

## **A Straightforward Solution for Difficult Discogenic Pain**

Intervertebral discogenic pain is a major source of axial lower back pain. Thought to be related to nociceptors in the disrupted disc, discogenic pain that does not respond to conservative treatment can be frustratingly difficult to treat with few alternatives available.<sup>1,2</sup>

For symptomatic patients suffering from discogenic pain, the KIMBERLY-CLARK\* TRANSDISCAL\* Cooled RF System uses a bi-polar approach for intervertebral disc biacuplasty to create a large, reproducible lesion in the posterior and posterolateral annulus. Using revolutionary cooling technology, the dual cooled RF probes coagulate and deactivate nerves in a large volume of the posterior of the disc without risk of excessive heating of tissue.

- Electrodes are inserted straight inside the disc under fluoroscopy via an introducer for ease of placement, eliminating the challenge of navigating precise placement of a flexible catheter against or between the posterior annular wall.
- Impedance monitoring assists in identifying annulus and nucleus for confident placement.
- TRANSDISCAL\* System enables the latest advancement in disc biacuplasty—placement of two additional monopolar lesions to help ensure denervation of the entire posterior of the disc (*available with advanced generator model, V.4*).
- In a pilot trial, after six months follow up, most patients demonstrated substantial and statistically significant improvements in pain scores and functional capacity post-procedure throughout six months of observations.<sup>2</sup> Patients who benefit from disc biacuplasty may avoid invasive surgical procedures.<sup>2</sup>

***“The advantages of this technique are in relative ease of placement of bipolar electrodes. Cooled RF electrodes may increase the lesion size and facilitate ablation compared to standard RF electrodes.”<sup>1</sup>***

*Kapural & Mekhail, Pain Practice, 2007*

KIMBERLY-CLARK\* Cooled RF Pain Management System is a revolution in radiofrequency technology – giving physicians the power of targeted treatment for symptomatic patients, even in difficult to treat spine anatomy.



**Kimberly-Clark**

*Trusted Clinical Solutions\**



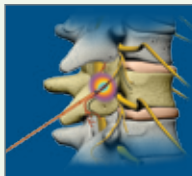
**LUMBARCOOL\* System for lumbar z-joint pain**

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



**SINERGY\* System for sacroiliac joint syndrome**

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



**THORACOOL\* System for thoracic facet joint pain**

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



**TRANSDISCAL\* System for discogenic pain**

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

**KIMBERLY-CLARK\* Cooled RF Pain Management System**

Code	Description	Packaging
PMG-115-TD	RF Generator, Advanced Model	1 /each
TDA-PPU-1	Pain Management Pump Unit	1 /each
CRX-BAY-CRP	Cooled RF System Connector Cable	1 /each
TDX-PMG-PPU	Cooled RF System Pump Connector Cable	1 /each
CRX-BAY-MCRF	Multi-Cooled RF Module	1 /each
TDX-Y-TSW-TDP2	TRANSDISCAL* Y-Connector Cable	1 /each

**KIMBERLY-CLARK\* Cooled RF Probe Kits**

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

Code	Description	Packaging
LUK-17-150-4	LUMBARCOOL* Probe Kit, 17 gauge, 150 mm	1 /each
SIK-17-75-4	SINERGY* Probe Kit, 17 gauge, 75 mm	1 /each
SIK-17-150-4	SINERGY* Probe Kit, 17 gauge, 150 mm	1 /each
THK-17-75	THORACOOL* Probe Kit, 17 gauge, 75 mm	1 /each
TDK2-17-150-6	TRANSDISCAL* Probe Kit, 17 gauge, 150 mm	1 /each

**The KIMBERLY-CLARK ADVANTAGE\***

KNOWLEDGE NETWORK\* Clinical Education  
On-site Clinical Support  
Certified Sales Representatives  
Tools & Best Practices  
Clinical Research  
Commitment to Excellence  
Infection prevention website:

[www.HAIwatch.com](http://www.HAIwatch.com)



For more information about KIMBERLY-CLARK\* Cooled RF System, contact your representative, call 1-800-KCHELPS (1-800-524-3577) in the United States or visit our website at [www.kchealthcare.com/pmsolutions](http://www.kchealthcare.com/pmsolutions)

<sup>1</sup>Kapural, L. and Mekhail, N. Novel intradiscal biacuplasty (IDB) for the treatment of lumbar discogenic pain, Pain Practice, 2007, V. 7, issue 2, 130-134.

<sup>2</sup>Kapural, L., Ng, A., Dalton, J., Mascha, E., Kapural, M., De la Garza, M. and Mekhail, N. Intervertebral disc biacuplasty for the treatment of lumbar discogenic pain: results of a six-month follow-up. Pain Medicine, 2008, V. 9, no. 1.

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