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The human cardiovascular system as an acceptor of changes in helio-geophysical impacts

Olga Oseeva

International Scientific Research Institute of Cosmic Anthropoecology, Russia

In the scientific and medical community continues to shape the understanding that human health depends on environmental parameters: Atmospheric pressure, geomagnetic conditions, the effects of solar flares and solar radiation (solar wind). Cardiovascular system is most sensitive to these factors. The mortality from cardiovascular diseases ranks first in the total mortality and the study of the influence of helio-geophysical factors on this system is very relevant. Among the methods to assess such effects was highlighted a few: (1) The speed of the pulse wave and endothelial function with hypoxic test were made on the device Tonocard (Moscow), (2) Cardiointervalography with calculation of the tension of the sympathetic and parasympathetic systems, expressed in indexes Baevsky and (3) Original author's interpretation of cardiointervalogram as a sequence of notes, reflecting the musical frequency score, a special music of the heart, recorded on diagnostic and treatment complex Veda-pulse (Biokvant, Novosibirsk, Russia). In music of the heart, the ratio of consonant and dissonant notes in dependence from Sun's status and using of protective means was analyzed. In a series of tests on volunteers was analyzed the influence of drinking water processed image and glasses with embedded hologram, having helioprotectors properties on the performance of the cardiovascular and the autonomic nervous systems, as well as the dependence of light-water holographic effects of helio-physical factors. Thus, in tests with the holographic processed water effect on endothelial function was particularly pronounced and significant. It can be concluded that heliophysical factors have a significant impact on the work of the most important regulatory cardiovascular and autonomic nervous systems. The speed of the pulse wave endothelial function and cardio-intervalography are sensitive indicators of helio-biofunctional conjugation. Promising but as yet little-studied is the integral method of frequency-resonance estimates of spectral-wave characteristics of the Sun and the human heart, the method of analysis of so-called music of the heart, when changing light-fotogalerijas test actions and we tested and confirmed as effective, the method of using of people of protective drinking water on periods of solar and geomagnetic disturbances.

Biography

Olga Oseeva is a Physician and Cardiologist, completed her graduation from Medical School in 1989. She has worked in various programs of International Scientific Research Institute of Cosmic Anthropoecology since 1991 and currently she works as a Doctor in Academician E.N. Meshalkin Novosibirsk State Research Institute of Circulation Pathology. Her basic research interests are heliobiology, cosmic anthropoecology, helioclimatopathology, preventive medicine and cardiology.

o1111@yandex.ru

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