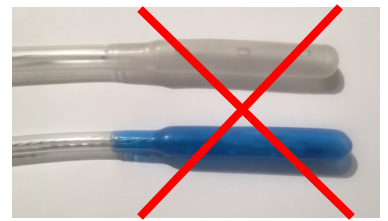
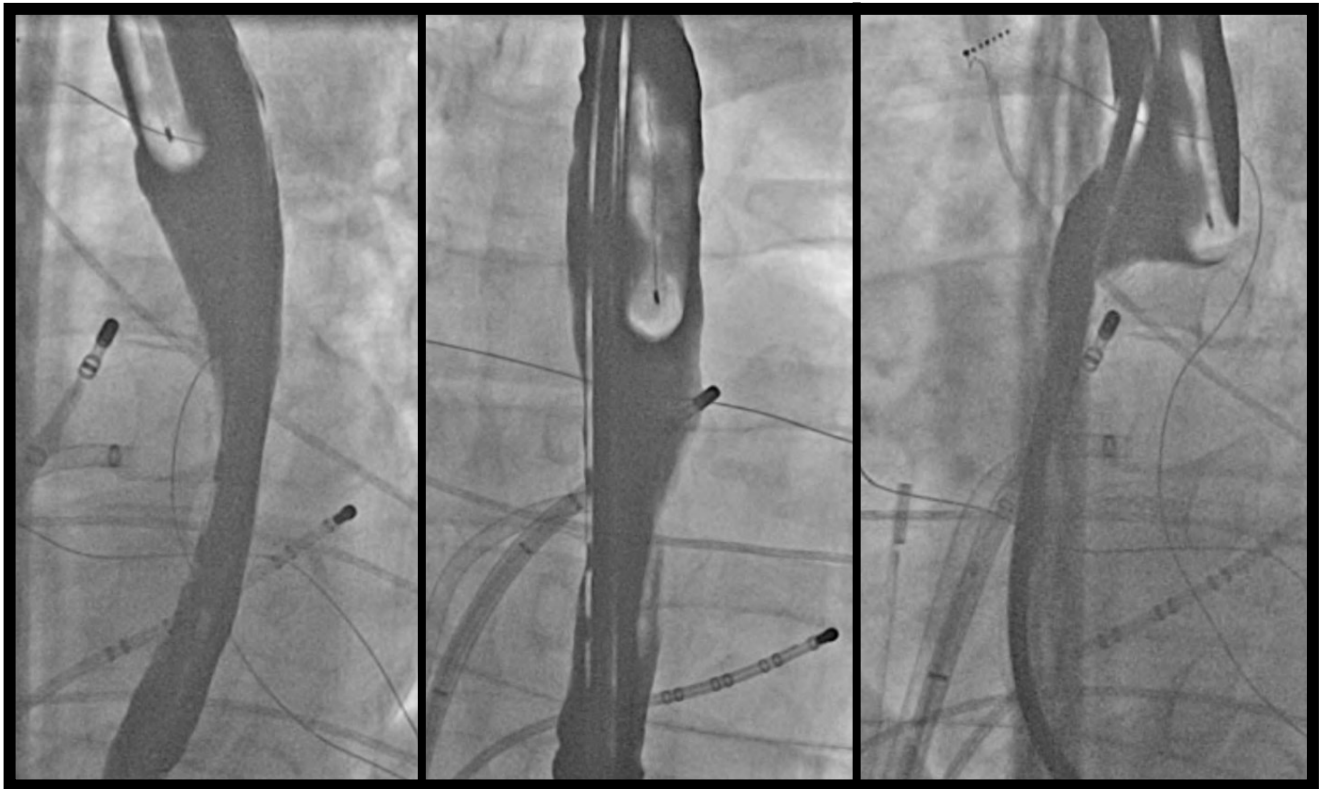
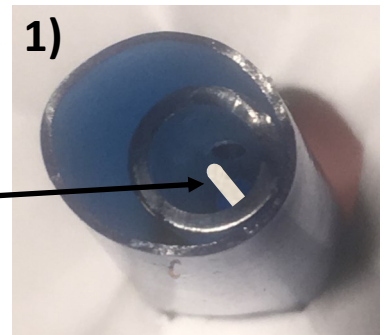


Which Temperature Probe is used in your EP Lab?

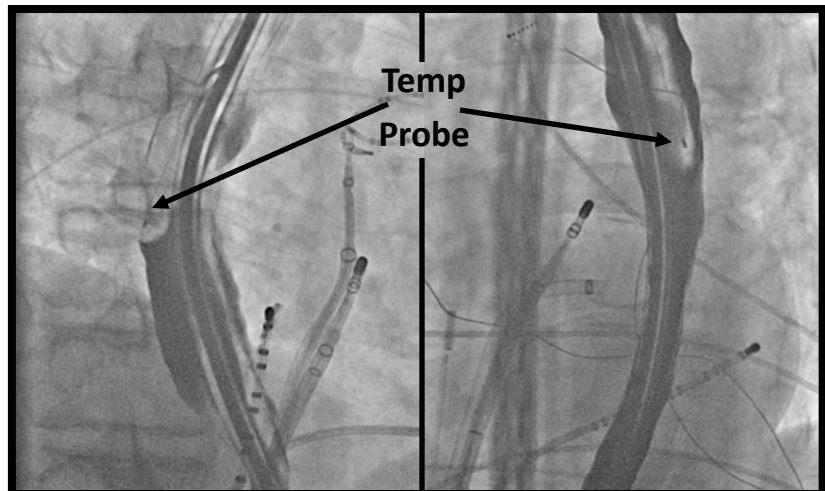


3 reasons to AVOID the most commonly used Temperature Probe placed by Anesthesia.

- 1) Two layers of air and 2 layers of plastic insulate the thermistor from detecting changes in temperature. (A)
- 2) The 18 Fr Acoustascope balloon expands to 27 Fr at body temp, potentially pushing the esophagus towards the Left Atrium and predisposing it to thermal injury. (B)

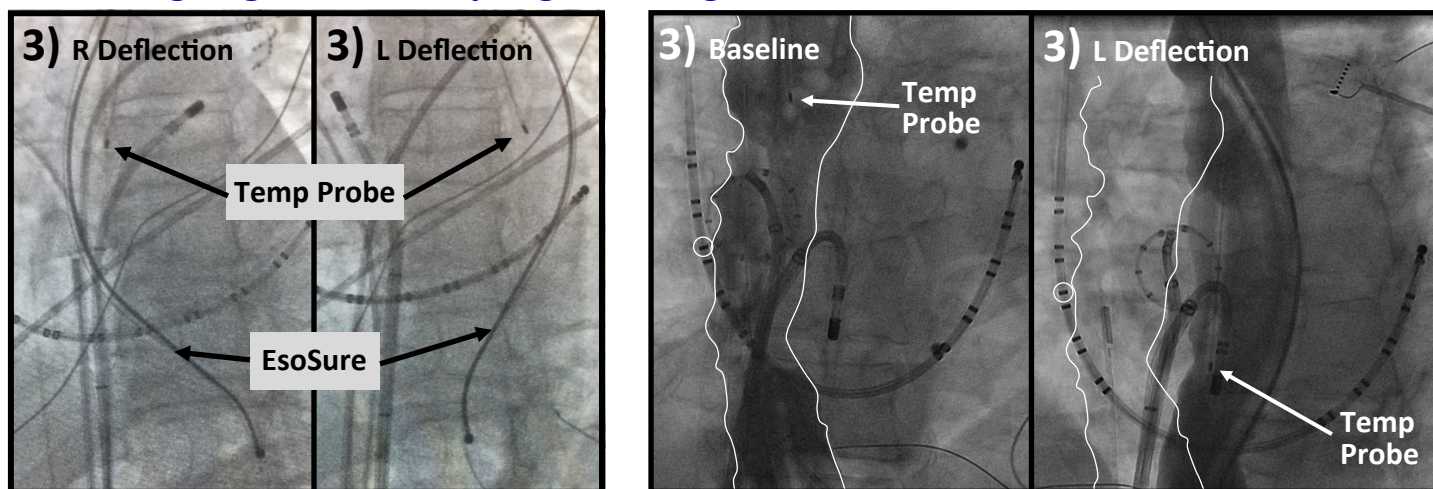


- 3) When used with esophageal deflection, the Temp Probe is often pushed laterally during manipulation and the balloon prevents repositioning it closer to the esophageal trailing edge where it is more efficacious.



3 benefits of a smooth shaft Temperature Probe

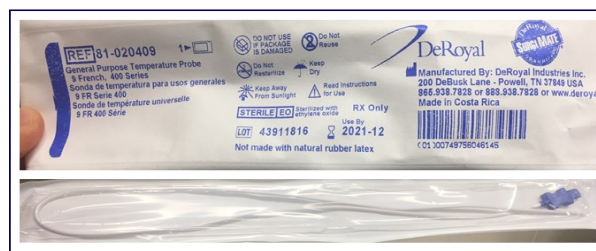
- 1) Faster response to changes in temperature.
- 2) Smaller diameter does not dilate the esophagus.
- 3) Small profile allows the Temperature Probe to be repositioned closer to the trailing edge of the esophagus during deflection with the EsoSure.



Use a better Temperature Probe that costs \$5

The Temperature Probes below do not have a balloon covering the thermistor which reduces thermal response, dilates the esophagus and prevents placement along the medial esophagus, and cost ~\$5.

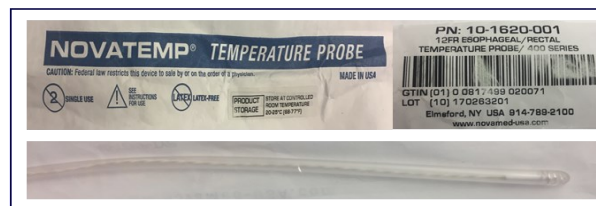
DeRoyal Industries, Inc. # 81-020409 for 9 Fr
Less flexible than the Smiths Medical model
making it easier to insert and reposition.



Novamed, Inc.

Ref # 10-1620-001 for 12 Fr

A 5 Fr EP Catheter can be inserted inside the lumen with notches cut over the electrodes to visualize it on a 3D map.



(A) Differences in Transient Thermal Response of Commercial Esophageal Temperature Probes. Insights from an Experimental Study. Mohit K. Turagam, MS, Steve Miller, RN, Dhanunjaya Lakkireddy, MD. et. al. JACC: Clinical Electrophysiology. 2019 Nov; 5(11):1280-1288.

(B) Difference in thermodynamics between two types of esophageal temperature probes: Insights from an experimental study; Carola Gianni, MD, PhD; Moustapha Atoui, MD, Andrea Natale, MD. et al. HeartRhythm, Nov. 2016, Vol. 13, Issue 11, Pages 2195–2200.

(EsoSure, EPeward and Steve Miller have no affiliation with any Temperature Probe company.)