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Results: During the heat-stress trial, T_c significantly increased (3.6%) and, at 30

minutes of recovery, T_c had decreased significantly (2.6%) for both groups.

Although not significant, the time for return to baseline T_c was 22.6% faster for the

vest group (43.8 ± 15.1 minutes) than for the no-vest group (56.6 ± 18.0 minutes), and the cooling rate for the vest group (0.0298 ± 0.0072°C/min) was not significantly different from the cooling rate for the no-vest group (0.0280 ± 0.0074° C/min). The T_{sk} during recovery was significantly higher (2.1%) in the vest group than in the no-vest group and was significantly lower (7.1%) at 30 minutes than at 0 minutes for both groups.

Conclusions: We do not recommend using the cooling vest to rapidly reduce elevated T_c . Ice-water immersion should remain the standard of care for rapidly cooling severely hyperthermic individuals.

Keywords: hyperthermia, hypohydration, heatstroke

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