

e Celsius
Performance

CORE TEMPERATURE
MONITORING IN
SPORTS PERFORMANCE
AND SEVERE ENVIRONMENTS



Jet lag and
performance



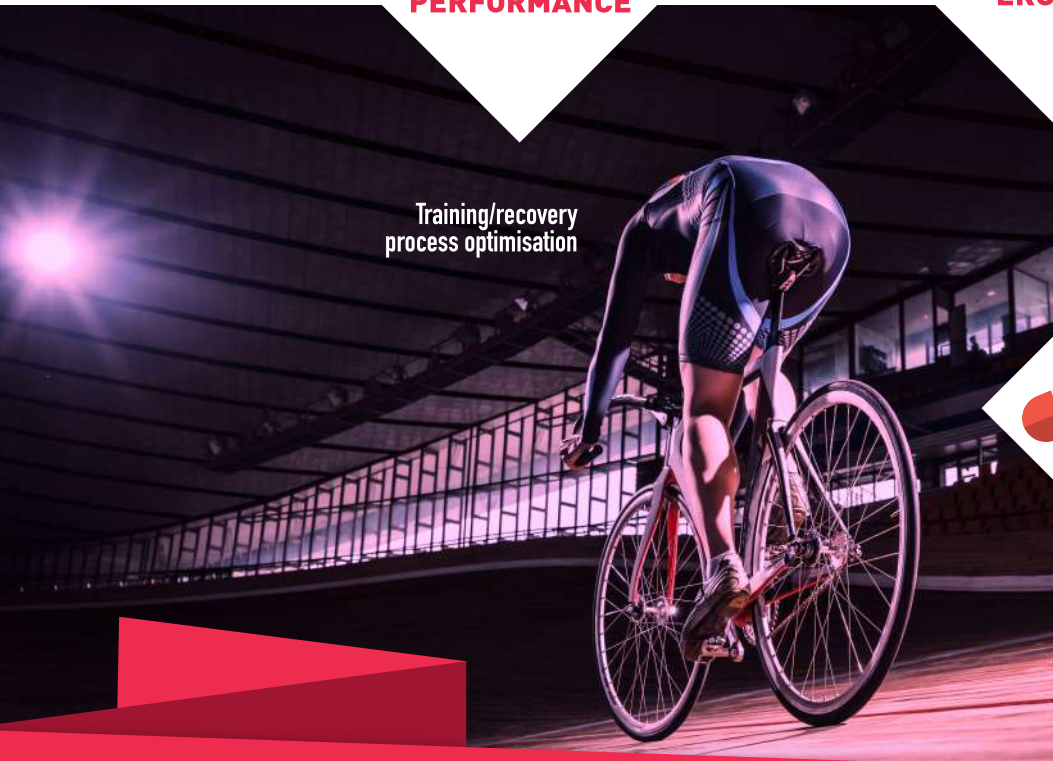
Heat stroke
prevention



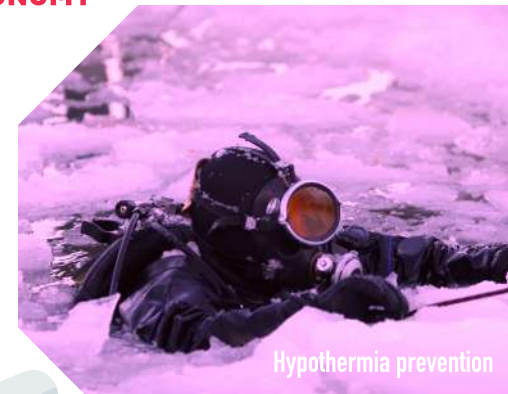
Core temperature control

**SPORT
PERFORMANCE**

ERGONOMY



Training/recovery
process optimisation



Hypothermia prevention



Performance
assessment

e Celsius Performance is an ingestible pill that continuously monitors, records, and wirelessly transmits core body temperature for non-medical use cases. The pill has its own memory which means the subject is not restricted by the usual constraints of monitor wearing. The system provides a highly accurate and continuous core temperature monitoring without any catheter or wire connection.



BodyCAP
Your e-health partner

**AN ACCURATE,
RELIABLE & INNOVATIVE
CORE TEMPERATURE
MONITORING SOLUTION**

**AN
EASY TO USE
SOLUTION**

The solution is designed to combine comfort, agility of use and ensure full data collection. A memory is embedded into the capsule to ensure long term monitoring whatever the conditions. Whether during or after the monitoring session, the data are automatically recovered by the monitor once in the communication range of the capsule.

Accurate and reliable core temperature monitoring is critical for any subject facing hot/cold environments or extreme physical efforts. Scientific publications indicate that external measurement methods such as axillary, temporal or tympanic ones are not accurate in assessing core body temperature in extreme conditions. The e-Celsius Performance solution allows to assess thermoregulation effectiveness, optimize cooling methods or individualize acclimation process.

**AN ACCURATE
CORE TEMPERATURE
MEASUREMENT**

**CIRCADIAN
RHYTHM
MONITORING**

The solution perfectly meets the need to measure and describe the circadian rhythmicity of the subject. In this way, e-Celsius Performance may be used for sleep analysis or in order to prevent the effects of jet lag on performance.



98.6°F – 37°C
Normal core body temperature

+ 0,8°C RISE
+ 25 bpm in submax heart rate
for a 0,8°C rise in core temperature
(Matthews et al., 2010)

1 500
Annual death in USA
due to hyperthermia
(Brown et al., 2012)



TECHNICAL FEATURES

Size of the pill: 17.7 mm x 8.9 mm
Temperature accuracy: $\pm 0.2^{\circ}\text{C}$
Sampling frequency: may be set at your convenience
Internal memory: up to 2000 data
Operational duration: 20 days
Communication range: 1m
CE and FCC compliant

