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THE FUNDAMENTAL SCIENTIFIC RESEARCHES BRANCH

“THEORY OF CLINICAL MEDICINE” (“TCLINM”)

OF “SEC "SFA CMT" OF "RA(M)S" N. A. ACAD. BURDENKO N.N.” (PART 6)

The developed “The fundamental scientific researches branch
" Theory of clinical medicine " ” (“ T C L I N M ”)
treats to the fundamental scientific researches divisions
of “The scientific-educational centre "System and financial analysis based on
cognitive modeling technology" of "RA(M)S" named after acad. Burdenko N.N.”
 (“SEC "SFA CMT" of "RA(M)S" n. a. acad. Burdenko N.N.” – SEC) as the first SEC
in the structure of “SIO "Academy of cognitive natural sciences”” (“SIO "ACNS””)
as the add. component of the system of science and education of the modern country
for the creation, distribution and use of the main and derivative
scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)
[see the fundamental scientific researches branches and departments of SEC]:
1) it is executed by the principle of “administrative-economy submission”;
2) works in the several main directions, which allow to provide
the development of the fundamental main and derivative scientific results
(my second report on SRW from 2006-2008(9) y. was submitted
to “SPbSETU "LETI”” and “The Government of RF”
for the translation, carrying out of int. action and receiving of “The Nobel prize”);
3) includes the several various main divisions:
XXII. “The fundamental scientific researches department
"Theory of endocrinology (of the diseases of the internal organs
and the disorders of hormonal cycles)”” (“TEND (DIO and DHC)””) (*)
[*the fundamental scientific researches in the area
“ The o r e t i c a l e n d o c r i n o l o g y ”* –
studies the hormones and their impact on the biological construct
of the organism (of the person), the theoretical bases of endocrinology,
theory of the structure and functions of the glands of internal secretion (of the endocrine glands),
theory of the products of the glands of internal secretion (of the hormones),
theory of the formation and action of the hormones on the organism of animals and person,
theory of diseases caused by the violation of function
of the glands of internal secretion or hormones,
theory of disorders in the endocrine system, theory of endocrine cardiology,
theory of endocrine oncology, theory of endocrine ophthalmology,
theory of endocrine gastro-enterology, theory of endocrine nephrology,
theory of endocrine neurology, theory of endocrine gynecology
and the cognitive modeling technology in the theoretical endocrinology].

XXIII. "The fundamental scientific researches department "Theory of epidemiology (of the infectious diseases)"" ("TEPID (ID)") (*) [*the fundamental scientific researches in the area "Theoretical epidemiology"* – the general-medical scientific direction, studying the regularities of occurrence and spread of the diseases of various etiology with the purpose of development of the preventive actions (the premorbid prevention, primary prevention, secondary prevention and tertiary prevention), the theoretical bases of epidemiology, theory of the regularities of occurrence and spread of the diseases of various etiology, theory of the development of preventive actions (the premorbid prevention, the primary, secondary and tertiary prevention), theory of morbidity, theory of regularities of the epidemic process, theory of the population approach at the studying of the (non)infectious diseases, theory of determining of the medical and social-economic significance of the disease and its place in the structure of the pathology of the population, theory of studying of the regularities of spread of the disease over time (by the years and months), by the territory and among of the various groups of population (the age, sex and professional), theory of revealing of the causes and conditions, determining the observed character of spread of the disease, theory of developing of the recommendations for the optimizing of prevention, theory of developing of the prediction of spread of the studied disease, theory of the epidemiological methods (the observation, examination, the historical and geographical description, comparison, experiment, the statistical and logical analysis) and the cognitive modeling technology in the theoretical epidemiology].

XXIV. "The fundamental scientific researches department "Theory of surgery, cardio-vascular surgery, neuro-surgery, pediatric surgery, transplantology and artificial organs"" ("TSURGC-VSURGN-SURGPSEGT and AO") (*) [*the fundamental scientific researches in the area "Theoretical surgery"* – the area of the clinical medicine, studying the acute and chronic diseases, which are treated by means of the operative (surgical) method, consisting of the several consecutive stages: the preparing of the patient to the surgery, anesthesia (narcosis), the surgery intervention and restoration of the integrity of the tissues, disturbed during the operation, the theoretical bases of surgery, theory of diagnostic operations, theory of radical operations, theory of palliative operations, theory of emergency operations, theory of urgent operations, theory of scheduled operations, theory of reconstructive surgery, theory of minimally-invasive surgery, theory of abdominal surgery, theory of thoracic surgery, theory of surgical urology, theory of surgical andrology, theory of surgical gynecology, theory of neuro-surgery, theory of surgical angiology, theory of cardiac-surgery, theory of surgical endocrinology, theory of surgical traumatology, theory of surgical orthopedics, theory of plastic surgery, theory of surgical combustiology, theory of surgical transplantology, theory of surgical ophthalmology, theory of maxilla-facial surgery, theory of purulent surgery, theory of surgical oncology and the cognitive modeling technology in the theoretical surgery;

the fundamental scientific researches in the area “Theoretical cardio-vascular surgery (cardiac-surgery and cardio-thoracic surgery)” – the area of surgery and cardiology, eliminating the pathologies of the cardio-vascular system, the theoretical bases of cardio-vascular surgery, theory of the ways of treatment of the coronary disease of the heart, the infarction of myocardium and atherosclerosis, theory of coronary bypass-surgery, theory of transplantation of the heart, theory of surgeries on the valves of the heart, theory of the surgery of Bentall at the aneurysm of ascending aorta with the aortic insufficiency, theory of the surgery “maze” at the fibrillation of auricles and the cognitive modeling technology in the theoretical cardio-vascular surgery;

the fundamental scientific researches in the area “Theoretical neuro-surgery” – the section of surgery, engaging in the questions of operative treatment of the diseases of the nervous system, including the head brain, spinal cord and the peripheral nervous system, the theoretical bases of neuro-surgery, theory of biological construct of the head brain and spinal cord, theory of stereo-taxy, theory of trepanation and the cognitive modeling technology in the theoretical neuro-surgery;

the fundamental scientific researches in the area “Theoretical pediatric surgery” – the area of the clinical medicine, studying the acute and chronic diseases of children, which are threated at the help of the operative (surgical) method, the theoretical bases of pediatric surgery, theory of pediatric diagnostic operations, theory of pediatric radical operations, theory of pediatric palliative operations, theory of pediatric emergency operations, theory of pediatric urgent operations, theory of pediatric scheduled operations, theory of pediatric reconstructive surgery, theory of pediatric minimally-invasive surgery, theory of pediatric abdominal surgery, theory of pediatric thoracic surgery, theory of pediatric surgical urology, theory of pediatric surgical andrology, theory of pediatric surgical gynecology, theory of pediatric neuro-surgery, theory of pediatric surgical angiology, theory of pediatric cardiac-surgery, theory of pediatric surgical endocrinology, theory of pediatric surgical traumatology, theory of pediatric surgical orthopedics, theory of pediatric plastic surgery, theory of pediatric surgical combustiology, theory of pediatric surgical transplantology, theory of pediatric surgical ophthalmology, theory of pediatric maxilla-facial surgery, theory of pediatric purulent surgery, theory of pediatric surgical oncology and the cognitive modeling technology in the theoretical pediatric surgery;

the fundamental scientific researches in the area “Theoretical transplantology” – the section of the clinical medicine, studying the problems of transplantation of the organs (in particular, kidneys, liver and heart), and also the prospects of the creation of artificial organs, the theoretical bases of transplantology, theory of xeno-transplantation (of the transplantation of the organs and / or tissues from the animal of the another biological kind), theory of allo-transplantation (transplantation, at which the donor of transplant is the genetically and immunologically another human organism), theory of artificial organs, theory of growth of organs from the stem cells, theory of auto-transplantation (the recipient of transplant is his donor for himself) and the cognitive modeling technology in the theoretical transplantology;

the fundamental scientific researches in the area “Theoretical artificial organs” – the direction in the modern clinical medicine, which is engaged in the growing of organs of the biological construct of the organism, the theoretical bases of artificial organs, theory of promising bio-engineering technology, theory of three-dimensional cell cultures (3D cell culture), theory of organoids (organoids), theory of studying and modeling of organo-genesis, theory of modeling of tumors and various diseases, theory of the technology of testing and screening on the organoids of the various medicinal drugs and toxic substances, theory of experiments on the replacement of organs or the therapy of damaged organs by the transplants and the cognitive modeling technology in the theoretical artificial organs].

The fundamental scientific researches branches and departments of SEC allow to develop the main and derivative scientific results of CMT.