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Changes in the indicators of cardiac pumping function of parachutists before jumping and after landing

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Abstract

© 2016, International Journal of Pharmacy and Technology. All rights reserved. Studying the reaction of the cardiac pumping function of the parachutists at various stages of preparation for jump, we found that, as the athletes develop their skills, the difference between the values of heart rate prior to and after landing decreases significantly. At the same time, the least difference in heart rate values prior to and after landing was recorded in the masters of sports of international class. While the athletes of participation classes and masters of sports have this difference maintained at a high level of nearly 69-70 bpm ($P < 0.05$). The maximum difference in heart rate values prior to and after landing was recorded in ex-masters of sports. As the parachutists upgrade their level of fitness, the stroke volume response, on the contrary, increases. However, we detected a negative stroke volume response for the first time in both the beginners and the ex-masters of sports after the jump.

Keywords

Heart rate, Parachutists, Sportsmen of various classes, Stroke volume