

About COOLIEF*

- COOLIEF* Cooled Radiofrequency Treatment is a minimally invasive and non-surgical outpatient procedure to target and treat the nerves causing chronic pain. This advanced procedure uses cooled radiofrequency energy to safely target the sensory nerves causing pain.
- Studies have demonstrated that cooled radiofrequency treatment can provide chronic back pain patients up to 24 months of pain relief, improved physical function and reduced use of pain medicines.^{1,2}
- COOLIEF* is manufactured by Halyard Health. Halyard Health is a medical technology company focused on advancing health and healthcare by delivering clinically-superior products and solutions in infection prevention, surgical solutions, respiratory health, digestive health, IV therapy and pain management.
- COOLIEF* Cooled Radiofrequency must be administered by a COOLIEF* - trained physician.

How COOLIEF* Works

- COOLIEF* circulates water through the device while heating nervous tissue to create a treatment area that is larger than conventional RF treatments. This combination targets the pain-causing nerves without excessive heating, leading to pain relief.
- Procedure time varies depending on the physician and the treatment needed, but according to physicians that have performed a COOLIEF* Cooled RF procedure, the actual treatment time is less than one hour.
- Unlike surgery, COOLIEF* involves no incision. Since this minimally invasive, outpatient treatment requires no general anesthesia, patients should be able to return home shortly after the treatment.

About Chronic Back Pain

- Four out of five adults in the United States experience chronic lower back pain³ and Americans spend at least \$50 billion each year trying to treat it.⁴
- Traditional treatments for chronic back pain include oral anti-inflammatory medications, steroid injections, physical therapy, standard radiofrequency ablation and joint fusion or other surgery.
- Medications do not effectively target nerves that cause pain and can lead to side effects such as nausea, grogginess, and addiction.
- Surgery can be beneficial in properly selected patients. However, due to BMI, age, other co-morbidities or invasiveness, surgery isn't for everyone.

¹ Stelzer W., Aiglesberger M., Stelzer D., Stelzer V., Use of Cooled Radiofrequency Lateral Branch Neurotomy for the Treatment of Sacroiliac Joint-Mediated Low Back Pain: A Large Case Series, Pain Medicine, January 2013, Volume 14, Issue 1, pages 29-25.

² 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.

³ Mayo Clinic. Back pain. April 15, 2002.

⁴ "Low Back Pain Fact Sheet." National Institute of Neurological Disorders and Stroke. NIH Publication, 2003. www.ninds.nih.gov