

THE ARCHITECTURE AND OPERATING MODEL OF MOBILE INFORMATION SYSTEM OF PERSONAL RISK FORECASTING OF HEALTH DETERIORATION OF METEOSENSITIVE PERSONS CAUSED BY MAGNETOSPHERIC AND ATMOSPHERIC FACTORS

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Abstract. The article describes the basic principles of construction and the first results of the implementation of new telemedicine system "Veterok", developed by the authors for self-monitoring and forecasting changes in the health depending on changes in meteorological and geomagnetic conditions. The program is intended for everyday use by as patients with disorders of the cardiovascular system, as well as healthy individuals. The forecast is made on the basis of the results of self-measurement of blood pressure, heart rate (by means of household tonometer), and subjective assessments of health. The forecast algorithm is based on multivariate correlation between data series and the level of stress, meteorological and geomagnetic factors. The architecture of a computer system designed for mass application is described and justified. A brief description of the current layout of the system is given. Examples of the results obtained when testing the system by 8 volunteers for three months.

Keywords: meteosensitivity, health's forecast, telemedicine systems.