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Initial course of remote training of doctors
on a problem: "Functional biodiagnostics and
Correction of vegetative infringements at children".*

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76.29.47-pediatrics; 76.35.35-rehabilitation;
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*... According to recommendations the CART of one of
bases of medicine at the present stage should become
electro diagnostics on points of acupuncture and reflex-
otherapy ... [the International meeting the CART on
traditional medicine. Yerevan, 19-20.09.2003].*



**FUNCTIONAL BIORHYTHMS.
SYSTEM DYNAMICS DAILY VEGETATIVE ACTIVITY (message-17).**

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The resume. Questions of system dynamics of daily vegetative activity are considered. Its dependence on a phase of Lunar activity is shown. The attention to specific dynamics of functional systems of the first complex is paid. Identification of system dependence specifies in necessity of detailed studying of the revealed phenomenon.

Keywords. Is functional-vegetative system, functional biorhythms, phases of the Moon, system dependence.

The short preface. Problem article "Functional biorhythms. Dynamics of daily vegetative activity" is devoted the unknown person before Is functional-vegetative system of the person (FVS) and is a fragment of proofs of its biophysical reality. In article following designations of channels of the acupuncture (meridians) are used, traditional which name is presented today by concept about interdependent functional systems: LU - lungs; LI-thick intestines; a ST-stomach; a SP-spleen (pancreas); HT-heart; SI-small intestines; a BL-bladder; KI-kidneys; a PC pericardium; a TE-threefold heater (lymphatic system); a GB-gall bladder and a LR-liver.

Analogs the presented experimental materials aren't present.

Research objective - the information of the scientific and medical public on the unknown person before Is functional-vegetative system of the person. Open phenomena confirm a biophysical reality of channels of acupuncture (meridians) of traditional Chzhen-tszju of therapy, its system cha-

racter and the direct relation to a vegetative homeostasis. Biophysical audit of traditional positions specifies in a number of theoretical and practical errors that demands additional specialization of experts and corresponding correction of curriculums.

Materials and research methods. Supervision over functional (vegetative) health of the children's population of Ukraine were spent under the Program "System of two stages of rehabilitation of vegetative infringements at children living in a zone of radiating control of Ukraine" (Commissions of the Cabinet of Ukraine №1861/4 and №12010/87)" on the basis of an original method of vegetative biodiagnostics (on V.Makats) [1-2; 4-9; 15-16]. Its methodology is proved by unknown earlier biophysical phenomena, has original standard base and is characterized by comparability of the received results at repeated researches. Under the Program it is surveyed more than 18.000 children of a different floor and age.

Results of research and their discussion. The problem of dynamics of daily activity of functional systems and its dependence on some cosmophysical factors has demanded long supervision within three years. In the program of researches active participation was accepted by L.Troshina, whose work on prospective subjects of the master's thesis, unfortunately, hasn't been finished to the logic end.

Studied vegetative indicators were investigated throughout days, in each hour per different phases of Lunar activity. Supervision groups consisted of students-volunteers of Vinnitsa state pedagogical university of M.Kotsjubinsky, living in university hostels. 213 students of a female have taken part in supervision at the age of 18-22 years.

FUNCTIONAL SYSTEMS AND PHASES OF THE MOON TH OF ACTIVITY.

VEGETATIVE FACTORS AND PHASE ACTIVITY OF THE MOON (FIG. 1).

Daily dynamics of vegetative factors k synchronous with a condition of total activity of functional systems of group JAN also is asynchronous total activity of functional systems of group the YIN (3.130 supervision). Three characteristic periods are thus shown: dynamic advantage JAN of activity in with 100 to 900, the hourly condition differently directed the YIN-JAN with 1000 to 1500-1600 and the subsequent dynamic advantage the YIN to 2400. Thus it is necessary to notice that noted daily specificity total the JAN-YIN of activity practically doesn't depend on a phase of Lunar activity. Some specificity the YIN of activity is observed only in a phase of the Full Moon. There is a question, whether depend activity separate functional systems from cosmophysical factors, in particular on phase activity of the polarized light of the Moon?

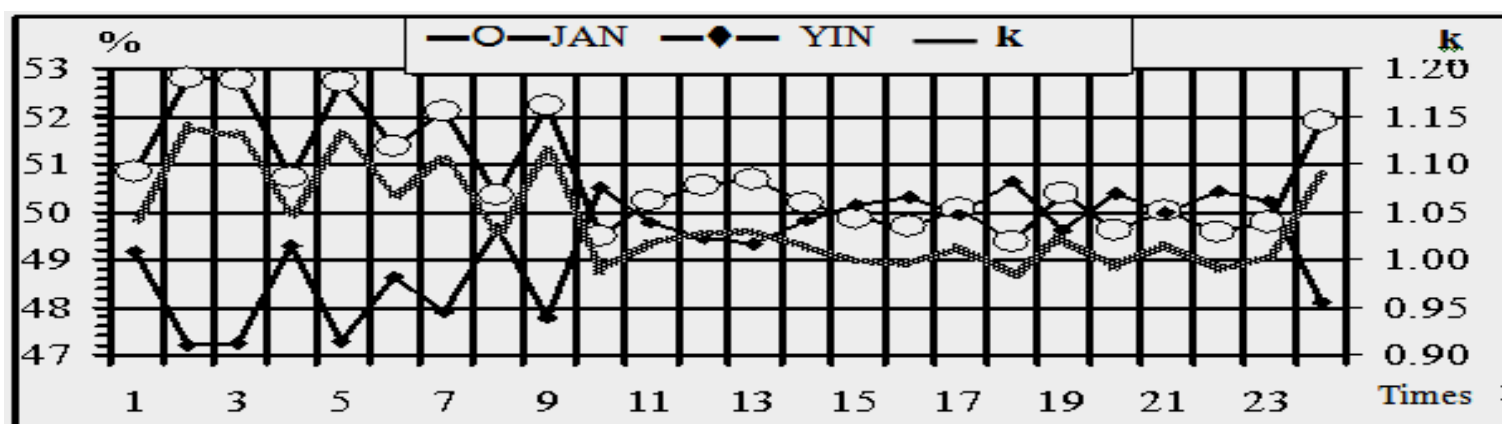


Fig. 1a Dynamics of vegetative factors in a phase of the New Moon

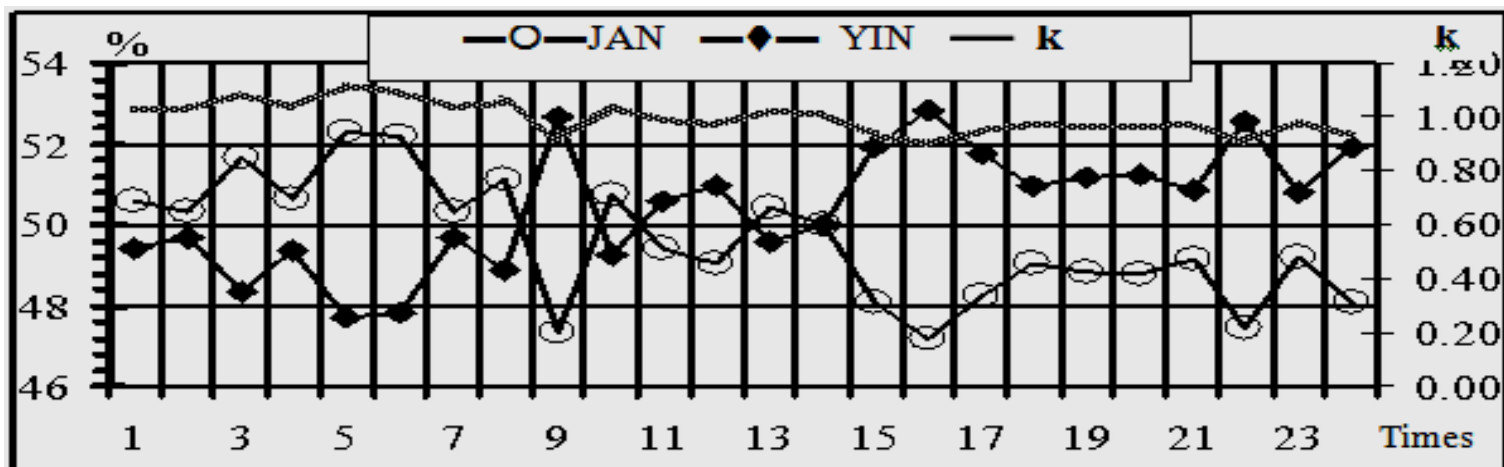


Fig. 1b Dynamics of vegetative factors (the first $\frac{1}{4}$ of activity of the Moon)

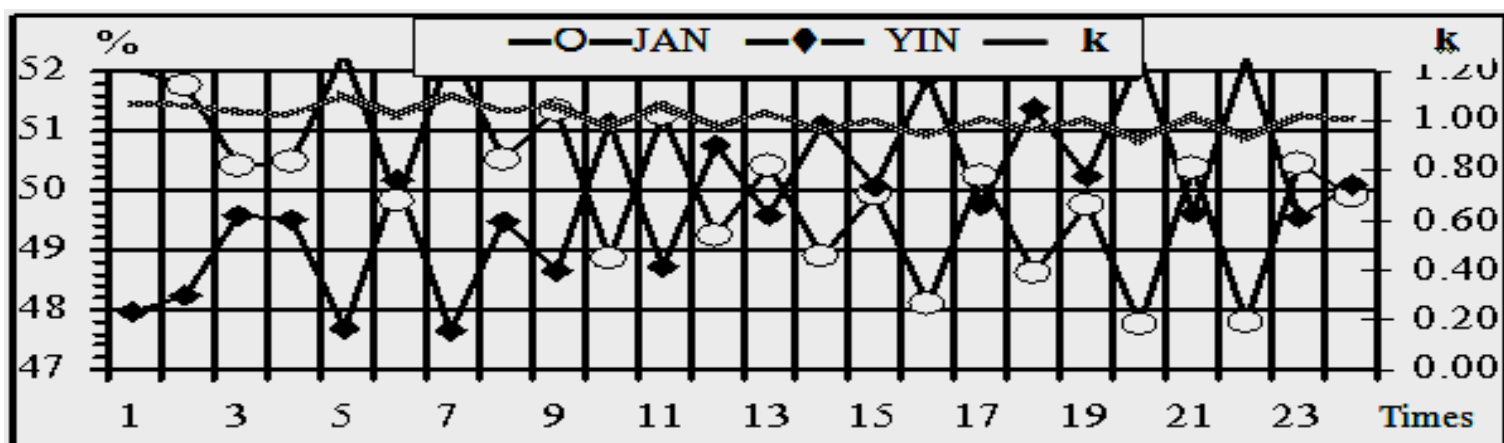


Fig. 1c Dynamics of vegetative factors (a phase of the Full Moon)

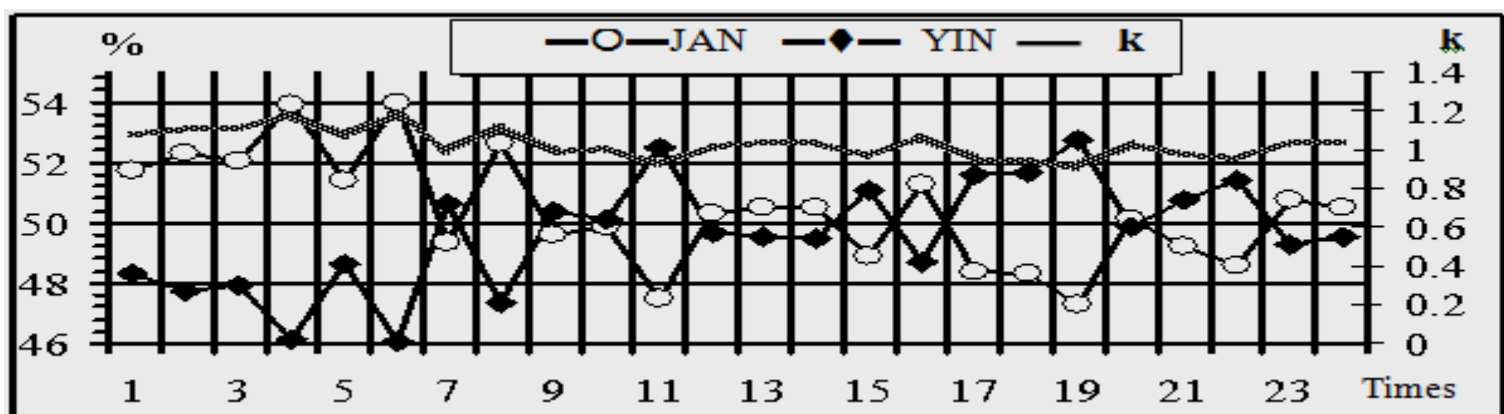


Fig. 1d Dynamics of vegetative factors (the second $\frac{1}{4}$ of activity of the Moon)

FUNCTIONAL SYSTEMS AND PHASE ACTIVITY OF THE MOON (FIG. 2).

The received materials testify to specific dynamics of the separate systems which activity throughout days fluctuates mainly "to, or above a zone of functional norm". On this background channels BL, KI, TE and LI differ. Their activity depends on a phase of the Moon and fluctuates from an oppression zone, to an excitation zone. Thus, the special attention is deserved by functional system BL (about it further).

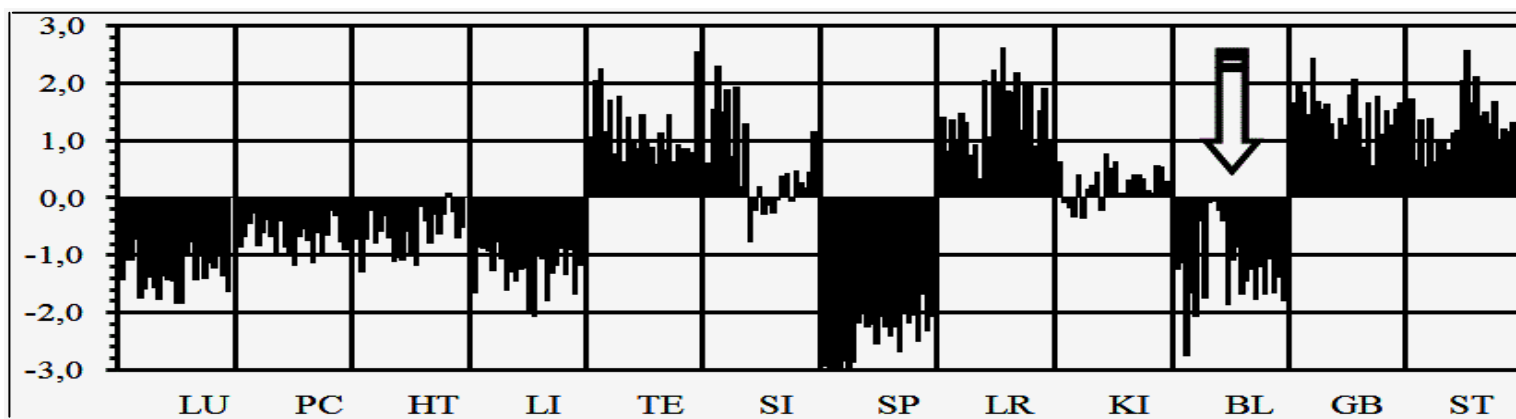


Fig. 2a Daily activity FS in a phase of the New Moon (715 supervision)

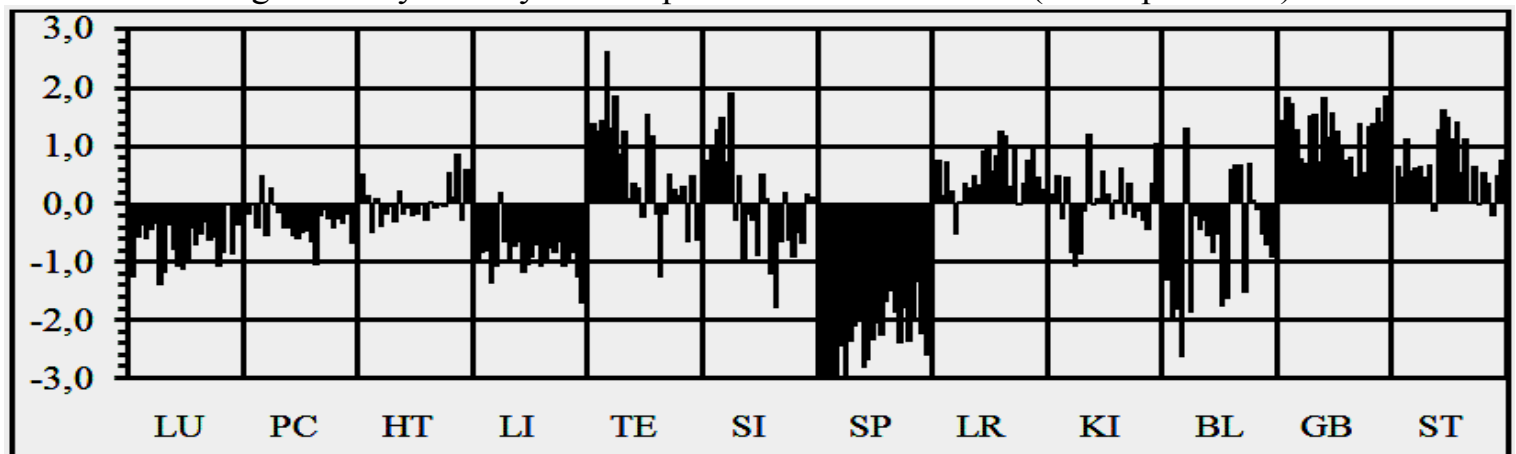


Fig. 2b Daily activity FS in first 1/4 of Moon (624 supervision)

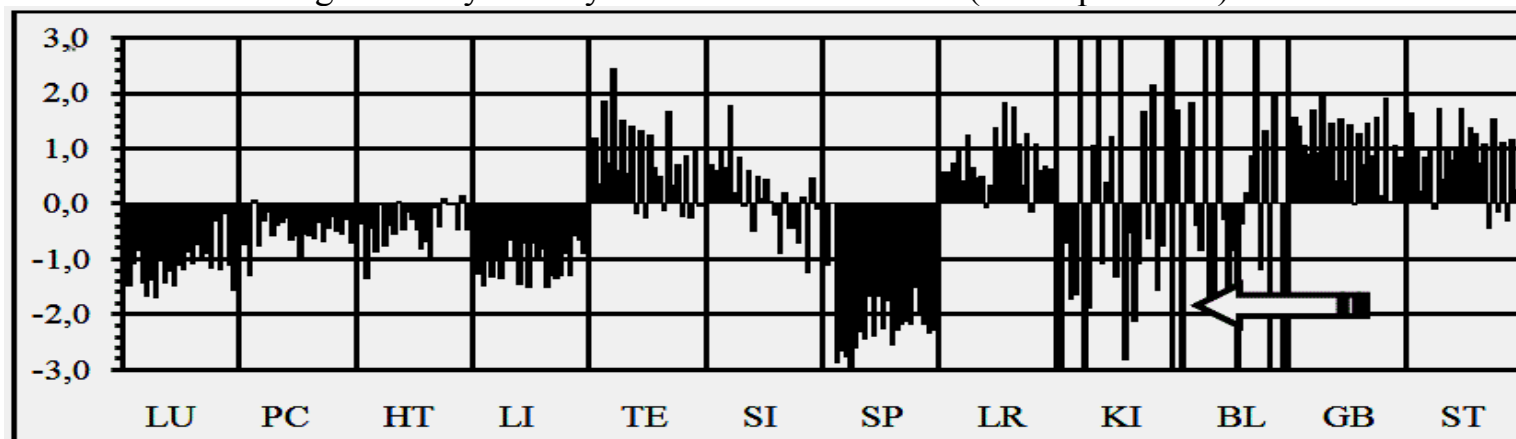


Fig. 2c Daily activity FS in a phase of the Full Moon (578 supervision)

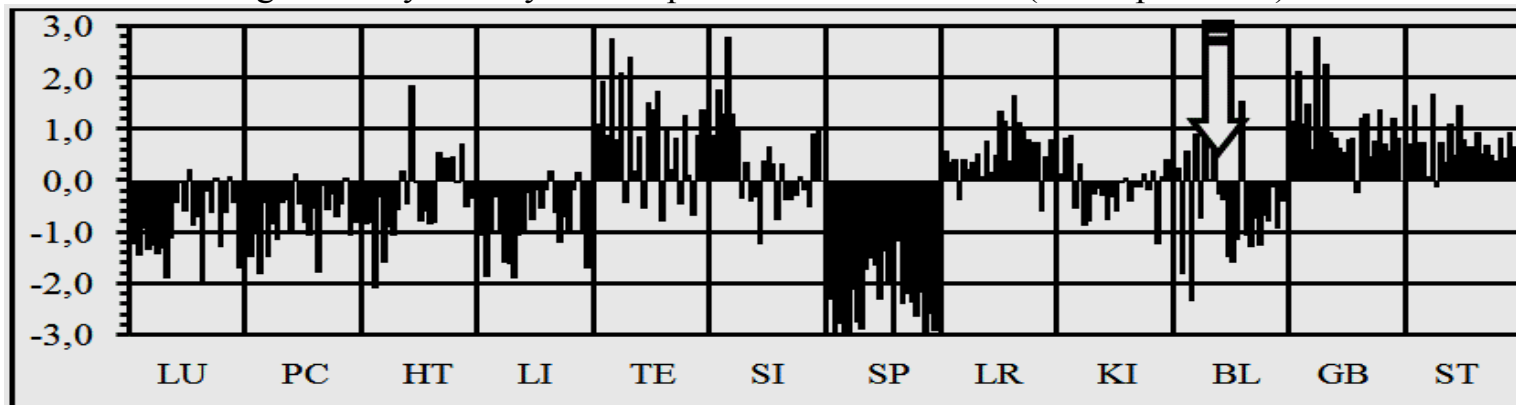


Fig. 2d Daily activity FS in second 1/4 of Moon (710 supervision)

Specificity of activity of separate systems has brought the following attention to the question: whether activity of separate functional complexes depends on a phase of the Moon?

FUNCTIONAL COMPLEXES AND PHASE ACTIVITY OF THE MOON (FIG. 3).

On dynamics of total activity of the first functional complex (FK-1; SP-BL) the phase condition of the Moon influences. Under the Full Moon its rhythmical fluctuation round a zone of own norm, and in a phase of New Month, on the contrary, oppression below a norm zone is observed. It is indicative that in the first and second quarter total activity FK-1 has oscillatory (passing a norm zone) character. The second complex of functional systems (LI-TE-SI) doesn't depend on the Lunar phase. Thus attracts attention its activity asynchronously dependent from FK -1.

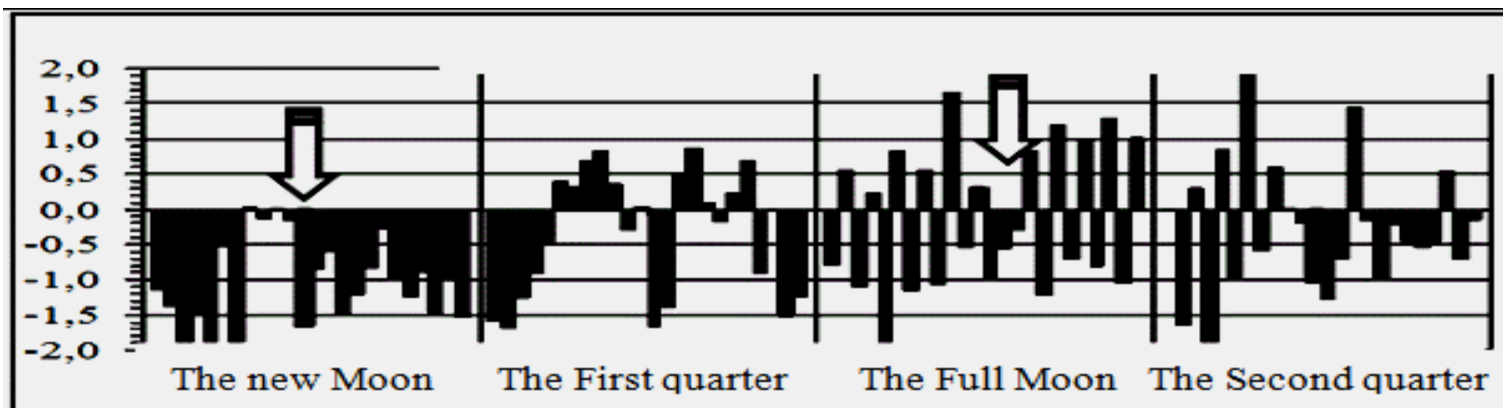


Fig.3a Phase activity FK-1 (average data SP-BL)

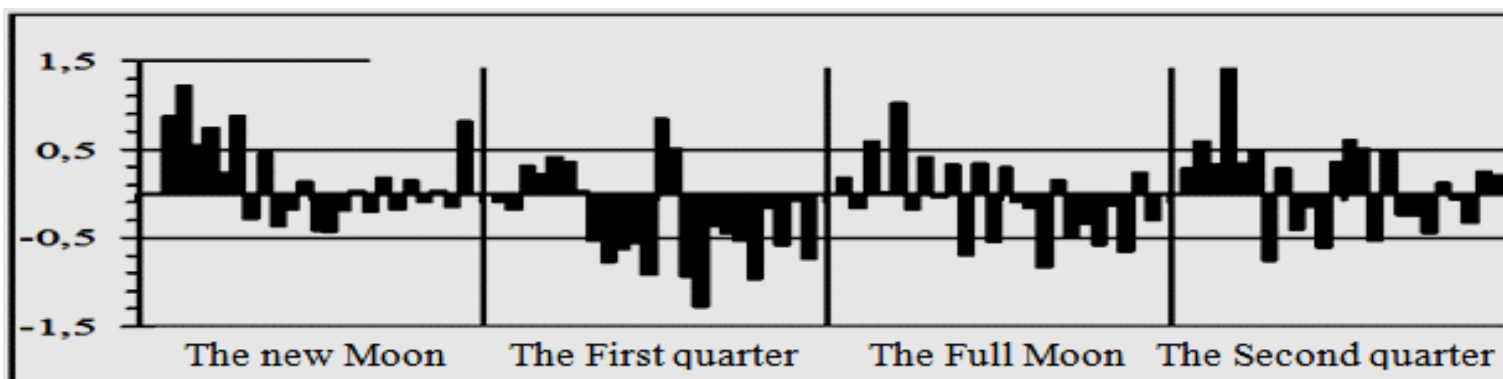


Fig. 3b Phase activity FK -2 (average data LI-TE-SI)

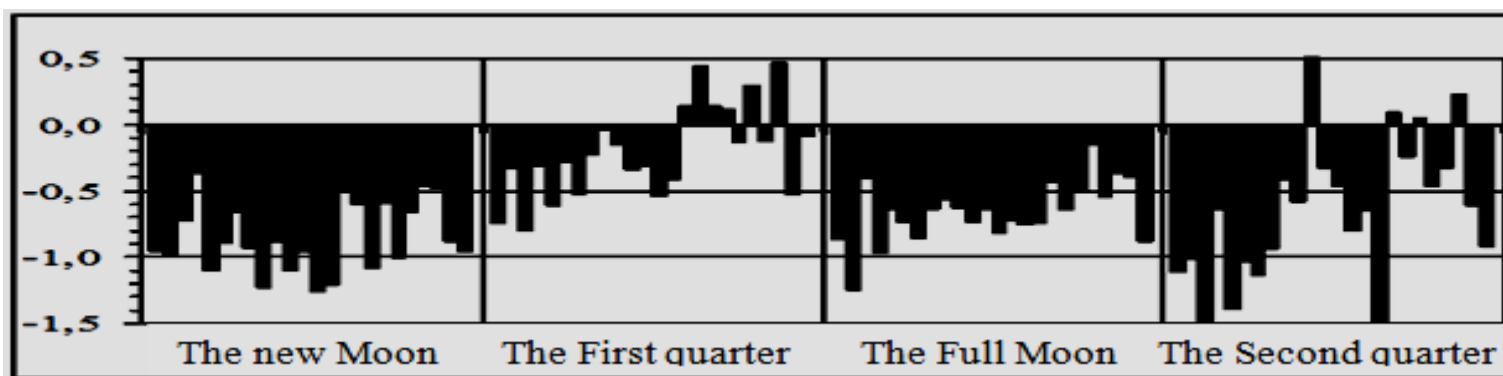


Fig. 3c Phase activity FK -3 (average data P-MC-C)

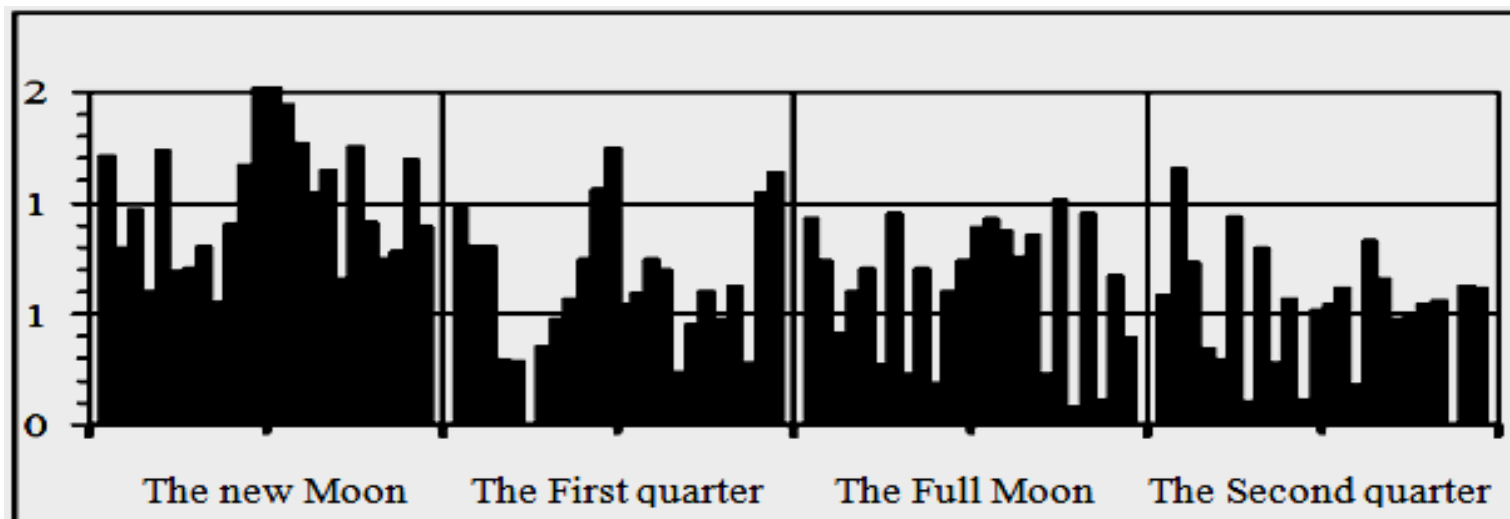
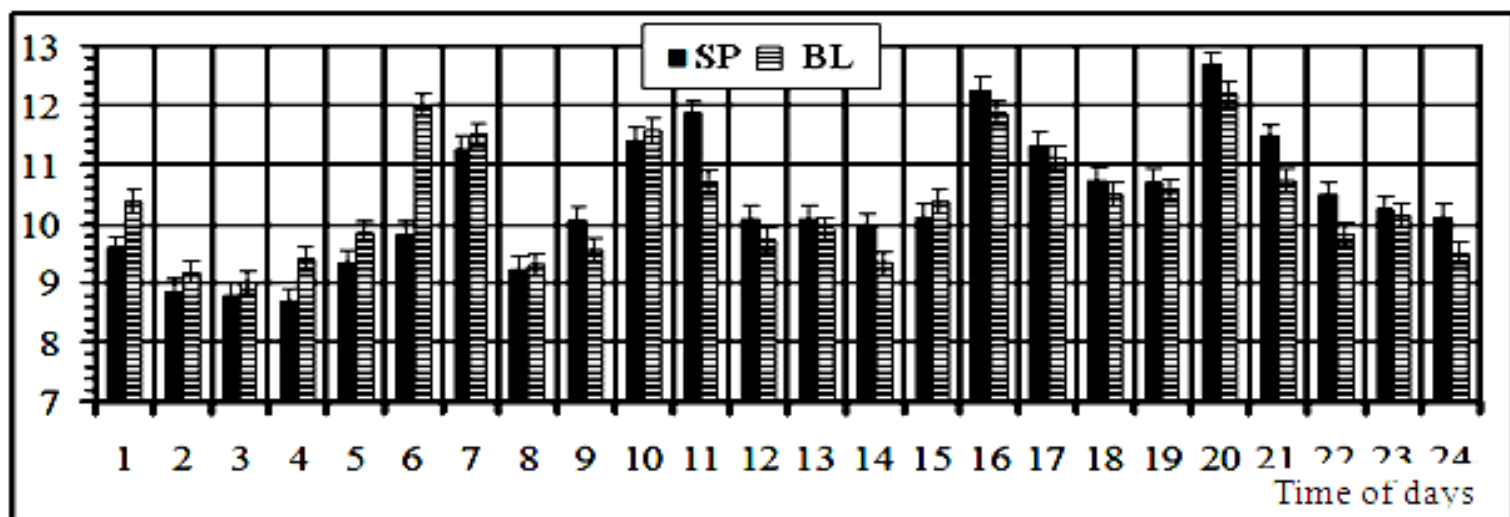


Fig. 3d Phase activity FK -4 (average data ST-KI-GB-LR)

Daily dynamics of total activity of the third and fourth functional complexes directly doesn't depend on the Moon phase. Attracts attention their specific relation to a norm zone. If total activity $\Phi K-3$ (LU-PC-HT) irrespective of the Moon phase is in an oppression zone (below own norm) activity of the fourth ΦK (ST-KI-GB-LR) constantly is in an excitation zone. There is a question on value of separate systems in specific activity of functional complexes?

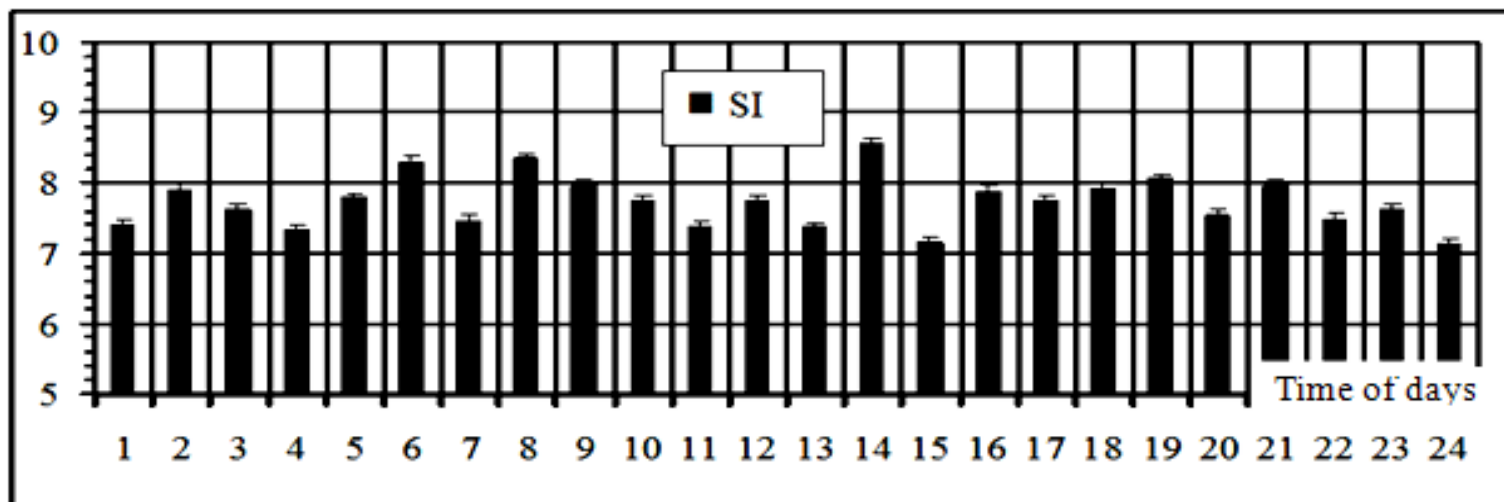
DAILY ACTIVITY OF SEPARATE FUNCTIONAL SYSTEMS (FIG. 4).

As supervision over daily activity of functional systems (3.688 cases) testifies, their profiles in the second, third and fourth complexes don't coincide among themselves. Only systems FK-1 (SP-BL) have unidirectional in time and space functional dynamics that testifies to their certain biorhythm. Now still early to speak about their leading value, but to understand this point in question it is extremely necessary.

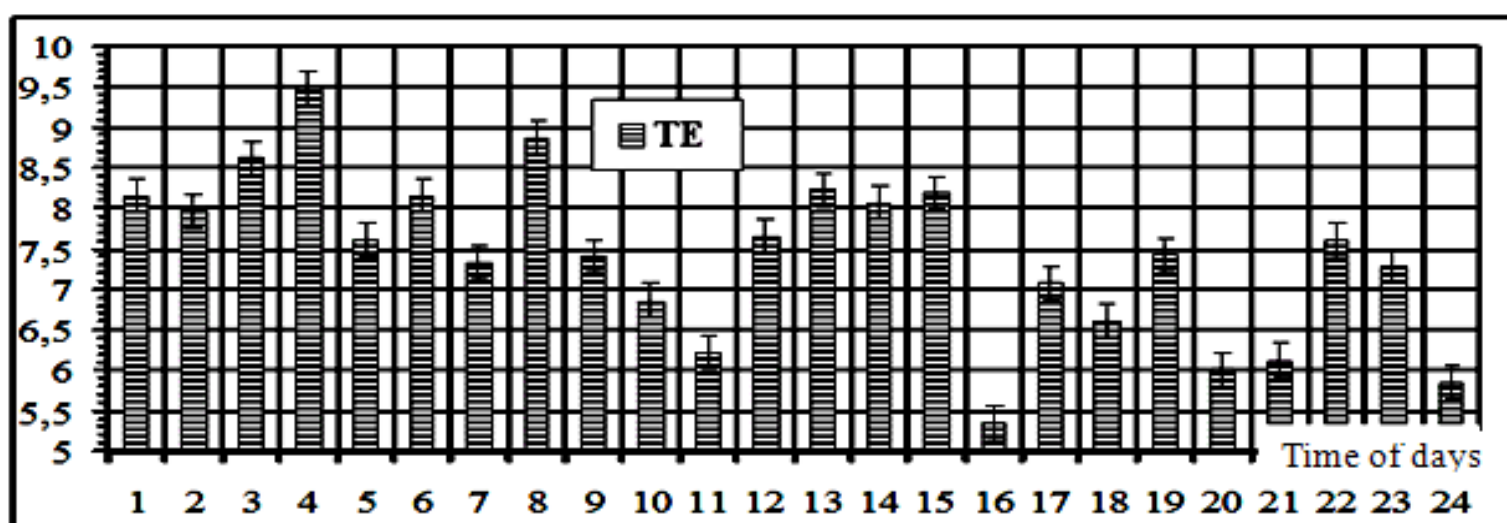


Daily dynamics of functional systems SP-BL...

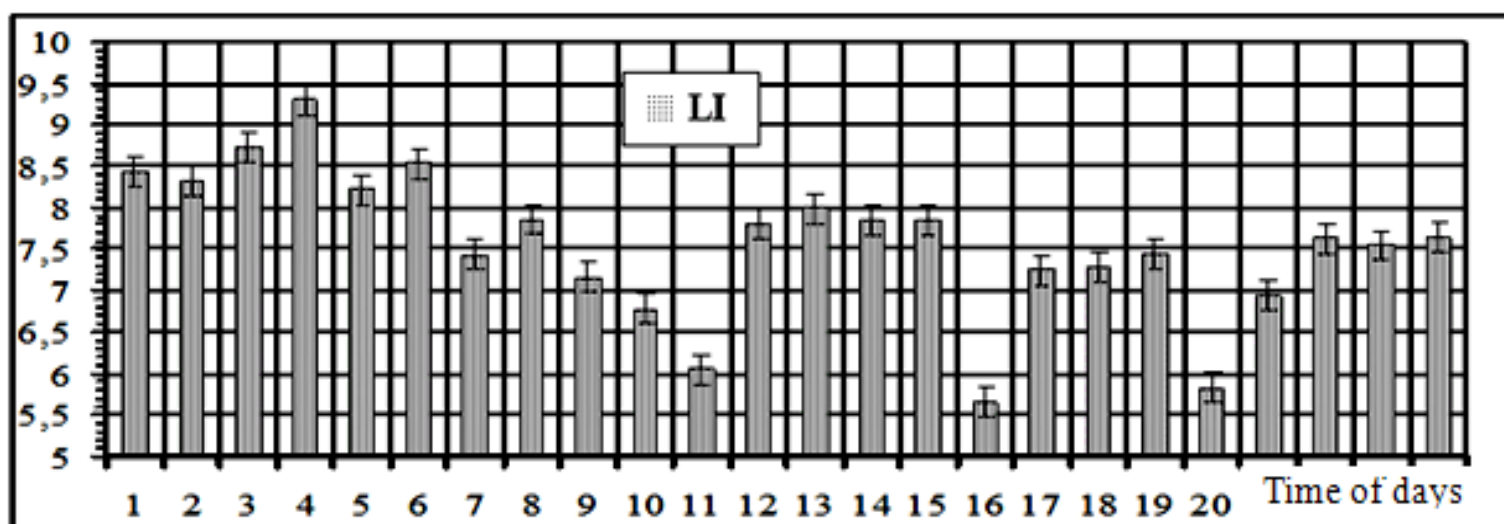
Рис.4a Daily dynamics of functional systems of the first complex.



Daily dynamics of functional system SI ...

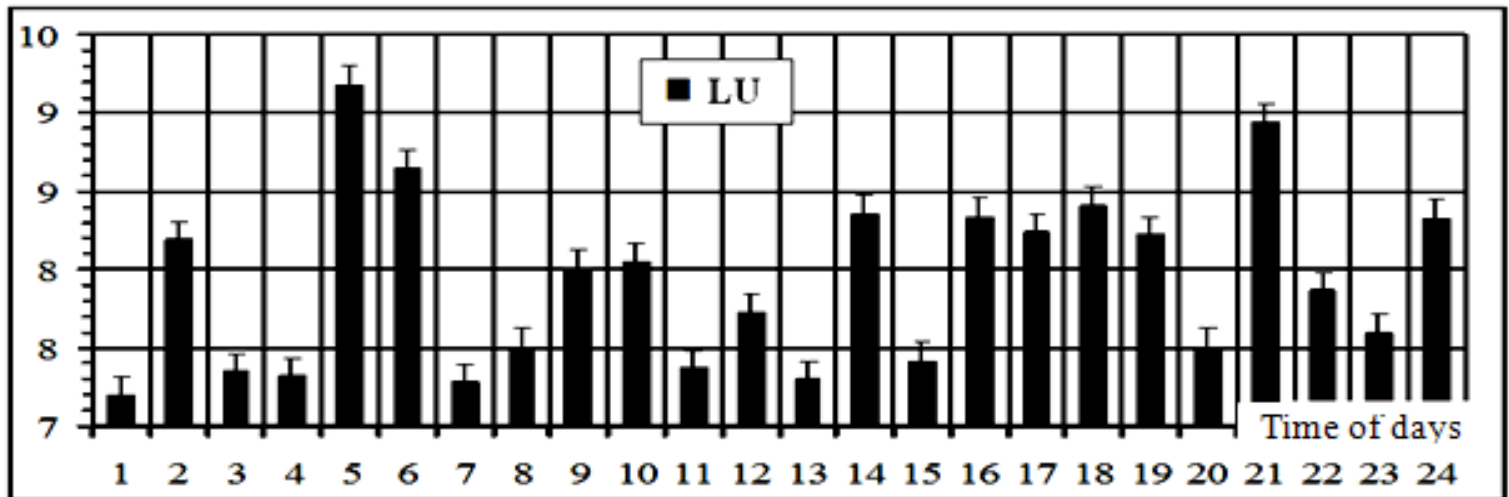


Daily dynamics of functional system TE...

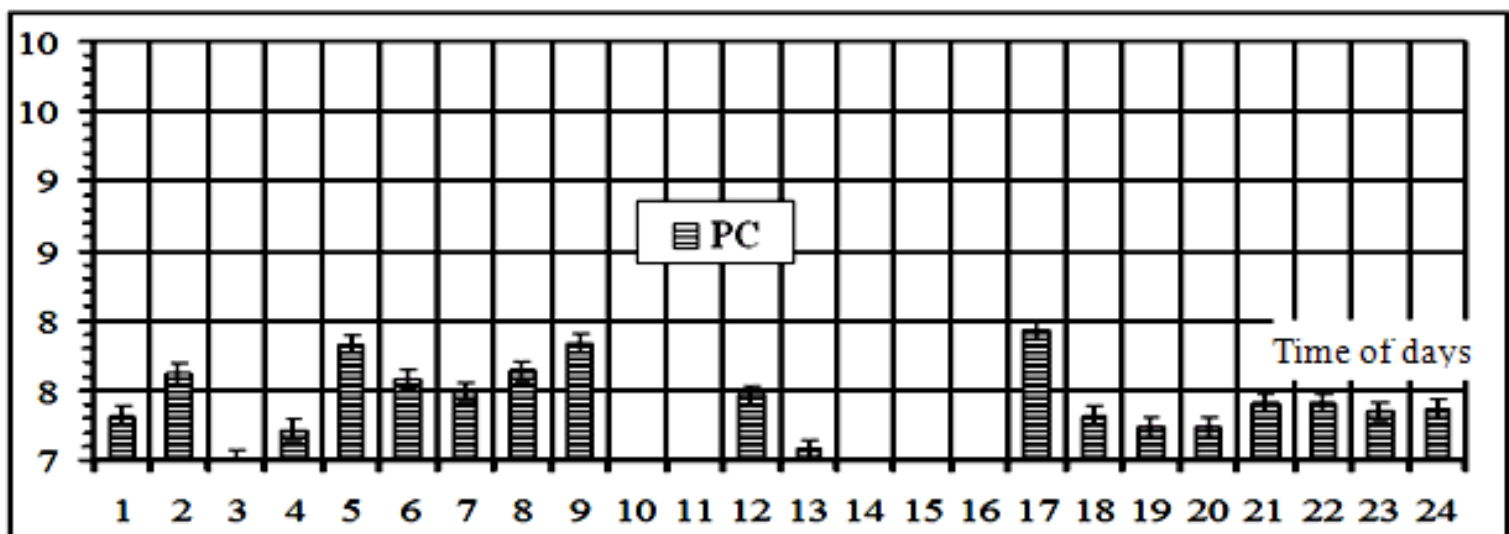


Daily dynamics of functional system LI...

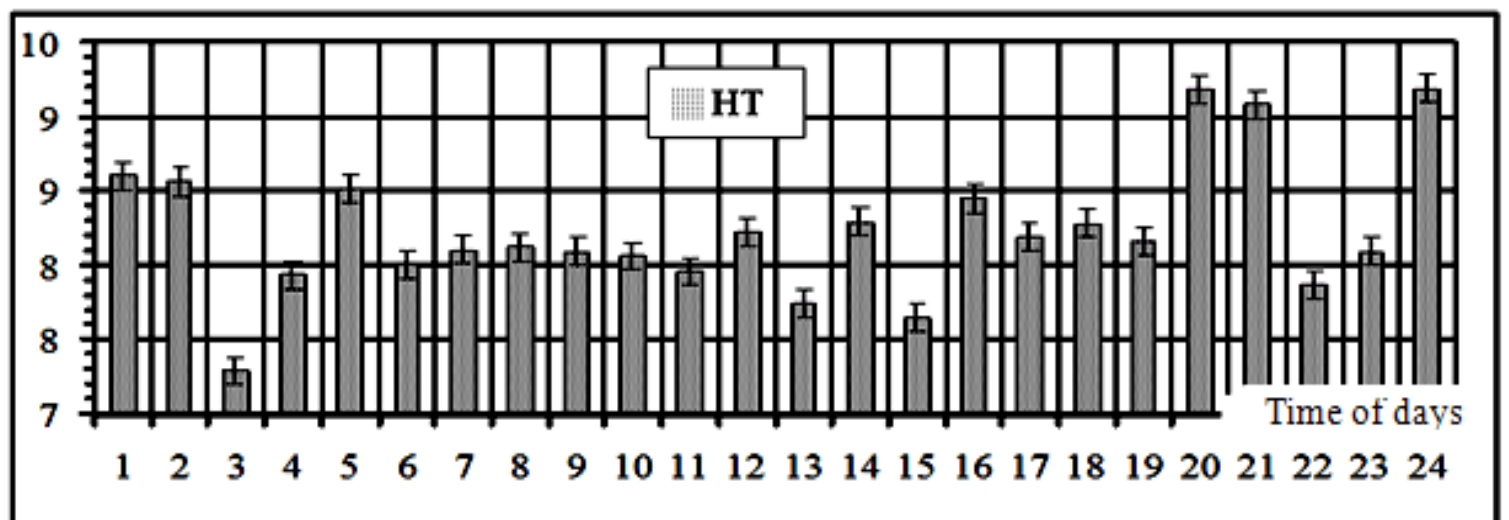
Fig. 4b Daily dynamics of functional systems of the second complex.



Daily dynamics of functional system LU...

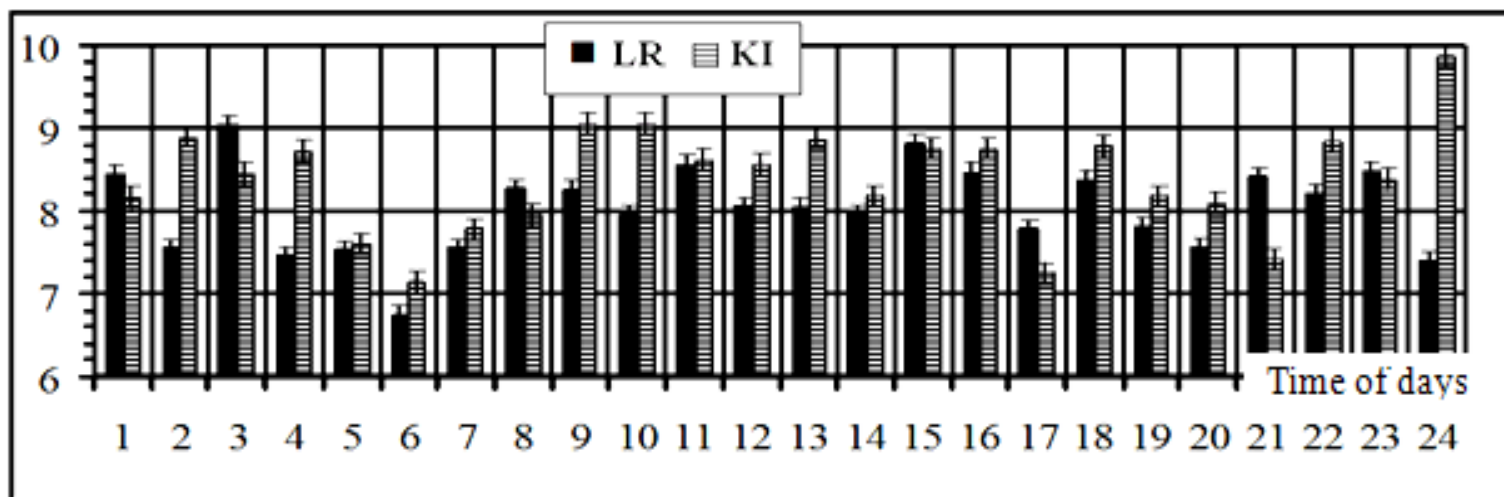


Daily dynamics of functional system PC...

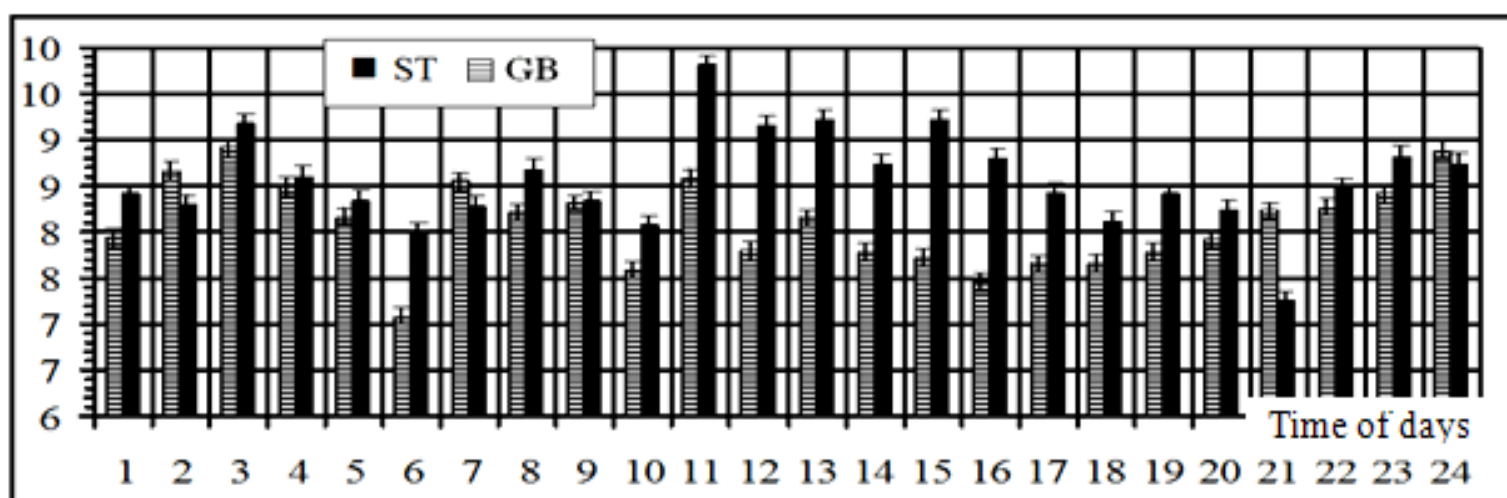


Daily dynamics of functional system HT...

Fig. 4c Daily dynamics of functional systems of the third complex.



Daily dynamics of functional system LR и KI...



Daily dynamics of functional system ST и GB...

Fig. 4d Daily dynamics of functional systems of the fourth complex

The attentive analysis of the resulted experimental material allows making some the certain conclusions.

Conclusions.

1. Daily dynamics of vegetative factors (k) synchronous with a condition of total activity of functional systems of group JAN also is asynchronous total activity of functional systems of group the YIN.

2. The received materials testify to specific dynamics of channels BL, KI, TE and LI which activity, depending on a phase of Lunar activity, throughout days occupies a zone "to, or above" functional norm.

3. The special attention is deserved by the functional system BL which daily dynamics specifically depends on a phase of Lunar activity.

4. Identification of system dependence testifies to necessity of the further studying of the revealed biophysical phenomenon.

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