

International program of scientific researches of Chinese Image Medicine and Zhong Yuan Qigong for 2017-2023 years: THE OBJECTIVES OF THE PROGRAM AND THE STATE OF ITS IMPLEMENTATION



*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

GLOBAL INTEGRATION PERIOD



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Strategy of WHO



World Health
Organization

2014-2023 years

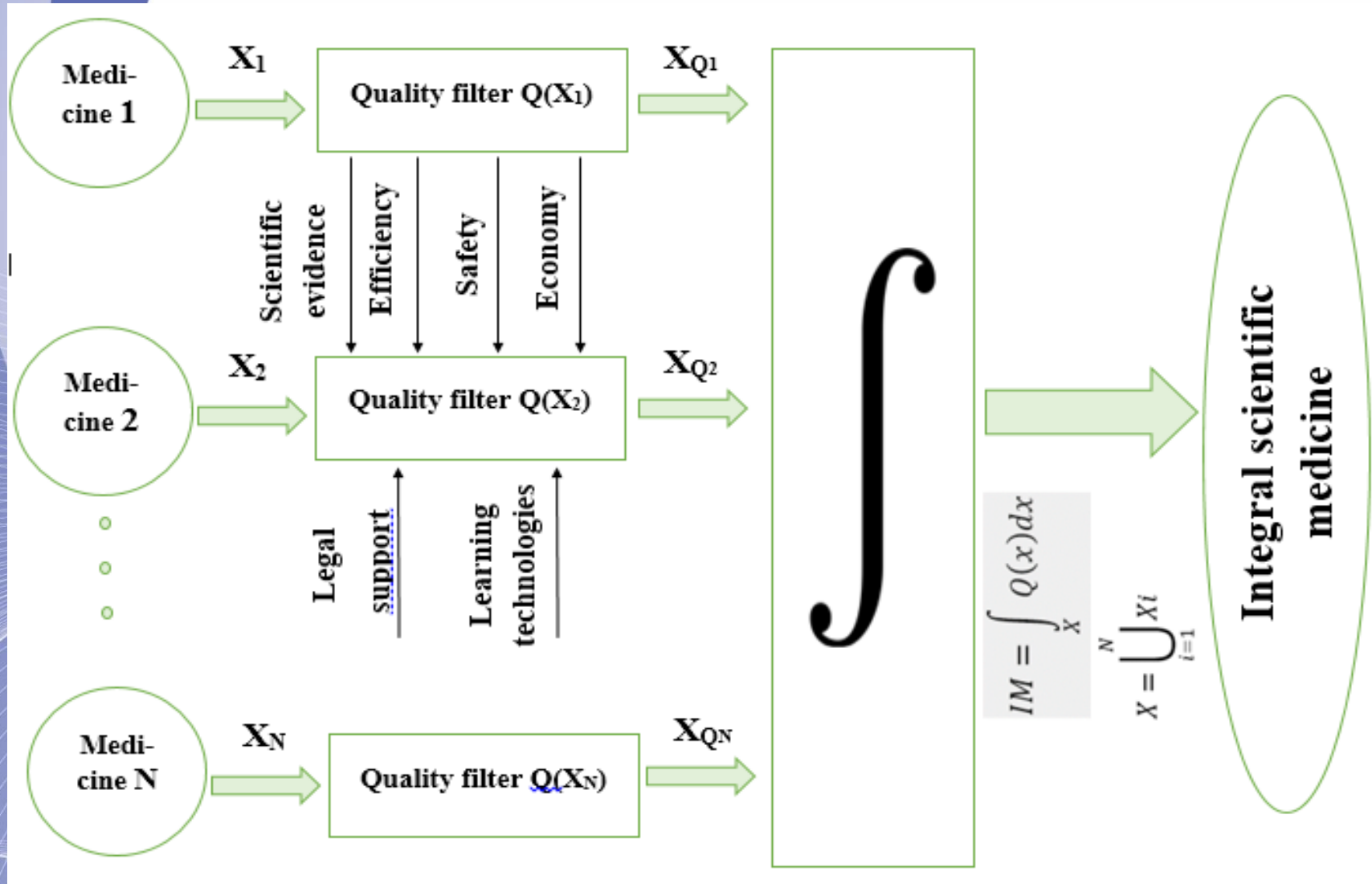
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BASIC RECOMMENDATIONS OF THE WHO STRATEGY

- 1. To strengthen the use of the potential of folk and complementary medicine for the provision of health, well-being, health care to the population.;**
- 2. To promote the safe and effective use of folk and complementary medicine by establishing norms and rules, conducting scientific research and integrating products, practices and practitioners of folk and complementary medicine into national health systems.**

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APPROACH OF INTEGRATED MEDICINE



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COMPARATIVE OF THE QUALITY CHARACTERISTICS

QUALITY CHARACTERISTICS	CONVENTIONAL MEDICINE	NON-CONVENTIONAL MEDICINE	INTEGRATED MEDICINE
Scientific evidence	High +	Low -	High +
Efficiency of treatment of acute diseases	High +	Low -	High +
Effectiveness of treatment for chronic diseases	Low -	Average +\-	High +
Effectiveness of disease prevention	Average +\-	High +	High +
Level of side effects	High -	Average +\-	Low +
Economic cost	High -	Average +\-	Optimal +
Level of legalization and legal support	High +	Low -	High +
The development of infrastructure and training technologies	High +	Low -	High +

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COMPARATIVE OF THE OTHER CHARACTERISTICS

CHARACTERISTICS	CONVENTIONAL MEDICINE	NON-CONVENTIONAL MEDICINE	INTEGRATED MEDICINE
The level of adherence to the principle of the holistic nature of the body soul, mind, and spirit; the integrity of the universe and human	Low -	High +	High +
The level of respect for the principle of vitality in relation to the Universe and human	Low -	High +	High +
The level of individuality of the norm and approach to the patient	Low -	High +	High +
Focus on bias disease, disease prevention	Low -	High +	High +
Emphasis on the psycho-mental state of the patient	Low -	High +	High +
Focus on mobilizing the patient's internal resources	Low -	High +	High +
The importance of close psychological contact between a doctor and a patient	Low -	High +/-	Optimal +

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ACADEMIC CONSORTIUM FOR INTEGRATIVE MEDICINE AND HEALTH CARE (USA)



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“Advancing integrative medicine and health through academic institutions and health systems.”

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NATIONAL CENTER FOR COMPLEMENTARY AND INTEGRATED HEALTH CARE (USA)

U.S. Department of Health and Human Services National Institutes of Health

NIH National Center for
Complementary and
Integrative Health

NIH...Turning Discovery Into Health

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**Complementary, Alternative, or
Integrative Health**
What do these terms mean?

Be Informed
Learn how to make wise health decisions.

Herbs at a Glance
Uses and side effects of herbs and botanicals.

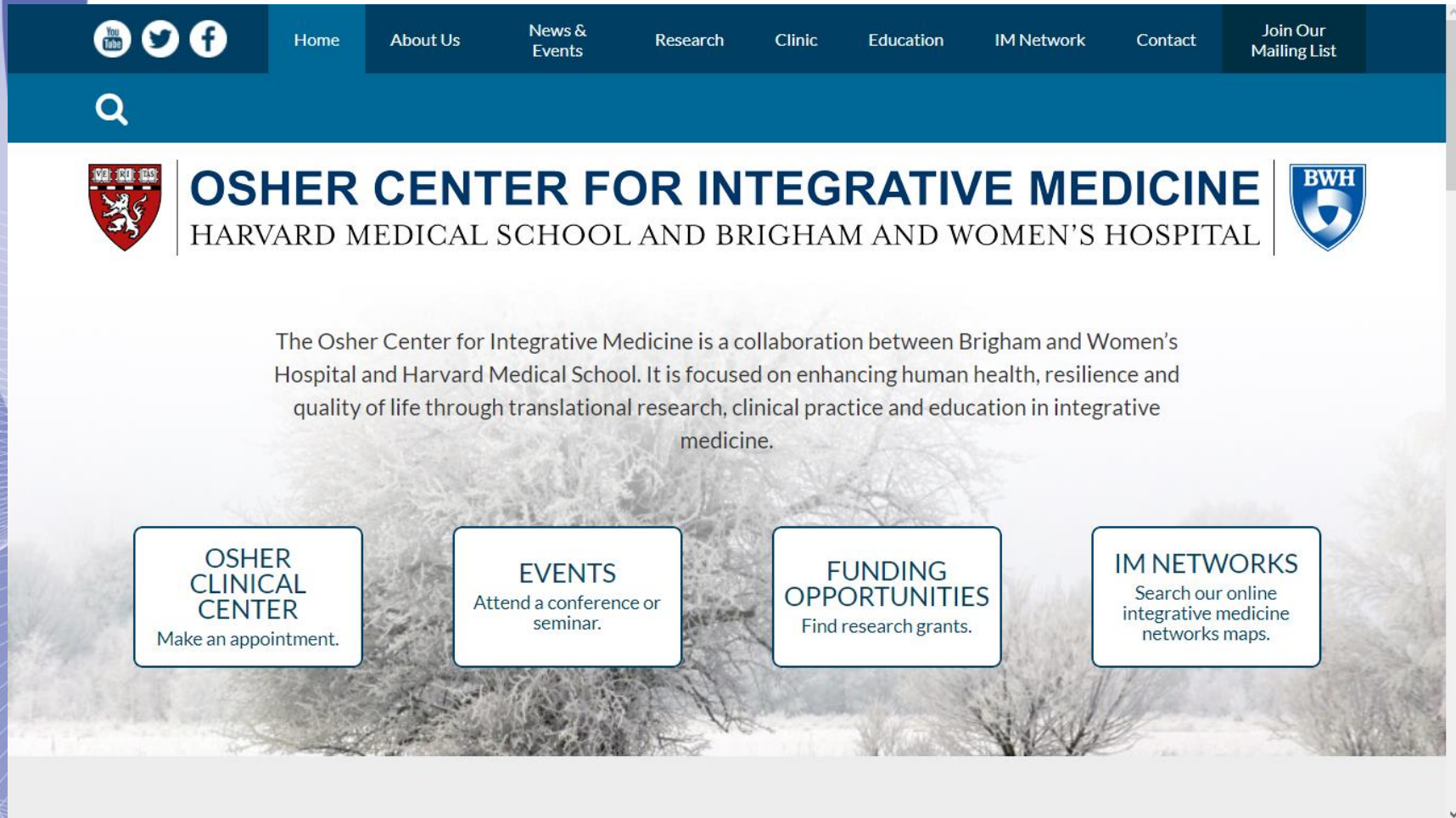
How To Find a Practitioner
Information on seeking treatment.

Information for Health Care Providers
<https://nccih.nih.gov/health/howtofind.htm> pine, continuing education,



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March 17-18, 2018*

CENTER FOR INTEGRATIVE MEDICINE AT HARVARD MEDICAL SCHOOL (USA)



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Q

 **OSHER CENTER FOR INTEGRATIVE MEDICINE** 
HARVARD MEDICAL SCHOOL AND BRIGHAM AND WOMEN'S HOSPITAL

The Osher Center for Integrative Medicine is a collaboration between Brigham and Women's Hospital and Harvard Medical School. It is focused on enhancing human health, resilience and quality of life through translational research, clinical practice and education in integrative medicine.

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WHAT IS INTEGRATIVE MEDICINE



Integrative medicine is a philosophy of healthcare with a focus on individual patient care and combining the best of conventional western medicine and evidence-based complementary medicine and therapies within current mainstream medical practice.

Integrative Medicine reaffirms the importance of the relationship between practitioner and patient, focuses on the whole person, is informed by evidence, and makes use of all

JOIN NOW!

There are many benefits to joining AIMA.

You can opt to take up discounted access to [IMGateway](#) - the definitive, research and evidence-based database of interactions of complementary medicines, food and drugs, in conjunction with Sydney University - as part of your membership.

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WORLD CONGRESS OF INTEGRATED MEDICINE



International Society for
Complementary Medicine Research

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Berlin, Germany
May 3-5th 2017

WORLD CONGRESS INTEGRATIVE MEDICINE & HEALTH 2017

10th ECIM & 12th ICCMR Congress
Berlin, Germany, May 3-5th 2017

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ABOUT THE CONGRESS

PLENARY SPEAKER



Prof Vinjar Fønnebo

National Research
Center in
Complementary and
Alternative Medicine, UiT, The Arctic

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INTERNATIONAL CONGRESS ON INTEGRATIVE MEDICINE AND HEALTH

International Congress *on* **INTEGRATIVE** **Medicine & Health**

ACADEMIC CONSORTIUM FOR
INTEGRATIVE MEDICINE & HEALTH



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March 17-18, 2018

INTERNATIONAL SCIENTIFIC JOURNALS OF INTEGRATIVE MEDICINE



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March 17-18, 2018*

PROGRAM OF SCIENTIFIC RESEARCHES OF CIM AND ZYQ FOR 2017-2023 YEARS

Последние новости

С 30 марта по 1 апреля 2018 года в Москве (Россия) пройдет семинар по китайской имидж-медицине с Ларисой Нестеренко

27.02.2018

С 12 по 23 июня 2018 года в Гаграх (Абхазия) пройдет семинар по китайской имидж-медицине с Натальей Капыриной

23.02.2018

С 4 по 6 марта 2018 года в Харькове (Украина) пройдет первая ступень китайской имидж-медицины с Александрой Летягиной

22.02.2018

С 5 по 9 марта 2018 года в Москве (Россия) пройдет практический семинар по китайской имидж-медицине с Татьяной Фогель

15.02.2018

С 9 по 11 мая 2018 года в Киеве (Украина) пройдет семинар по IV ступени Чжун Юань цигун с Мастером Сюй Минтаном

14.02.2018

Все новости...

Международная программа научных исследований китайской имидж-медицины и Чжун Юань цигун на 2017-2023 год

Приглашение

Уважаемые друзья и соратники!

Пекинский медицинский исследовательский Институт «Кундавелл» приглашает исследовательские, учебные и общественные организации, клиники, фонды и др. заинтересованные структуры, а также имидж-терапевтов и ЧЮЦ-практикующих принять участие в Международной программе научных исследований китайской имидж-медицины и Чжун Юань цигун на 2017-2023 год.

Свои предложения по сотрудничеству, замечания и коррекцию Программы, а также интересующие Вас вопросы просим присылать на электронный адрес: science@kundawell.com с указанием темы отправки: «Программа КИМ и ЧЮЦ»



Продукты китайской имидж-медицины



Чжун Юань цигун

Официальный сайт Школы цигун Мастера Сюй Минтана. Информация о школе и инструкторах, расписание семинаров.
<http://www.zyq108.com>

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March 17-18, 2018*

GLOBAL GOALS OF SCIENTIFIC RESEARCHES OF CIM

1. Entering CIM into the Integrative scientific medicine, which will facilitate the legalization, consolidation and growth of the prestige of CIM and ZYQ at the national, international and world levels, as well as increase the efficiency of the work of the CIM-specialists through the standardization of the theory and practice of the CIM and the implementation of the newest intellectualized information systems for the organization, coordination of activity, training, advanced training of the CIM-professionals community.
2. The development of scientific theories, models, methods and informational-analytical tools within the framework of various sciences (medicine, biology, complex physics, artificial intelligence, cognitive psychology, semiotics), which are based on the post-classical type of scientific rationality, the paradigm of rational holism and subjective ontologies , taking into account internal (semantic, spiritual, ideal) dimensions of reality.

THE DISADVANTAGES OF MODERN STATE OF RESEARCH CIM

1. In the course of research on the methods of CIM, insufficient attention is paid to the planning and organization of the research process itself in accordance with the standards of modern evidence-based medicine, in particular, studies are characterized by very limited (sometimes isolated cases) volume of homogeneous statistical data, and the use of an alternative (control) group of patients in research, there are no standardized requirements, reporting forms for all the CIM-therapists during diagnosis and treatment, which is substantially complicated evaluating of the effectiveness of CIM-methods with a high degree of statistical accuracy and reliability.
2. There is practically no valid scientific justification and explanation of the real mechanisms (physical, chemical, energy, information, psychological, socio-cultural) for obtaining diagnostic information and emerging therapeutic effects in the CIM and in the practice of ZYQ, which forms some skeptical attitude to its methods in a wide academic community.

THE DISADVANTAGES OF MODERN STATE OF RESEARCH CIM

3. It is not clear which factors have the highest priority in the treatment of a particular patient's illness, its health improvement and rehabilitation by the methods of CIM: physical impact (massage), psychological impact (conversation with the patient), energy impact of the CIM-therapist with the help of radiation of his Chi, information effect of the therapist by changing the image of the disease, the impact of drugs, herbs and supplements, the role of the patient in the cure (the placebo effect).
4. There are not sufficiently substantiated, statistically significant scientific evidence of the explicit therapeutic effects of such specific factors as the effect of using Chi radiation and information exposure by changing (erasing) the image of the disease, since such essential factors for CIM are hidden by other known factors of the therapeutic effect, namely: physical effects (massage), psychological effects (conversation with the patient) and the role of the patient in the cure (the placebo effect).

THE DISADVANTAGES OF MODERN STATE OF RESEARCH CIM

5. The theory of CIM is based on ancient Chinese philosophical and medical concepts, and not on strict scientific concepts of modern science, and therefore it does not satisfy the principles of scientific (logic, verifiability, falsification). For the concepts and conceptual models of the CIM characteristic fuzzy, blurred, multi-valued interpretations. This significantly complicates the construction of a scientific theory with the properties of integrity (completeness), the absence of logical contradictions, scientific interpretation, clarity and unambiguousness of its elements and structure.
6. From the general traditional theory of CIM, it is not possible to construct a detailed nosological taxonomy of the types of human diseases in the CIM and to compare it with the developed exact nosological taxonomy of the western (scientific) medicine.
7. There are no modern information and analytical software tools for collecting and analyzing the results of diagnosis and treatment of CIM methods, intelligent expert systems for the CIM, as well as the e-learning system CIM.

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March 17-18, 2018*

DIRECTIONS OF SCIENTIFIC RESEARCHES OF CIM

DIRECTION	DESCRIPTION OF THE DIRECTION
THE THEORETICAL DIRECTION	Relates to the development of scientific concepts, models, methods, theories of CIM using the theoretical and methodological approach of modern science
THE EXPERIMENTAL DIRECTION	Relates to the organization and conduct out of comprehensive objective instrumental, laboratory and statistical studies of the physical and physiological (biophysical, biochemical, bioinformational) processes in the human body under the influence of the CIM-therapist and the individual practice of ZYQ.
DIRECTION OF CLINICAL RESEARCHES	Relates to the development and implementation of clinical research programs for CIM and ZYQ methods in accordance with the requirements and standards of modern evidence-based medicine.
INFORMATIONAL-ANALYTICAL DIRECTION	Relates to the development and support of an integrated information and analytical system of scientific research, professional healing activities and training of the CIM, which serves for the organization and coordination of the activities of researchers, CIM-therapists and instructors, the collection, automated statistical and intellectual analysis of the results of treatment by the methods of CIM and the results of ZYQ practice, the creation of a unified database of all theoretical, experimental and clinical research in the field of CIM and ZYQ, the development of the web-oriented system of e-learning of the CIM-specialists, the expert system of support for the adoption of diagnostic and therapeutic decisions in the field of CIM.

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March 17-18, 2018*

SOME TASKS OF THE THEORETICAL DIRECTION OF RESEARCHES CIM

1. To develop the foundations of the modern scientific theory of the CIM, which explains the mechanisms of the emergence of therapeutic effects from the influence of the CIM-therapist and the personal practice of the ZYQ, and also explains the nature and patterns of receiving the diagnostic information of the CIM-therapist by sensory, image perception and processing using image thinking.
2. To develop a scientifically substantiated conceptual-terminology apparatus CIM, which will be understood by the modern scientific society and is the basis for the development of scientifically-based standards and technologies for training the CIM.
3. To develop the theory of CIM in the form of an ontological model as the most effective structure of representation of knowledge in systems of artificial intelligence and expert systems that will enable to create a complete thesaurus (conceptual terminology apparatus) and the info-logical model of its subject area, as well as enable automation and integration of the procedure for processing the necessary information with the help of modern information technologies and systems of artificial intelligence.

SOME TASKS OF THE EXPERIMENTAL DIRECTION OF RESEARCH CIM

1. To develop and conduct a complex of experimental researches of real mechanisms (physical, chemical, energy, informational, psychological), which lead to the emergence of therapeutic effects under the influence of the CIM-specialist and the personal practice of ZYQ.
2. To develop and conduct a complex of experimental studies to determine the priority therapeutic factors of influence on the patient (physical impact (massage), psychological effects (conversation with the patient), energy impact of the CIM-therapist by radiation and quality change Chi, information effect of the therapist by changing the image of the disease, the influence of medicines, herbs and dietary supplements, the role of the patient himself in the treatment (the effect of Placebo) in the CIM-methods of treatment of diseases. In particular, to carry out a complex of experimental studies to test hypotheses about the significance of therapeutic effects with the help of "Chi" radiation and information influence, by changing the image of the disease.

SOME TASKS OF THE CLINICAL RESEARCH DIRECTION OF CIM

1. To develop the general program of clinical research of the CIM on the basis of evidence-based medicine and taking into account the specifics of the activities of the CIM-specialist.
2. Develop forms and templates for personal information about the patient, the results of his independent laboratory and functional research, the results of his diagnosis and treatment of CIM methods based on the states of evidence-based medicine and the specifics of the activities of the CIM-specialist.
3. Create a statistically significant database of results of clinical and experimental studies (primary homogeneous statistical research material).
4. To conduct statistical and analytical processing on the results of clinical and experimental studies, on the basis of which to evaluate the effectiveness of diagnostic methods and treatment methods of the CIM, to verify the concepts, models, methods, theories of the CIM using the information-analytical system.

SOME TASKS OF INFORMATIONAL AND ANALYTICAL DIRECTION

- 1. To develop an web-based Image-Therapist information system for organizing professional work, exchanging the experience of the CIM-specialists and selecting the primary information for the formation of the database and knowledge base in the field of CIM.**
- 2. To develop the information system of scientific analysis, forecasting, evaluation of efficiency, optimization of diagnostic results and treatment by the methods of compromise on the basis of processing of the primary information received from the system "Image-therapist" and conducted clinical researches of CIM.**
- 3. To develop the knowledge base of the CIM on the basis of the ontological model of its subject area, and the virtual system of presentation and processing of diagnostic information of the CIM-specialist (specialized database of knowledge "Atlas of images")**
- 4. Develop a web-based remote multimedia learning, testing and self-testing system for CIM-professionals.**
- 5. To develop an expert system for diagnostic and therapeutic decision-making support in CIM.**

OTHER SECTIONS OF RESEARCH PROGRAM OF CIM

SECTIONS OF RESEARCH PROGRAMS	BRIEF DESCRIPTION
STAGES OF THE PROGRAM IMPLEMENTATION	The program is implemented through a series of stages, each of which can be considered as a separate independent project. The names of the stages themselves, their content, expected results, performers and terms of execution will be determined as the team of the Program participants forms within the framework of the concluded agreements
POTENTIAL PARTICIPANTS OF THE PROGRAM	The main initiator, organizer and coordinator of the study program is the Beijing Medical Research Institute "Kundavell" (China). The role of potential participants in the Program can be Universities, research institutes, clinics, foundations, community organizations, associations, firms and individuals.
MATERIAL-TECHNICAL SUPPORT OF THE PROGRAM	The program is implemented on the material and technical basis of the Program participants in accordance with the cooperation agreements
FINANCING THE PROGRAM	Receiving grants; financing of research by the Program participants at their own expense in the framework of concluded agreements on mutually beneficial cooperation; International Charitable Foundation «Mintan»; Charitable contributions of public organization participants associated with the development of Zhong Yuan Qigong and Chinese Image medicine; sponsorship of legal entities and individuals
CRITERIA OF QUALITY OF THE PROGRAM IMPLEMENTATION	The main criteria for implementing the Program are independent examination of research results, scientific publications in well-known peer-reviewed publications and reports at international conferences and congresses, preparation and publication of the English language in the prestigious publishing house of a collective scientific monograph

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March 17-18, 2018*

GROUP OF RESEARCHERS



Lupenko Sergii – Doctor of Technical Sciences, professor.

The author and coordinator of the International Program for the researches of Chinese Imaging medicine and Zhong Yuan Qigong for 2017-2023.

Direction: the creation of the scientific theory of Chinese image medicine as an integral part of the medicine, as well as the development of an integrated onto-oriented informational and analytical environment for scientific research, professional healing activities and e-learning of CIM



Vakulenko Dmitry – Doctor of Biological Sciences, Associate Professor, Head of the Department of Medical Informatics of TDMU.

Direction: development and implementation of the information system of Image medicine, the research of the impact of the Concept of Wu Xing, Zhong Yuan Qigong's methods on the human body.



Sverstiuk Andrii – Candidate of Technical Sciences, Associate Professor of the Department of Medical Informatics of TDMU.

Direction: creation of a methodology for organizing clinical trials on the effectiveness and safety of Chinese image medicine in the context of evidence-based medicine, as well as the development of an information system for scientific research as an integral part of an onto-oriented information.

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March 17-18, 2018*

GROUP OF RESEARCHERS



Horkunenko Andrii – Candidate of Technical Sciences, Associate Professor of the Department of Medical Physics of Diagnostic and Therapeutic Equipment of TDMU.

Direction: creation of an expert system for the support of diagnostic and therapeutic decisions in the field of CIM.



Pavlyshyn Andrii – surgeon, Candidate of Medical Sciences, Associate Professor of the Department of Surgery №2, the best inventor of the Ternopil region (in 2008 and in 2015), Prize winner named after I. Puluj, Head of the Patent Information Department of TDMU.

Direction: the implementation of the Research Program is the creation of a methodology for organizing clinical trials on the effectiveness and safety of CIM in the context of evidence-based medicine



Orobchuk Alexandra – postgraduate student of the Department of Computer Systems and Networks of TNTU.

Direction: the development of onto-oriented e-learning system for CIM



Mosyi Lyubomir – a leading engineer of the Department of Automation of Technological Processes and Production of TNTU;

Direction: creation of an expert system for the support of diagnostic and therapeutic decisions in the field of CIM.

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March 17-18, 2018*



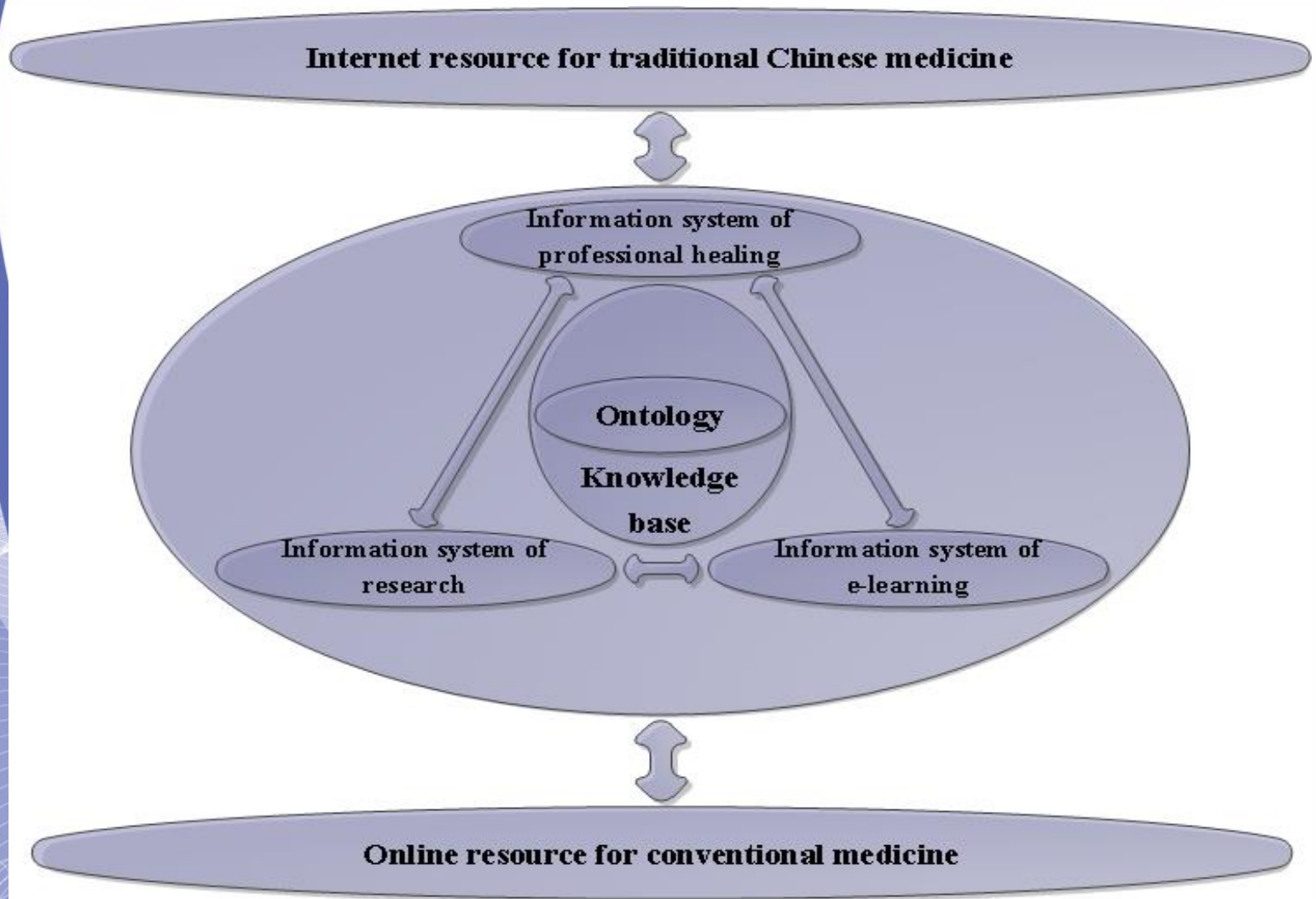
STATE OF RESEARCHES IN THE FRAMEWORK OF THE INFORMATION-ANALYTICAL DIRECTION OF THE PROGRAM

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March 17-18, 2018*

THE PURPOSE OF DEVELOPING THIS INFORMATION-ANALYTICAL ENVIRONMENT FOR CIM

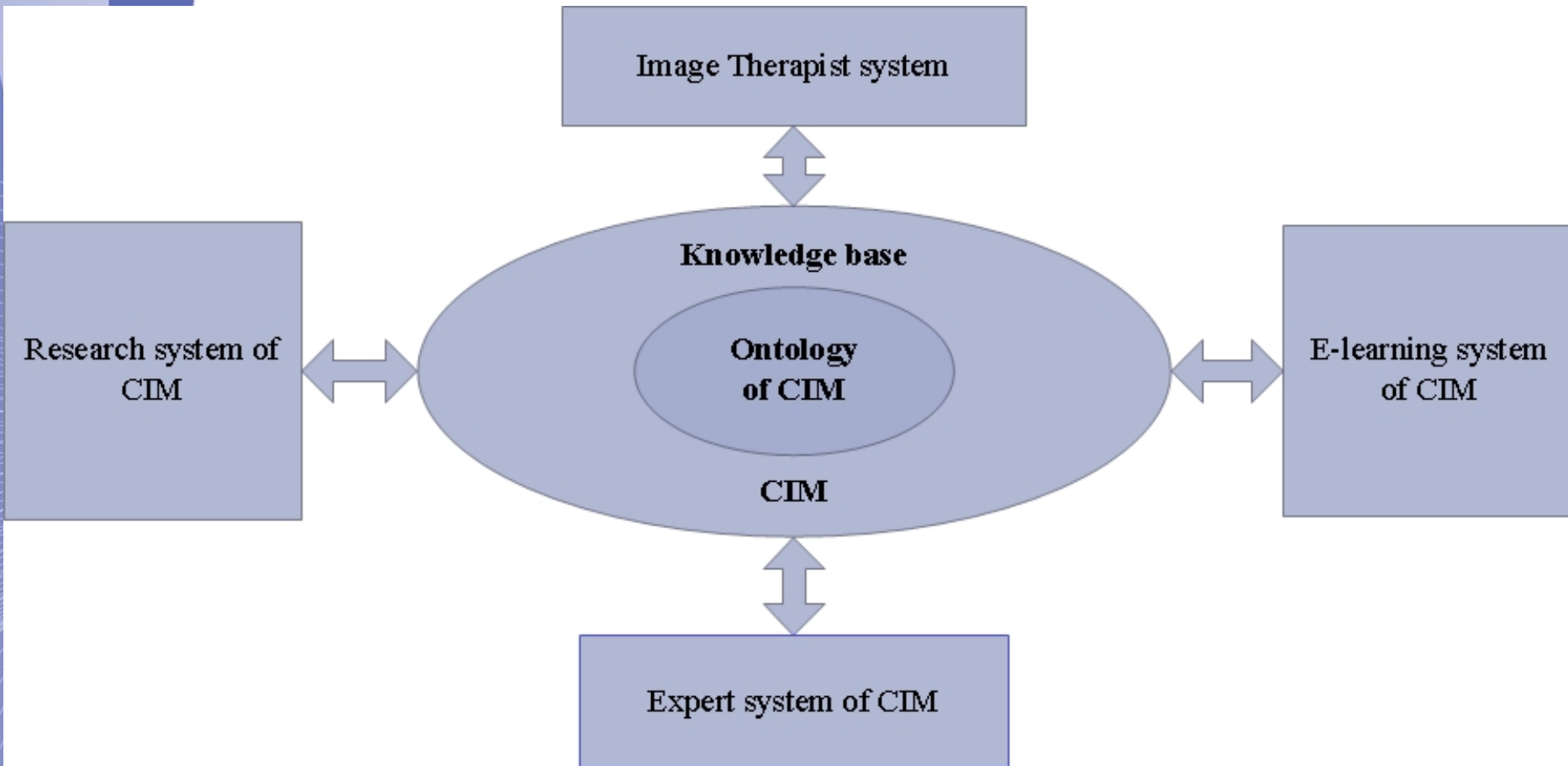
1. Improving the quality (evidence, effectiveness, safety, controllability, reliability, cost-effectiveness, intensity) of professional activity and the exchange of experience of CIM-therapists.
2. Providing effective organization and coordination of the functioning of the CIM-therapists, the researchers of the CIM, the persons studying the CIM.
3. Providing at high scientific, technological and infrastructural levels of collection, automated statistical and intellectual analysis of the results of diagnosis and treatment of CIM methods.
4. Creation of a unified database and knowledge base for theoretical, experimental and clinical research in the field of CIM.
5. Formation of modern intellectualized information resources and resources in the field of folk, complementary and integrative medicine on both at the national and international levels.

INFORMATIONAL-ANALYTICAL ENVIRONMENT FOR CIM



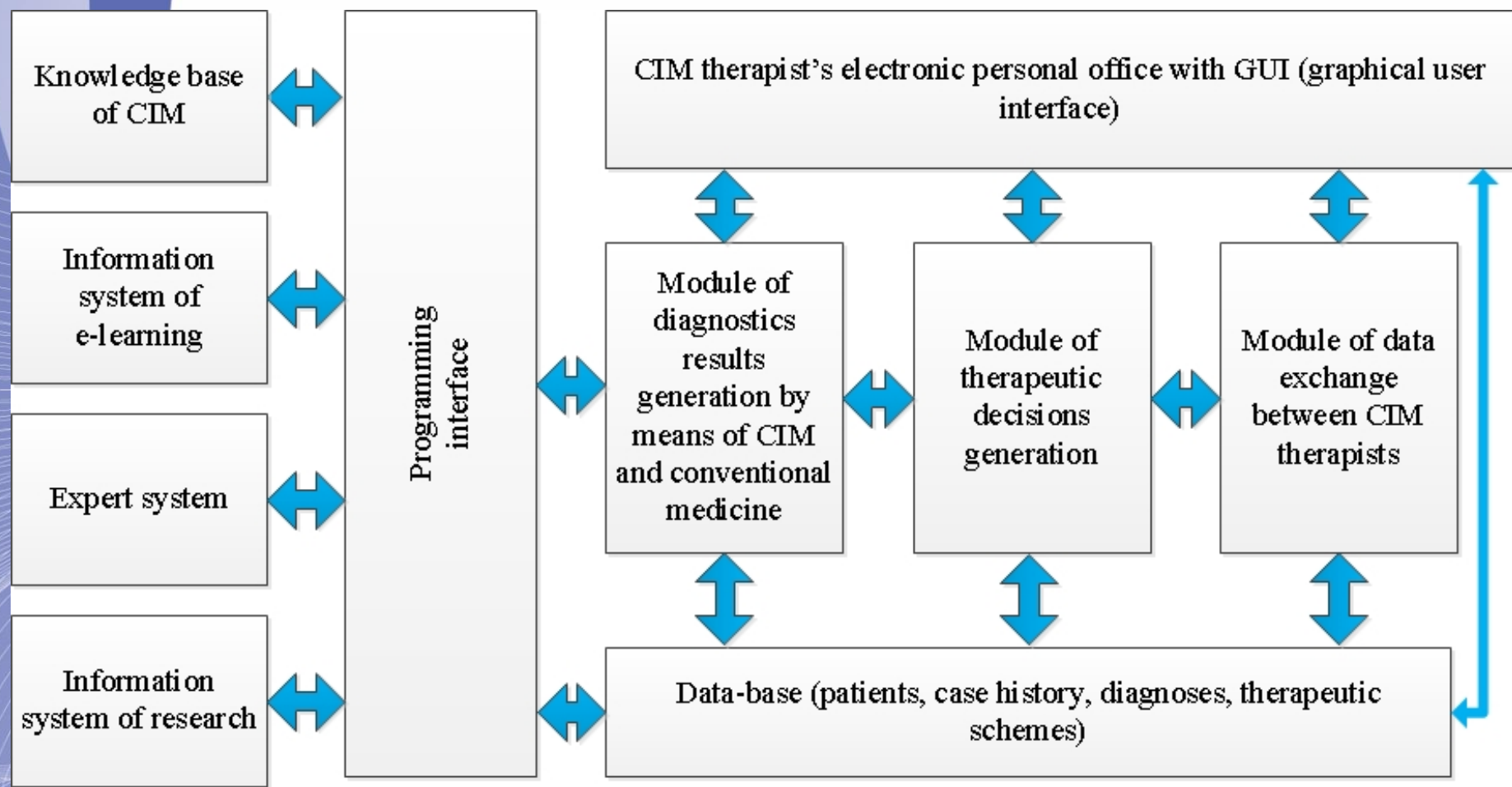
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March 17-18, 2018*

GENERALIZED ARCHITECTURE OF THE INFORMATIONAL-ANALYTICAL ENVIRONMENT OF THE CIM



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March 17-18, 2018*

GENERAL ARCHITECTURE OF INFORMATION SYSTEM OF PROFESSIONAL HEALING IMAGE THERAPIST



TYPES OF DIAGNOSTIC INFORMATION IN THE IMAGE-THERAPIST SYSTEM

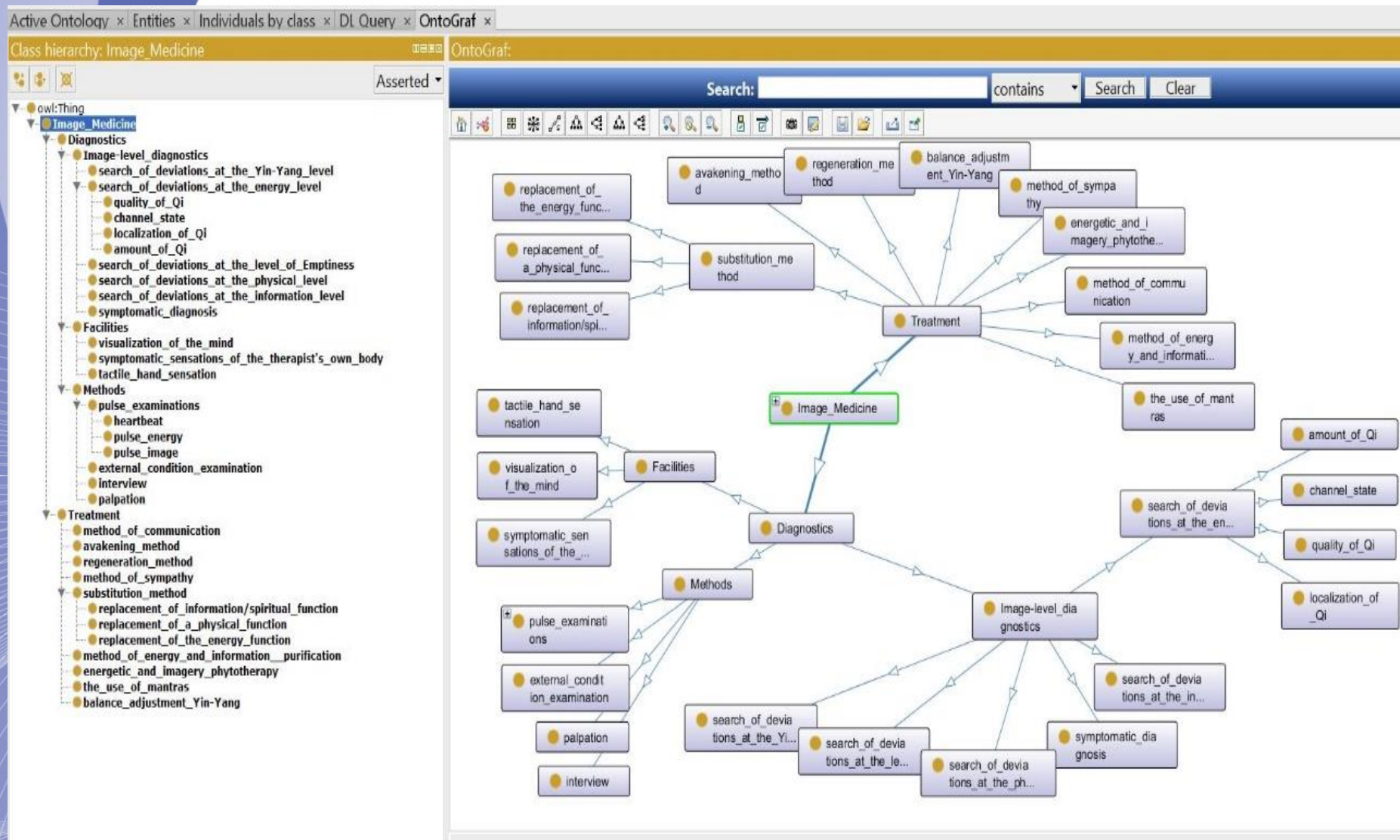
Personal information
(age, sex, family members, etc.)

Medical information about a patient
includes data obtained by means of
conventional (Western) medicine,
such as case history and medical
examinations (tests, functional
diagnostics results, doctor's
conclusion, etc.)

**Self-assessment information (physical
and psychological state) about a
patient before and after therapy by
means of psychologic testing**

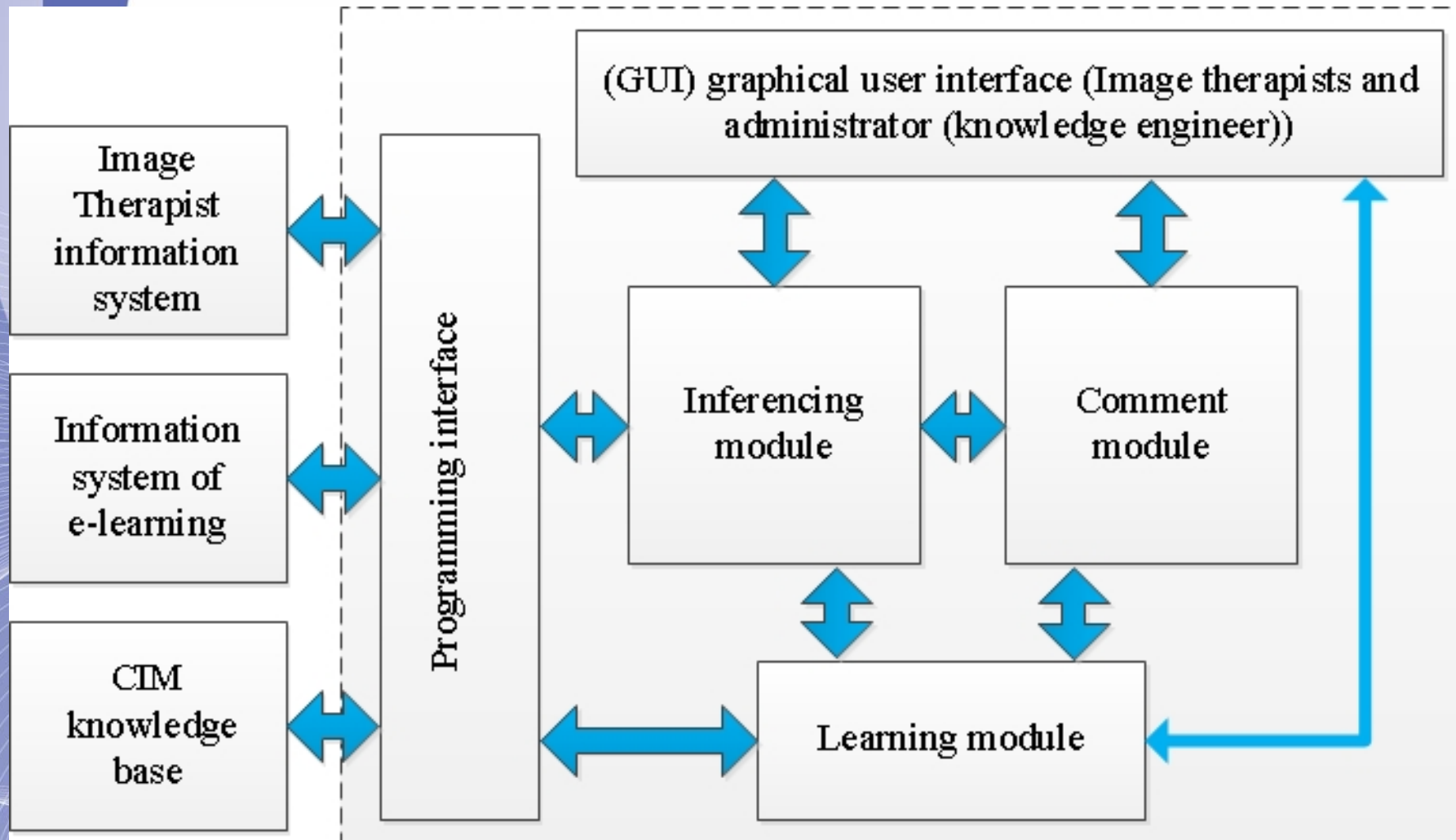
**Diagnostic information obtained by
TCM and CIM, such as results of TCM
diagnostics methods (examination,
auscultation, palpation diagnostics),
energy diagnostics with hand and (or)
body, internal image diagnostics ('eye
of mind', 'second heart')**

A FRAGMENT OF THE ONTOLOGY OF CIM



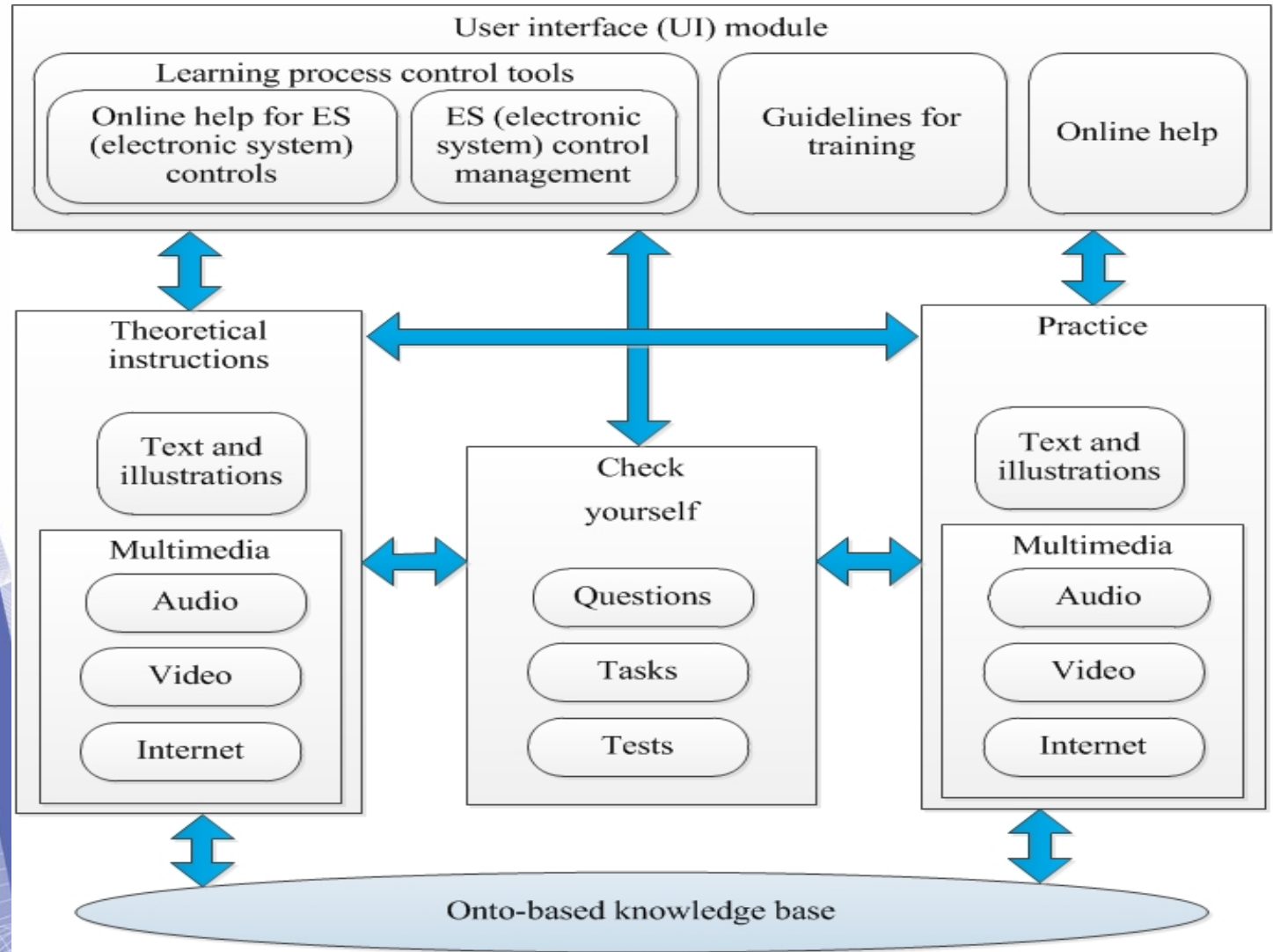
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March 17-18, 2018*

GENERAL ARCHITECTURE OF THE EXPERT SYSTEM FOR DIAGNOSTIC AND THERAPEUTIC DECISION-MAKING SUPPORT IN CIM

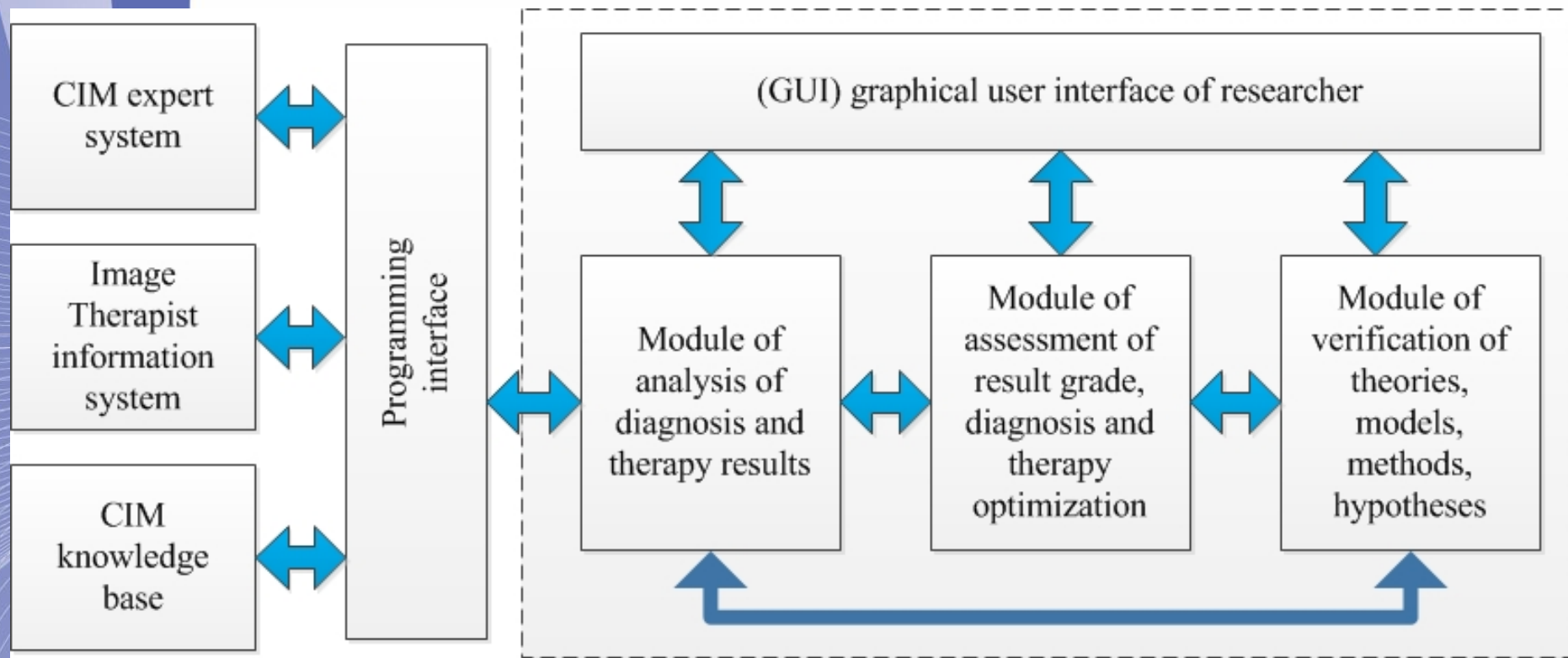


*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

GENERAL ARCHITECTURE OF THE E-LEARNING INFORMATION SYSTEM FOR CIM THERAPISTS



GENERAL ARCHITECTURE OF THE INFORMATION SYSTEM OF CIM RESEARCH





STATE OF RESEARCHES IN THE FRAMEWORK OF THEORETICAL PROGRAM DIRECTION

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March 17-18, 2018*

THE OBJECT AND SUBJECT OF THE SCIENTIFIC DIRECTION OF THE STUDY CIM

A generalized research object	The generalized object of the research of the scientific direction of the CIM is the process of diagnostic-therapeutic interaction of the image-therapist and the patient, as well as the consequences (results) of such interaction in all its aspects: physical, energy, information, psychological (emotional), mental, spiritual, cultural
A generalized subject of research	The generalized subject of the research of the scientific direction of the CIM is the models, methods, concepts, theories, technologies of diagnostic-therapeutic interaction of the image-therapist and the patient.
Set of separate subjects of research	Since the generalized object of research can be studied from the standpoint of various modern scientific fields, for example, such as physics, mathematics, psychology, physiology, anatomy, computer science, cybernetics, synergetics, system theory, semiotics, as well as from the positions of various technical sciences, then in natural way a wide range of possible research subjects in the scientific direction of the CIM are formatted.

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

REQUIREMENTS FOR THE SCIENTIFIC THEORY OF CIM

REQUIREMENTS TO THE SCIENTIFIC THEORY OF CIM	DESCRIPTION OF GROUP OF REQUIREMENTS
A group of logical theory requirements	Contains the requirements for the theory of the CIM from the standpoint of satisfaction of the principles of logical rigor (the law of identity), the not contradiction, completeness and compactness of the presentation of knowledge (concepts, statements, models and methods) in this theory
A group of requirements for the experimental validity of the theory	Contains requirements (clinical, measuring, experimental, introspective) of verifiability and falsificability of concepts, statements, principles, models, methods of the theory of CIM
A group of requirements of convenience in use	Contains the requirements for the characteristics of the convenience of using the theory of CIM in terms of logical, technical and educational operation of its terminology-conceptual apparatus, models and methods. In particular, this group contains the requirements that the scientific theory of CIM should be presented in three forms: a meaningful verbal form, as a formalized (formal) theory and in the form of computer ontology.
Group of requirements of consistency	Contains the requirements for the consistency of the scientific theory of CIM with the scientific theory of Integrative Medicine and with the traditional theory of CIM and TCM

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

THE DEDUCTIVE-AXIOMATIC STRATEGY OF BUILDING THE THEORY OF CIM

The deductive-axiomatic strategy of constructing a terminology-conceptual apparatus CIM	1. Isolation of the set of fundamental concepts of the theory of CIM. 2. The definition of derivative concepts of the theory of CIM based on its fundamental concepts.
Deductive-axiomatic strategy for organizing a set of true assertions of the theory of CIM	1. Isolation of the set of true assertions-axioms, the truth of which is accepted without proof. 2. Setting the set of rules for the logical deduction (proof) of all assertions (theorems) of the theory from the set of its axioms.
The deductive-axiomatic scheme of constructing the theory of CIM is substantiated, which provides fulfillment of a group of logical requirements and a number of convenience in use requirements	

CONCEPTUAL PROJECTIONS OF THE THEORY OF CIM

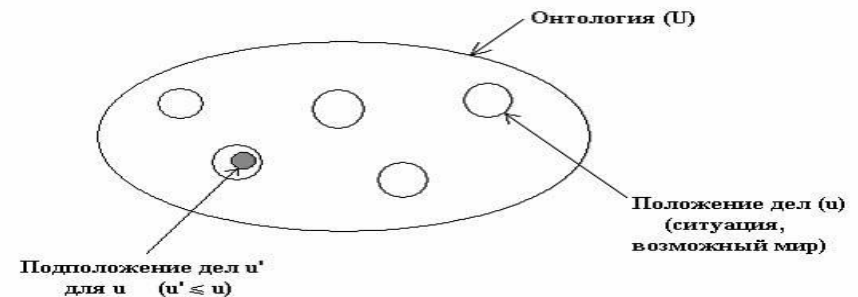
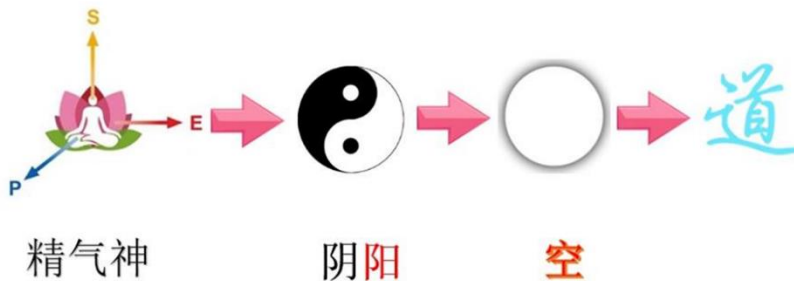
TRADITIONAL CONCEPTUAL PROJECTION OF CIM THEORY

Describes CIM in terms and concepts that are characteristic of ancient Chinese culture, philosophy and medicine. And also reflects the terminological-conceptual apparatus of practical understanding of the theory of the CIM by modern CIM-specialist

MODERN SCIENTIFIC CONCEPTUAL PROJECTION OF CIM THEORY

Describes and investigates the CIM using a rigorous scientific methodology within the classical, non-classical and post-classical type of scientific rationality.

生命的组成



$b(u)$ - текущее тело в u , где $b(u) \leq u$

$B = \{b(u) : u \in U\}$ - тело (body)

$\Psi : U \rightarrow [0,1]$ - степени себя

$S = \langle U, B, \Psi \rangle$

рис. 1

TYPES OF SCIENTIFIC RATIONALITY

	Classical rationality (antagonism of polar origin)	Non-classical rationality (unity of polar origin)
Ontological status	Ontological status is endowed with only actual material (external) being. The inner (ideal, potential, spiritual, conscious) being declared epiphenomenon	Ontological status is endowed with actual material (external) being, as well as the potential (internal, ideal, spiritual, conscious) being. Synergy between actual and potential forms of Being.
Subject-object interaction	Independence of the object of research from the subject who knows it	Takes into account the fundamental role of the subject in the process of knowing the object. Subject-object integrity.
Matter, energy and information	Matter as a substance is primary. Between energy and matter there is no close interconnection. The role of information is minimal. Matter is passive	Interconversion of energy and matter, interconnection, unity of energy and information. Matter has inner activity
Space and time	Space and time as independent separate forms of existence of matter	Synthesis of the concepts of space and time in a single concept of space-time (space-time continuum)
Substance - field, particles-waves	Antagonism of substance and field, particles and waves	The holistic notion of "substance-field," the principle of completeness of Bohr for particles and waves
Local and nonlocal interactions	Nonlocal interactions are not recognized	Synergy between local and nonlocal interactions
Live and inanimate	Lives - only the highest form of the existence of inanimate, the epiphenomenon is declared	Vitalization of objects of science, subjective ontologies
Reduction and holism	The priority of reductionism, analysis	Prioritize holism, the integrity of analysis and synthesis
Axiological aspects	The priority of truth over other valuable categories	Convergence of the category of truth with other value categories (goodness, beauty)

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

METHODOLOGICAL MODELS OF RESEARCH CIM

Classical methodological model

Non-classical methodological model

The use of the classical methodological model will make sense for organizing, conducting and analyzing clinical trials of CIM in the framework of evidence-based medicine

Non-classical methodological model has considerable research potential in the scientific substantiation and explanation of the real mechanisms for obtaining diagnostic information in the CIM, the emergence of the received therapeutic effects in the CIM because it is possible to describe the psychological, energy impact of the CIM therapist, the information influence of the therapist by changing the image of the disease, and also psychosomatic processes of self-treatment of the patient

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March 17-18, 2018*

SEPARATE STRUCTURE OF THE THEORY OF CIM

SECTIONS OF THEORY	DESCRIPTION OF SECTION CONTENT
General theory of CIM	Describes the basic concepts and ideas of the CIM and serves as a practical-philosophical foundation for the rest of the CIM sections
The theory of health and diseases in CIM	Describes the basic concepts of health and diseases in CIM; diagnostic standards of health and diseases for their evaluation by various methods of diagnosis of CIM; the classification and definition of the types of diseases in the CIM
The theory and technology of diagnostics in the CIM	Describes and formalizes theoretical foundations, methods and means of obtaining diagnostic medical information by the methods of the CIM, as well as methods of its interpretation.
Theory and technology of therapy in CIM	Describes and formalizes theoretical foundations, methods and means of conducting therapeutic procedures in the CIM, as well as their interrelations with the corresponding diagnostic information.
Theory and technology of training, the development of a CIM-specialist	Describes educational theoretically and practically oriented content, as well as technologies for its implementation into the educational process for the preparation and improvement of the qualification of the CIM-specialists

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March 17-18, 2018*

PARTS OF THE THEORY OF CIM

GENERAL SCIENTIFIC THEORY OF CIM

Taking into account the promising role of CIM in the use of Interactive Medicine, it is right to develop the general scientific theory of CIM as a general theory of Scientific Integrative Medicine, which is currently in the stage of its active development

SPECIAL SCIENTIFIC THEORY OF CIM

Displays the specific and unique knowledge that is typical for the CIM, and which is based on the knowledge of the general scientific theory of Integrative Medicine

THE SECTIONS OF THE GENERAL AND SPECIAL PARTS OF THE THEORY OF CIM

SECTIONS OF GENERAL THEORY OF INTEGRATED MEDICINE

The General Theory of Reality and human in Integrative Medicine

General theory of health and diseases in Integrative medicine

General theory and diagnostic technologies in Integrative Medicine

General theory and technology of therapy in Integrative medicine

General theory and technology of training, development of a specialist in Integrative Medicine

SECTIONS OF THE SPECIAL THEORY OF CHINESE IMAGE MEDICINE

Special theory of reality and human in the CIM

Special theory of health and diseases in CIM

Special theory and diagnostics technology in the CIM

Special theory and technology of therapy in CIM

Special theory and technology of training, development of the CIM-specialist

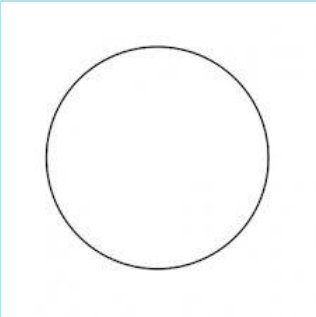
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March 17-18, 2018*

FORMS OF PRESENTATION OF THE THEORY OF CIM

FORMS OF PRESENTATION OF THE THEORY OF CIM	DESCRIPTION OF THE FORMS OF PRESENTATION OF THEORY CIM
A meaningful form of presentation of the theory of CIM	Presentation of the theory of the CIM in the verbal-conceptual form by means of natural language
Formalized (formal) theory of CIM	It is presented in the theory of CIM with the use of artificial languages of mathematics and mathematical logic (descriptive logic), which make it possible to have an accurate, consistent and compact description of it.
Theory of CIM as a computer ontology	The presentation of the theory of CIM in the form of a computer knowledge base in the language of ontology development (for example, OWL), which enables the use of modern systems of artificial intelligence in the professional activities and training of CIM-professionals

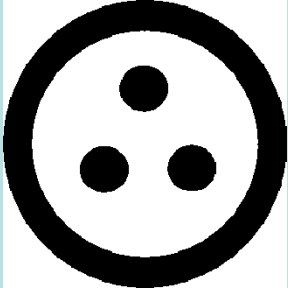
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March 17-18, 2018*

HOLARHIA OF CONCEPTUAL MODELS OF REALITY IN CIM

Type of conceptual model	Model Properties	Examples of the model
Zero-dimensional preverbal model 	The meaning can not be expressed verbally. He is over-rational. It is possible to only mark it, point to it. "Tao, which can be expressed in words - is not true Tao"	Tao (Absolute, God, Parabrahman)
One-dimensional conceptual model 	1) covers all possible manifestations, aspects of Reality, reflecting only the fact of the unity of the Reality and all its possible manifestations. 2) points out only to this one side of the Reality - to its integrity and unity, that all plural in its true nature is something of one. 3) is poor in the informational sense, since it does not contain information about the Universe in its plural aspects	Emptiness (Unity, Physical and Semantic Vacuum)

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

HOLARHIA OF CONCEPTUAL MODELS OF REALITY IN CIM

Type of conceptual model	Model Properties	Examples of the model
Binary conceptual model 	1) reflects the unity, integrity, unity of the polar aspects of Reality; 2) points to the dual aspect of Reality as the basis of its multiple aspect; 3) contains information on the fundamental patterns of interaction of the polar origin of Reality, in particular, their dialectic, equality.	Yin Yang, Purusha-Prakriti, all paired categories of dialectics (being-non-being, single-plural, matter-consciousness space-time, form-content, object-subject, manifested-non-manifested, actual-potential, etc.)
Ternary conceptual model 	1) reflect the fact of unity, integrity of all of their three components; 2) contain information about the plurality, dialectic, equality of the three components; 3) detail binary models, by separating the third component of the reality model, which something absorbs from itself two components of the binary model	Jing-Chi-Shen, Earth-Human-Sky, body-soul-spirit, consciousness-culture-matter, substrate-energy-information

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March 17-18, 2018*

SYNTHETIC MODEL OF REALITY IN CIM WITH FRACTAL SCALE

STRUCTURE OF THE CONCEPTUAL MODEL

Model of Reality - "all level-all sector-all aspects".

Levels of Reality: 1) Physical matter (corresponds to Jing); 2) Physical field (corresponding to the rough level of Chi or a thin level of Jing), which includes well-known fields and fundamental interactions of modern physics; 3) the level of potential Reality of quantum physics; 4) level of thin physical fields (morphogenic potential fields, torsion fields, etc.); the level of thin non-physical fields), the details of which are in the mystical cult traditions (corresponds to the thin level of Chi); 5) level of sensory-emotional (corresponds to the astral level of the Vedic tradition); 6) level mental (corresponds to the conceptual-rational level, level of thinking); 7) the level of intellectual intuition, wisdom; 8) level of non-duality.

Reality Sector: 1) the sector of the internal individual; 2) internal collective sector; 3) the sector of the external individual; 4) external collective sector.

Aspects of reality: 1) substrate; 2) energy; 3) information (structure)

PROPERTIES OF THE MODEL

- 1) absorbs knowledge of conceptual models of smaller dimension (scale);
- 2) synthesizes the Wilber «all level-all sector» model and the ternary model "substrate-energy-information";
- 3) Takes into account the results of research in the field of Integral Medicine and the Integral Approach, the neo-unity philosophy and subject ontologies.
- 3) makes it possible to detail the concepts of Reality, by fractal scaling.
- 4) is the basis of the generation of the nosology of the CIM

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

THE BASIC CONCEPTS OF THE THEORY OF CIM ARE DEVELOPED

1. Theory of Image and Image Thinking in CIM and Qigong. Image of diseases in CIM. Their scientific interpretation
2. The "Chi" nature: cultural, philosophical, psychological, physical and energy-information dimensions
3. The essence of "Shen". Theories of consciousness. Nature and mechanisms of interaction between consciousness and material substance. Options for solving the psychophysical problem

COMPONENTS OF THE CIM DIAGNOSTIC ONTOLOGY

Components of the diagnostic ontology of CIM	Description of components of diagnostic ontology of CIM
Nosological Ontology of CIM	Nosological CIM ontology reflects knowledge about the types (classes) of diseases that are taken in the diagnostic theory of CIM
Topological diagnostic ontology of CIM	Topological diagnostic ontology CIM reflects the data on the topological localization of diseases related to the physical body, the energy system (field system, Chi system) and information systems (psycho-mental-spiritual system, Shen system), in particular, contains information about body parts, organs , tissues of the physical body, information about bioactive points and energy channels of the human energy system, information about information, psycho-emotional, mental and spiritual topological aspects of a person.
Ontology of diagnostic methods of CIM	The ontology of diagnostic methods in the CIM reflects the knowledge about the methods (channels) of obtaining and the specifications of sensory diagnostic information in the CIM.
Ontology of the diagnostic metric of CIM	Describes the quantitative characteristics (indicators) of the diagnostic space of the CIM, which determine the degree of manifestation of a particular disease and can be given on a certain number (for example, 1 to 5) or non-numeric (eg, very weak, weak, medium, strong, very strong) scale.

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

LIST OF RESEARCH PAPERS UNDER THE RESEARCH PROGRAM

1. Lupenko S.A. On the way to the creation of the scientific direction of medicine «Yi Xiang Yi Xue», 2015.
2. Lupenko S.A. Elements of Western philosophical and general scientific foundations of Chinese medicine «Yi Xiang Yi Xue», 2016.
3. Lupenko S. A., Orobchuk O. R. Ontological simulation of Chinese Image medicine, 2016.
4. Lupenko S. A., Orobchuk O. R., Vakulenko D. V., Sverstyuk A. S., Gorkunenko A. B. Integrated Onto-based Information Analytical Environment of Scientific Research, Professional Healing and E-learning of Chinese Image Medicine, 2017.
5. S.Lupenko, A.Pavlyshyn, O.Orobchuk. Conceptual Fundamentals for Ontological Simulation of Chinese Image Medicine as a Promising Component of Integrative Medicine , 2017.
6. Gorkunenko AB, Lupenko S.A Onto-oriented expert system for Chinese Image medicine, 2017.
7. Lupenko S. A., Orobchuk O. R., Zahorodna N.V. Formation of the onto-oriented electronic educational environment as a direction the formation of integrated medicine using the example of CIM, 2017.
8. Lupenko S., Xu Mintan, Pavlyshyn A. Application for a patent "A way to optimize the information-analytical environment in Chinese figurative medicine", 2018.

The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018

INFORMATION RESOURCES OF THE PROGRAM

The official website of the public organization
"Association of Chinese Image medicine of Ukraine"
(<http://cima.org.ua/uk/naukovi-doslidzhennya/>)

The website of scientific research of Chinese Image
medicine at I. Horbachevsky Ternopil State Medical
University

<https://sites.google.com/tdmu.edu.ua/kom/>

<https://sites.google.com/tdmu.edu.ua/cim>

*The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018*

We invite you to cooperate in these areas:

- **conducting personal original research in the framework of the Program;**
- **joining existing research within the framework of the Program;**
- **financial and other material support for the implementation of the Program;**
- **informational and promotional support for the implementation of the Program.**

The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018

Thank you for attention



The First All-Ukrainian Forum of Chinese Image Medicine
March 17-18, 2018