

## A NEW WAY TO FREEZE OUT POST-OPERATIVE PAIN.

Cryo Nerve Block (cryoNB) harnesses the power of cryotherapy to provide a new form of temporary pain relief for patients who undergo certain invasive cardiac or thoracic surgical procedures. This technology uses a unique freezing method to temporarily block pain signals from nerves in the affected area, providing an effect that's similar to a local anesthetic.

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**cryoSPHERE**<sup>®</sup>  
Provides Temporary  
Post-Operative Pain Relief



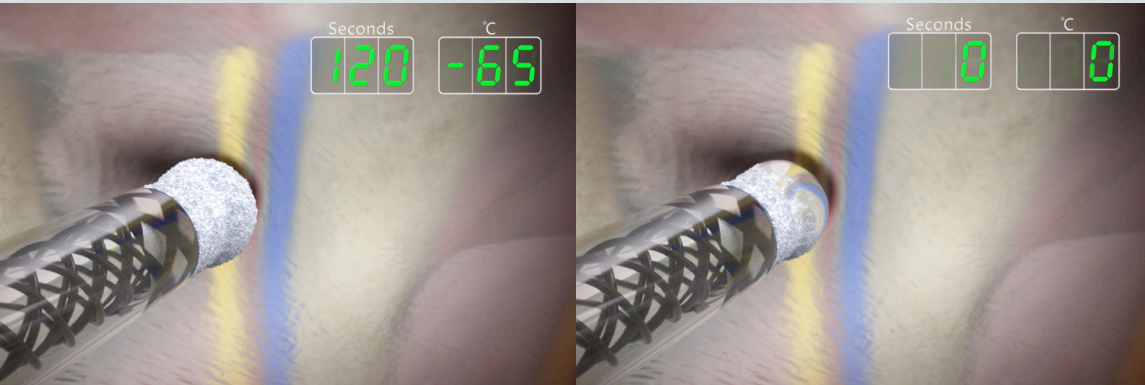
**The Coolest Innovation  
in Pain Management.**

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## HOW cryoNB WORKS.

### 1 / FREEZING THE NERVE

A surgical probe delivers extremely cold temperature to nerve tissue in the nerves around the surgical incision.



### 2 / STOPPING THE PAIN SIGNALS

Freezing blocks pain signals, which originate from a structure within the nerve called the axon. The axons subsequently degenerate while leaving the tubule structures (epineurium, perineurium, endoneurium) intact for the axons to regenerate within.

### 3 / REGENERATION AND RECOVERY

CryoNB blocks post-surgical pain for around one to three months, while allowing the axons to regenerate. Patients will typically experience numbness around the surgical incision during this time. Following regeneration, normal nerve function resumes.

## A NEW APPLICATION FOR A PROVEN TECHNOLOGY.

Cryotherapy was originally developed as a treatment for cardiac arrhythmias. AtriCure consulted with leading pain management experts to develop new techniques for applying cryoNB to nerves, specifically in order to block pain. AtriCure's cryoICE cryoSPHERE cryoablation probes are sterile, single use devices intended for use in blocking pain by temporarily ablating peripheral nerves.

