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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 5)

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: XVIII. “The applied scientific researches department “Applications of rheumatology (of the inflammatory and degenerative-dystrophic diseases of the joints, spine and the system diseases of connective tissue)”” (“APRHEUM (I and D-DDJS and SDCT)”) (\*) [*the applied scientific researches in area “Applications of rheumatology”* – the specialization of the internal clinical medicine, which is engaged in the diagnostics and treatment of the rheumatic diseases, usage of the theoretical bases of rheumatology, usage of theory of the inflammatory and degenerative-dystrophic diseases of the joints and the system diseases of the connective tissue, usage of theory of collagenosises, usage of theory of the differential diagnostics of the diseases of rheumatology, usage of theory of traumatology-orthopaedics and the purulent-septic surgery, usage of theory of osteomyelitis, usage of theory of myositis, usage of theory of gonorrhea arthritis, usage of theory of aseptic arthritis, usage of theory of endocrinology at the syndrome of Charcot, mellitus diabetes and hyper-calcemic crisis, usage of theory of nephrology at the nephrogenic gout, nephrogenic osteomalacia and nephrogenic osteoparosis, usage of theory of hematology, usage of theory of cross differential diagnostics, usage of theory of diseases of the blood at the acute lymphoblastic leukemia and the juvenile rheumatoid arthritis, usage of theory of cardiology at the rheumatic endocarditis, usage of theory of vascular and phlebological surgery, usage of theory of the sports medicine at the damage of muscles and the musculo-skeletal apparatus at the athletes and usage of the cognitive modeling technology in the applications of rheumatology].

XIX. "The applied scientific researches department "Applications of dentistry (of the diseases of the cavity of mouth, jaws and their border areas of the face and neck)"" ("APDENT (DCMJ and BAF and N)") (\*) [*the applied scientific researches in area "Applications of dentistry"* – the section of the clinical medicine, which is engaged in the studying of the teeth, their structure and functioning, their diseases, the methods of their prevention and treatment, and also the diseases of oral cavity, jaws and border areas of the face and neck, usage of the theoretical bases of dentistry, usage of theory of non-carious lesions of teeth, usage of theory of the hypoplasia of enamel, usage of theory of the fluorosis of enamel, usage of theory of the wedge-shaped defect of tooth, usage of theory of the pathological erasure of tooth, usage of theory of the necrosis of the hard tissues of tooth, usage of theory of the hyperesthesia of tooth, usage of theory of the erosion of enamel of the tooth, usage of theory of the acute and chronic injuries of tooth, usage of theory of caries and its complications, usage of theory of pulpitis and its complications, usage of theory of periodontitis and its complications, usage of theory of periostitis and its complications, usage of theory of the diseases of the oral mucosa (stomatitises), usage of theory of the traumatic stomatitises, usage of theory of the symptomatic stomatitises, usage of theory of the infectious stomatitises, usage of theory of the specific stomatitises, usage of theory of the catharal stomatitis, usage of theory of the ulcerative stomatitis, usage of theory of the acute and chronic aphthous stomatitis, usage of theory of heilitis, usage of theory of glossitis and usage of the cognitive modeling technology in the applications of dentistry].

XX. "The applied scientific researches department "Applications of traumatology, orthopedics and prosthetics (of the diseases of skeletal-muscular system)"" ("APTRORTH and PROSTH (DS-MS)") (\*) [*the applied scientific researches in area "Applications of traumatology"* – the section of the clinical medicine, studying the impact on the organism of person of the various traumatic effects, the consequences of traumas and the methods of their treatment, usage of the theoretical bases of traumatology, usage of theory of differential diagnostics in the area of rheumatology and traumatology, usage of theory of traumatic orthopedics and neuro-surgery, usage of theory of the traumatic and post-traumatic conditions of the nervous system, usage of theory of septic surgery at the tetanus, sepsis, osteomyelitis and phlegmons, usage of theory of purulent and burn surgery at the endogenous and exogenous burns, usage of theory of sports medicine, usage of theory of vascular surgery, usage of theory of phlebology, usage of theory of infectology at the tuberculosis and syphilis of the musculo-skeletal system, usage of theory of toxicology at the toxic arthropathies, usage of theory of hematology at the hema-arthrosises, auto-fractures and pathological fractures, usage of theory of traumatic oncology, usage of theory of traumatic bio-physics, usage of theory of traumatic bio-cybernetics, usage of theory of traumatic military medicine and usage of the cognitive modeling technology in the applications of traumatology;

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"The Nobel committee" (The Kingdom of Norway and The Kingdom of Sweden)  
(it was submitted to "SIO "ACNS"" on the int. conf. "IQR and D in MO: CA" on the 01<sup>st</sup>-31<sup>st</sup> of October 2020 y.)

*the applied scientific researches in area “Applications of orthopedics”* – the section of the clinical medicine and the section of surgery, studying the prevention, diagnostics and treatment of deformations and the disorders of functions of the musculo-skeletal system, which are the result of congenital defects, malformations, the consequences of traumas or diseases, usage of the theoretical bases of orthopedics, usage of theory of injuries of the musculo-skeletal apparatus (bones, joints, muscles, ligaments and tendons), usage of theory of bio-mechanics of the musculo-skeletal apparatus, usage of theory of surgery of the spinal column, usage of theory of arthroscopic surgery, usage of theory of endoprosthesis of the joints, usage of theory of bone pathologies and usage of the cognitive modeling technology in the applications orthopedics;

*the applied scientific researches in area “Applications of prosthetics”* – the complex medical-technical discipline, which is engaged in the manufacture and application of prostheses and orthoses (corsets, bands, apparatuses, special shoes and steels) for the restore of the lost forms and functions of the musculo-skeletal system, usage of the theoretical bases of prosthetics, usage of theory of replacement of the lost or irreversibly damaged parts of body by the artificial substitutes, usage of theory of the process of social-labor rehabilitation of the person, usage of theory of diseases of the musculo-skeletal apparatus and usage of the cognitive modeling technology in the applications of prosthetics].

XXI. “The applied scientific researches department “Applications of therapy (of the relieving or eliminating of symptoms and manifestations of the disease or trauma)”” (“APThER (REL or ELIMS and MD or TR)”” (\*)

*[the applied scientific researches in area “Applications of therapy”* – the section of the clinical medicine, studying the internal diseases, their prevention and treatment, usage of the theoretical bases of therapy, usage of theory of therapeutic approaches, usage of theory of etiotropic therapy (anti-bacterial therapy at the infectious diseases), usage of theory of pathogenetic therapy (the replacement therapy by the insulin at the mellitus diabetes in the relation with the insufficient production of this hormone by the pancreatic gland and the inability to restore this function at the modern level of development of medicine), usage of theory of symptomatic (palliative) therapy (the application of analgesics at the pain, the anti-pyretic drugs at “the high temperature”), usage of theory of symptomatic therapy at the impossibility of radical cure (the terminal stage of oncological disease), usage of theory of the medical-social actions (the palliative help), usage of theory of conservative treatment, usage of theory of conservative (non-surgical) treatment by the chemical, physical and biological methods (pharmaco-therapy, chemo-therapy, phyto-therapy, immune-therapy and other methods), usage of theory of the physical conservative methods of treatment (physio-therapy, massage, physio-therapy exercises and hydro-therapy), usage of theory of the physical methods of treatment by means of the electro-magnetic and sound radiations (radio-therapy, UHF-therapy, magneto-therapy, medicinal drug electro-phoresis and lasero-therapy), usage of theory of surgical treatment (surgical therapy) and usage of the cognitive modeling technology in the applications of therapy].

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