3M™ SpotOn™ Temperature Monitoring System

Cardiac study results confirm core temperature

An Arizant-sponsored cardiac study compared the 3M™ SpotOn™ system with simultaneous measurements from a pulmonary artery catheter in 105 patients scheduled for non-emergent cardiac surgery.*

Temperatures were recorded at one-second intervals, excluding the period of cardiopulmonary bypass, and for four postoperative hours. The SpotOn system and pulmonary artery temperatures were compared using Bland and Altman statistics to confirm SpotOn system agreement.

Prototype Zero Heat Flux Thermometer - Cardiac Trial Data
105 subjects; 36,000 data pairs | Mean Error \( (T_{ZHF} - T_{PA}) = -0.23°C \); 95% LOA = ±0.8°C

The SpotOn system core temperature readings were in agreement with pulmonary artery temperature, with an average bias of -0.23°C.¹


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