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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 3)

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:  
IX. “The applied scientific researches department  
“Applications of radiation diagnostics and radiation therapy”” (“APRDIANG and R THER”)(\*  
[ *the applied scientific researches in area  
“Applications of radiation diagnostics”* –  
the direction of the modern clinical medicine, which is engaged  
in the ultra-sound researches, computed tomography,  
the Roentgen research without contrasting,  
the Roentgen research with contrast,  
the magnetic-resonance tomography and magnetic-nuclear tomography,  
usage of the theoretical bases of radiation diagnostics, usage of theory of research of the liver,  
usage of theory of research of the pancreatic cell and bile ducts,  
usage of theory of diagnostics of the condition of the esophagus,  
usage of theory of diagnostics of the hernias of the esophageal orifice of the diaphragm, tumors,  
diverticulas, strictures, the varicose expansion of veins and foreign bodies,  
usage of theory of research of the gastric and duodenum,  
usage of theory of diagnostics of ulcers, tumors, strictures and obturations,  
usage of theory of control of the results of operative interventions,  
usage of theory of diagnostics of the tumors of intestine,  
usage of theory of diagnostics of the inflammatory diseases,  
usage of theory of diagnostics of the causes of obstruction of gut, strictures and obstruction  
and usage of the cognitive modeling technology in the applications of radiation diagnostics;

*the applied scientific researches in area “ Applications of radiation therapy (radio-therapy, radiation therapy or radiation oncology)”* – the modern direction in the clinical medicine, which is engaged in the treatment of malignant tumors by the ionizing radiation (the Roentgen, gamma-radiation, beta-radiation, neutron radiation or the beams of elementary particles from the medical accelerator of charged particles), usage of the theoretical bases of radiation therapy, usage of theory of radio-therapy, usage of theory of radiation therapy, usage of theory of radiation oncology, usage of theory of ionizing radiation in medicine, usage of theory of Roentgen radiation in medicine, usage of theory of gamma-radiation in medicine, usage of theory of beta-radiation in medicine, usage of theory of neutron-radiation in medicine, usage of theory of the beams of charged particle in medicine, usage of theory of the medical accelerator of charged particles, usage of theory of medical equipment for the radiation therapy and usage of the cognitive modeling technology in the applications of radiation therapy].

X. “The applied scientific researches department “Applications of neurology (of the diseases of the nervous system)” (“APNEUR (DNERVS)”)(\*

*[ the applied scientific researches in area “ Applications of neurology ”* – the group of medical-biological disciplines, which study the structure and functions of the nervous system, the regularities of development and possible pathologies, the causes of diseases, the methods of their prevention and treatment, usage of the theoretical bases of neurology, usage of theory of the occurrence of diseases of the central nervous system, usage of theory of the occurrence of diseases of the peripheral nervous system, usage of theory of the mechanisms of development, symptomatology and the possible ways of diagnostics, treatment and prevention of the diseases of the nervous system, usage of theory of clinical neurology and neuropathology and usage of the cognitive modeling technology in the applications of neurology].

XI. "The applied scientific researches department "Applications of nephrology and urology (of the diseases of the (over)renal and sexual systems)"" ("APNEPHR and UR (D(O)REN and SEXS)") (\*) [*the applied scientific researches in area " Applications of nephrology "* – the area of the clinical medicine, studying the functions and diseases of kidneys, usage of the theoretical bases of nephrology, usage of theory of differential diagnostics, usage of theory of nephro-surgery, usage of theory of nephro-urology and usage of the cognitive modeling technology in the applications of nephrology; *the applied scientific researches in area " Applications of urology "* – the area of the clinical medicine, studying the etiology, pathogenesis, the diagnostics of the diseases of organs of the urinary system, the male sexual system, the diseases of adrenal glands and other pathological processes in the retroperitoneal space and developing the methods of their treatment and prevention, usage of the theoretical bases of urology, usage of theory of the urinary system, usage of theory of the male sexual system, usage of theory of the disease of adrenal glands, usage of theory of pathological processes in the retroperitoneal space, usage of theory of the methods of (surgical) treatment and prevention of diseases and usage of the cognitive modeling technology in the applications of urology].

XII. "The applied scientific researches department "Applications of oncology (of the diseases of the new formations and tumors of the biological construct of organism)"" ("APONC (DNFORM and TUMBCORG)") (\*) [*the applied scientific researches in area " Applications of oncology "* – the section of the modern clinical medicine, studying the benign and malignant tumors, the mechanisms and regularities of their occurrence and development, the methods of their prevention, diagnostics and treatment, usage of the theoretical bases of oncology, usage of theory of oncological diseases, usage of theory of system oncological diseases, usage of theory of the forms and variants of treatment of cancer, usage of theory of the occurrence of cancer cells and micro-tumors, usage of theory of functioning of the systems of anti-tumor immunity and usage of the cognitive modeling technology in the applications of oncology].

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