

TGXP Is Precisely the Right Choice

Parameters	Surface Cooling	ZOLL TGXP
Target Temperature Maintained ($\pm 0.2^{\circ}\text{C}$)	Poor: 55% of time in range ³	Superior: 97% of time in range ³
Time to Target Temperature	Slow: 190 minutes ⁴	Rapid: 64 minutes ⁵
Shivering	High rate of shivering (85%); ⁸ may require higher doses of paralytics	Low rate of shivering (4%); ² may require less sedation and lower doses of paralytics
Nursing Time	Extensive: requires management of temperature overshoot/undershoot, ¹² pads, and shivering	Minimal: Set and device auto adjusts to desired temperature. Enables more focus on other aspects of patient care.
Patient Eligibility		
Patients with spinal injuries	No ¹¹	Yes
Patients with skin issues	No ¹¹	Yes
Patients on multiple vasopressors	No ¹¹	Yes
Conscious patients	No ¹¹	Yes
Patient Access	Limited: 40%-70% of patient covered with pads and tubing	Unhindered
Adverse Events	Potential for skin injuries ^{13,14,15}	Risk of DVT is no greater than a standard CVC ²
Central Venous Catheter (CVC) Requirement	Additional: Separate CVC required	Integrated: CVC integral to ZOLL catheter design

¹ Mayer SA, et al. *Critical Care Medicine*. 2004;(32)12:2508-2515.

² Diringier MN, et al. *Critical Care Medicine*. 2004;(32)2:559-564.

³ Hoedemaekers CW, et al. *Critical Care*. 2007;11:R91.

⁴ Heard KJ, et al. *Resuscitation*. 2010;81:9-14.

⁵ Horn CM, et al. *Journal of Neurointerventional Surgery*. 2014 Mar;6(2):91-95.

⁶ Knapik P, et al. *Kardiologia Polska*. 2011;69(11):1157-1163.

⁷ Tomte O, et al. *Critical Care Medicine*. 2011;39(3):443-449.

⁸ Cartuapoma JR, et al. *Journal of Neurosurgical Anesthesiology*. 2003;15(4):313-318.

⁹ COOL-ARREST JP: An Evaluation of Therapeutic Hypothermia by Means of Intravascular Cooling (Intravascular Temperature Management; ITM) in Patients who Have Undergone Endogenous Cardiac Arrest and Return of Circulation – a Joint, Multicenter, Single-Arm, Prospective Interventional Study Trial.

¹⁰ Lemons N. AACN Abstract, Region 6 Meeting. 2004 Sept 27.

¹¹ Medivance Arctic Sun® Energy Transfer Pad™ Instructions for Use.

¹² Merchant RM, et al. *Critical Care Medicine*. 2006;34:S490-S494.

¹³ Varon J, et al. *Resuscitation*. 2008;78:248-249.

¹⁴ Wang H, et al. *Therapeutic Hypothermia and Temperature Management*. 2013;3(3):147-150.

¹⁵ Liu YM, et al. *Journal of Burn Care & Research*. 2014;35(3):e184-186.

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