



David Tvildiani Medical University

**University's Development Strategy, as an
Institution of Research Activities**

This document is based on the University Mission and the mission's implementation directing principles, objectives, strategic development plan of the university (the strategies formulated in it, 7 years and 3 year targets and action plan), and the concept of development developed by DTMU on the basis of science-based learning.

DTMU scientific research interest include: The basis of structural and functional norms and pathology, determining factors for disease management strategy and professionalization of higher medical education.

More specifically, according to the above mentioned and planned commitments will continue to be developed and promoted by the current and planned research themes.

Current Research themes in biomedical and health are sciences of Davit Tvildiani Medical University

	Project title
1	Early prediction of heart cardiac dyspnea development risk using electrocardiography, echocardiography and biochemical markers.
2	Referential Sizes of Cardiovascular Risk Markers and Pathochemical methods of Risk Realization in Georgian Population
3	Study of physiological-biochemical indicators of nutritional status in elderly persons of Kartli region population.
4	Criteria for complex assessment of biological characteristics of the basal type cancer of the breast.
5	Heart Chronic Cardiac Dyspnea Development and Progressing Mediator Galactin-3 Regulation Association with Protein-Energy Malnutrition
6	Malnutrition - inflammation complex syndrome in case of heart chronic cardiac dyspnea.
7	Risk assessment of post-ablative recurrence in atrial fibrillation by some clinical-laboratory methods
8	The meaning of baseline levels of the plasminogen activator inhibitor type I (PAI-1) in the blood of patients in specification of ablation indicators during atrial fibrillation
9	The role of 12-direction electrocardiogram in determining the location of open-covered additional passages and focal atrial tachycardia
10	Idiopathic focal and idiopathic generalized epilepsy and the associated anti-epileptic treatment on the sleep characteristics of infected children
11	Study of body mass composition and visceral fat indicators in primary groups of cardiovascular disease in different groups of Georgian population
12	Integration of professionalism in pre-diploma medical education
13	Pathologic-Anatomic Correlations of Phenotype Characteristics of Thyroid Neoplasia of Thyroid Gland in FNA-Cytology
14	Study of existing and alternative medicine practices for the development of a scientific basis for public health policy

15	Criteria for teaching / development / evaluation of clinical judgment skills in pre-diploma medical education
16	The irrational use of laboratory tests in primary Health Care institutions of Georgia, Factors influencing tests for individual patient and educational strategies to improve the quality of health care.
17	Study of plasma myeloperoxidase level of different heaviness heart chronic insufficiency in patients: Connection between echo-sound indicators of heart remodeling and inflammation / oxidative stress biochemical parameters.
18	Fetal programming and its impact on the development of respiratory diseases in children
19	west syndrome's etiological, clinical and eclectic features, treatment tactics and remote detection predictors
20	fixation of diaphysis of femur fractures and Titanium elastic stable intramedullary stalks in children's age
21.	Study of epidemiology of Clostridium difficile diagnoses in hospitalized pediatric patients using polymerase chain reaction method
22	Clinical-epidemiological peculiarities of cervical intraepithelial neoplasia and stratification of predictive risk (Adjara region)
23	Influence of the introduction of new medicines for tuberculosis in Georgia on patients' clinical remedies and health care system
24	Quick diagnostic molecular test, Xpert TB / RIF, clinical value assessment (expectorated) phlegm smear-negative, multi-resistant to tuberculosis patients in Georgia
25	The hydatoid target pressure factor in cataract phaco-emulsification intraoperative complication
26	Research of the association of psoriasis and cardiovascular diseases in patients with different heaviness and in patients with psoriasis in the treatment regime
27	Neurological development of tuberose sclerosis in children under the age of 18
28	Vascular endothelial growth factor assessment type 2 diabetes, its micro-vascular complications and in the progress of sleep apnea
29	Etiological, clinical and neurovizualization of pediatric arterial ischemia stroke Peculiarities, solution and predictors of distant solutions
30	Management of emergency situations with a bone of approach: indications, impact solutions and complications
31	Epidemiology and epidemiological characteristics of exfoliative syndrome in Georgia
32	Diseases etiology, clinical process and treatment, prevention, screening and epidemiology factors
33	Fetal programming. Influence of nutrient status in physical development parameters and frequency of morbidity in children

Future topics to be implemented within the Doctoral Study Program

№	Doctoral research application
1	Fetal programming: Influence of fetal stress in the development of attention and development of the syndrome of attention deficit and hyperactivity in children's age.
2	According to the clinical-morphological characteristics of androgenic alopecia division into phases, differential diagnosis and treatment
3	Management and prognosis of epilepsy associated with cerebral Palsy (Static encephalopathy)

In addition, the university will also take into account the priority:

- ✓ applications submitted by postdoctoral students (according to their study fields) and will facilitate participation in Sh. Rustaveli National Science Foundation's grant competition: Co-financing, other academic and financial support
- ✓ For employees (who receive external grant funding) co-funding, other academic and financial support
- ✓ Together with the University staff and DTMU scientific environment member institutions, as well as the work group (s) created in collaboration with foreign co-laboratory assistant and financing / co-financing projects to be submitted to the external grant competition supported by the Academic Board
- ✓ Draft Proposals of the Students and Young Researchers (including current research and / or new project proposals) through academic support (assistance in putting of the proposals into the project forms) and financing (in order to increase the incentives to get involved in the researches of students and young staff); Note: The DTMU budget gives this opportunity: There is a possibility to use about 1/3 of the revenue for scientific purposes for this purpose, if it is "good" (scientific valuable project) and / or "project proposal" approved by the Academic Board or Expert Group
- ✓ Interdisciplinary researches: Existing (Magneto-resistant) and new proposed (interdisciplinary) examinations, the impact of environmental factors on the vital physiological processes for human life processes.