

## Peer-Reviewed Published Papers, Abstracts, Letters on Exergen Temporal Artery Thermometry as of July 20, 2018

1.	Adult	Artz, B.A., March, K.S., and Grim, R.D. Clinical nurse specialists empowering staff to improve patient outcomes in temperature measurement: From PI/EBP to nursing research. In Patton, S. P., and Moody, R. 2011 National Association of Clinical Nurse Specialists National Conference Abstracts. <i>Clinical Nurse Specialist: The Journal for Advanced Nursing Practice</i> .
2.	Adult	Espenhein A (County Hospital in Herlev, Denmark). Temporal temperature measurement. <i>Sygeplejersken</i> 2006;(17):50-2.
3.	Adult CCU	Bridges E, Thomas K (University of Washington). Noninvasive measurement of body temperature in critically ill patients. <i>Crit. Care Nurse</i> . 2009; 29(3): p. 94-97
4.	Adult CCU	Carroll D, Finn C, Gill S, et al (Massachusetts General Hospital). A comparison of measurements from a temporal artery thermometer and a pulmonary artery catheter thermometer. <i>Am J Crit Care</i> . 2004;13:258.
5.	Adult CCU	Furlong D, Carroll D, Finn C, Gay D, Gryglik C, Donahue V (2015). Comparison of Temporal to Pulmonary Artery Temperature in Febrile Patients. <i>Dimensions of Critical Care Nursing</i> . 2015 Jan-Feb; 34(1):47-52. doi: 10.1097/DCC.0000000000000090.
6.	Adult CCU	Barry L, Branco J, et al. The impact of user technique on temporal artery thermometer measurements. <i>Nursing Critical Care: September 2016 - Volume 11 - Issue 5 - p 12–14</i> .
7.	Adult CCU	Makic MB, VonRueden KT, Rauhen CA, Chadwick J. Evidence-based practice habits: putting more sacred cows out to pasture. <i>Crit Care Nurse</i> . 2011 Apr;31(2):38-61; quiz 62.
8.	Adult CCU	Lawson L, Bridges E, Ballou I, Eraker R, Greco S, Shively J, Sochulak V. (University of Washington). Accuracy and precision of noninvasive temperature measurement in adult intensive care patients. <i>Am. J. Crit. Care.</i> , Sep 2007; 16:5, 485-496.
9.	Adult CCU	Lawson L, Bridges E, Ballou I, Eraker R, Greco S, Shively J, Sochulak V. (University of Washington). Temperature measurement in critically ill adults. <i>Am. J. Crit. Care.</i> , May 2006; 15: 324 - 346.
10.	Adult ED	Bordonaro SF, McGillicuddy DC, Pompei F, Burmistrov D, Harding C, Sanchez LD. Human temperatures for syndromic surveillance in the emergency department: data from the autumn wave of the 2009 swine flu (H1N1) pandemic and a seasonal influenza outbreak. <i>BMC Emerg Med</i> . 2016 Mar 9;16(1):16. doi: 10.1186/s12873-016-0080-7.
11.	Adult ED	Foy S, McGillicuddy D, Pompei F, Sanchez L (Beth Israel Medical Center, Boston MA). Body Temperature Surveillance and Reporting in the Emergency Department: A Practical Sentinel for Pandemics and Bioterrorism. Presented at Society for Academic Emergency Medicine Annual Meeting, Phoenix AZ , June 3-6, 2010.
12.	Adult ED	Routhier D, Hostler D, Wolfson A, Wheeler M, Reynolds J (University of Pittsburgh). Comparison of temporal artery and oral temperatures in the emergency department. <i>ACAD EMERG MED</i> , May 2006, Vol. 13, No. 5, Suppl. 1, <a href="http://www.aemj.org">www.aemj.org</a> , p. S99
13.	Adult ICU	Dybwik K, Nielsen EW. Infrared temporal temperature measurement. <i>Journal of the Norwegian Medical Association</i> 2003; 123: 3025-6.
14.	Adult ICU	Myny D, DeWaele J, Defloor T, Blot S, Colardyn F (Ghent University Hospital, Ghent, Belgium). Temporal scanner thermometry: a new method of core temperature measurement in intensive care patients. <i>SMJ</i> 2005 45(1): 15-18.
15.	Adult ICU	Kirk D, Rainey T, Vail A, Childs C (University of Manchester, Salford Royal Foundation Trust). Infra-red thermometry: the reliability of tympanic and temporal artery readings for predicting brain temperature after severe traumatic brain injury. <i>Crit Care</i> . 2009 May 27;13(3):R81.
16.	Adult oncology	Hughes D. Study recommends use of professional temporal thermometer in adults. <i>Oncology Nurse Advisor</i> April 27, 2013.
17.	Adult oncology	Mason TM, Reich RR, et al. Equivalence of temperature measurement methods in the adult hematology/oncology population. <i>Clin J Oncol Nurs</i> . 2015 Apr;19(2):E36-40. doi: 10.1188/15.CJON.E36-E40.

18.	Adult PACU	Fetzer SJ, Lawrence A (Southern New Hampshire Medical Center). Tympanic membrane versus temporal artery temperatures of adult perianesthesia patients. <i>J Perianesth Nurs</i> . 2008 Aug;23(4):230-6.
19.	Adult surgery	Calonder EM, Sendelbach S, Hodges JS, Gustafson C, Machemer C, Johnson D, Reiland L (Abbott Northwestern Hospital). Temperature measurement in patients undergoing colorectal surgery and gynecology surgery: a comparison of esophageal core, temporal artery, and oral methods. <i>Journal of PeriAnesthesia Nursing</i> , Volume 25, Issue 2, April 2010, Pages 71-78
20.	Adult surgery	McConnell E, Senseney D, George S, Whipple D. Reliability of temporal artery thermometers. <i>Medsurg Nursing</i> 2013, Nov-Dec 2013, Vol. 22/No. 6, p387
21.	Ambulance	Carleton E, Fry B, Mulligan A, Bell A, Brossart C. Temporal artery thermometer use in the prehospital setting. <i>Canadian Journal of Emergency Medicine</i> 2012;14(1):7-13.
22.	Biomedical	Crossley B. Blanket warmers revisited and temporal thermometers. <i>Biomedical Instrumentation and Technology</i> , March/April 2012 p147.
23.	Cost reduction using TAT	Hayes K, Shepard A, Cesarec A, et al. Cost minimisation analysis of thermometry in two different hospital systems. <i>Postgrad Med J</i> Published Online First: 18 January 2017, doi:10.1136/postgradmedj-2016-134630
24.	Cost reduction using TAT	Kumana C. Minimizing the costs of temperature monitoring in hospitals. <i>Postgrad Med J</i> Published Online First: 1 February 2017 doi:10.1136/postgradmedj-2017-134795
25.	Methods paper	Pompei F, Pompei M. Non-invasive temporal artery thermometry: Physics, Physiology, and Clinical Accuracy, presented at <i>Medical Thermometry for SARS Detection, SPIE Defense and Security Symposium</i> , available in <i>Conference Proceedings</i> , April, 2004.
26.	Methods paper	Pompei F. Insufficiency in thermometer data. <i>Anesth Analg</i> . 2003 Mar;96(3):908-9.
27.	Methods paper	Pompei F. RE: A brief report on the normal range of forehead temperature as determined by noncontact, handheld, infrared thermometer. <i>Am J Infect Control</i> . 2006 May;34(4):248-9.
28.	Methods paper	Pompei F. Misguided guidelines on noninvasive thermometry. <i>Crit Care Med</i> . 2009 Jan;37(1):383; author reply 383-4.
29.	Neonates	Haddad, L., Smith, S., Phillips, K.D., and Heidel, R.E. (2012). Comparison of temporal artery and axillary temperatures in healthy newborns. <i>Journal of Obstetric, Gynecologic, &amp; Neonatal Nursing</i> , 41, 383-388; doi: 10.1111/j.1552-6909.2012.01367.x
30.	Neonates	Chiu SH, Anderson GC, Burkhammer MD (University of Akron/Case Western Reserve University). Newborn temperature during skin-to-skin breastfeeding in couples having breastfeeding difficulties. <i>Birth</i> . 2005 Jun;32(2):115-21.
31.	Neonates	Hargreaves L. (2017) Toolkit for implementation of temporal artery thermometers for neonates. ProQuest Number 10603156, Published by ProQuest LLC (2017)
32.	Neonates	Gunawan M, Soetjningsih I (Udayana University, Sanglah Hospital, Denpasar, Indonesia). Comparison of the accuracy of body temperature measurements with temporal artery thermometer and axillary mercury thermometer in term newborns. <i>Paediatr Indones</i> , Vol. 50, No. 2, March 2010.
33.	NICU	Burdjalov VF, Combs A, Nachman S, Baumgart S (SUNY at Stony Brook). Non-Invasive infrared temperature assessment of the temporal artery for core temperature determination in premature neonates, Presented <i>American Pediatric Society and the Society for Pediatric Research</i> , May 1, 2001.
34.	NICU	Lee G, Flannery-Bergey D, Randall-Rollins K, Curry D, Rowe S, Teague M, Tuininga C, Schroeder S (Exempla Lutheran Medical Center). Accuracy of temporal artery thermometry in neonatal intensive care infants. <i>Advances in Neonatal Care</i> , Vol. 11, No. 1, pp. 62-70, Feb 2011.
35.	NICU	Rollins K, Flannery-Bergey D. Accuracy of temporal artery thermometry in neonatal intensive care unit infants. <i>JOGNN</i> , 40, S85-S119; 2011. DOI: 10.1111/j.1552-6909.2011.01243.x
36.	NICU	Smith et al. Comparison of axillary and temporal artery thermometry in preterm neonates. <i>J Obstet Gynecol Neonatal Nurs</i> . 2018 Apr 3. pii: S0884-2175(18)30052-2. doi: 10.1016/j.jogn.2018.02.013. [Epub ahead of print]
37.	PACU	Barringer LB, Evans CW, Ingram LL, Tisdale PP, Watson SP, Janken JK (Presbyterian

		Hospital Matthews). Agreement between temporal artery, oral, and axillary temperature measurements in the perioperative period. <i>J Perianesth Nurs</i> . 2011 Jun;26(3):143-50.
38.	PACU	Bradley SL, Kwater AP, et al. Is skin temperature measurement in PACU an accurate reflection of core temperature? ASA Abstract A3182, the Anesthesiology Annual Meeting 2016, <a href="http://www.asaabstracts.com">http://www.asaabstracts.com</a>
39.	PACU	Langham GE, Maheshwari A, Contrera K, You J, Mascha E, Sessler DI (Case Western Reserve University). Noninvasive temperature monitoring in postanesthesia care units. <i>Anesthesiology</i> . 2009 Jul;111(1):90-6. doi: 10.1097/ALN.0b013e3181a864ca
40.	PACU	Martinez EA, Krenzischek D, Hobson D, Hunt D (Johns Hopkins Medical Institutions). The structure and processes of care delivery impact postoperative normothermia. <i>Anesthesiology</i> 2007; 107: A496.
41.	PACU	Pittman R and Waters R (CaroMont Health Care, Gastonia, NC). Do our patients have hypothermia? Temporal versus oral thermometers. <i>Journal of PeriAnesthesia Nursing</i> Volume 24, Issue 3, June 2009, Page e18.
42.	PACU	Sandlin D (Southern Hills Medical Center, Nashville TN). New Product Review: Temporal Artery Thermometry, <i>Journal of PeriAnesthesia Nursing</i> , Vol. 18, No 6 (December) 2003, pp 419-421.
43.	Pediatric CCU	Opersteny, Esther et al. Precision, sensitivity and patient preference of non-invasive thermometers in a pediatric surgical acute care setting. <i>Journal of Pediatric Nursing: Nursing Care of Children and Families</i> , 2017, Volume 35, 36 – 41.
44.	Pediatric CCU	Hebbar K, Fortenberry JD, Rogers K, Merritt R, Easley K. (Children's Healthcare of Atlanta at Egleston). Comparison of temporal artery thermometer to standard temperature measurements in pediatric intensive care unit patients. <i>Pediatr Crit Care Med</i> . 2005 Sep;6(5):557-61.
45.	Pediatric CCU	Merrill, K. (Seattle Children's Hospital). Comparison of temporal artery temperature measurement with standard temperature measurement in critically ill children. <i>American Journal of Critical Care</i> . 2014, May, 23(3), e23.
46.	Pediatric ED	Greenes DS, Fleisher GR. (Boston Childrens Hospital and Harvard Medical School). When body temperature changes, does rectal temperature lag? <i>Journal of Pediatrics</i> , 02.037, pp 824-826, September 2004.
47.	Pediatric ED	Greenes DS, Fleisher GR. (Boston Childrens Hospital and Harvard Medical School). Accuracy of a noninvasive temporal artery thermometer for use in infants. <i>Arch Pediatr Adolesc Med</i> , Vol 155, pp 376-381, Mar 2001
48.	Pediatric ED	Batra P, Saha A, Faridi MM. Thermometry in children. <i>J Emerg Trauma Shock</i> . 2012 Jul;5(3):246-9.
49.	Pediatric ED	Hurwitz B1, Brown J, Altmiller G. Improving pediatric temperature measurement in the ED. <i>Am J Nurs</i> . 2015 Sep;115(9):48-55. doi:10.1097/01.NAJ.0000471249.69068.73.
50.	Pediatric ED	Moore AH, Carrigan JD, Solomon DM, Tart RC. Temporal artery thermometry to detect pediatric fever. <i>Clin Nurs Res</i> . 2015 Oct;24(5):556-63. doi: 10.1177/1054773814557481. Epub 2014 Nov 14.
51.	Pediatric ED	Reynolds M, et al. Are temporal artery temperatures accurate enough to replace rectal temperature measurement in pediatric ED patients? <i>J Emerg Nurs</i> . 2012 Nov 8. pii: S0099-1767(12)00329-7. doi: 10.1016/j.jen.2012.07.007. [Epub ahead of print]
52.	Pediatric ED	Schuh S, Komar L, Stephens D, Chu L, Read S, Allen U (University of Toronto/Hospital for Sick Children). Comparison of the temporal artery and rectal thermometry in children in the emergency department. <i>Pediatric Academic Societies Annual Meeting</i> , May 3-6, 2003, Seattle, WA.
53.	Pediatric ED	Schuh S, Komar L, Stephens D, Chu L, Read S, Allen U (University of Toronto/Hospital for Sick Children). Comparison of the temporal artery and rectal thermometry in children in the emergency department. <i>Pediatric Emergency Care</i> , Vol 20, No. 11, Nov 2004
54.	Pediatric ED	Szmuk P, Curry BP, Sheeran PW, Farrow-Gillespie AC, Ezri T (UT Southwestern and Children's Medical Center, Dallas, Texas). Perioperative temperature audit in a large pediatric hospital. <i>Anesthesiology</i> 2007; 107: A1612.
55.	Pediatric ED	Titus MO, Hulsey T, Heckman J, Losek JD (Medical University of South Carolina and Children's Hospital). Temporal artery thermometry utilization in pediatric emergency care. <i>Clinical Pediatrics</i> , Mar 2009; vol. 48: pp. 190 - 193.

56.	Pediatric ED	Isler A., et al. Comparison of temporal artery to mercury and digital temperature measurement in pediatrics. <i>Int. Emerg.Nurs.</i> (2013) <a href="http://dx.doi.org/10.1016/j.ienj.2013.09.003">http://dx.doi.org/10.1016/j.ienj.2013.09.003</a>
57.	Pediatric ED	Batra P, Goyal S. Comparison of rectal, axillary, tympanic, and temporal artery thermometry in the pediatric emergency room. <i>Pediatr Emerg Care.</i> 2013 Jan;29(1):63-6. doi: 10.1097/PEC.0b013e31827b5427.
58.	Pediatric PACU	Beedle SE, Phillips A, et al. Preventing unplanned perioperative hypothermia in children. <i>AORN J.</i> 2017 Feb;105(2):170-183. doi: 10.1016/j.aorn.2016.12.002.
59.	Pediatric PACU	Fratto L, Hogan K, Kenney K. Temporal artery thermometry use in pediatric patients in the post-anesthesia care unit. 2012 Research and EBP Abstracts ASPAN's 31st National Conference April 15-19, 2012, Orlando, FL Inf...2012 Research and EBP Abstracts - 8/1/2012 12:43:08 PM.
60.	Pediatric surgery	Tan GM, Galinkin JL, Pan Z, Polaner DM. Laryngeal view and temperature measurements while using the perilaryngeal airway (Cobra-PLUS™) in children. <i>Pediatric Anesthesia</i> 2013, Dec; 23(12):1180-6. doi: 10.1111/pan.12266. Epub 2013 Sep 25.
61.	Pediatrics	Carr EA, Wilmoth ML, Eliades AB, Baker PJ, Shelestak D, Heisroth KL, Stoner KH (Akron Children's Hospital). Comparison of Temporal Artery to Rectal Temperature Measurements in Children Up to 24 Months, <i>Journal of Pediatric Nursing</i> , In Press, [Epub ahead of print], Jan 25, 2010.
62.	Pediatrics	Health Canada (2017). Summary Safety Review - Ear and Forehead (contact) Infrared Thermometers (various brands) - Assessing the potential risk of inaccuracy in children under 2 years old. <a href="https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/safety-reviews/summary-safety-review-forehead-contact-infrared-thermometers-various-brands-assessing-potential-risk-inaccuracy-children-under-2-years-old.html">https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/safety-reviews/summary-safety-review-forehead-contact-infrared-thermometers-various-brands-assessing-potential-risk-inaccuracy-children-under-2-years-old.html</a>
63.	Pediatrics	Yang WC, Kuo HT, et al. Tympanic temperature versus temporal temperature in patients with pyrexia and chills. <i>Medicine (Baltimore).</i> 2016 Nov;95(44):e5267.
64.	Pediatrics	Paul IM, Sturgis SA, Yang C, Engle L, Watts H, Berlin CM Jr (Penn State College of Medicine). Efficacy of standard doses of Ibuprofen alone, alternating, and combined with acetaminophen for the treatment of febrile children. <i>Clin Ther.</i> 2010 Dec;32(14):2433-40.
65.	Pediatrics	Callanan D (Christus Santa Rosa Children's Hospital). Detecting fever in young infants: reliability of perceived, pacifier, and temporal artery temperatures in infants younger than 3 months of age. <i>Pediatr Emerg Care.</i> 2003 Aug;19(4):240-3.
66.	Pediatrics	Allegaert K, Casteels K, van Gorp I, Bogaert G. Tympanic, infrared skin, and temporal artery scan thermometers compared with rectal measurement in children: a real-life assessment. <i>Curr Ther Res Clin Exp.</i> 2014 May 8;76:34-8. doi: 10.1016/j.curtheres.2013.11.005. eCollection 2014.
67.	Pediatrics	Al-Mukhaizeem F, Allen U, Komar L, et al (University of Toronto/Hospital for Sick Children). Validation of the temporal artery thermometry by its comparison with the esophageal method in children. <i>Pediatric Academic Societies Annual Meeting</i> , May 3-6, 2003, Seattle, WA
68.	Pediatrics	Al-Mukhaizeem F, Allen U, Komar L, et al (University of Toronto/Hospital for Sick Children). Comparison of temporal artery, rectal and esophageal core temperatures in children: Results of a pilot study. <i>Journal of Pediatric and Child Health</i> , Vol 9, No 7, pp 461-465, 2004
69.	Pediatrics	Bahorski J, Repasky T, Ranner D, Fields A, Jackson M, Moultry L, Pierce K, Sandell M (Tallahassee Memorial Healthcare). Temperature measurement in pediatrics: a comparison of the rectal method versus the temporal artery method. In Press, Corrected Proof, Available online 24 February 2011, <i>Journal of Pediatric Nursing</i> (2011).
70.	Pediatrics	Siberry GK, Diener-West M, Schappell E, Karron RA (Department of Pediatrics, School of Medicine, The Johns Hopkins University). Comparison of temple temperatures with rectal temperatures in children under two years of age. <i>Clinical Pediatrics</i> , pp 405-414, July/August 2002.
71.	Pediatrics	Roy S, Powell K, Gerson LW (Akron Children's Hospital). Temporal artery temperature measurements in healthy infants, children, and adolescents. <i>Clinical Pediatrics</i> , pp 433-437, June 2003.
72.	Peri-operative	Harper CM (Royal Sussex County Hospital Brighton, UK). The need for an accurate noninvasive thermometer. <i>Anesth Analg.</i> 2009 Jul;109(1):288; author reply 288-9.

73.	Pharmacy	Canales AE (Texas Tech University Health Sciences Center). OTC device: temporal scanner TAT-2000C. <i>J Am Pharm Assoc</i> (Wash DC). 2007 Jan-Feb;47(1):112.
74.	School nurse	Pappas M. Understanding the different methods for taking a temperature. <i>NASN School Nurse</i> 2012 27: 254 originally published online 5 July 2012.