School of Professor V.G.Makats (Ukraine - prof.Makats@gmail.com)



MAKATS D.V.

VEGETATIVE COMPLEXES "ACUPUNCTURE SYS AS BIOPHYSICAL REALITY

(FINAL INFORMATION)

Senior researcher (European centre for postgraduate education of doctors of the PO the "Ukrainian National Academy of Natural Sciences")

Summary. Evidence of a previously unknown biophysical reality - "Functional-vegetative complexes of acupuncture summary. Evidence of a previously unknown biophysical reality - "Functional-vegetative complexes of acupuncture canals" (FC) is given. Their vegetative essence and interdependence are shown. Attention is drawn to four complexes (FK-1 = BL-GB-ST, FK-2 = SP-LR-KI, FK-3 = SI-TE-LI and FK-4 = LU-PC-HT) whose directed activity provides dynamic stability of vegetative homeostasis, forms its "vegetative profiles" and functional pathogenesis. Their opposite activity indicates the predominance of parasympathetic, or sympathetic activity (with ideal vegetative equilibrium system profiles are at the level of "zone-0"). Open phenomena pointed to the reality of the "Functional-vegetative matrix" (the following information) and the possibility of predicting the "consequences of acupuncture procedures."

Key words: "acupuncture canals", functional-vegetative complexes, vegetative profiles, theory and practice of traditional Then-Tsylu therapy.

ditional Zhen-Tszyu therapy

Резюме. Наведено докази невідомої раніше біофізичної реальності - "Функціонально-вегетативні компле-кси акупунктурних каналів" (ФК). Показана їх вегетативна сутність і взаємозалежність. Звертається увага на чотири комплекса (ФК-1 = BL-GB-ST, ФК-2 = SP-LR-KI, ФК-3 = SI-TE-LI і ФК-4 = LU-PC-HT) спрямована активність яких забезпечує динамічну стабільність вегетативного гомеостазу, формує його "вегетативні профілі" і функціональний патогенез. Їх протилежна активність вказує на перевагу парасимпатичної, або профил і функціональний папіогенез. Іх пропіштежна актійвність вказує на перевагу парасимпатичної, або симпатичної активності (при ідеальній вегетативній рівновазі системні профілі знаходяться на рівні "зона-0"). Відкриті феномени указують на реальність "Функціонально-вегетативної Матриці" (наступна інформація) і можливість прогнозу "наслідків акупунктурних процедур".

Ключові слова: "акупунктурні" канали, функціонально-вегетативні комплекси, вегетативні профілі, теорія і практика Чжень-цзю терапії

Резюме. Приведены доказательства неизвестной ранее биофизической реальности - "Функциональновегетативные комплексы акупунктурных каналов" (ФК). Показана их вегетативная сущность и взаимозависимость. Обращается внимание на четыре комплекса (ФК-1=BL-GB-ST, ФК-2=SP-LR-KI, ФК-3=SI-TE-LI и ФК-4=LU-PC-HT) направленная активность которых обеспечивает динамическую стабильность вегетативного гомеостаза, формирует его "вегетативного торых обеспечивает" и функциональный патогенез. Их противоположная активность указывает на преобладание парасимпатической, или симпатической активности (при идеальном вегетативном равновесии системные профили находятся на уровне "зона-0"). Открытые феномены указали на реальность "Функционально-вегетативной Матрицы" (следующая информация) и возможность просноза "последотвий акупунктурных процедур".

Ключевые слова: "акупунктурные каналы", функционально-вегетативные комплексы функциональные профили, теория и практика Чжень-изю терапии

Introduction

Today, classical physiology and pathophysiology are gradually losing their leading value in the contemporary natural science. Deservedly becoming a scientific (inc.luding informational) engine of the 19-20 centuries, in the 21 century they inhibit innovations that do not fit into the old paradigm.

A striking example of the above is officially twenty-year old official-scientific blockade of the recently discovered human functional-vegetative system. The latter has confirmed the biophysical reality of acupunctural channels of the traditional *Zhenjiu* therapy, its direct relation to the vegetative homeostasis, and reasonably requires its place in the modern system of physiology.

Today it is clear that the systemic responses are a reflection of functional and informational interdependence. This interdependence requires focused maintenance of influence, its elimination and permanent control of dynamic autonomic stability.

This provision provides for the existence separate functional groups (complexes), oriented at maintenance (functional support) of the prognosed influence. In other words, acupunctural channels must have informational-interdependent complex structure. The latter is being controlled by cosmophysical dependency (functional two-hour rhythm) and three types of systemic reactions: synchronous, asynchronous and paradoxical.

The specified types of interaction always accompany any functional changes during the existence of a biological object (including periodic changes in the active lifestyle to passive and vice versa). At the same time, paradoxical reactions appear as previously unknown informational factor that controls the dynamics of functional-vegetative homeostasis and is targeted to normalize its pathological deviations.

Before considering the presented material, let us recall that specific feature of separate FC are the same type (synchronous, asynchronous or paradoxical) responses, conditioned by the dynamics of excitation (oppression) of the leading system of influence.

It is necessary to pay attention to the essence of previously unknown paradoxical reactions: if the activity of the controlled system synchronously corresponds to the activity of the influence channel, then above this zone it acquires the opposite direction. As a matter of fact, the" paradoxical reactions "are universal mechanism of control and regulation of functional-vegetative pathogenesis ...

And the last. Under the definition of "Functional-vegetative complexes" (FC), we mean groups of acupuncture canals with typically directed dynamics, which causes specific vegetative activity.

Before considering these materials, let us pay attention to the classification of "Functional-autonomic human systems" (acupuncture channels, Table 1) and their vegetative orientation due to "vegetative coefficients" (k-V; Table 2).

At the same time, let us pay attention to the separate functional complexes (FC) of the "acupuncture channels": FC-1 (BL-G-ST), FC-2 (SP-LR-KI), FC-3 (SI-TE-LI) and FC -4 (LU-PC-HT). The increase in the activity of the functional systems of FC-1 and FC-3 causes the sympathetic orientation of vegetative homeostasis, and the growth of systemic activity of FC-2 and FC-4 is a parasympathetic orientation (and vice versa) [1,2,4,5].

Before considering these materials, let us pay attention to the classification of "Functional-autonomic human systems" (acupuncture channels, Table 1) and their vegetative orientation due to "vegetative coefficients" (k-V; Table 2).

Table 1 Acupuncture channels (meridians) for the international nomenclature of the WHO

Traditional Traditional IAN IAN FN FN channel channel Urinary LU P BLV Lungs bladder Large LI GI Kidney KI R intestine ST Pericardium PC MC Stomach Ε Spleen -Triple SP RP TE TR Pancreas energizer Heart HT $\overline{\mathbf{c}}$ Gall bladder GB $\overline{\text{VB}}$ Small SI IG Liver LR F intestine

*IAN -International Acupuncture Nomenclature (WHO); FN - its French analogue.

Table 2 Functional-vegetative attention zone by size k-V

ZONE OF ATTENTION OF VEGETATIVE COEFFICIENTS

COEFFICIENTS		
VALUE of k	ZONE OF FUNCTIONAL ATTENTION	SYMBOL OF ZONE
to 0,75	syndrome of significant para- sympathetic prevalence	PA-s
0,76-0,86	syndrome of significant para- sympathetic prevalence;	РА-е
0,87-0,94	zone of functional compensa- tion of parasympathetic ac- tivity	FcP
0,95-1,05	zone of functional-vegetative equilibrium	VE
1,06-1,13	zone of functional compensa- tion of sympathetic activity	FcS
1,14-1,26	syndrome of expressed sym- pathetic prevalence	SA-e
1,26 and >	syndrome of significant sym- pathetic prevalence	SA-s

Materials and methods

The biophysical reality of the FC is proved by the materials of the study of the vegetative health of the child population of Ukraine. His study was carried out using the method of "Func-

tional-vegetative diagnostics" according to V.Makats, which is admitted to the practical application of the Ministry of Health of Ukraine [1,3]. For the analysis, a sufficient number of children of different age groups (8,416 in the female group and 5,875 in the male group).

FVD does not use traditional external sources of current, has an original normative base and the only one of modern "acupuncture diagnostics" causes the comparability of repeated results of the survey ... The probability of the obtained indicators was estimated by means of parametric and nonparametric statistics. The analysis of the results was carried out on the basis of the computer programs "Search" (development of the European Center for Postgraduate Education of the PO Ukrainian National Academy of Natural Sciences).

In view of the problematic nature of the issue, the gender-age peculiarities of systemic and vegetative dependence will be considered when excitement and inhibition of individual channels in women's and men's groups. The number of observations in the female group was 9,947 cases, and male - 5.492.

Results and discussion

In the first place, one should consider the biophysical reality of certain FC "acupuncture channels" and their functional-vegetative orientation.

1. FIRST FUNCTIONAL COMPLEX (FC-1) BL-GB-ST (YANG-GROUP,).

1.1. THE FIRST FUNCTIONAL COMPLEX IN THE "GREAT CIRCLE"

First we consider the interconnected system-functional dynamics of "acupuncture channels" in their traditional sequence in the "Big Circle" (BL-KI-PC-TR-GB-LR-LU-KI-ST-SP-HT-SI). At the same time, pay attention to the following:

- the given material refers to a mixed-aged male group (MG);
- the group is formed at the level of "vegetative equilibrium" (k-V = 0.95-1.05);
- Increasing excitation of any channel FC-1 (BL-GB-ST) "up to and above its own zone of norm" simultaneously causes a multidirectional systemic dependence in the form of synchronous, asynchronous and paradoxical reaction. The revealed phenomenon testifies to the biophysical reality of systemic dependence (Fig.1.1-3).

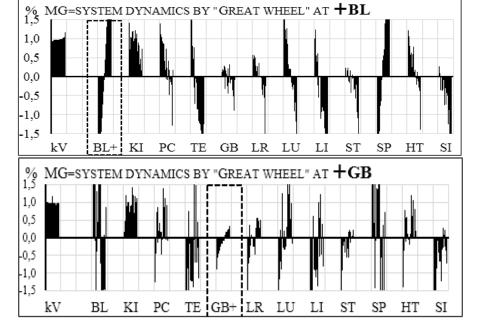


Fig.1.1 Multidirected activity of channels through the Big Cycle under the excitation of **BL**

Fig.1.2 Multidirected activity of channels through the Big Cycle under the excitation of **GB**

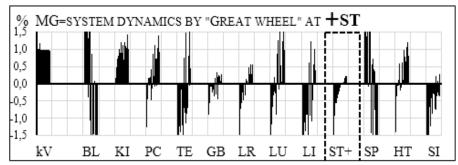


Fig.1.3 Multidirected activity of channels through the Big Cycle under the excitation of **ST**

Fig.1.1-3 FK-1 in the channel system of the "Big Circle"

1.2. VEGETATIVE ORIENTATION WITH ± INDIVIDUAL SYSTEMS FK-1= BL-GB-ST.

The first basic complex (FC-1) includes acupuncture channels BL-ST-GB (YANG-group). In addition in the female (WG) and male (MG) groups:

- excitation (or inhibition) of activity BL forms a "neutral vegetative orientation" and specific system dynamics in other complexes (k-V within the limits of 0,95-1,05, fig.1.4);
- The excitation of the activity of GB-ST forms the "sympathetic orientation" of the vegetative homeostasis and the specific system dynamics in other complexes (k-V +; fig. 1.5-6);
- depression) of activity of GB-ST forms "parasympathetic orientation" of vegetative homeostasis and specific system dynamics in other complexes (k-V –; fig.1.5-6);
- Let's pay attention that FC-1 and FC-2 are combined by the synchronous interdependence of their basic functional systems BL-SP ...***
- **1.2.1.** Violations of the activity of the base system BL (upstream and above the zone of functional norms and vice versa) cause a "neutral vegetative orientation" and a specifically opposite systemic dynamics in other complexes (k-V within the range of 0.95-1.05, fig.1.4). At the same time, in all observation groups typical signs of separate functional complexes are preserved.

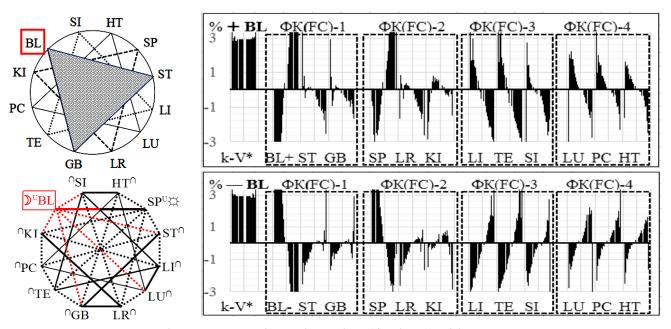


Fig. 1.4 Vegetative orientation (for k-V) with \pm **BL**

1.2.2. Excitement of GB (before and above the zone of functional norm) causes paradoxical reactions from the channels ST-BL (Φ K-1) and SP-LR-KI (AR-2) and forms a "sympathetic orientation" of vegetative homeostasis (Fig.1.5).. Inhibition of GB (before and below the zone of functional norms) causes the "parasympathetic orientation" of vegetative homeostasis and

paradoxical synchronism from the side of the channels ST-BL (Φ K-1) i SP-LR-KI (Φ K-2). In this case, other systemic groups are typical signs of individual functional complexes.

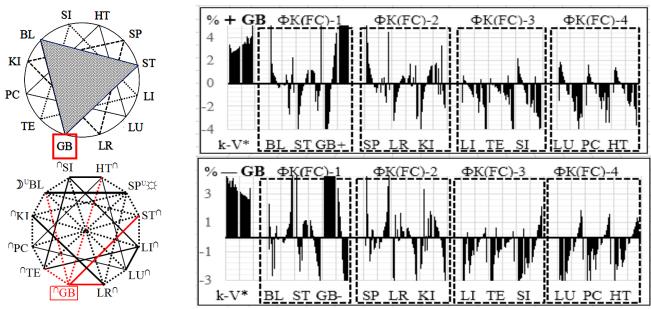


Fig. 1.5 Vegetative orientation (for k-V) with \pm GB

1.2.3. Excitement of ST (before and above the zone of functional norm) causes paradoxical reactions from the channels GB (Φ K-1) i KI (Φ K-2), пригнічення BL (Φ K-1) та SP (Φ K-2) and forms a "sympathetic orientation" of vegetative homeostasis (Fig.1.6). Inhibition of ST (before and below the zone of functional norms) causes the "parasympathetic orientation" of vegetative homeostasis, excitement of BL and paradoxical synchronism from the side of the channels GB (Φ K-1) i KI (Φ K-2). In this case, other systemic groups are typical signs of individual functional complexes.

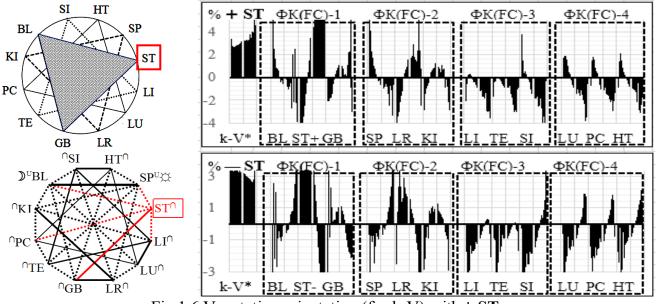


Fig. 1.6 Vegetative orientation (for k-V) with \pm ST

- 2. THE SECOND FUNCTIONAL COMPLEX IN THE "GREAT CIRCLE" (FC-2=SP-LR-KI; YIN -GROUP).
 - 2.1. THE SECOND FUNCTIONAL COMPLEX IN THE "GREAT CIRCLE"

First we consider the interconnected system-functional dynamics of "acupuncture channels" in their traditional sequence in the "Big Circle" (BL-KI-PC-TR-GB-LR-LU-KI-ST-SP-HT-SI). At the same time, pay attention to the following:

- the given material refers to a mixed-aged male group (MG);
- the group is formed at the level of "vegetative equilibrium" (k-V = 0.95-1.05);
- Increasing excitation of any channel FC-2 (SP-LR-KI) "up to and above its own zone of norm" simultaneously causes a multidirectional systemic dependence in the form of synchronous, asynchronous and paradoxical reactions. The revealed phenomenon testifies to the biophysical reality of systemic dependence (Fig.2.1-3).

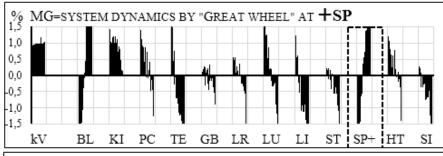


Fig.2.1 Multidirected activity of channels through the Big Cycle under the excitation of **SP**

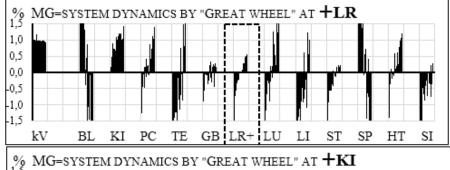


Fig.2.2 Multidirected activity of channels through the Big Cycle under the excitation of **LR**

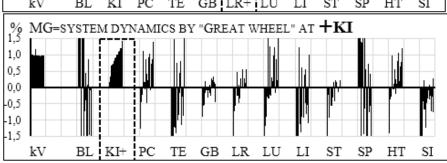


Fig.2.3 Multidirected activity of channels through the Big Cycle under the excitation of **KI**

Fig.2.1-3 FK-1 in the channel system of the "Big Circle"

2.2. VEGETATIVE ORIENTATION WITH \pm INDIVIDUAL SYSTEMS FK-2=SP-LR-KI.

The second basic complex (FC-2) includes acupuncture channels SP-LR-KI (YIN -group). In addition in the female (WG) and male (MG) groups:

- the excitation of the activity of SP-LR-KI forms the "parasympathetic orientation" of the vegetative homeostasis and the specific system dynamics in other complexes (k-V-; fig.2.4-6);
- depression) of activity of SP-LR-KI forms "sympathetic orientation" of vegetative homeostasis and specific system dynamics in other complexes (k-V +; fig.2.4-6);
- Let's pay attention that FC-1 and FC-2 are combined by the synchronous interdependence of their basic functional systems BL-SP...
- **2.2.1.** Excitement of SP (upstream and above the zone of functional norms) causes inhibition of LR-KI channels and forms a "parasympathetic orientation" of vegetative homeostasis (Fig.2.4). Inhibition of SP (up to and below the zone of functional norm) causes "sympathetic orientation" of vegetative homeostasis and excitation of channels LR-KI. Please note that FC-2

and FC-1 are combined by the synchronous interconnection of their basic functional systems SP-BL. Other system groups are typical features of individual functional complexes.

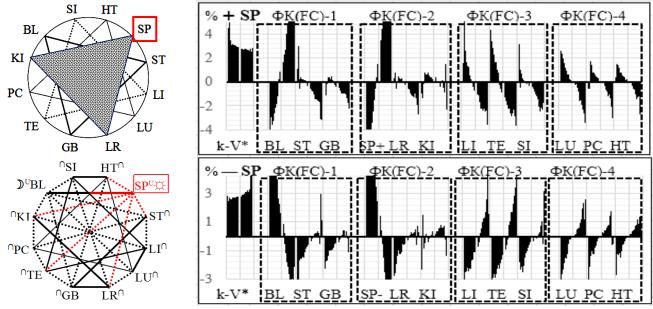


Fig. 2.4 Vegetative orientation (for k-V) with \pm SP

2.2.2. Excitement of LR (upstream and above the functional norm) causes paradoxical reactions from the channels KI (FC-2) and GB (FC-1), synchronous suppression of SP and BL (FC-1) and forms a "parasympathetic orientation" of vegetative homeostasis (Fig. 2.5). The oppression of LR (up to and below the functional norm zone) causes "sympathetic orientation" of vegetative homeostasis, excitation of SP and BL (FC-1), paradoxical synchronism from the channels KI (FC-2) and GB (FC-1). In this case, other systemic groups are typical signs of individual functional complexes.

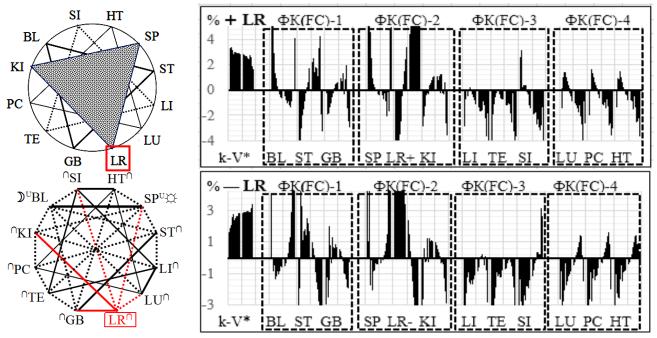


Fig. 2.5 Vegetative orientation (for k-V) with \pm LR

2.2.3. Excitement of KI (upstream and above the zone of functional norm) causes paradoxical reactions from the channels LR (FC-2) and ST (FC-1), suppression of SP, and forms a "parasympathetic orientation" of vegetative homeostasis (Fig.2.6). The inhibition of KI (before and

after the zone of functional norm) causes "sympathetic orientation" of vegetative homeostasis, excitation of SP and BL (FC-1), paradoxical synchronism from the channels of LR (FC-2) and ST (FC-1). In this case, other systemic groups are typical signs of individual functional complexes.

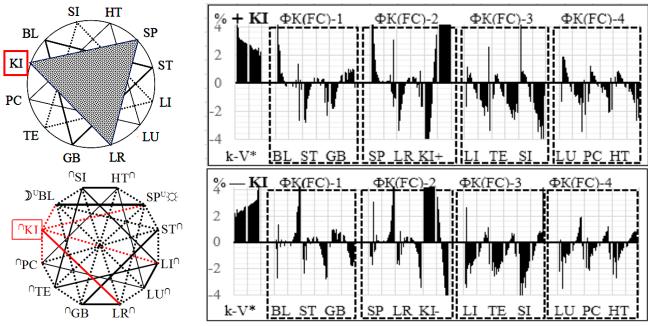


Fig. 2.6 Vegetative orientation (for k-V) with \pm KI

3. THIRD FUNCTIONAL COMPLEX (FC-3) SI-TE-LI (YANG group).

3.1. THE THIRD FUNCTIONAL COMPLEX IN THE "GREAT CIRCLE"

First we consider the interconnected system-functional dynamics of "acupuncture channels" in their traditional sequence in the "Big Circle" (BL-KI-PC-TR-GB-LR-LU-KI-ST-SP-HT-SI). At the same time, pay attention to the following:

- the given material refers to a mixed-aged male group (MG);
- the group is formed at the level of "vegetative equilibrium" (k-V=0,95-1,05);
- Increasing excitation of any channel FC-3 (SI-TE-LI) "up to and above its own zone of norm" simultaneously causes a multidirectional systemic dependence in the form of synchronous, asynchronous and paradoxical reactions. The revealed phenomenon testifies to the biophysical reality of systemic dependence (Fig.3.1-3).

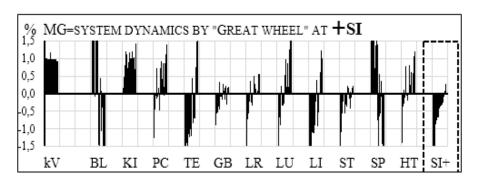


Fig.3.1 Multidirected activity of channels through the Big Cycle under the excitation of **SI**

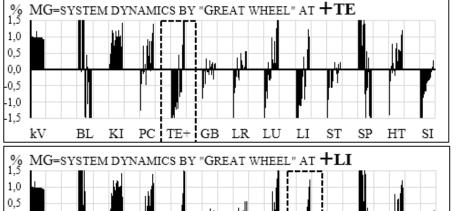


Fig.3.2 Multidirected activity of channels through the Big Cycle under the excitation of **TE**

9/9 MG=SYSTEM DYNAMICS BY "GREAT WHEEL" AT **+LI**1,5
1,0
0,5
0,0
0,5
1,0
1,5
kV BL KI PC TE GB LR LU LI+ ST SP HT SI

Fig.3.3 Multidirected activity of channels through the Big Cycle under the excitation of **LI**

Fig.3.1-3 FK-3 in the channel system of the "Big Circle"

3.2. VEGETATIVE ORIENTATION WITH ± INDIVIDUAL SYSTEMS FK-3= SI-TE-LI.

The third basic complex (FC-3) includes acupuncture channels SI-TE-LI (YANG group) - the dominant activity of which causes the sympathetic (YANG) orientation of the vegetative homeostasis. At the same time, in the FC-3 the pacemaker (rhythm driver) is the functional system TE. In the female (WG) and male (MG) groups, the excitation (or inhibition) of their activity forms a typical systemic dynamics in the remaining complexes (Fig.3.1-3).

3.2.1. Excitement of SI (upstream and above the functional norm) causes paradoxical reactions from the channels TE-LI (FC-3), BL (FC-1), and forms a "sympathetic orientation" of vegetative homeostasis (Fig.3.4). Inhibition of SI (before and below the zone of functional norms) causes the "parasympathetic orientation" of vegetative homeostasis and paradoxical reactions from the channels TE-LI (FC-3), BL (FC-1). In this case, other systemic groups are typical signs of individual functional complexes.

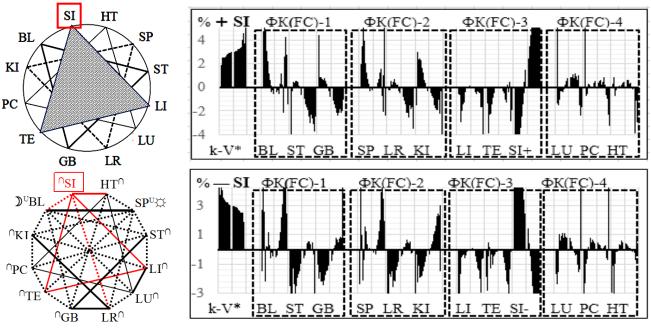


Fig. 3.4 Vegetative orientation (for k-V) with \pm SI

3.2.2. Excitement of TE (upstream and above the functional norm) causes excitation of SI-LI, paradoxical reactions from the channels of LU-PC-HT (FC-4) and forms a "sympathetic orientation" of vegetative homeostasis (Fig. 3.5). The suppression of TE (before and after the functional norm zone) causes the suppression of SI-LI, paradoxical reactions from the channels of LU-PC-HT (FC-4) and forms the "parasympathetic orientation" of vegetative homeostasis. In this case, other systemic groups are typical signs of individual functional complexes.

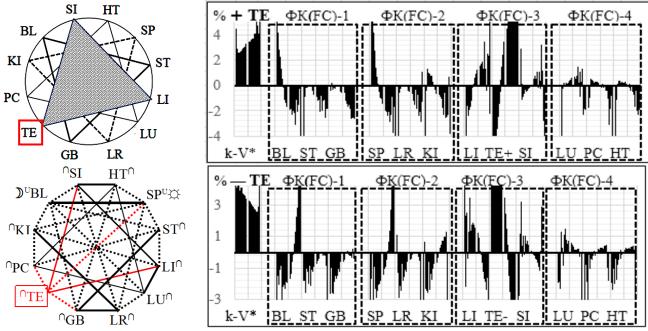


Fig. 3.5 Vegetative orientation (for k-V) with \pm TE

3.2.3. The excitation of the channel LI (upstream and downstream of the functional norms) causes paradoxical reactions on the part of SI (FC-3) and PC-HT (FC-4), synchronous excitation TE (FC-3) and LU (FC-4) and asynchronous Inhibition of functional systems of FC-1 (BL-ST-GB) and FC-2 (SP-KI-LR). The ligation of LI (before and below the zone of functional norm) causes reverse reactions. At the same time, for all observation groups, typical signs of certain functional complexes are preserved (Fig.3.6).

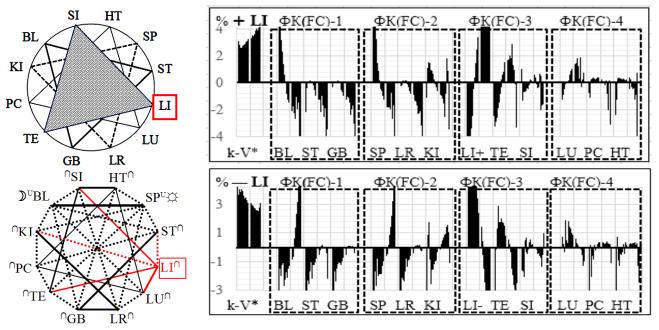


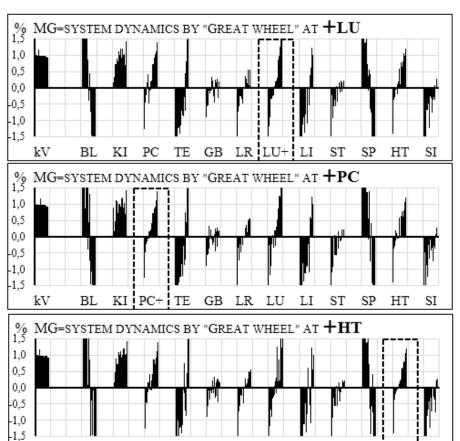
Fig. 3.6 Vegetative orientation (for k-V) with \pm LI

4. FOURTH FUNCTIONAL COMPLEX (FC-4) LU-PC-HT (YIN group)

3.1. THE FOURTH FUNCTIONAL COMPLEX IN THE "GREAT CIRCLE"

First we consider the interconnected system-functional dynamics of "acupuncture channels" in their traditional sequence in the "Big Circle" (BL-KI-PC-TR-GB-LR-LU-KI-ST-SP-HT-SI). At the same time, pay attention to the following:

- the given material refers to a mixed-aged male group (MG);
- the group is formed at the level of "vegetative equilibrium" (k-V = 0.95-1.05);
- Increasing excitation of any channel FC-4 (LU-PC-HT) "up to and above its own zone of norm" simultaneously causes a multidirectional systemic dependence in the form of synchronous, asynchronous and paradoxical reactions. The revealed phenomenon testifies to the biophysical reality of systemic dependence (Fig.4.1-3).



TE GB LR LU LI

PC

kV

Fig.4.1 Multidirected activity of channels through the Big Cycle under the excitation of **LU**

Fig.4.2 Multidirected activity of channels through the Big Cycle under the excitation of **PC**

Fig.4.3 Multidirected activity of channels through the Big Cycle under the excitation of **HT**

4.2. VEGETATIVE ORIENTATION WITH \pm INDIVIDUAL SYSTEMS Φ K-4=LU-PC-HT.

ST

SP HT+

The fourth basic complex (FC-4) includes acupuncture channels LU-PC-HT (Yin group). The advantage of their activity is the "parasympathetic (Yin) orientation" of vegetative homeostasis. At the same time in the FC-4 pacemaker (driver of rhythm) stands the functional PC system. In female (WG) and male (MG) groups, the excitation (or inhibition) of their activity generates a typical systemic dynamics of other complexes (Fig.4.4-6).

4.2.1. Excitement of LU (upstream and above functional norm zones) causes "paradoxical reactions" by PC-HT (FC-4), SI-TE-LI (FC-3) and forms a "parasympathetic orientation" of vegetative homeostasis (Fig.4.4). The suppression of LU (up to and below the zone of functional norm) causes "sympathetic orientation" of vegetative homeostasis and "paradoxical reactions" by PC-HT (FC-4), SI-TE-LI (FC-3). Please note that FC-2 and FC-1 are combined by the syn-

chronous interconnection of their basic functional systems SP-BL. Other system groups are typical features of individual functional complexes.

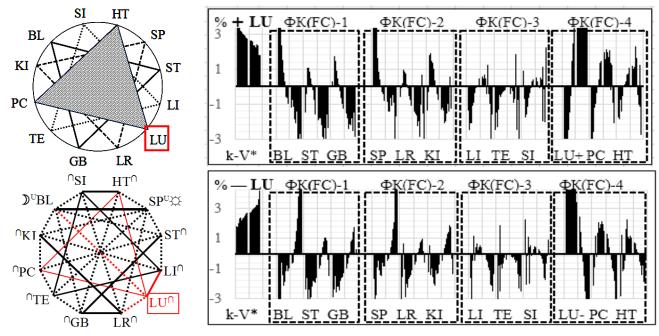


Fig.4.4 Vegetative orientation (for k-V) with ± LU

4.2.2. Excitation of the PC (upstream and above the functional norm) causes synchronous excitation of LU-HT, paradoxical reactions from the channels of LI-TE-SI (FC-3) and forms the "parasympathetic orientation" of vegetative homeostasis (Fig. 4.5). The oppression of the PC (up to and below the zone of functional norms) causes synchronous suppression of LU-HT, paradoxical reactions from the channels of LI-TE-SI (FC-3) and forms a "sympathetic orientation" of vegetative homeostasis. In this case, other systemic groups are typical signs of individual functional complexes.

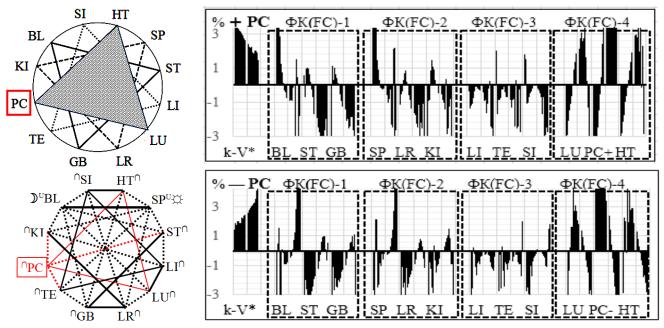


Fig. 4.5 Vegetative orientation (for k-V) with \pm PC

4.2.3. Excitation of the HT (upstream and above the functional norm) causes synchronous excitation of LU-HT, paradoxical reactions from the channels of LI-TE-SI (FC-3) and forms the "parasympathetic orientation" of vegetative homeostasis (Fig.4.6). The oppression of the HT (up

to and below the zone of functional norms) causes synchronous suppression of LU-HT, paradoxical reactions from the channels of LI-TE-SI (FC-3) and forms a "sympathetic orientation" of vegetative homeostasis. In this case, other systemic groups are typical signs of individual functional complexes.

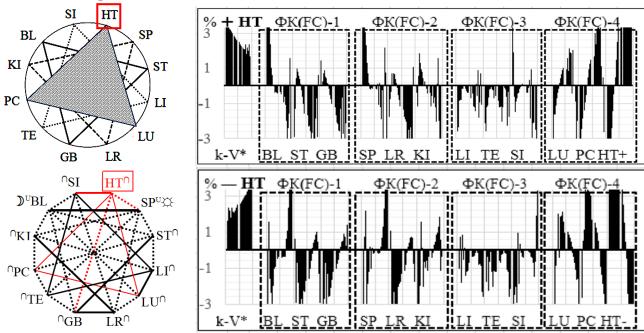
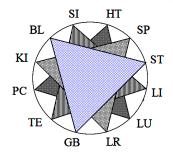


Fig. 4.6 Vegetative orientation (for k-V) with \pm HT



In the end, the systemic arrangement of individual complexes forms in a traditional "Great Circle" a peculiar "Cycle of the Star" (Functionally-vegetative flower of Life)...

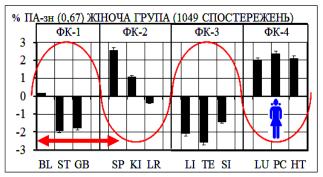
Fig.5 "Functionally-vegetative flower of life"

5. INTEGRATED VEGETATIVE PROFILES - BIOPHYSICAL REALITY

Detailed analysis of the previous material allowed discovering the phenomenon of Vegetative profiles (**VP**). Its reality testifies to the following:

- growth of parasympathetic oppression depends on excitation of the functional systems of YIN group (**SP**, LU-PC-HT, LR-KI). At the same time the leading role is of the system **SP**;
- growth of sympathetic excitation depends on excitation of the functional systems of *YANG* group (**BL**, LI-TE-SI, ST-GB). At the same time the leading role is of the system **BL**;
- the structure of functional-vegetative profiles of parasympathetic and sympathetic orientation is mirror-opposite;
- the forms of vegetative profiles of female (WG) and male (MG) groups are identical, which is the evidence of functional regularity;
 - the structure of functional-vegetative profile shows the level of vegetative disorder.

Now, let us view the functional-vegetative profiles (VP) of sympathetic (SA) and parasympathetic (PA) activity in female (WG - 9.947 observations) and male (MG - 5.492 observations) groups (fig.5.1-3).



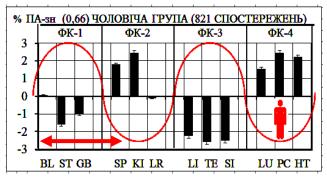


Fig. 5.1 Vegetative profile of parasympathetic activity (WG k-V=0,67; MG k-V=0,66)



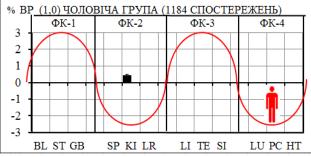


Fig. 5.2 Vegetative profile of functional equilibrium (WG k-V=1,0; MG k-V=1,0)

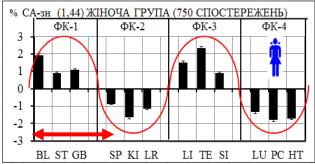




Fig. 5.3 Vegetative profile of sympathetic activity (WG k-V=1,44; MG k-V=1,41)

The comparative analysis of the introduced histograms points to four substantial provisions:

- Parasympathetic orientation of the vegetative homeostasis is formed by the prevalence of the activity of **SP** over **BL** (fig.5.1, see arrow).
- Sympathetic orientation of vegetative homeostasis is formed by the prevalence of the activity of **BL** over **SP** (fig. 5.3, see arrow).
- Vegetative profiles of parasympathetic and sympathetic activity are diametrically opposite (fig. 5.1, 5.3). Their vegetative coefficients (k-V) point to the levels of vegetative disorders...
- In each functional complex (FC) there are "leading systems": BL-ST (FC-1), SP-KI (FC-2), TE (FC-3) and PC (FC-4), which indicates the advantage of them intra-complex activity.

Conclusions and prospect of research

- 1. Specifically-typical systemic dependency in separate groups of "acupunctural channels" forms **four functional-vegetative complexes**: FC-1 (BL-ST-GB), FC-2 (SP-KI-LR), FC-3 (LI-TE-SI) and FC-4 (LU-PC-HT). Their biophysical reality has been confirmed through all groups of observation.
- 2. Functional-vegetative complexes form the opposite vegetative influence: the channels of the YANG-group (FK-1=BL-ST-GB and FK-3=LI-TE-SI) provide a "sympathetic orientation" of the vegetative homeostasis, and the channels of the YIN-group (FK-2=SP-KI-LR and FK-4=LU-PC-HT) "parasympathetic".

- 3. The use of the methodology of "functional-vegetative diagnosis" (FVD according to V.G. Makats) is appropriate for controlled rehabilitation of vegetative disorders.
- 4. Complex "vegetative profiles" indicate the state of vegetative homeostasis. Their opposite dependence indicates the predominance of parasympathetic, or sympathetic activity (with ideal vegetative equilibrium system profiles are at the level of "zone-0").
- 5. Topographic structure of "functional-vegetative complexes" and their "vegetative profiles" became the basis of biophysical analysis of vegetative pathogenesis. The open phenomena pointed to the reality of the "Functional-vegetative Matrix" (the following information) and the possibility of predicting the "consequences of acupuncture procedures".

There is no information provided in the world literature, which testifies to Ukraine's priority in the discovery of a previously unknown reality...

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