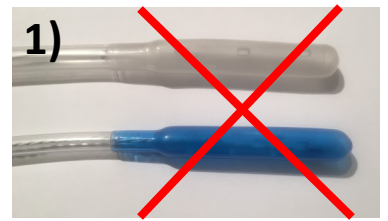
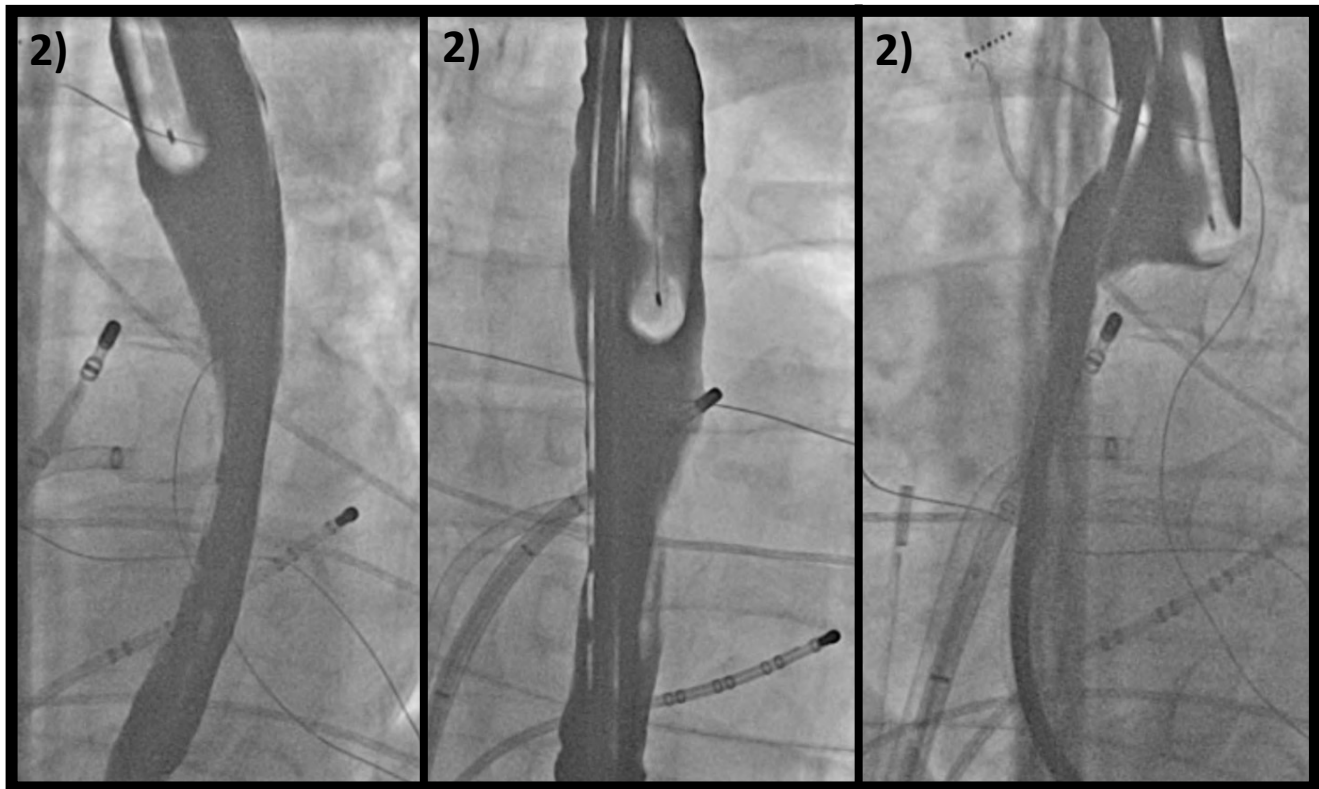
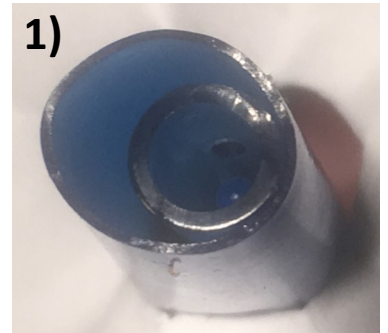


Which Temperature Probe is used in your lab?

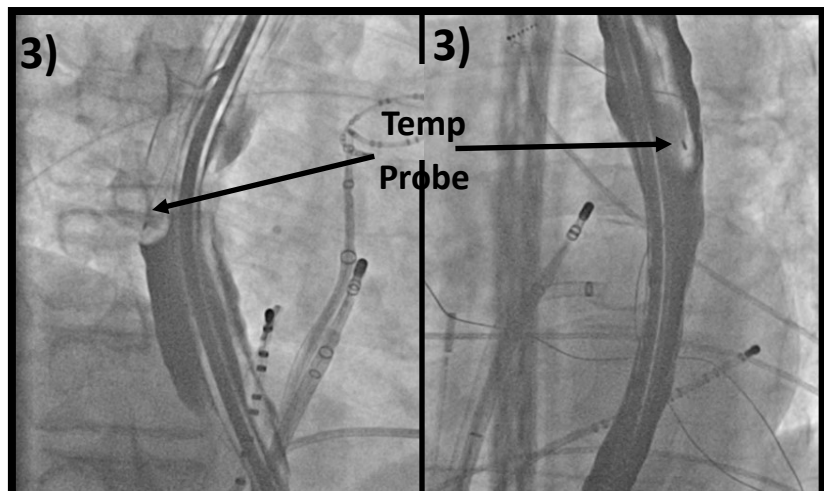


3 reasons to AVOID the most commonly used 18 Fr Acoustascope Temp Probe placed by Anesthesia

- 1) Two layers of air and 2 layers of plastic insulate the thermistor from rapid changes in temperature. (A, B)
- 2) An 18 Fr Temp Probe has a 27 Fr balloon that dilates the esophagus and pushes it toward the LA, predisposing it to thermal injury. (A)

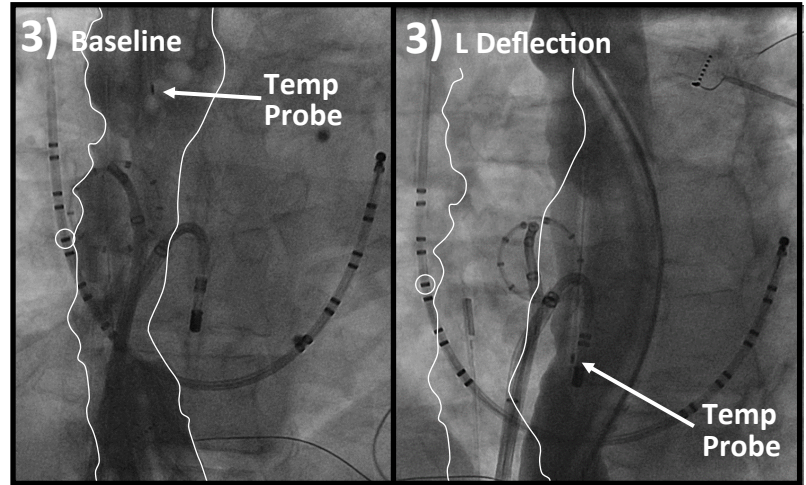
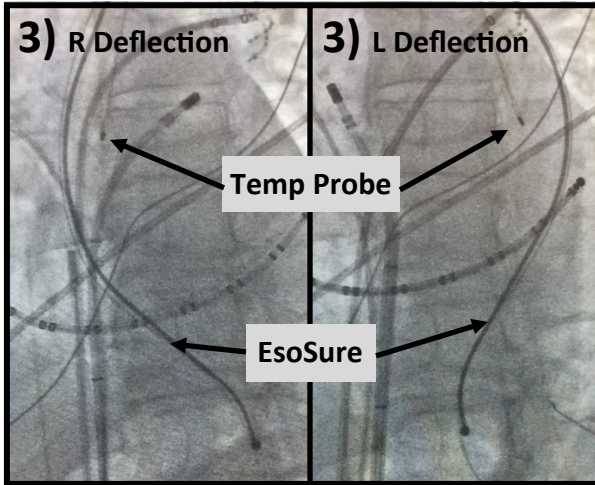


- 3) When used during esophageal deflection, the Acoustascope balloon is often pushed laterally by the OG Tube while the small diameter models can be repositioned near the trailing edge of the esophagus.



3 benefits of a smooth shaft, \$4 Temperature Probe

- 1) Faster response to changes in temperature. (6.5 sec. vs. 18 - 23 sec.) (A, B)
- 2) Smaller 9 Fr to 12 Fr diameter does not dilate esophagus.
- 3) Smooth profile allows Temperature Probe to be retracted closer to the trailing edge of the esophagus during deflection with the EsoSure.



Use a better \$4 Temperature Probe

These Temperature Probes do not have a balloon covering the thermistor and performed better than Acoustascopes in thermal response tests.

#1 DeRoyal Industries. Ref # 81-020409 for 9 Fr model. Use peds ET tube/nasal trumpet for introducer.

#2 Novamed. Ref # 10-1620-001 for 12 Fr model. A 5-6 Fr diagnostic EP catheter can be inserted down the lumen for real time 3D map visualization. Cut a small notch over each electrode with a scalpel for impedance mapping. Or, 2 thermistors may be inserted into the shaft to improve coverage.

#3 Smiths Medical. Similar 9 Fr white plastic coating, but softer and more prone to coiling than the DeRoyal.



(A) Differences in Transient Thermal Response of Commercial Esophageal Temperature Probes. Insights From an Experimental Study. Mohit K. Turagam, MD, Steve Miller, RN, Sharan Prakash Sharma, MD, Punit Prakash, PHD, Rakesh Gopinathannair, MD, Prajwala Lakkireddy, Sanghamitra Mohanty, MD, Jie Cheng, MD, Andrea Natale, MD, Dhanunjaya Lakkireddy, MD. JACC Clin 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, et al. HeartRhythm, Nov. 2016, Vol. 13, Issue 11, Pages 2195–2200. (EsoSure has no financial relationship with any Temperature Probe company.)