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Validity and reliability of the myTemp ingestible temperature capsule

RUNNING TITLE: Validity & reliability of the myTemp system

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ABSTRACT

Objectives. An accurate and non-invasive measurement of core body temperature (T_c) is of great importance to quantify exercise-induced increases in T_c in athletes or to assess changes in T_c in patient populations. The use of ingestible gastrointestinal telemetric temperature capsules is widely accepted as a surrogate marker for T_c, but widespread implementation is lacking due to the high costs of these disposable capsules. A new and cheaper temperature capsule system (i.e. myTemp) was recently introduced. The aim of present study is to determine the validity and test-retest reliability of the myTemp system.

Design. Ex-vivo experimental study.

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