Letter to the Editor
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Letter to the Editor

Correction to Tsuji2017

Tsuji 2017 Jappl Physiol (doi 10.1152/japplphysiol.00232.2017 state on page 3 “we are the first to demonstrate that hyperthermia-induced hyperventilation is not suppressed by the resultant hypocapnia”

This is incorrect.

Many previous studies in humans and other species have shown hyperthermia sustaining breathing and furthermore at PCO$_2$ levels lower than Tuji achieved. Thus (Cunningham & O'Riordan, 1957) showed that hyperthermia in Man by 2.9 °C stimulated breathing at PCO$_2$ levels of 25 mmHg. (Iampietro et al., 1961) showed hyperthermia in Man by 3°F stimulated breathing with a PCO$_2$ fall of 25 mmHg. (Rowell et al., 1969) showed hyperthermia in Man by 1.5°C stimulated breathing with a PCO$_2$ fall to 27 mmHg. (Saxton, 1975) showed hyperthermia in Man by 2.5°F stimulated breathing with a PCO$_2$ fall to 22 mmHg and (Boden et al., 2000) showed hyperthermia at 39.5 °C restarting breathing during hypocapnic apnea at 11 mmHg.

Yours

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Reference List


