ParaMetric
Core Body Temperature (CBT) Measurement for EMS Providers

Hypothermia and hyperthermia are critical health conditions that pose several risks:
- Heat Stroke
- Respiratory Distress
- The Lethal Triad
  - Blood Clotting
- Hypothermia
- Blood Acidification

And with...
- **4.3 M**
  - Patients affected by hypo/hyperthermia annually
- **$14.5 B**
  - Annual associated healthcare costs

We need core body temperature (CBT) monitoring.

However, current methods of prehospital CBT measurement are:
- Inaccurate
- Invasive
- Disruptive of EMS protocols

Therefore, EMS providers need a more effective CBT measurement tool.

The ParaMetric device:

- Utilizes zero heat flux, which heats the skin to reach thermal equilibrium with the core body temperature
- **Affordably implementable** for EMS systems
- **Non-invasive, small, and easy to use**
- **Accurate** to within 0.4 °C
- **Innovative control system for fast measurements**

Citations:
- c. Hospital and Surgery Costs – Paying for Medical Treatment. (n.d.).
- d. Measuring body temperature using a tympanic thermometer (2020, September 14).
- e. Esophageal Temperature Probe. Life Systems Medical. (n.d.).

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