



EXERGEN
TemporalScanner™

Clinical & Cost Benefits

EXERGEN TemporalScanner™

Accurate

- Clinical Accuracy:**
+/-0.2°F or 0.1°C per ASTM E112
- Range:** 61°F -110°F (16°C - 43°C)
- Resolution:** 0.1°F or °C
- AHB™ Sample Rate:** 1000/sec

Settled Science – Over 50 Peer-Reviewed Published Studies

The Exergen TemporalScanner has been clinically proven in premier university hospitals to be more accurate than ear thermometry, and better tolerated than rectal thermometry, and is supported by more than 50 peer-reviewed published studies covering all ages from premature infants to geriatrics in all clinical care areas.

- Peer reviewed studies on newborn infants through geriatric patients demonstrate the temperatures measured by the Exergen Temporal Artery Thermometer (TAT) to be significantly more accurate than ear thermometers (8, 18, 19, 20, 23, 27, 31, 32, 33, 34, 36, 39, 50)¹; as accurate as rectal temperature

(1, 2, 4, 9, 10, 14, 15, 19, 23, 24, 35, 41, 51, 53, 55), core temperature as measured with an esophageal probe, pulmonary artery catheter, or brain thermistor (1, 2, 3, 8, 11, 14, 15, 28, 31, 33, 34, 39) and outcome (5, 24, 33, 36, 42, 49, 52, 54).

- The Exergen TATs have never been proven inaccurate when compared to the true “Gold Standards” of pulmonary artery catheters, esophageal probes, rectal temperature on a stable patient, and outcome.
- When temperature is rapidly changing, rectal temperature is well known to lag behind arterial temperature on adults and, most recently, rectal lag has been identified in infants (24).

Low Cost

- Reduces direct cost of thermometry by 90%
- Reduces associated waste by 90%
- Clinician time savings of 87%
- Lifetime Exergen Scanner Warranty – Eliminates direct repair costs

- Reduces use of disposables: the Exergen TAT is used by ~60% of the hospitals in the US. Of these, ~92% have approved wiping the sensor head between patients with an alcohol swab, or with whatever has been approved in their facility for wiping the stethoscope diaphragm between patients.
- Supports Go Green Environmental Initiatives.

- Disposable caps and sheaths that enclose the entire instrument are available for use where preferred.
- The Exergen TAT provides a payback in approximately 8 months, with near zero expenditure from that point forward, essentially eliminating the cost of patient temperature as a vital sign.

For Use On All Patient Types

Demonstrated accurate for use on all ages

- Newborns 0-3 months (9, 10, 14, 16, 23, 24, 25, 35, 49, 51, 52, 53)
- Infants and children (1, 2, 4, 9, 10, 11, 23, 24, 28, 41, 49, 51, 52, 53, 55)

- Adults through geriatric patients (3, 5, 8, 11, 18, 19, 20, 21, 27, 32, 33, 34, 36, 39, 48)

Patient-Friendly

- Non-invasive
- Enhances patient – caregiver experience
- Temporal measurement is less than 5 seconds

Temperature is measured by gently stroking the Exergen TemporalScanner across the forehead, and includes a momentary touch of the probe to the neck area behind the ear lobe, to account for any cooling of the forehead as a result of diaphoresis.

¹ Numbered references in parenthesis refer to attached list of “Peer-Reviewed Published Papers, Abstracts, Letters on Exergen Temporal Artery Thermometry.” Additional clinical information can be found at Exergen’s Clinical Website at www.TAThermometry.org.

Peer-Reviewed Published Papers, Abstracts, Letters on Exergen Temporal Artery Thermometry as of February 2014

- 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. *Pediatric Academic Societies Annual Meeting*, May 3-6, 2003, Seattle, WA
- 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. *Journal of Pediatric and Child Health*, Vol 9, No 7, pp 461-465, 2004
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