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THE APPLIED SCIENTIFIC RESEARCHES DIRECTION

“APPLICATIONS OF CLINICAL MEDICINE” (“APCLINM”)

OF “SEC “SFA CMT” OF “RA(M)S” N. A. ACAD. BURDENKO N.N.” (PART 1)

The developed “The applied scientific researches direction “Applications of clinical medicine”” (“APCLINM”) treats to the applied 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 applied scientific researches directions 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 applied 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:
I. “The applied scientific researches department “Applications of obstetrics and gynecology (of the physiological and pathological processes in the organism of woman after the conception, pregnancy and childbirth)”” (“APOB and GYN (PH and PPR in ORGWACPR and CH)””) (*)
[*the applied scientific researches in area “Applications of obstetrics”* – the clinical discipline, which studies the physiological and pathological processes, occurring in the organism of women in the connection with the conception and pregnancy, in childbirth and postpartum, and also develops the methods of childbirth-delivery, the prevention and treatment of complications of pregnancy and childbirth, the diseases of fetal and newborn, usage of the theoretical bases of obstetrics, usage of theory of physiological and pathological processes in the organism of a woman in the connection with the conception and pregnancy, usage of theory of the methods of childbirth-delivery, prevention and treatment of complications of pregnancy and childbirth, usage of theory of disease of fetal and newborn and usage of the cognitive modeling technology in the applications of obstetrics;
the applied scientific researches in area “Applications of gynecology” – the branch of the clinical medicine, studying the diseases of the female reproductive system, usage of the theoretical bases of gynecology and usage of the cognitive modeling technology in the applications of gynecology].

II. "The applied scientific researches department "Applications of anesthesiology and resuscitation (of the methods of protecting of the organism against the surgery trauma)"" ("APAN and RES (MPRORG ag SURGTR)") (*) [*the applied scientific researches in area "Applications of anesthesiology"* – the section of the clinical medicine, carrying out the studying of means and methods of the providing of anesthesia, that is the loss of sensitivity, including the pain at the various acute pain syndromes, shock conditions, traumas and surgical interventions, usage of the theoretical bases of anesthesiology, usage of theory of means and methods of the providing of anesthesia, usage of theory of acute pain syndromes, usage of theory of shock conditions, usage of theory of traumas, usage of theory of surgical interventions and usage of the cognitive modeling technology in the applications of anesthesiology; *the applied scientific researches in area "Applications of resuscitation (intensive therapy)"* – the clinical discipline, the scientific findings of whose are used at the resuscitation in the clinic, and also the science, studying the regularities of death and the revitalization of organism with the purpose of developing of the most effective methods of prevention and restoration of the fading or just extinct life functions of the organism, usage of the theoretical bases of resuscitation, usage of theory of resuscitation, usage of theory of the regularities of death and the revitalization of organism, usage of theory of pathological-functional processes during the dying, usage of theory of terminal conditions, usage of theory of the restoration of life functions and usage of the cognitive modeling technology in the applications of resuscitation].

III. "The applied scientific researches department "Applications of gastro-enterology (of the diseases of gastro-intestinal tract)"" ("APGAST-ENT (DG-IT)") (*) [*the applied scientific researches in area "Applications of gastro-enterology"* – the section of the clinical medicine, studying the gastro-intestinal tract of the person, its structure and functioning, its diseases and methods of their treatment, usage of the theoretical bases of gastro-enterology, usage of theory of gastro-intestinal tract of the person, usage of theory of the structure of gastro-intestinal tract of the person, usage of theory of the functioning of gastro-intestinal tract of the person, usage of theory of the structure, functioning and diseases of the liver, usage of theory of the structure, functioning and diseases of the gall bladder, usage of theory of the structure, functioning and diseases of the bile tract, usage of theory of the diseases of gastro-intestinal tract, usage of theory of the methods of treating of the gastro-intestinal tract and usage of the cognitive modeling technology in the applications of gastro-enterology].

IV. "The applied scientific researches department "Applications of hematology and hema-transfusion (of the transfusion of blood)"" ("APHEMAT and HEMA-TR (TB)") (*) [*the applied scientific researches in area "Applications of hematology"* – the section of the clinical medicine, studying the blood, the organs of blood-formation and the diseases of blood, usage of the theoretical bases of hematology, usage of theory of the etiology of diseases of the blood-circulatory system, usage of theory of the diagnosis of diseases of the blood-circulatory system, usage of theory of the treatment of diseases of the blood-circulatory system, usage of theory of the prediction and prevention of diseases of the blood-circulatory system, usage of theory of the production of blood and its components, usage of theory of the cells of blood, usage of theory of hemoglobin, usage of theory of the proteins of blood, usage of theory of the mechanisms of coagulation (the clotting of blood), usage of theory of bio-medicine of the blood, usage of theory of oncology of the blood and usage of the cognitive modeling technology in the applications of hematology; *the applied scientific researches in area "Applications of hema-transfusion"* – the section of the clinical medicine, studying the transfusion of blood, the particular case of transfusion, at which the biological liquid poured from the donor to the recipient is the blood or its components, usage of the theoretical bases of hema-transfusion, usage of theory of the transfusion of blood, usage of theory of transfusion, usage of the theoretical bases of the technology of the transfusion of blood, usage of theory of the compatibility of blood and usage of the cognitive modeling technology in the applications of hema-transfusion].

V. "The applied scientific researches department "Applications of gerontology and geriatrics (of the diseases of aging and rejuvenation)"" ("APGERONT and GERIATR (DAG and REJ)") (*) [*the applied scientific researches in area "Applications of gerontology and geriatrics"* – studies the processes of aging of the living organisms, including the aging of the biological construct of the organism of person, usage of the theoretical bases of gerontology, usage of theory of the biological causes of the aging of person, usage of theory of the social causes of the aging of person, usage of theory of the psychological causes of the aging of person, usage of theory of rejuvenation, usage of theory of geriatrics and the causes of diseases of the process of aging, usage of theory of gero-hygiene, usage of theory of geronto-psychology and usage of the cognitive modeling technology in the applications of gerontology and geriatrics].

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