

The autonomic regulation of heart rate in athletes with different levels of sensor motor response

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The perception and processing of visual information were one of main part of sporting activity for qualification athletes. But level of neurodynamics and psychic characteristics in competition condition relation with functional states of athletes. One of the key components of human functional states in tension muscular activity is system of autonomic regulation of heart rate. Due the different character of reaction on physical load the relation between system of heart rate regulation and psychophysiological states were non suffice studied in qualification athletes.

The study of peculiarities of autonomic regulation of heart rate in athletes with different level of different levels of sensor motor response 24 athletes of higher qualification, Greco-Roman Wrestling members teams were studied. The neurodynamics functions were studied for individual-typological characteristics of Higher Nervous System and sensory motor reaction by computer's complex «Multipsychometers-05».

The autonomic regulation of heart rate were studied by cardio monitor «Polar-RS800CX». The speed level of sensor motor response in athletes due to a decies of duration, frequency and growth aperiodic fluctuations of cardio intervals.

Conclusions:

1. Growth of the level of sensor motor response in athletes is associated with an increase of tension of autonomic regulation of heart rate due to the weakening of parasympathetic tone.
2. In athletes with high levels of sensor motor response revealed that stochastic functional organization of the regulation of heart rate as a result of adaptation of an athlete to intense muscular activity.

Biography

Georgiy Korobeynikov is a Professor at the Department of Sport Biology, National University of Physical Education, Ukraine. He had done his Doctor of Biology Sciences thesis at Aging peculiarities of functional organization of basic kinds of human activity Defended in National Taras Shevchenko University of Kiev (200). And his Post-graduate study at the Department of Physiology, Sport Faculty, Kiev State Institute of Physical Culture and Ph.D. thesis at Correction of adaptation process of cardiovascular syytem of sportsmen in intensive muscular activity conditions. Defended in Institute of Cybernetics National on Ukrainian Academy of Science (Kiev, 1992). His research interest are psycho physiological and psychological diagnostics in wrestlers and have a diverse interests, which include ethics and social science research aimed at doping use prevention.

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