References Available at AtriCure.

EU Indications: AtriCure's cryoICE cryoSPHERE cryoablation probes are sterile, single use devices intended for use in blocking pain by temporarily ablating intercostal peripheral nerves.

Please review the Instructions for Use for a complete listing of contraindications, warnings, precautions and potential adverse events prior to using these devices.

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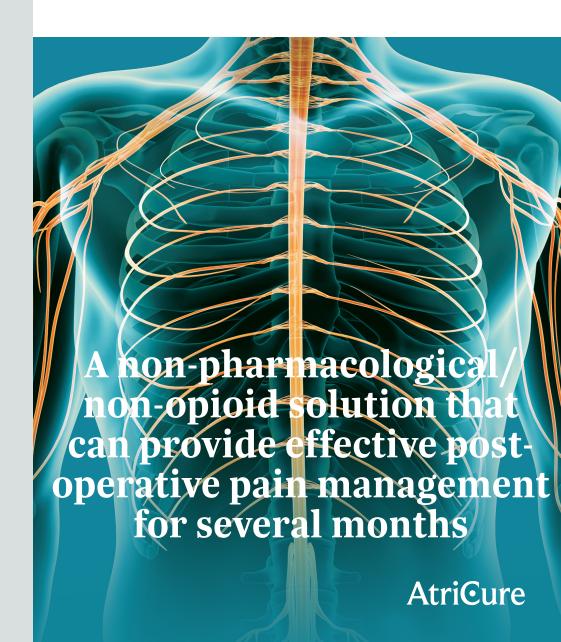
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CRYOSPHERE PROCEDURAL GUIDE



Cryo Nerve Block (cryoNB) Procedure

- 1 / BEND PROBE to ensure optimal placement on the intercostal nerve.
- 2 / LOCATE THE NERVE in the incisional intercostal space and place the probe on top of it. The ball tip of the probe should be in or walked slightly off the intercostal groove. Maintain gentle probe pressure on tissue throughout cryoablation. Do not move the probe during cryoablation.
- 3 / ABLATE at the margin of the membranous section of the intercostal muscle (Green Zone). Maintain a distance of at least 2 cm from the ganglia or 4 cm from the base of the spine to avoid the Red Zone.
- Cryoablation time should be performed for 120 seconds. The cryoSPHERE probe is designed to operate within the -50 to -70°C range, which should be verified during ablation.
- Five total ablations are recommended:
 two intercostal spaces above the incision,
 two below, and one at the level of the
 incision itself. Cryoablation above the 3rd
 intercostal space is not recommended due
 to proximity of the sympathetic trunk.
 Cryoablation below the 9th intercostal
 space may cause temporary abdominal
 muscle bulging. Avoid cryoablation of
 disturbed incision tissues.









- The therapeutic effect of cryoNB will be a function of location of the nerve ablation and not the length of actual nerve ablated.
 Degeneration of the nerve occurs from the cryoablation site to the end organ (towards the sternum).
- 4 / As an ablation cycle ends, the probe's

 ACTIVE DEFROST feature allows it to
 warm to ambient temperature. The probe
 should be movable without resistance
 once the frost disappears.
- **5 / POST-OPERATIVELY, REGENERATION OF THE AXONS** occurs from the cryoablation site to the end organ (towards the sternum).
- Axons within the intercostal nerve that send pain signals are destroyed distal to the cryoablation site. The tubule structures (epineurium, perineurium and endoneurium) of the nerve remain intact allowing the axons to regenerate and nerve function to resume over the course of roughly 1-3 months.

