

PUBLISHED STUDIES REGARDING MOVING-LINE TEMPERATURE STRIPS

All Moving-Line Temperature Strips cited in the studies below were manufactured by Hallcrest, Inc. using its proprietary CliniTemptm Moving-Line Technology

PERTINENT FACTS	TITLE	AUTHORS & PUBLICATIONS	AFFILIATIONS OF AUTHORS
In anesthetized patients, forehead temperature via Moving-Line temperature strips were within 0.3° F of esophageal probe temperatures.	"Comparison of Crystalline Skin Temperature to Esophageal Temperatures During Anesthesia"	S.J. Brull, M.D.: T.Z. O'Connor, M.P.H.; E. Poglitsch, M.P.S.; R. Kosswig: D.G. Silverman, M.D. Anesthesiology, V73, No 3A, Sep 1990, A472	Anes. Dept., Yale University School of Medicine, Yale-New Haven Hospital, New Haven, CT
In anesthetized patients during cardiopulmonary bypass cooling and rewarming, forehead temperatures via Moving-Line temperature strips were within: 0.3° C of bladder temperatures 0.5° C of esophageal temperatures, and 1.0° C of pulmonary artery temperatures.	"Comparison of Crystalline Skin Temperature to Esophageal, Pulmonary Artery, and Bladder Temperatures During Cardiopulmonary Bypass"	S.J. Brull, M.D.; N.R. Connelly, M.D.; D.G. Silverman, M.D. Anesthesia and Analgesia, 1991, V72, S28.	Anes. Dept., Yale University School of Medicine, Yale-New Haven Hospital, New Haven, CT
In anesthetized patients, forehead temperatures via Moving-Line temperature strips were within 0.5° C of core temperatures in two-thirds of the patients and within 1.0° C in virtually all patients. Inducing anesthesia, vasomotor action, and changes in ambient temperatures had no meaningful affects on the forehead temperature reading.	"Influence of Thermoregulatory Vasomotion and Ambient Temperature Variation on the Accuracy of Core- temperature Estimates by Cutaneous Liquid Crystal Thermometers"	T. Ikeda, M.D.; D.I. Sessler, M.D.; D. Marder, B.A.; J. Xiong, M.D. Anesthesiology, 1997; 86:603-12	Dept. of Anes., University of California San Francisco; Dept. of Anes & Intensive Care, University of Vienna
In anesthetized pediatric patients, forehead temperatures via Moving-Line temperature strips were very closely correlated to esophageal probe temperatures.	"A Comparison Of Esophageal Temperature Readings And Liquid Crystal Temperature Readings In The Pediatric Population"	C.M. Wisniewski, CRNA Masters Thesis, Aug 1991	Dept. of Nurse Anes., Virginia Commonwealth University.
Concerning Moving-Line temperature strips. "Both the accuracy and precision of liquid- crystal skin surface monitoring were within clinically acceptable ranges:, irrespective of thermoregulatory vasomotion.	"Thermoregulatory Vasomotion Minimally Influences the Precision of Liquid-Crystal Skin- Surface Estimates of Core Temperature"	T. Ikeda, M.D.; D. Marder, B.A.; D.I. Sessler, M.D. Anesthesiology, V85, No 3A, Sep 1996, A419	Dept. of Anes., University of California San Francisco; Dept. of Anes. & Intensive Care, University of Vienna



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AUTHORS & AFFILIATIONS OF PERTINENT FACTS TITLE **PUBLICATIONS AUTHORS** Inter-operative alterations in ambient temperatures "do not produce clinically "Changes in Ambient Dept. of Anes. & Dept. of important bias" in forehead temperatures Temperature Minimally P.A. laizzo, Ph.D.; D.H. Chris, M.D.; R.S. monitored via Moving-Line temperature Physiology, University of Influence the Accuracy Zink, M.D.; G. Kumar, MBBS; D. I. Sessler, strips. Concerning Moving-Line temperature Minnesota; Dept. of Anes., of Liquid-Crystal Skin-M.D. Anesthesia and Analgesia, V82(4), strips, the study concluded, "Overall, the University of California San Surface Estimates of Core Apr 1996, pp 782-789 Francisco accuracy and precision of liquid-crystal Temperature" thermometry appeared acceptable for intraoperative use." At all time points during malignant hyperthermia in pigs, there was very close correlation between invasive esophageal temperatures and pulmonary artery temperatures compared to axilla skin Dept. of Anes. & Dept. of temperatures as measured by Moving-P.A. Iaizzo, Ph.D.; D.H. Chris, M.D.; R.S. "Thermal Response in Line temperature strips. The Moving-Line Physiology, University of Zink, M.D.; G. Kumar, MBBS; D. I. Sessler, temperature strips placed on the axilla Acute Porcine Malignant Minnesota; Dept. of Anes., M.D. Anesthesia and Analgesia, V82(4), Hyperthermia" University of California San skin also correlated far better to core Apr 1996, pp 782-789 temperatures than did electronic rectal Francisco temperature probes. (The pig axilla skin is referenced since it is believed to be more comparable to human forehead skin in terms of perfusion and thickness than are the pig forehead skin or neck skin.) Temperatures displayed by Moving-Line T.S. Shomaker, M.D.; "Measurement Offset With temperature strips were far more reliable than Dept. of Anes., University of Liquid Crystal Temperature D.G. Bjoraker, M.D. Anesthesiology, V73, temperatures displayed by any tested brand Florida College of Medicine. Indicators" No 3A, Sep 1990, A425 of Non-Moving-Line temperature strips.

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