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## **REVIEWS OF THE LEADING SCIENTISTS ON THE ISSUE OF "THE UNKNOWN FUNCTIONAL-VEGETATIVE SYSTEM OF THE PERSON (ACUPUNCTURE CHANNELS ZHEN-TSZYU THERAPY)"**

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

**Summary.** *The article presents the responses of leading Chinese traditional Zhen-Tszyu therapies dealing with the problem of acupuncture channels as a reality and the biophysical basis of an unknown previously functional and autonomic human system. Attention is drawn to the discrepancy between the curriculum of professional training in the system of postgraduate education and the current level of innovative knowledge of Ukraine. Information requires the attention of general practitioners and rehabilitation specialists.*

**Key words:** *classical physiology, functional-vegetative system of man, traditional Zhen-Tszyu therapy.*

**Резюме.** *В статті наведені відгуки провідних фахівців традиційної китайської Чжень-цзю терапії, що стосуються проблеми "Акупунктурні канали як реальність і біофізична основа невідомої раніше функціонально-вегетативної системи людини". Звертається увага на невідповідність навчальних програм фахової підготовки в системі післядипломної освіти до сучасного рівня інноваційних знань України. Інформація вимагає уваги лікарів загальної практики та реабілітологів.*

**Ключові слова:** *класична фізіологія, функціонально-вегетативна система людини, традиційна Чжень-цзю терапія.*

**Резюме.** *В статье приведены отзывы ведущих специалистов традиционной китайской Чжень-цзю терапии, касающиеся проблемы "Акупунктурные каналы как реальность и биофизическая основа неизвестной ранее функционально-вегетативной системы человека". Обращается внимание на несоответствие учебных программ профессиональной подготовки в системе последипломного образования современному уровню инновационных знаний Украины. Информация требует внимания врачей общей практики и реабилитологов.*

**Ключевые слова:** *классическая физиология, функционально-вегетативная система человека, традиционной Чжень-цзю терапия.*

### **REVIEWS AND PERSPECTIVES OF INVESTIGATING "FUNCTIONAL-VEGETATIVE HUMAN SYSTEMS (ACUPUNCTURE CHANNELS ZHEN-TSZYU THERAPY)"**

#### **I. Monograph: UNKNOWN ZHENJIU THERAPY (REALITY, MISTAKES, PROBLEMS) Vol.1**

*(group of authors: Makats V.G., Makats E.F.) // Ukraine, Vinnitsa, "Scientific Initiative" Publishing House, "Nilan-LTD Editorial, 2016, ISBN 978-966-2932-80-5.*

#### **I-a. Review of the presented monograph...**



*Doctor of Medical Sciences, Professor Vasilenko A.M. – Chief Scientist of the Russian Research Center for Medical Rehabilitation and Resortology, Vice President of the Professional Association of Reflex therapists, Editor-in-Chief of the journal "Reflexotherapy and Complementary Medicine" (№ 1 (19) 2017, p 54; Russian Federation).*

"...V.G. Makats and E.F. Makats — Ukrainian colleagues are known for their many years of research in the field of modern scientific and practical problems of Zhenjiu therapy. They published 28 books in Russian, Ukrainian and English. Information about the most recent of them, released by the Vinnitsa publishing house "Scientific Initiative", the Editorial Nilan LTD in 2016 ISBN 978-966-2932-80-5 readers can learn from the submitted review.

Since the beginning of intensive study and application of Zhenjiu therapy by Western medicine, numerous attempts have been made to interpret its methodology in the format of modern scientific ideas. The main and still unresolved problem are "acupuncture channels," the very existence of which remains unproven. In connection with this, the possibilities of known methods of electropuncture diagnostics are actively discussed, the information content of which is doubt-

ful among colleagues practicing in the field of traditional Chinese medicine. A number of representatives of conventional medicine, it generally denied. On the basis of a number of arguments, the authors of the work under review arrive at the same conclusion.

They developed an original technique "Functional-vegetative puncture diagnostics", which is carried out without the use of external energy sources by a 3-second simultaneous contact of a pair of diagnostic electrodes. One of them is located in the points - accessories of the acupuncture channels, the other - in the equidistant from the navel zone. The data obtained in mV (mkA) is converted into relative values, the total bioelectric activity of all the YANG and all YIN channels is determined, and the coefficient of their dependence ( $k = \Sigma \text{YANG} : \Sigma \text{YIN}$ ) is calculated. Based on the survey of 14304 children of different age and gender groups, they have developed a regulatory framework for the proposed diagnosis.

On the basis of a critical analysis of the existing theoretical basis of traditional Zhenjiu therapy and the results of our own research, the authors discovered the "Human functional-vegetative system". It allowed for the first time to identify hypothetical "acupuncture channels" and biophysically prove their vegetative nature and systemic character.

The universal logicity and completeness of the open system testifies to the reality of the oriental therapeutic philosophy and to a certain extent reconciles the epistemological positions of traditional Chinese and modern Western medicine. With a general positive assessment of the book under review, some of the authors' statements are dubious. For example, the authors' statement: "The Western theory of "pan nervism" and reflex therapy have nothing to do with traditional Zhenjiu therapy, "it is appropriate to recall the words of Claude Bernard (1878):" Science is like a vast building whose upper stones rest on the lower rocks... Each of us lays his stone on top of his predecessor's stone." "Science and practice are more characteristic of the evolutionary, rather than the revolutionary path of development. Modern reflex therapy has arisen on the basis of traditional Zhenjiu therapy, so of course it has to do with it.

In general, the book under review will undoubtedly serve as a joint, conflict-free existence of traditional Chinese medicine and innovative therapeutic and prophylactic technologies developed on its basis for influencing exteroceptive skin zones. Such a course, supported by WHO, will ensure the survival and further development of both directions, allowing for a holistic, personalized approach in health care..."

### I-b. Review of the presented monograph...



*MD, Professor R.I. Chalanova – Department of Medical and Biological Foundations of Physical Education and Rehabilitation of Vinnitsa State Pedagogical University named after. M. Kotsyubinsky.  
March 30, 2019 (Ukraine).*

"...Traditional knowledge of Oriental medicine is currently receiving promising scientific confirmation. One of them is the experimental research of the authors, who verify the biophysical reality of hypothetical "acupuncture channels," their vegetative nature, systemic dependence, and provide a scientific basis for the interpretation of the ancient Chinese Zhenjiu therapy. Understanding its biophysical fundamentals brings together the rehabilitation areas of eastern and western medicine and becomes the basis for further scientific research.

The methodology of "Functional-vegetative diagnostics" (FVD) developed by the authors on biologically active (acupuncture) skin points allows to get a clear idea of the functional state of the main physiological systems and their directed vegetative activity. There is no doubt that the

use of the developed FVD methodology in practical medicine will deepen the notion of the pathogenesis of various diseases and will provide an explanation of the vegetative variability of their clinical course.

The biophysical reality of the "Vegetative matrix of Makats", proved by the authors on the basis of experimental studies and their computer analysis, in our view raises the veil over a deeper layer of ancient Chinese wisdom. The traditional matrix (known as five Elements of the Star cycle) is represented by knowledge of a simplified level that is accessible to understanding and use in the practice of "folk medicine" (at this level many diagnostic and practical nuances could not be taken into account). The vegetative matrix eliminates these contradictions and gives a biophysically grounded picture of systemic vegetative homeostasis.

The coefficients of systemic dependence obtained in the course of FVD indicate the levels of vegetative disorders, the state of functional activity of individual physiological systems and have prognostic significance with respect to the clinical course of functional pathology.

Long-term scientific work of V.G. Makats and E.F. Makats carries significant scientific and practical value. Over the time, it will take a worthy place in the clinical practice of specialists in various areas of medicine..."

## **II. Monograph: FUNDAMENTALS OF FUNCTIONAL VEGETOLOGY (UNKNOWN CHINESE ACUPUNCTURE) VOLUME V**

*(group of authors: Makats V., Makats E., Makats Den., Makats Dm.) // Vinnytsia:Naukova Initsiatyva, Editorial office "Nilan Ltd.", 2018. – 152 P. ISBN 978-617-7706-69-3).*

### **II-a. Review of the presented monograph...**



*Professor **Glickman EA.** – President of the International Academy of Acupuncture, Psychopuncture and Oriental Medicine "Yin and Yang", Academician of the European Academy of Natural Sciences, Honorary Scientist of Europe. Moscow, 19.09.2018 (Russian Federation).*

"...Professor Makats V.G. and his co-authors (Ukraine) are known for their many years of research in the field of modern scientific and practical problems of Zhenjiu therapy. They published more than 30 books in Russian, Ukrainian and English. Information on the most recent of them, published by the Vinnytsia Publishing House "Scientific Initiative", Editorial Board of Nilan-LTD in 2018.6 ISBN 978-617-7706-69-3 readers can find out from the short review provided.

The experimental material of the monograph and its analytical review are of professional interest. A very great useful work was done to check the fundamental provisions of eastern medicine and their rather comprehensive analysis. The functional-vegetative system, which was discovered and interpreted by Ukrainian scientists, is the most important system linking the organism into a single whole. An experimental verification of the basic provisions of eastern medicine (the biophysical reality of the "acupuncture channels" and their systemic dependence) showed that many interactions between the channels are not true. This group of authors made a great contribution as a researcher of oriental medicine.

There is no doubt in the authors' position that traditional oriental knowledge should be understood through their scientific adaptation and evidence-based medicine.

I consider it useful that all reflexologists and doctors of other profiles be acquainted with this information. On the basis of the conducted researches it is necessary to publish methodical recommendations and to publish a popular book (interest in oriental medicine is constantly growing)..."

### II-b. Review of the presented monograph...



*Academician of RAS, Professor V.G. Zilov – Head of the Department of Integrative Medicine. First MGMU named after I.M. Sechenov Ministry of Health of Russia (Sechenov University).  
09.10.2018 (Russian Federation).*

"...The increasing interest of practical doctors to non-medicinal methods urgently requires the study of therapeutic mechanisms. These include, in particular, the method of Zhenjiu therapy - acupuncture or, as it is called in Russia, reflex therapy.

Unfortunately, the explanations of the medical mechanisms of acupuncture by the specialists of Oriental medicine from their positions (five elements, meridians, Qi energy, etc.) do not satisfy the classical European physicians. Separate studies of European scientists on the role of the autonomic nervous system, endocrine factors, immune mechanisms are far from creating a complete picture of the therapeutic mechanisms of acupuncture.

In this regard, we can only welcome the desire of the authors of the "Human functional vegetative system" to identify the biophysical reality of the hypothetical "acupuncture channels", their vegetative essence and functional system character.

The paper presents data on the identification of acupuncture channels and their direct relationship to autonomic homeostasis. The authors identified the functional-vegetative dependence of "acupuncture channels" with their vegetative orientation, determined the age-specific standards of functional-vegetative diagnostics by acupuncture points, based on the control of vegetative coefficients, levels of vegetative activation were developed and then corrected (Diploma of discovery from 11.11.2000 "Functional-energy system of biological objects").

A number of theoretical and practical errors of traditional Zhenjiu therapy have been experimentally proved. The manual presents the vegetative Matrix, which is the theoretical basis of functional vegetology, as well as matrix vegetative keys, which are, according to the authors, the biophysical analogue of the "extraordinary channels".

The developed methodology for identifying "acupuncture channels" translates the hypothetical Chinese Zhenjiu therapy into a biophysically determined clinical discipline and for the first time brings together the concepts of Eastern and Western therapeutic philosophies. Thus, the presented direction transforms the hypothetical concepts of Eastern philosophy into modern evidence-based medicine and requires its place in systemic physiology..."

### II-v. Review of the presented monograph...



*Davydov M.A. – Academician of the International Academy of Acupuncture, Psychoacupuncture and Oriental Medicine "Yin-Yang." The founder of the Oriental School of Massage "Trinity of Changes". Expert in Traditional Chinese Medicine (Uzbekistan).*

"...The monograph "Fundamentals of Functional Vegetology (unknown Chinese acupuncture)" has no analogues and is of great professional interest for specialists in Zhenjiu therapy. A

huge and important work was done to test the philosophical and therapeutic foundations of the new scientific and practical direction.

As a result of many years of research, the authors discovered an unknown previously functional-vegetative system - a biophysical analogue of hypothetical meridians in the traditional art of the Chinese therapeutic school. This is the first time that really unites the external environment and the inner world of a person into a single whole and create a serious scientific and practical basis for the further development of non-traditional methods of treatment.

This direction connects the ancient positions of Chinese natural philosophy with modern materialistic medicine. It translates the traditional foundations of the Eastern Therapeutic School into a section of provable medicine that is accessible for understanding and perception by Western specialists. The studies carried out by the authors convincingly point to the vegetative nature and the functionally dependent systemic nature of the "acupuncture canals" and a number of errors in the interpretation of the basic provisions of Chinese medicine.

Peer-reviewed work opens up a whole range of opportunities for the creative mix of traditional Chinese and modern Western medicine, which will ensure the dynamic development of these mutually complementary areas of therapy. The book will be useful to scientists, reflexologists, students of medical higher and secondary educational institutions, general practitioners and other categories of specialists interested in new opportunities of complementary medicine.

With respect to author's work and inspiration, Davydov M.A..."

### **III. Monograph: BASES OF FUNCTIONAL-ECOLOGICAL EXAMINATION (INDEPENDENT VEGETOLOGY) TOM VI**

*(author's team: Makats V.G., Kurik M.V., Petruk V.G., Nagaychuk V.I., Yermyshev O.V.) // Ukraine, Vinnytsia, "Scientific Initiative", Editor-in-Chief, Nilan-LTD, 2018, 128 S., ISBN 978-617-7706-69-3.*

#### **III-a. Collective review of the presented monograph...**

"...The 6 th volume of the monograph" Fundamentals of Functional and Environmental Expertise (unknown vegetology) "was published in Ukraine. It first proposed the use of functional and vegetative levels for the purpose of environmental assessment of radiation (environmental) contamination of regions of compact residence of children, as an integral bioindicator. the health of children, which the international community has officially recognized as environmentally dependent.

The emphasis is on certain "functional health" as a system adaptive readiness for negative environmental (environmental) and internal (endoecological) environments. There is an understanding of adaptive dependence on the dynamic constancy of functionally-vegetative homeostasis. In other words, endoecology forms the "functional health of the child population", depending on the place of its compact residence and requires a vegetative prophylactic examination of the child population. In this case, it is expedient to carry out functional monitoring in the system of education, where there is access to organized groups of children's population ...

State programs of dosimetric and thyroid-measuring expertise of human settlements affected by the Chernobyl disaster are aimed at "minimizing budget losses of modern power Ukraine" ... But they do not answer the main question: "What threatens the radiation components of integral environmental pollution to the functional health of the children Ukraine "(Genetic fund of the state under threat)...?"

"Functional-ecological examination" gives a concrete answer to a specific issue, is an essential component of radiation monitoring of settlements of Ukraine, requires state attention and indicates the need for a vegetative prophylactic examination of child population and functional monitoring.

Analogues do not have a job ... The raised problem deserves attention, has a state significance for the preservation of the gene pool of any state and requires united social activity ... There is no other way for the survival of mankind..."



January 23, 2019 Doctor of Technical Sciences, Professor **Zvenigorodsky E.L.** - Technical University (Toronto, Canada), [edwardleoni@yahoo.ca](mailto:edwardleoni@yahoo.ca)



28.02.2019. Doctor of Agrarian Sciences, Professor **Krusir G.V.** - Head of the Department of Food Products and Production (National Academy of Food Technologies, Odessa, Ukraine) [krussir.65@gmail.com](mailto:krussir.65@gmail.com)



Jan 31, 2011 Doctor of Biological Sciences, professor **Masikevich Yu.G.** - Department of Hygiene and Ecology (Higher State Educational Establishment of Ukraine "Bukovyna State Medical University", [ecolawkhpi@meta.ua](mailto:ecolawkhpi@meta.ua)



Jan 21, 2019 Doctor of agricultural sciences, professor **Paranyak R.P.** - Head of the Department of Ecology (Lviv National University of Veterinary Medicine and Biotechnology). [paranyak@gmail.com](mailto:paranyak@gmail.com)

### III-B. EXCLUSIVE WORD ABOUT RESULTS OF THE FIRST INTERNATIONAL SEMINAR "PROBLEMS FUNCTIONAL AND ENVIRONMENTAL EXAMINATION OF REGIONS OF RADIATION CONTROL OF UKRAINE"

Special Issue of the International Scientific Journal "Modern Rehabilitation Technologies" (ISSN 2518-1904) is published by the decision of the expert council on the materials of the international scientific and practical seminar (Vinnitsa, Institute of Environmental Safety and Environmental Monitoring, VNTU, 09.11.2016).



Doctor of Technical Sciences, Professor **Petruk V.G.** - Academician of the International Academy of Ecology and Life Safety, Honored Environmental Guard of Ukraine, Director of the Institute of Environmental Safety and Environmental Monitoring of Vinnytsia National Technical University.

"...Dear colleagues!

Today we have heard and discussed a number of scientific reports concerning the "Functional and Environmental Expertise of Regions for Radiation (Ecological) Control" developed in Ukraine's innovation direction. Evaluating the results of the discussion of the raised problem, we can conclude on its relevance and expediency to introduce into the system of environmental security of the state. At the same time pay attention to several not having analogues of features...

For the first time, for the purpose of environmental assessment of radiation (ecological) contamination of regions of compact residence of children, as an integral bioindicator, the use of levels of functional and vegetative health of children is proposed. Bearing in mind that the functional health of children is officially recognized as environmentally dependent by the world community, it is difficult to overestimate the importance of an innovative approach.

The materials presented in the reports and the conclusions made show the significant difference between the official indicators of radiation pollution of settlements and the state of functional health of their children's population. Thus, the current situation requires constant systematic attention and has a state significance for the preservation of the gene pool of Ukraine. The seminar considers the raised problem to be actual, supports the continuation of research in the indicated direction, recommends disclosure of its results in the special issue of the International Scientific Journal "Modern Rehabilitation Technologies" (ISSN 2518-1904) and familiarization with them of the official units of the Ministry of Emergencies and the Ministry of Health of Ukraine.

And finally. On behalf of the organizers and participants of the seminar, I would like to sincerely thank our foreign colleagues who have found the opportunity to take a distant part in his work. Corresponding Member of the National Academy of Sciences of the Republic of Belarus,

Professor Ivanov AP; Professor Hristo A.Krachunov (Bulgaria); Professor Bezak Mazur Ye. (Poland); Professor Rotshtein O.P. (Israel).

I wish the participants of the seminar a solid health and all the best..."

#### **Literature submitted to the review...**

1. Makats V., Makats E. *Unknown Chinese acupuncture (reality, errors, problems). v Vol. i // Ukraine, Vinnytsia: "Naukova initsiatyva", editorial office "Nilan LTD", 2016, 276 P. ISBN 978-966-2932-80-5*

2. Makats V.G, Makats E.F., Makats D.D., Makats D.D *Bases of functional vegetology (unknown chinese acupuncture). Vol.5 // Vinnytsia: "Naukova Initsiatyva", Editorial office "Nilan Ltd.", 2018. – 152 P. ISBN 978-617-7706-69-3*

3. Makats VG, Kurik MV, Petruk VG, Nagaychuk VI, Yermyshev O.V. *Fundamentals of functional and environmental expertise (unknown vegetology). Volume VI - Ukraine, Vinnitsa, "Scientific Initiative", Editorial Nilan-LTD, 2018, 128 S., ISBN 978-617-7742-03-5*