

Influence research of photostimuls with human biorhythm frequencies on an organism

Andriy Zazulyak, Oleksandr Kozhukhar, Yevhen Kuchak

Abstract - the results of experimental researches of contactless action are Presented through the human receptors of the photostimulation programs with frequencies of biorhythms of human on its psychophysical condition and biophysical parameters.

Keywords - radiation, bloodfilled organ.

Modern medical practice spares application of technology of contactless action of electromagnetic radiation, modulated frequencies of biorhythms of human, which can be passed through photoreceptors[1]. Such influencing, creates the atonic psychophysical condition for a human, allows to treat some chronic illnesses, for example, ear's noises, to promote efficiency of diagnostics of diseases and considerably to improve treatment the known medical technologies and facilities. Actual here is a decision of task of objective evaluation of its operating on an organism by of uncontacted harmless for the organism of human methods.

One of new perspective methods is the method of comparison (to, in a process and after mentioned higher programmable photostimulation) of separate biophysical indexes of bloodfilled organ (BFO), in particular, temperature [2] and optical properties of surface[3]. It is today possible to assert about absence of recommendations in relation to technical realization of similar methods. Taking into account importance and actuality of problem, an attempt to create the biophysical model of the noted dependences and experimentally to probe the changes of electro-physical and biophysical indexes, as a result of programmable the biorhythms of photostimulation technology is done in this work.

For conducting of experimental researches the charts of researches. Thermoconverter (TC) is placed on wasp of optical part which focuses the radiation of FBO on TC, two light-emitting diodes and photodetector. The contactless measuring of change of temperature and optical parameters in the conducted experiment was carried out from FBO. TC was placed on focal distance of lines and removed thermal rays. LEDs are placed so that a photoreceiver fixed passed through BFO and a light stream is removed from his surface.

Measuring of change of thermal and optical parameters of BFO is carried out during bioinfluence on the psychophysical condition of human through visual receptors by the set medical light-informatic program (Fig. 1)

Measurements of changes of optical and temperature parameters of BFO in this experiment were carried out during the action of the medical program of the photostimulation bioinfluence (Fig 1), which lasted 30 minutes [4].

Oleksandr Kozhukhar, Andriy Zazulyak, Yevhen Kuchak - Lviv Polytechnic National University, S. Bandery Str., 12, Lviv, 79013, UKRAINE, E-mail: akozhuha@rambler.ru, anzaz@lviv.farlep.net

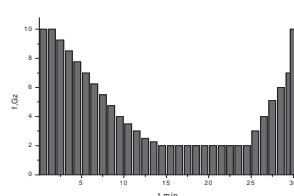


Fig. 1 Frequency sentinel diagram of the medical light-informatic program

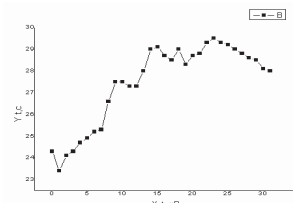


Fig. 2 Change of temperature is in time of photostimulation

The results of experimental researches for one of 20 patients are presented on Fig. 2.

In all of cases for all of the inspected patients the confirmed repetition of dynamics of changes of the measured parameters. Difference of changes in time of these parameters for every patient it was within the limits of 10-15 minutes of action of the medical photostimulation program. Found out sharp a change temperatures and optical (passed and removed light stream) parameters in the first 10-20 minutes of action of the medical program, and subsequent strengthening of these changes, during a next action. The got results conform to the physiology of processes described in literature in the organism of human during stimulation of photoreceptors.

Got results in relation to the changes of temperature, to the coefficient of reflection and admission of light of BFO possibility of the use of this method and made to order parameters of optoelectronic elements is confirmed a chart for practical introduction.

REFERENCES

- [1] I Didych, A. Zazulyak, O. Kozhuhar. The programmable system is for photomedic technologies. *Materialy konferencyjne XIII Miedzynarod. Szkoły Komputerowego wspomaganja projektowanja. Wytwarzania I eksploatacji. Jurata. 11-15 05.2009. , Warszawa, Poland.- WAT 2009.ISBN 978-83-61486-13-8.*
- [2] S/Tonnies,Entspannung fur Tinnitusbetroffene durch Photostimulation // *Springer Medizin Verlag 2006,№ 54, c.481-486*
- [3] Zazulyak, A. Kozhukhar, O.Tkachenko Therapeutic and diagnostic devices based on encephalographic frequencies programmed low intensity photostimulation on visual Receptors. *2 nd Forum Science&Nechnology Days Poland - East. Forum Catalogue. Bialystok. IICoE. Poland.-2009. p. 42.*
- 4] Pat. 42525 Ukraine MKI 6 A 61N5/06 Prystrij dla svitlolikovannya cherez zorovi receptory / Kozhukhar O.T., Skunz N. S., Zazulyak A. M. / (Ukr.)- № u 200900964; Zayavl.: 09.02.2009. Opubl.: 10.07.2009; Bjul. № 13.