

Properties of types of days of wonderful meridians. Peaks of codes (residues) of the FM.
Groups of repeated codes and axes of symmetry of the FM. Liquid crystal state hypothesis
meridians (QI energy circulation channels) as an acupuncture mechanism

S.A. Autumn
(Novosibirsk city)

Properties of wonderful meridians day types. Peak codes (remainders) of WM. Groups of
repeated codes and symmetry axis of WM. Hypothesis of liquid-crystal conditions of meridians
(qi circulation channels) as a mechanism of acupuncture)

SA Autumn
(Novosibirsk, Russia)

SUMMARY

The article continues the description of the properties of the five types of wonderful meridian days. New methods for calculating key points made it possible to differentiate 60-d.c. wonderful meridians for five types of days, which have the characteristic properties described in this and previous articles. A hypothesis of the liquid crystal state of meridians and acupuncture points is proposed, explaining their presence only in the in vivo state and their absence in the in vitro state. Everything stated in this and previous publications confirms the traditional ideas of Chinese medicine and makes the concept of the third regulatory system of the body real.

Key words: traditional Chinese medicine, acupuncture, reflexology, wonderful meridians, key points, wu-hsing, yin-yang, feng shui.

RESUME

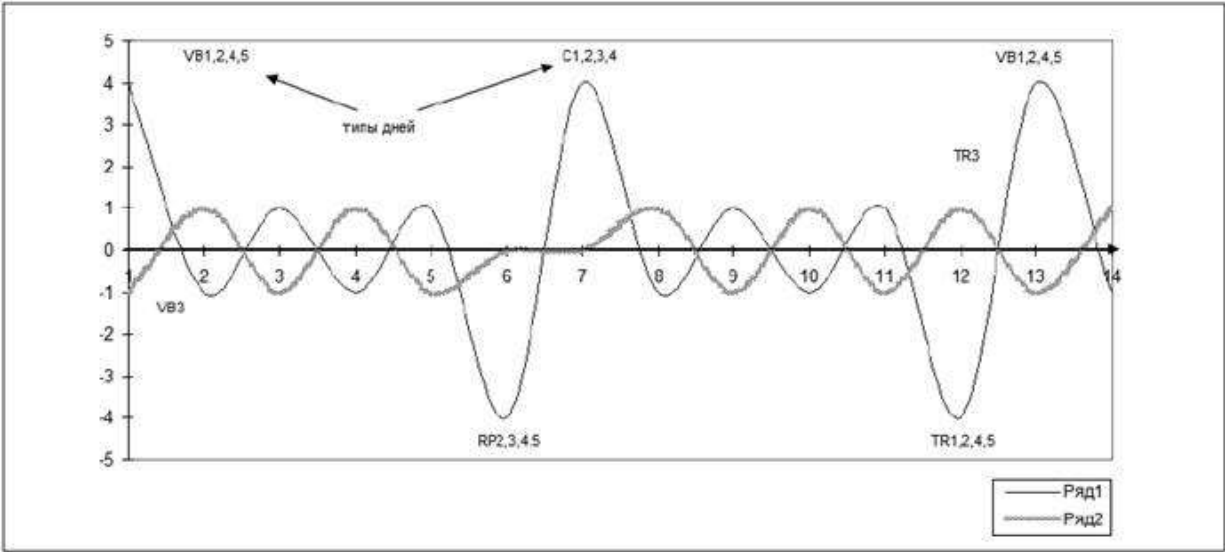
The article continues description of the properties of five types of days extraordinary channels (wonderful meridians). New ways of calculating keys points make possible to differentiate 60 dc extraordinary (wonderful) channels on the five types of days that have the characteristic properties described in this and previous articles. A hypothesis of a liquid crystal condition of the meridians and acupuncture points, which explains their presence only in the state of in vivo and in the absence of the state in vitro. All contained in this and in previous publications confirms the traditional concepts of Chinese medicine and makes real the concept of a third regulatory system of the organism.

keywords: Traditional Chinese Medicine, pointkeys, acupuncture, reflexotherapy, extraordinary channels (wonderful meridians), U-Shin, Yin-Yang, Feng Shui.

Introduction

This article is a thematic continuation of publications [3, pp.26–33; 4, pp. 28–35; 5, pp.57–63; 6, pp.50–57; 7, pp.30–38], devoted to the description of two author's methods of calculating the key points of wonderful meridians (FM), in which the definition of the types of days of wonderful meridians was given and a description of their properties began. Types of FM days are five options for the distribution of FM codes (residuals) during days arranged in chronological order of 60-hour or 5-day cycles obtained as a result of new calculation methods. In this and previous articles, the term FM code (remainder) is used, since when calculating with new methods, FM codes (remainders), unlike FM codes, can be > 6 for even days or > 9 - for odd days and can be < 1 . In these cases, it is required to additionally subtract or add 6 for even and 9 for odd days to get the canonical values of the FM codes: from 1 to 6 for even and from 1 to 9 for odd days. Types of World Cup days can also be obtained

by subtracting the constant value needed to obtain the FM code per hour zi from the sum of the coefficients of days (CD) and hours (CH) throughout the day in the traditional way. Some properties of the types of FM days have been described, for example, mirror symmetry. A regularity was substantiated, which is expressed in the fact that for all days of the same type at certain hours that are in antiphase or opposition, the difference in codes (residues) of the FM is equal to minus four (-4): for days of type 1, these are the hours of Chen E5 and Xu MC11 ; for type 2 days, it is P3 yin and V9 shen hours; for days of type 3, there are two such intervals: zi VB1 - in C7 and sy RP6 - hai TR124; for type 4 - during the hours of Mao GI4 - yu R10; for 5 types of days - in hours chow F2 - wei IG8. The difference between all other pairs of codes (residues) of the FM, which are in daily antiphase, is equal to plus one (+1). Oscillation of FM codes (residuals) has a regular character with sections of periodic amplitude excitation and attenuation, amenable to mathematical analysis, in contrast to the aperiodic, random nature of the distribution of canonical values of FM codes [3, fig. 2]. Oscillation of codes (residuals) FM 60-d.ts. coincides with the oscillation of the clock coefficients (CH), but is shifted down along the y-axis relative to the latter by the amount of the clock correction factor N proposed by the author, which was the basis for one of the new methods for calculating the key points of the FM [3, pp. 26–33 ; 5, p.57–63]. WCH day types have the same 60-hour clock ranges. and numbers N of “heavenly stems” of hours (N random nature of the distribution of canonical values of FM codes [3, fig. 2]. Oscillation of codes (residuals) FM 60-d.ts. coincides with the oscillation of the clock coefficients (CH), but is shifted down along the y-axis relative to the latter by the amount of the clock correction factor N proposed by the author, which was the basis for one of the new methods for calculating the key points of the FM [3, pp. 26–33 ; 5, p.57–63]. WCH day types have the same 60-hour clock ranges. and numbers N of “heavenly stems” of hours (N WCH day types have the same 60-hour clock ranges. and numbers N of “heavenly stems” of hours (N WCH day types have the same 60-hour clock ranges. and numbers N of “heavenly stems” of hours (Nsch) [1, p.149]. The binomials of each type of even and odd days of the World Cup are united by the fact that their celestial stems belong to the same “cosmogonic” order of the numerical symbolism of the elements [2, pp. 62–64] (Table 1). In addition to all this, the concept of “binomial power” [7, pp. 30–38] was introduced and substantiated, taken from the theory of life cycle stages or 12 phases – conductivity levels of 10 Feng Shui celestial stems, complementing the picture of the types of days of wonderful meridians and connecting into a single whole the human body and the surrounding world.



Rice. 1. Distribution of (+) and (-) peaks in60 hour cycle. Daily and 2-hour rhythms have wavy nature of the distribution of (+) and (-) peaks.

Table 1

Brief description of the types of days of wonderful meridians

Типы дней	1	2	3	4	5
Стихии НС в «космогоническом» порядке числовой символики стихий.	«Вода»	«Огонь»	«Дерево»	«Металл»	«Почва»
НС биномов нечетных дней.	1	7	3	9	5
Нечетные дни 60-дц.	1,11,21, 31,41,51.	7,17,27, 37,47,57.	3,13,23, 33,43,53.	9,19,29, 39,49,59.	5,15,25, 35,45,55.
НС биномов четных дней.	6	2	8	4	10
Четные дни 60-дц.	6,16,26, 36,46,56.	2,12,22, 32,42,52.	8,18,28, 38,48,58.	4,14,24, 34,44,54.	10,20,30, 40,50,60.
Диапазон часов 60-ч. ц.	1-12	13-24	25-36	37-48	49-60
Диапазон чисел N нс часов.	9-8	7-6	5-9	8-7	6-5

Methods

1. Peaks of codes (residues) of WCH depending on types of days

If we consider the fluctuations of the codes (residuals) of the FM as a set of rises, or (+) peaks, and recessions, or (-) peaks, then their distribution in 60 hours. c. subject to a certain connection with the "earthly branches" of days and has the property of symmetry. The largest number of peaks 4 (+) and 4 (-) falls on the "earth branches" zi (1VB) and hai (12TR), which are the boundaries of the day in the traditional Chinese calendar or "midnight", and su (6PR) and wu (7C), dividing the day into equal halves or "noon". Both pairs of "earthly branches" are in daily antiphase or opposition to each other. The remaining "terrestrial branches" have one (+) and (-) peak in the sequence shown in Fig. 1 and in table. 2. In fig. 1 diagrams of (+) and (-) peaks are wavy, mirror-symmetrical, balance each other and resemble clock pendulum swings,

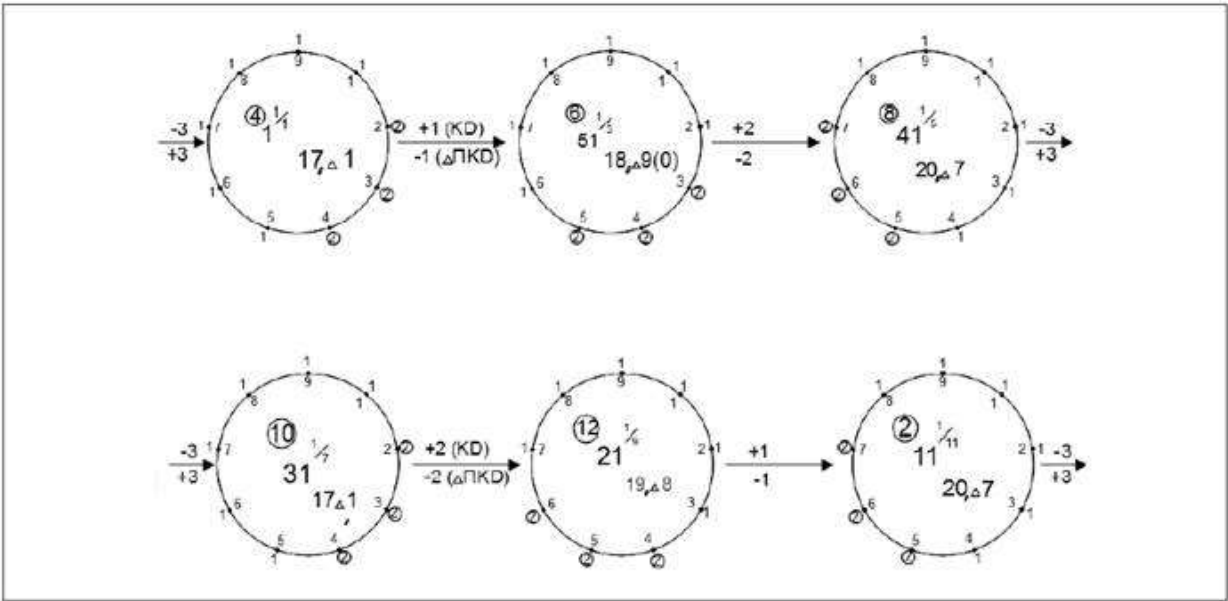
table 2

Frequency distribution of rises (+) peaks and falls (-) peaks of residuals (codes) of FM in 60-c.c. depending on the types of days

	VB1	F2	P3	GI4	E5	RP6	C7	IG8	V9	R10	MC11	TR12	Сумма
1тип	+				-		+			-	+	-	3(+,-)
2тип	+		-	+		-	+	-	+			-	4(+,-)
3тип	-	+				-	+				-	+	3(+,-)
4тип	+			-	+	-	+		-	+		-	4(+,-)
5тип	+	-	+			-		+				-	3(+,-)
Сумма	4+/1-	1+/1-	1+/1-	1+/1-	1+/1-	4-	4+	1+/1-	1+/1-	1+/1-	1+/1-	1+/4-	17(+,-)

2. Groups of repeated FM codes

Each type of FM day has a stable repeatable group of FM codes: if you represent the FM codes in the form of a circle, then some of the codes will be in the singular, while others - in two or three copies. For example, for odd days of the first type (Fig. 2), for 11_{1/3} days, such a group will be codes 2, 3 and 4, each of which is presented in two copies, when moving to the next, 51_{1/3} day, following the movement of the "earthly branches" of the binomial days, a group of paired codes will be represented by codes 3, 4 and 5. For the next 41_{1/5} day this group will consist of codes 5, 6 and 7.



Rice. 2. Cyclic movement of groups of repeated FM codes on odd days1 type.

Moving groups of codes for the second half of days of this type, oppositional, from the point of view of the "earthly branches" of binomials ($31_{1/7}$, $21_{1/9}$ and $11_{1/11}$) will be repeated cyclically. This is typical for all 5 types of even and odd days of wonderful meridians: the movement of groups of repeated codes located on a circle in a linear sequence is cyclical. On fig. 2 shows six circles, each of which represents one of the odd days of the first type: $11_{1/1}$, $51_{1/3}$, $41_{1/5}$, $31_{1/7}$, $21_{1/9}$, eleven $11_{1/11}$, if you follow the "earthly branches" of the binomial days. On the circumference of each day are the World Cup codes in ascending clockwise order. Outside the circle, opposite the FM codes, there are numbers indicating the number of FM codes of this value, which is a stable sequence that "moves" in the direction of the clockwise movement by the amount of change in the coefficient of the day of the CD and the correction factor of the day of the PCD (Δ), proposed by the author for calculations FM codes [3, p.26–33; 5, p.57–63]. Inside the circle, next to the binomial of the day, there is the binomial strength [7, pp. 30–38]. For example, for $11_{1/1}$ days is 4, for $51_{1/3}$ it 6, for $41_{1/5}$ it 8, for $31_{1/7}$ it 10, for $21_{1/9}$ it 12, for eleven $11_{1/11}$ it 2, on this the binomial strength cycle for this type of days is completed. Groups of repeated codes for all five types of World Cup days are presented in Table. 3. In the table. 4 shows the formulas for repeated codes of wonderful meridians for each type of day. There is a symmetry of 1 and 5, as well as 2 and 3 types of days of wonderful meridians. The number 12 means the number of FM codes during the day.

Table 3
FM Repeat Code Groups

		1 тип, нечетные дни [E5-MC11]				1 тип, четные дни [E5-MC11]			
ЗВ		1VB 7C	3P	9V	5E 11MC	2F 8IG	10R	4GI	6RP 12TR
дни		1 ^{1\1} 31 ^{1\7}	51 ^{1\3}	21 ^{1\9}	41 ^{1\5} 11 ^{1\11}	26 ^{6\2} 56 ^{6\8}	46 ^{6\10}	16 ^{6\4}	6 ^{6\6} 36 ^{6\12}
КД,Д		17; 1	18;9(0)	19; 8	20; 7	20;1(7)	19; 2	18; 3	17; 4
КОДЫ ЧМ	1	1	1	1	1	2	3	2	2
	2	2	1	1	1	3	2	2	1
	3	2	2	1	1	2	2	1	2
	4	2	2	2	1	2	1	2	2
	5	1	2	2	2	1	2	2	3
	6	1	1	2	2	2	2	3	2
	7	1	1	1	2	Z	Z	Z	Z
	8	1	1	1	1	Z	Z	Z	Z
	9	1	1	1	1	Z	Z	Z	Z
Тип дней		2 тип, нечетные дни [3P-9V]				2 тип, четные дни [3P-9V]			
дни		37 ^{7\1} 7 ^{7\7}	27 ^{7\3}	57 ^{7\9}	17 ^{7\5} 47 ^{7\11}	2 ^{2\2} 32 ^{2\8}	22 ^{2\10}	52 ^{2\4}	42 ^{2\6} 12 ^{2\12}
КД,Δ		16,2	17,1	18,9(0)	19,8	19, 2	18, 3	17, 4	16, 5
КОДЫ ЧМ.	1	2	1	1	Z	2	2	2	2
	2	2	2	1	1	2	2	2	3
	3	2	2	2	1	2	2	3	1
	4	2	2	2	2	2	3	1	2
	5	2	2	2	2	3	1	2	2
	6	Z	2	2	2	1	2	2	2
	7	Z	Z	2	2	Z	Z	Z	Z
	8	1	Z	Z	2	Z	Z	Z	Z
	9	1	1	Z	Z	Z	Z	Z	Z
Тип дней		3 тип, нечетные дни [1VB-7C]; [6RP-12TR]				3 тип, четные дни [1VB-7C]; [6RP-12TR]			
дни		13 ^{3\1} 43 ^{3\7}	3 ^{3\3}	33 ^{3\9}	53 ^{3\5} 23 ^{3\11}	38 ^{8\2} 8 ^{8\8}	58 ^{8\10}	28 ^{8\4}	18 ^{8\6} 48 ^{8\12}
КД,Δ		14, 4	15, 3	16, 2	17, 1	17, 4	16, 5	15,6(0)	14, 1(7)
КОДЫ ЧМ.	1	2	2	1	1	2	2	2	2
	2	1	2	2	1	2	2	2	2
	3	1	1	2	2	2	2	2	2
	4	1	1	1	2	2	2	2	2
	5	2	1	1	1	2	2	2	2
	6	1	2	1	1	2	2	2	2
	7	1	1	2	1	Z	Z	Z	Z
	8	1	1	1	2	Z	Z	Z	Z
	9	2	1	1	1	Z	Z	Z	Z
Тип дней		4 тип, нечетные дни [4GI-10R]				4 тип, четные дни [4GI-10R]			
дни		49 ^{9\1} 19 ^{9\7}	39 ^{9\3}	9 ^{9\9}	29 ^{9\5} 59 ^{9\11}	14 ^{4\2} 44 ^{4\8}	34 ^{4\10}	4 ^{4\4}	54 ^{4\6} 24 ^{4\12}

КД, Δ	15, 3	16, 2	17, 1	18, 9(0)	18, 3	17, 4	16, 5	15, 6(0)
КОДЫ ЧМ	1	2	2	2	Z	2	2	1
	2	2	2	2	2	2	1	3
	3	2	2	2	2	1	3	2
	4	1	2	2	1	3	2	2
	5	1	1	2	2	3	2	2
	6	Z	1	1	2	2	2	2
	7	Z	Z	1	1	Z	Z	Z
	8	2	Z	Z	1	Z	Z	Z
	9	2	2	Z	Z	Z	Z	Z
Тип дней	5 тип, нечетные дни [2F-8IG]				5 тип, четные дни [2F-8IG]			
дни	25 ^{5/1} 55 ^{5/7}	15 ^{5/3}	45 ^{5/9}	5 ^{5/5} 35 ^{5/11}	50 ^{10/2} 20 ^{10/8}	10 ^{10/10}	40 ^{10/4}	30 ^{10/6} 60 ^{10/12}
КД, Δ	14, 4	15, 3	16, 2	17, 1	17, 4	16, 5	15, 6(0)	14, 1(7)
КОДЫ ЧМ	1	2	2	1	1	2	3	2
	2	2	2	2	1	3	2	1
	3	1	2	2	2	2	1	2
	4	1	1	2	2	1	2	2
	5	1	1	1	2	1	2	3
	6	1	1	1	1	2	2	3
	7	1	1	1	1	Z	Z	Z
	8	1	1	1	1	Z	Z	Z
	9	2	1	1	1	Z	Z	Z
КОЛИЧЕСТВО КОДОВ ЧМ								

Z –исключенные коды ЧМ.

Table 4

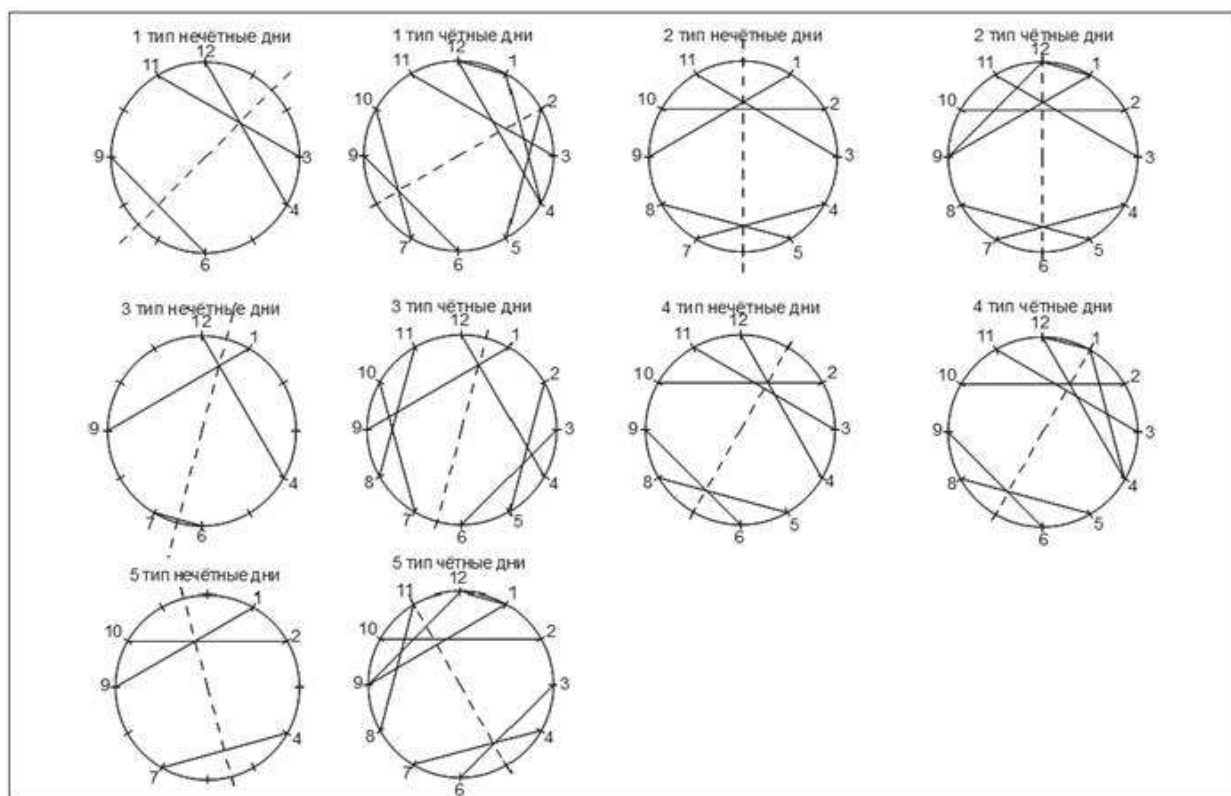
Formulas for repeated FM codes

	Нечетные дни	Четные дни
1 тип дней	$1*6+2*3=12$	$2*2+1*1+2*2+3*1=12$
2 тип дней	$2*5+1*2+2*Z=12$	$2*4+3*1+1*1=12$
3 тип дней	$1*3+2*1+1*3+2*2=12$	$2*6=12$
4 тип дней	$2*5+1*2+2*Z=12$	$2*4+3*1+1*1=12$
5 тип дней	$1*6+2*3=12$	$2*2+1*1+2*2+3*1=12$

2*Z –группа из двух исключенных из общего числа кодов ЧМ в нечетные дни 2 и 4 типов, расположенных рядом в числовом ряду на окружности.

3. Axes of symmetry of five types of days of wonderful meridians

The stability of repeated groups of codes and the regularity of their "movement" is associated with the architectonics of codes, the principle of which is described in detail in [4, p.28–35; 6, p.50–57]. It is also related to the symmetry axes characteristic of each type of even and odd days of the World Cup, shown in Fig. 3. The figure shows 10 circles of even and odd days of all five types. Straight lines connect hours in a day according to eastern reckoning, having equal FM codes, even days complete the picture of odd days of their type due to the formation of new pairs. The axes of symmetry (dashed lines) divide the day in two, while for the 1st and 5th types of days the axis of symmetry for even and odd days shifts, for other types of days it remains the same.



Rice. 3. Axes of symmetry of equal values of FM codes for even and odd days 5 types of days.

Discussion and Conclusions

Miraculous meridians (FM) are traditionally considered an extraordinary communication system in the body, which ensures the redistribution of various types of energies in the body (hereditary, nutritional, respiratory and protective) in case of its excess or deficiency and are the basis of morpho-functional regulation [8, p.193–194]. They have a number of features: their clinical manifestation indicates the presence of any pathology; they do not participate in the daily circulation of energy, unlike the main meridians (GM); they do not have their points and borrow them from the main meridians. The exception is the anterior and posterior median meridians; they begin to exert their therapeutic effect only after exposure to the key points through which the inclusion and control of energy is carried out. FM and GM are associated with "lakes" and "rivers": in case of depletion in the system of GM - "rivers", FM - "lakes" give up their reserve energy, with an excess in the system of "rivers", "lakes" absorb part of the excess energy of the main meridians [8, p.194]. Points-keys of the FM canonically correspond to certain trigrams [1, p.146], and this connection makes it possible to reveal their biological rhythm of activity [1, p.146–156]. In this and previous publications [3, pp.26–33; 4, pp. 28–35; 5, p.57–63; 6, p.50–57; 7, pp.30–38] describes an extremely complex picture of the mathematical model of regulation of the miraculous meridians biorhythm, exceeding, in our opinion, the capabilities of the nervous system, officially recognized in modern literature as the only mechanism in reflexology. But this equally affects the regulation of not only wonderful, but also the main meridians, including their ancient points,

Apparently, this contradiction was understood by Russian authors of the 1950s and 1970s P.L. Parmenenkov, I.I. Rusetsky, A.Kh. Teregulov, E.D. Tykochinskaya, the Chinese authors Fyn Li Da, Zhu Lian and others adhered to the same point of view. "Life Lines"

(channels, meridians) and "vital points" (A.K. Podshibyakin) were mentioned in historical reviews only in the context of questions of the history of medicine, where traditional ideas about meridians (channels) and acupuncture points were confirmed by "centuries-old practice". This is where the excursion into the history of medicine ended, the books were illustrated with many drawings from ancient treatises on acupuncture depicting a system of "life lines" - energy meridians (channels). The mechanism of acupuncture was limited to anatomical and physiological nerve connections: autonomic (sympathetic and parasympathetic) segmental innervation, but this not only did not explain the existence of the main and wonderful meridians, but, in fact, excluded their presence, leaving it possible to implement only local segmental points, which are only a small part of zhen-jiu therapy. The main part of zhen-jiu, its core, was, in fact, emasculated in favor of the theory of nervism, which recognizes the main role of the nervous system in the organization of all body functions, both in normal and pathological conditions. The term "reflexotherapy" was proposed by Jaworski (France) in 1912 to refer to any type of treatment using the reflex principle (from Latin reflexus - reflected) of obtaining a stereotyped reaction of a living organism in response to an irritant that occurs with the participation of the nervous system based on a reflex arc (segmental innervation). Historically, nervism has become the working model of acupuncture in the absence of a mechanism to explain the implementation of the entire spectrum of traditional Chinese medicine (TCM) laws. The decision in favor of nervism was recognizing the main role of the nervous system in the organization of all body functions, both in normal and pathological conditions. The term "reflexotherapy" was proposed by Jaworski (France) in 1912 to refer to any type of treatment using the reflex principle (from Latin reflexus - reflected) of obtaining a stereotyped reaction of a living organism in response to an irritant that occurs with the participation of the nervous system based on a reflex arc (segmental innervation). Historically, nervism has become the working model of acupuncture in the absence of a mechanism to explain the implementation of the entire spectrum of traditional Chinese medicine (TCM) laws. The decision in favor of nervism was recognizing the main role of the nervous system in the organization of all body functions, both in normal and pathological conditions. The term "reflexotherapy" was proposed by Jaworski (France) in 1912 to refer to any type of treatment using the reflex principle (from Latin reflexus - reflected) of obtaining a stereotyped reaction of a living organism in response to an irritant that occurs with the participation of the nervous system based on a reflex arc (segmental innervation). Historically, nervism has become the working model of acupuncture in the absence of a mechanism to explain the implementation of the entire spectrum of traditional Chinese medicine (TCM) laws. The decision in favor of nervism was using the reflex principle (from lat. reflexus - reflected) to obtain a stereotypical reaction of a living organism in response to an irritant that occurs with the participation of the nervous system on the basis of a reflex arc (segmental innervation). Historically, nervism has become the working model of acupuncture in the absence of a mechanism to explain the implementation of the entire spectrum of traditional Chinese medicine (TCM) laws. The decision in favor of nervism was

due to the fact that the morphological basis of channels and acupuncture points has not been found. Thus, in the first half of the 20th century, in the manuals on acupuncture, the concept of energy channels, and the very concept energy qi, or chi, if covered, then with reservations to the historically fixed canon. WITH over time, this was overcome, and the channels, first the main ones, and then the wonderful ones, again became the subject of discussion (G. Luvsan, D. M. Tabeeva, A. M. Ovechkin, etc.). However, the nervous system does not explain all the laws of traditional Chinese medicine empirically obtained by thousands of years of practice, which are extremely complex. cybernetic model that combines the action of individual acupuncture points, connection acupuncture points among themselves within the same channel, between different channels, as well as the connection of acupuncture points with the internal organs of a person outside the action of the reflex arc. The contradiction between nervism and traditional ideas underlying acupuncture is complemented by the phenomenon of "de-chi" (de-qi): this is the subjective feeling of CHI energy in the form distribution of heat, numbness, tingling along the energy channel in normal and pathological conditions, which allows you to set the course of the meridian (channel). The de-qi phenomenon is more developed among the inhabitants of China and North Africa. The rate of distribution of energy qi in the population of the inhabitants of these regions $v_{de-qi} = 3.3-3.6$ cm/s according to [12, p.23-24], according to [13, p. 123] the child's speed is 2.3 cm/s. The speed of the conduction of a nerve impulse depends on the diameter of the nerve fiber and is associated with the presence or absence of the myelin sheath. Demyelinated (the slowest) postganglionic fibers of the sympathetic division of the autonomic nervous system (ANS), as well as nerve fibers that conduct excitation from pain receptors, some thermoreceptors and pressure receptors [14, p.155] have an impulse conduction velocity v_{vns} from 0.5 to 3.0 m/s, which is much higher than the de-qi speed. Below is a hypothesis that may provide answers to some of the important questions of acupuncture.

The hypothesis of the liquid crystal state of the meridians (energy circulation channels qi) as an acupuncture mechanism

The term "liquid crystals" was introduced by the Austrian botanist Friedrich Reinitzer in 1890 to denote a special mesomorphic state of matter, intermediate between liquid and solid, the characteristic features of which are: orderliness of biological structures (in the liquid state), high sensitivity to

external conditions and the presence of "defects" of the structure [11, p.104]. The important role of the liquid-crystalline state in homeostasis and the formation of the norm and pathology has been revealed. More than 6,000 compounds with liquid-crystalline properties, contained in the myelin sheaths of nerve fibers, have been identified in every living cell, including connective tissue and skin cells, etc. [9, p.108, 161, 168; 11, pp. 109, 111, 114]. The skin is a volumetric anisotropic (in vivo!) and isotropic (in vitro!) conductor [15, c.120], whose cell organelles contain elements that exhibit liquid crystal properties: lipids, proteins, polypeptides, nucleic acids, etc. [11, c.109]. Optical and dielectric anisotropy of the structure of liquid crystals, which are important in the characterization of biological processes, appear only in vivo, the same biological objects, but studied in the in vitro state, that is, extracted from a living organism, lose their anisotropy properties [10, c.133] and begin exhibit properties of isotropy, since the electromagnetic field (EMF) generated by internal organs disappears [10, p.133–143]. The structure of living matter is determined by the biofield created as a result of the vital activity of the whole organism: "a living system creates a source of energy - potential difference - due to the free energy existing inside the system" [16, c.55]. Liquid-crystal, semiconductor properties of energy channels and "active points", including their electrical conductivity, depend both on external EMF, showing geohelio-meteorotropic reactions (connection with the external environment), and on internal EMF resulting from metabolic processes in cathode organs (YAN) and anode organs (YIN) [10, pp.133–135]. Energy channels "should be considered as ways of predominant flow of electric current in the body, resulting from metabolic electrochemical reactions" [10, p.140]. Experimental data on the measurement of electrical potentials on the human body confirm the existence of meridians (channels) with a predominance of either an anode or cathode function and a closed energy circuit with a rhythmic unidirectional movement of a zone of increased reactivity in it [10, p.141]. Different types of meridians (channels) - Yang and Yin, alternating in pairs, form a single electrochemical closed circuit (circuit), which is a "battery" of series-connected electrochemical generators (ECGs). The properties of energy channels and acupuncture points to pass current in one direction ("throughput") and impede the passage of current in the opposite ("blocking") is known as the valve effect [10, c.135]. The valve effect provides a one-way, anisotropic movement of electric current in bio-ECHG, which are energy channels and a consistent movement of areas with increased activity to areas with less activity, which is confirmed by the study of the dynamics of skin biopotentials using non-polarizing electrodes during acupuncture. The semiconductor properties of liquid crystals in the in vivo state make it possible to change the direction of the current and carry out energy-information switching of TA between themselves and with internal organs, which makes it possible to implement the basic laws of traditional Chinese medicine and the regulation of biorhythms, as well as the connection of the body with the electromagnetic fields of the external environment. Thus, the hypothesis of the liquid crystal state of the meridians (qi energy circulation channels) and acupuncture points explains the mechanism for implementing the laws of traditional Chinese medicine, confirmed by centuries of practice, which, in our opinion, are extremely important mechanisms for homeostasis and regulation of its main functions along with the endocrine and nervous systems. . At the same time, the role of the nervous system in acupuncture, limited by reflexes of segmental innervation,

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Author's address

Autumn S.A., reflexologist of the highest category, Novosibirsk
dr.osa@yandex.ru

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