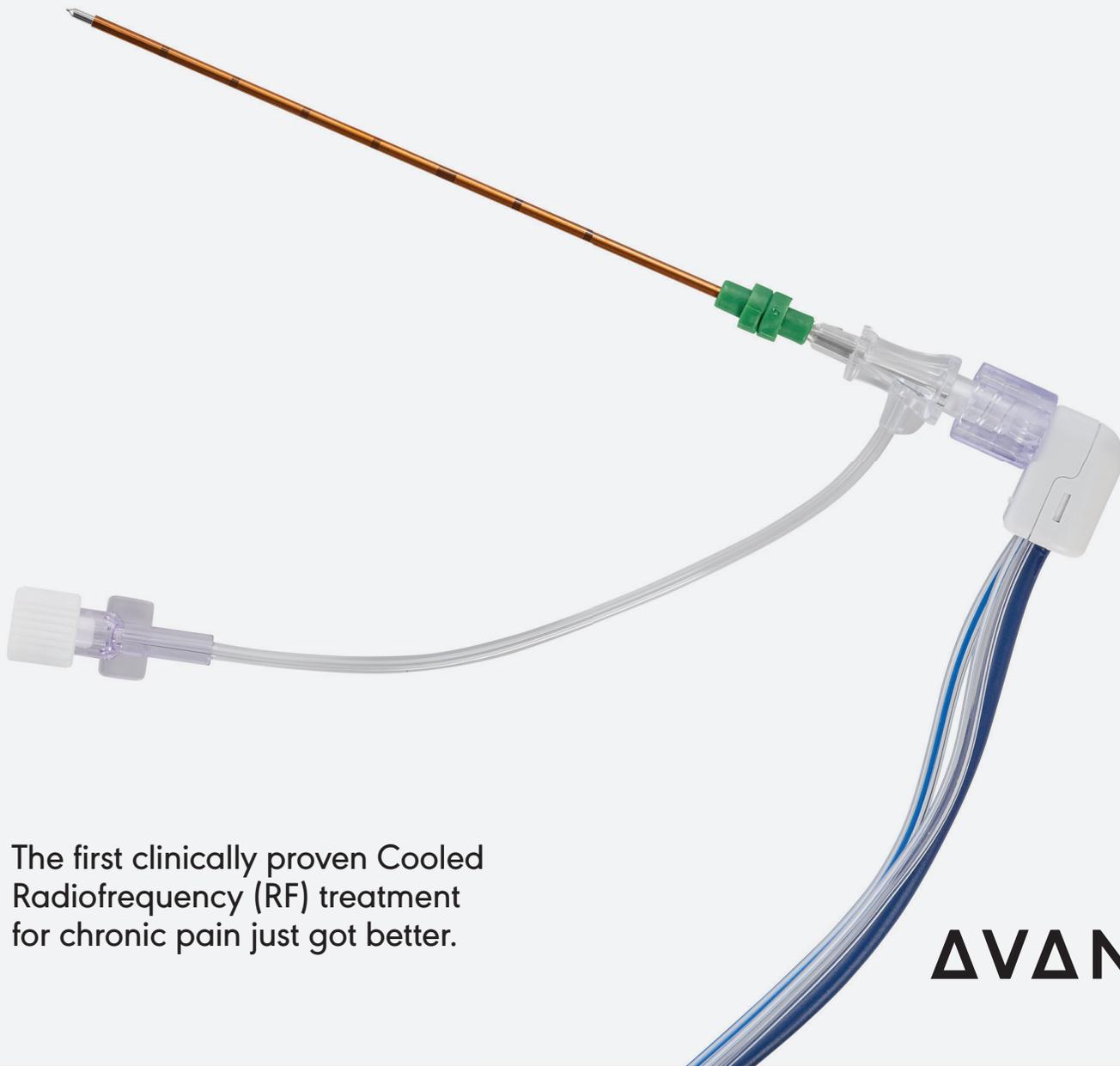


# Tackle chronic pain from a new angle.

Introducing COOLIEF\*  
Cooled RF Probes Advanced.



The first clinically proven Cooled  
Radiofrequency (RF) treatment  
for chronic pain just got better.

**AVANOS**

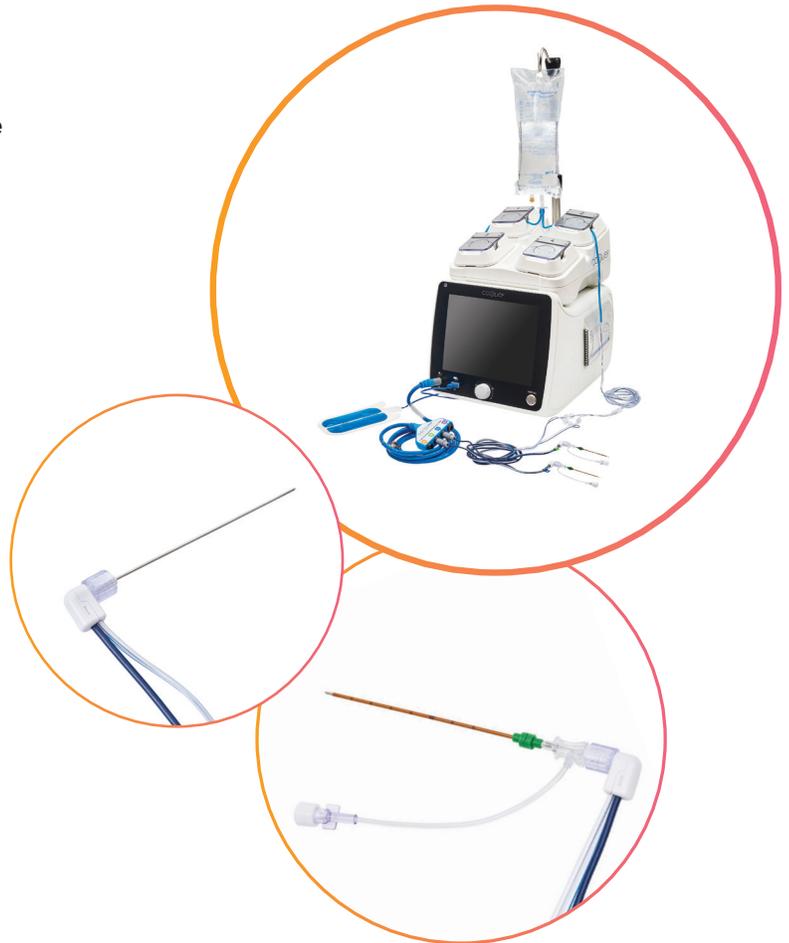
# A product portfolio that understands pain management.

## BACKWARDS AND FORWARDS COMPATIBILITY, BECAUSE IT'S EASIER THAT WAY.

Seamlessly integrate existing COOLIEF\*-compatible products – including introducers, generators and pumps – with the newly designed COOLIEF\* Cooled RF Probe Kits Advanced.

## INSTILLING FLUIDS WHILE MAINTAINING PROBE PLACEMENT.

All COOLIEF\* Cooled RF Kits Advanced include the COOLIEF\* Fluid Delivery Introducer (FDI), a tethered port attached to the introducer that reduces repositioning. After target placement has been confirmed through fluoroscopy, you will no longer need to remove the probe to instill fluids.



## GAME-CHANGING OPTIMIZATION THAT IMPACTS THE EVERYDAY. THE COOLIEF\* COOLED RF PROBE KITS ADVANCED CAN:



**Maximize time** with newly designed fluid tubing kits that can be set up before the COOLIEF\* specialist arrives



**Free up shelf space** courtesy of streamlined COOLIEF\* Probe Kit Advanced packaging



**Assist organization** via bundled COOLIEF\* Probe electrical cables and fluid tubing



**Help identify probes** easily with channel ID labels that match the probes to the corresponding RF generator channels

# 90-degree angle. Lighter weight. Enhanced design that's inspired by you.

The new COOLIEF\* Cooled RF Probes Advanced have a 90° handle that can give you even more control. And the new COOLIEF\* Probes weigh 30 percent less, which means minimized movement while you work.

## PRECISION WHEN IT'S MOST IMPORTANT. THE NEXT-GENERATION COOLIEF\* PROBES ADVANCED CAN:



Reduce the risk of interference with a C-Arm due to a shorter 90° handle



Create lesions equivalent in size and shape to those created by the legacy COOLIEF\* Cooled RF Probes



Aid in the visualization and confirmation of probe tips via a fluoromarker



Use standard sterile water, saline or Lactated Ringer's IV bags

FIG 1: CRP PROBE (TOP) vs CRPA PROBE (BOTTOM)

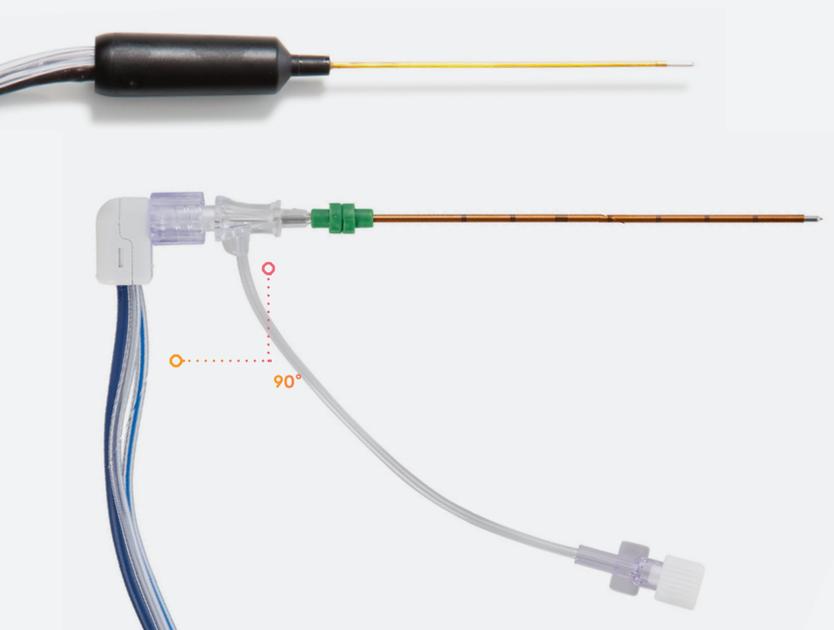


FIG 2: CRPA AND FDI PRODUCTS DURING A KNEE PROCEDURE



# Intuitive usability, from generator to probe.

The COOLIEF\* RF System's innovative design simplifies ablation. It performs cooled, standard and pulsed RF and is comprised of a newly designed RF generator, peristaltic pump and therapy cables.



**80 W generator** performs cooled, standard (including single and dual bipolar), pulsed and transdiscal\* procedures



**Intuitive touchscreen interface** with procedure countdown timer



**Independent channel control** allows staggered start, stop and adjustment of four independent channels. Adjust time and temperature in cooled and standard modes without impacting other channels



**Easily accessible procedure summary** and clinical logs

## TREAT CHRONIC PAIN AT THE SOURCE WITH COOLIEF\* KITS AND PRODUCTS.

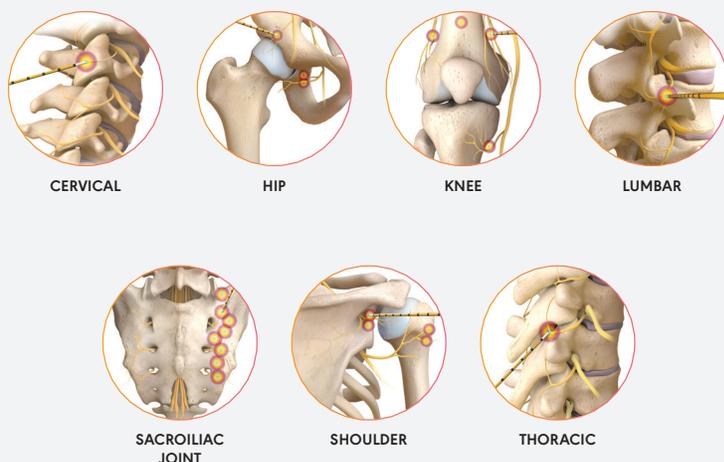
Product Description	Legacy COOLIEF* Code	New COOLIEF* Advanced Code
<b>NEW! COOLIEF* Cooled RF Kits Advanced</b> Probes: 17 Gauge Probes available in 50 mm, 75 mm, 100 mm and 150 mm. Active Tips: 2 mm, 4 mm, 5.5 mm active tips available for multiple modalities. Kits: All kits are disposable and sterile. Each kit includes one 17 gauge COOLIEF* Probe, three COOLIEF* Fluid Delivery Introducers and COOLIEF* Fluid Tubing Kit. Sold Separately: Probes, fluid delivery introducers and fluid tubing kits are also available separately.	CRK-17-50-2	CRKA-17-50-2
	CRK-17-50-4	CRKA-17-50-4
	CRK-17-75-2	CRKA-17-75-2
	CRK-17-75-4	CRKA-17-75-4
	CRK-17-75-5.5	CRKA-17-75-5.5
	CRK-17-100-4	CRKA-17-100-4
	CRK-17-150-4	CRKA-17-150-4
	SIK-17-75-4	SIKA-17-75-4
	SIK-17-150-4	SIKA-17-150-4
	<b>NEW! COOLIEF* Multi-Cooled RF Kits Advanced</b> All kits are disposable and sterile. Each kit includes two or three 17 gauge COOLIEF* Probes, four or six COOLIEF* Fluid Delivery Introducers and one or two COOLIEF* Fluid Tubing Kits.	MCK2-17-50-4
MCK2-17-75-2		MCKA2-17-75-2
MCK2-17-75-4		MCKA2-17-75-4
MCK2-17-75-5.5		MCKA2-17-75-5.5
MCK2-17-100-4		MCKA2-17-100-4
MCK2-17-150-4		MCKA2-17-150-4
MCK3-17-50-2		MCKA3-17-50-2
MCK3-17-50-4		MCKA3-17-50-4
MCK3-17-75-2		MCKA3-17-75-2
MCK3-17-75-4		MCKA3-17-75-4
<b>NEW! COOLIEF* Probes Advanced and Accessories</b>	MCK3-17-100-4	MCKA3-17-100-4
	MCK3-17-150-4	MCKA3-17-150-4
	CRP-17-50	CRPA-17-50
	CRP-17-75	CRPA-17-75
	CRP-17-100	CRPA-17-100
	CRP-17-150	CRPA-17-150
	TDA-TBK-1	CRA-TBK-1
N/A - New Code	CRA-TBK-2	

# Target chronic pain modalities with COOLIEF\* Cooled Radiofrequency.

Provide your patients relief, where and how they need it. COOLIEF\* Cooled RF Kits Advanced are offered in appropriately sized active tips, so you can achieve desired lesion sizes - including 2 mm, 4 mm and 5.5 mm.

## WHY USE COOLIEF\* COOLED RADIOFREQUENCY?

The COOLIEF\* Cooled Radiofrequency treatment is the leading minimally invasive and non-narcotic RF procedure. It's specifically designed to treat variable nerve courses with water-cooled technology,<sup>1</sup> creating larger, spherical lesions that can distally project 45 percent or greater beyond the probe's tip. Approach targeted nerves from any angle with increased likelihood of successful ablation.



**Effective chronic pain relief for up to 24 months<sup>2</sup>**



**83% pain reduction in severe symptoms one year after treatment**



**Proven by level I evidence in multiple modalities**



**250,000+ patients treated with COOLIEF\* Cooled RF in the last 5 years**



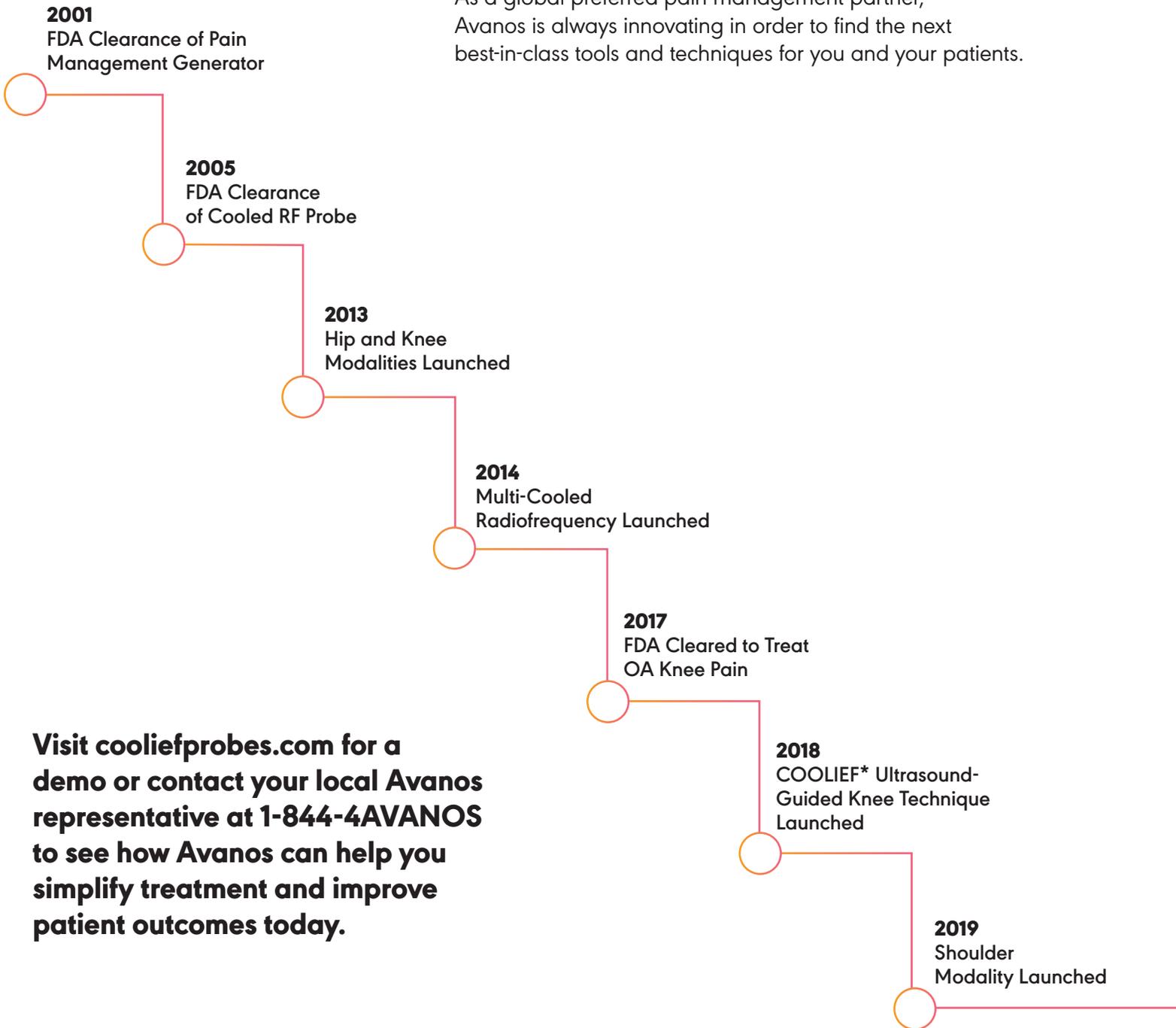
**Delivers up to 3.7X more energy than Standard RF**

<sup>1</sup> The "Cooled RF Set Temp" (Default Setting T = 60°C) displayed on the COOLIEF\* RF Generator refers to the cooled electrode temperature and does not reflect the immediate surrounding tissue temperature. The heat generated from the radiofrequency energy produces thermal energy with average maximum tissue temperatures greater than 80°C.

<sup>2</sup> Ho KY, et al. Cooled radiofrequency denervation for treatment of sacroiliac joint pain: two-year results from 20 cases. Journal of Pain Research. 3 July 2013.6;505-11

# Challenging the status quo. It's the Avanos legacy.

As a global preferred pain management partner, Avanos is always innovating in order to find the next best-in-class tools and techniques for you and your patients.



**Visit [cooliefprobes.com](http://cooliefprobes.com) for a demo or contact your local Avanos representative at 1-844-4AVANOS to see how Avanos can help you simplify treatment and improve patient outcomes today.**