

Adopted by the Academic Council,
Chair of the Academic Council,
Rector, Professor (A Bakuridze)

Reviewed by the Council for the Faculty
Minutes № _____
Chair of the Faculty Council Meeting,
Dean, Professor (M. Koridze)

**Batumi Shota Rustaveli State University
Faculty of Natural Sciences and Health Care**

**One-Cycle Higher Educational Programme in Medicine
Medical Doctor
QUALIFICATION/ACADEMIC DEGREE --
Medical Doctor**

Overall Programme *360 ECTS*

**Higher Educational Programme Leaders -
Doctor of Medicine, Professor Vakhtang Beridze
Doctor of Medicine, Professor Sophio Beridze**

**Implementation Period: 2014-2020
Batumi 2013**

**Title of the HEP: Medical Doctor
HEP Cycle: One-cycle Higher Medical Educational Programme
Awarded Qualification: Medical Doctor
Total Credits 360 ECTS
Language of Study: English**

Prerequisites of the Admission to the Programme

Admission requirements:

Medical Degree HEP admission requirement: the applicants must have successfully passed the Unified National Examination under the High Education Law of Georgia and the Batumi Shota Rustaveli State University's Regulation on Implementing the First and Second Cycles of the HEP.

International students are eligible to be admitted to the programme following the Regulation on the Admission of International Students to the HEP.

English language (minimum B2 level) is an obligatory requirement, what should be tested either at the entry examination or verified with the relevant international certificate.

Goals and Relevance of the Programme

The Higher Education Program has as its primary goal the preparation of medical professionals who will focus on academic advancements, and who will attain thorough theoretical knowledge and clinical skills, capable of analyzing and managing the problems.

Medical education and health care quality improvement is a challenge of the State significance. The largest part of the sundry of problems in the health care system are related to the shortcomings in the basic medical education and negligence of the necessity of its permanent upgrading. Introducing of the international experience and integration into the global system of the HEP strives to reach the best outcomes of the MD in the HEP. Our students will learn the value of the lifelong learning, the importance of team-work in education and of team-work, rational approach and timely decision-making and ethical principles and law-abidance.

This strategic approach, together with the intellectual and material-technical resources of the University, as well as sharing the advanced experience of the neighbouring Republic of Turkey in medicine, especially in their effective medical education system, will guarantee **to train an internationally competitive future medical worker, who will be able to solve practical problems, but also to contribute to the further improvement and development of the health care system.**

Programme Description

The programme has been developed in accordance to the parameters of various components and branches of medicine education (Decree by the Director of the Educational Quality Development National Centre N225; 01.06.2011). It is focused on elaboration of the education skills on the second cycle of the higher education with concentration on the following disciplines: Natural Sciences, Behavioural and Social, Clinical Sciences, Medicines and knowledge of their prescription principles, System of Social Health Care and role of a doctor as part of the system, ethical and legal principles. 10 credits are allotted to the scientific –research component, 30 credits are allotted to the practical courses for clinical skills development. The programme is partially integrated and contains trans disciplinary modules as well as separate courses; It is oriented on mastering clinical competences, basic skills, efficient management of the medical resources. Students get basic knowledge since the first semester, gets involved into the research activities. This rules out fragmentation of knowledge and the future doctor can work out independent clinical skills. Programme duration is 6 years, 360 credits, the quality awarded is Medical Doctor, MD. The Programme duration and the

ECTS are determined by the Georgian Law on Higher Education (article 47¹) Education and with the Instruction N3 by the Minister of Education and Science in 2007 5 January, on Credit Counting Rules and Regulations (with the annual workload of students not exceeding 75 credits).

The language of teaching is English, which makes excellent preconditions for admission of the international students to the programme. However, this also develops language skills and makes use of the most advanced study resources, which is beneficial for the students and lecturers. The programme priorities are: sharing of the advanced international experience in education in correlation with the international standards, innovations and progress in teaching of clinical medicine.

Areas of Employment

The alumni may choose and are entitled to continue higher education at the next cycles, which are Doctoral Studies and/or Residency, and after having passed the Unified State Certification Exams be authorized for the independent doctoral career path. Also, the alumni can work as:

- Junior Doctors, in any organization related to the public health care.

Other options offer:

- implementation of the research and pedagogical activities in the theoretical field of medicine, or health care system, however this opportunity is limited to that and does not authorize the alumni for independent doctoral practice (at scientific-research institutions, hospitals, etc).

- Employment opportunities include national and international pharmaceutical companies, forensic expertise centres.

Learning Outcomes

The Higher Education Programme Medical Doctor meets the State Health Care requirements and on the other hand is based on the international standards of the medical education (TUNING/MEDINE), which outlines the following competences to be obtained by the alumni:

General (Transferable) Competences:

1. **Knowledge and understanding** - has deep and consistent knowledge of the study area, which enables to elaborate /develop new, original ideas. Understands the approaches for solving problems.
2. **Application of knowledge** – can act efficiently in a new and unpredicted, multidisciplinary environment; can apply new, original approaches to address the package problems. Can apply the modern methods and approaches in the implementation of the research.
3. **Analysis and Synthesis** - can critically assess complex and controversial data, independently analyze and render the conclusions based on the analysis, can apply in practice the deductions, has a critical approach to new information, can integrate various data and sum them up to come to package solution, come up with arguments and counter arguments while analyzing the obtained results.
4. **Ability of Communication** - can manage the information, can obtain information from various sources and verify them, can process large volumes of information and assess the information critically. Can support professional activity by the knowledge based experience. is able of independent decision making, can determine package problems, and their solutions, analysis of the expected results and come up with final decision. Is aware of additional resources and can effectively use them.

5. **Life-long learning** - can fully use study resources in consequence, can manage one's own learning process. Understands the importance of life-long learning. **Is an independent learner. Understands and specifics of the learning process. Is able to develop a successful strategic plan for learning.**
6. **Values** - Can assess one's own and other's attitude towards values, and can contribute to the establishment of new values.
7. **Problem solution-decision making** - Is able to clearly identify and formulate the problems, analyze the expected / potential outcomes and make final decision. Knows additional resources within the area of specialization and can effectively apply them in case of necessity.
8. **Team work skills** – can work in a team, as a regular member and as a leader. Can distinctly formulate the tasks. Can reach agreement with the team members, coordinate their activities, adequately assess abilities of the team members, manage situations during conflicts and force majeure.
9. **Ability of adaptation in a new environment** -is able to easily adapt in a new environment, has skills of practical team work, has ethics of professional subordination /adaptation, can master new technologies.
10. **Ability of independent working** - Is able to work independently, has good time management and priority setting skills, can meet tight deadlines and has a good sense of responsibility. Can develop an accurately plan resources related to one's activities. Can bear responsibility for the performed work and can assess and criticize it.

Subject Specific Competences

- Knowledge and understanding
- Knowledge of Basic Natural Sciences
- Knowledge of Behavioural and Social Sciences
- Knowledge of Clinical Sciences
- Knowledge of Medicines and principles of their prescription
- Knowledge of public health care system and awareness of the doctor's role in the system -
- Knowledge of ethical and legal principles

✓ Practical skills: application of the knowledge

The alumni should be able to:

1. Consult the patients
 - Collect anamnesis
 - Conduct physical examination
 - Have clinical awareness and decision-making ability
 - Give explanations and consult substantially
 - Encourage the patients and protect their rights
 - Assess psychological status of the patients
2. Assess the clinical case, set the examination plan, conduct differential diagnostics, discuss the disease management plan
 - Clinical report analysis and assessment
 - Administration of the relevant diagnostics and interpretation of the outcomes
 - Conduct differential diagnostics
 - Discuss disease management plan with the patients and their care-takers
 - Take care of the terminally diseased patients and their families

- Management of the chronic diseases
- 3. Provision of the First Aid and reanimation procedures
 - Detection / identification and assessment of the first aid need
 - Treatment of the emergency medical cases
 - Provision of the basic first aid
 - Provision of the basic preventive and cardio-pulmonal measures in accordance to the guidelines
 - Provision of the inclusive/broad preventive measures in accordance to the guidelines
 - Treatment of traumas in accordance to the guidelines
- 4. Prescription of the medications
 - Prescription of medications accurately and in a legible manner
 - Administration of the relevant medications and other measures in relation with the clinical context.
 - Discussion of the relevance of medication and other treatments and assessment of the potential risks and benefits for the patients.
 - Treatment of pain and distress
 - Consideration of the medications and their compatibility in the administration of treatment.
- 5. Practical procedures
 - Taking blood pressure, veni-puncture, lumbar puncture
 - Intravenous cannulation
 - Intravenous drug administration application of the infusion facility
 - Subcutaneous and intramuscular injections
 - Oxygen provision
 - Transportation and treatment of the patients
 - Stitching and blood transfusion
 - Urinary catheterization
 - Urine analysis
 - Taking electrocardiogram and interpretation
 - Conduct of the Pulmonary system function tests

✓ **Deductive Thinking Skills**

- Assessment of the social and psychological factors of the patients related with the disease
- Assessment of the disease manifestation and factors of psychological effect on the patients
- Assessment of the disease manifestation and social factors effecting the patients
- Assessment of the disease-related stress
- Assessment of the Drug and alcohol addiction
 - Evidence-based practice
 - Explore the development of a research idea from hypothesis through to the drawing of conclusions
 - Critical appraisal of the literature to a high Standard, drawing of conclusions and application in practice.

✓ **Communication Ability**

- Effectively use information and information technologies in the medical context
- Keeping accurate and neat records of the clinical histories
- Application of the advanced information technologies for the practical activities
- Clinically-related research of informational resources
- Information management, maintenance and application
- Personal portfolio development
- Communication with the patients

- Communication with the colleagues
- Communication of the worst outcomes
- Communication with the relatives of the patients
- Communication with the disabled individuals
- Communication for receiving approval over the pre-informed issues
- Written communication (including medical records)
- Communication during the conflicts
- Assistant aided communication
- Communication with the law-enforcement bodies and mass media
- Effective communication with any individual regardless cultural, religious beliefs and social or ethnic origins and background.

✓

Learning Ability

Is able to use full spectrum of the study-information resources, manage time; set priorities, work to deadlines; use initiative when seeking information use information technology and appropriate related software to a high standard apply skills for identifying, appraising, synthesising and applying evidence, in professional life apply research related skills to professional life; Is aware of the benefits of life-long learning and permanent development; Can impartially assess one's knowledge and skills; Is able to apply in medical practice scientific principles, approaches to and methodology of Biomedicine; Knows methodology of conducting scientific research; Can design detailed research plan and process the outcomes.

✓

Values

Is able to:

Apply ethical and legal principles in the medical practice. Can keep confidentiality of the patients. Can protect rights of the patients. Minimizes risks posed to the patients. Carries out anti-infections / preventive measures. Is aware of one's health problems and assess one's health condition. Can lead communication in the professional context. Is effective communicator, can find resolutions to the conflicts with any individual regardless cultural, religious beliefs and social or ethnic origins and background. Guides oneself with the principles of social justice and values democratic principles in general. manage situations during conflicts and force majeure. Is competent to carry out activities which are beneficial for the health care improvement. Can get involved in the public health care system. Can take part in the public health care actions, as an individual or part of the community.

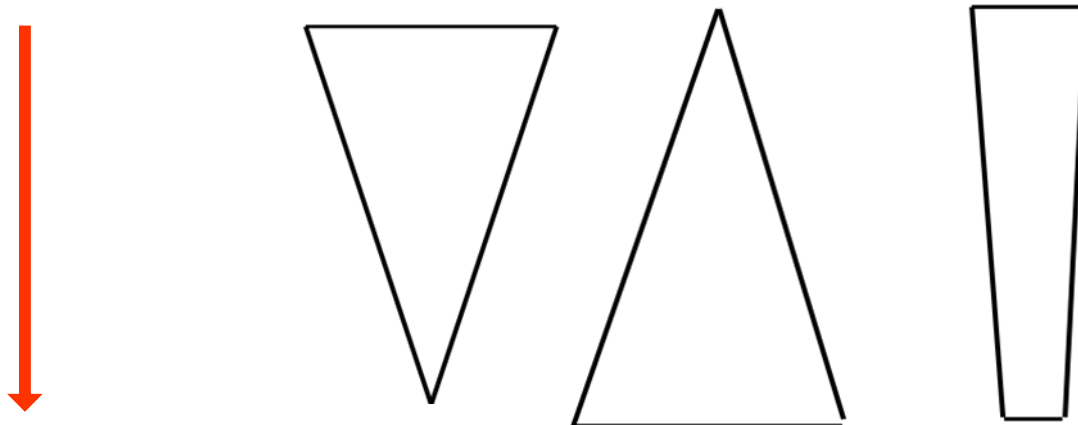
Learning, Teaching & Assessment

Integrated approach to the teaching/learning process comprises theory and practice integration. Basic level practice/workshops will be held at the Medical Education and Professional Training and Development Centre of Doctors at the University. It is equipped with over 60 multifunctional moulages. At graduate levels, students are offered clinical environment to study, at the clinical basis of the University (Appendix 2); Evaluation will include oral and written tests, clinical skills assessment, portfolio, presentations, course paper.

Simultaneously with the basic and preclinical core courses students develop clinical skills (Emergency first aid – II term) X term is thoroughly concentrated on practice. Biostatistics (IV term), Medical Research (VIII term).

Core medical courses are gradually downsized through I- X terms thus increasing coefficient of the clinical courses. Paraclinical study courses (Pharmacology, microbiology, pathology have equal coefficients throughout the overall programme.

Term I Basic Medicine Clinical Medicine Para-
clinical Disciplines



Term X

The Memorandum signed bilaterally by the Batumi Shota Rustaveli State University and Turkey 19th May University considers opportunity of practical training residency on the clinical basis of the University.

Teaching Methods

Teaching Methods and assessment format for each study course and module is relevant to the teaching goals and learning outcomes of the discipline and envisages the content, study format, specifics of the discipline. The lectures are interactive, include practical workshops and lab workshops, seminars, work in groups, seminars. The teaching format applies simulators and moulages bedside teaching, doctor-patient role-plays. Practical workshops are mainly construed on explanatory, demonstration, induction/deduction, discussion/debates, analysis and synthesis methods. Bedside teaching format offer case studies, problem and case-based teaching, direct involvement of the students in the clinical processes, which develops skills and competences of independent performance, or usage of simulators in taking blood pressure, Veni-puncture (on the simulator), lumbar puncture (on the simulator), intravenous cannulation (on the simulator), Intravenous drug administration (on the simulator or with the monitored assistance), application of the infusion facility (on the simulator or with the monitored assistance), subcutaneous and intramuscular injections (on the simulator or with the monitored assistance), oxygen provision (independently), stitching and blood transfusion (on the simulator), transportation and treatment of the patients (independently), urinary catheterization (on the simulator), urine analysis (independently), taking electrocardiogram and interpretation (independently), electroencephalogram and interpretation (independently), conduct of the Pulmonary system function tests (independently).

Assessment and Evaluation System

Students have to achieve the progress indicated in the syllabus in order to be awarded credits under this Programme and its Learning components. Positive evaluation means one of the positive assessments accounted for in the Credit System.

Student Learning Assessment/ Evaluation Include:

a) Final Examination assesses students independent work, active lecture participation, attendance rates, ongoing rating evaluation.

b) Midterm assessment may also foresee other components. Overall maximum assessment of the Course module is 100 points. Final examination overall assessment is 40 points.

Students are admitted to the final examination if they score no less than 51 points through the midterm tests and final examinations.

Students have to score maximum 16 points from the overall 40 to pass the final examination.

Core courses are assessed through the multiple choice tests, however examination may comprise clinical components as well as cases studies, presentations, skills evaluation system, portfolio, medical documentations, posters, structured clinical examination.

There are five positive and two negative assessments:

Trans disciplinary module assessment will be based on the midterm rating tests and final examination. The final grade will be calculated with summed up points, percentage balance of the overall points is considered.

Final positive assessments:

- (A) Excellent – 91 – 100 points;
- (B) Very Good – 81-90 points;
- (C) Good – 71-80 points;
- (D) – Satisfactory – 61-70 points;
- (E) Sufficient – 51-60 points.

Negative Assessment:

- (FX) - 41-50 points;
- (F) Fail – 0-40 points or less, students have to retake the same course

Assessment and Evaluation Criteria:

Knowledge of Theory

Classroom activities, rating tests, final examination, assess theoretical knowledge which can be administered via written tests or verbal communication. Multiple choice tests are composed prior to testing. Verbal examination is administered through 5 or 10 point grading system and assessed with summed up indices (based on the course syllabus).

5 point system corresponds to the following level of attainment:

5 points: Student demonstrates complete and thorough knowledge of the subject. Present a substantial amount of detailed and relevant information. Terminology is accurately developed, used correctly and appropriately. Demonstrate considerable depth of understanding of the studied main and additional literature. Bring forward a balanced view of the main arguments on the issues.

4 points: Student demonstrates complete knowledge of the subject. Terminology is accurately developed, used correctly and appropriately. Demonstrate considerable depth of understanding of the studied main literature.

3 points: Student demonstrates essential knowledge of the subject. Terminology is poorly developed. demonstrate understanding of the topics selected, however makes some mistakes.

2 points: Student demonstrates a simple understanding of the topics. Present poor factual information insufficiently linked with the topic. Terminology is not developed. Insufficient knowledge of the main literature/readers. Make several major mistakes.

1 points: Student demonstrates no knowledge of the subject or of the targeted specific terminology. The candidate has not been able to demonstrate understanding of the topics.

0 points: Student has not been able to demonstrate understanding of the topics.

b). 10 point system:

10 points - Student has been able to present complete and thorough knowledge of the subject, a substantial amount of detailed and relevant information. Demonstrate considerable depth of understanding of the studied main and additional literature. Bring forward a balanced view of the main arguments on the issues.

9 points - Student has been able to bring forward a consistent number of deductions on most of the topics tackled. make very good comments on the different perspectives on most of the issues. Demonstrates knowledge of the main readers.

8 points - Student has been able to bring forward a consistent knowledge, Has properly developed terminology. Demonstrates knowledge of the main readers.

7 points - Student has been able to present some factual information sufficiently linked with the topic. demonstrate a good understanding of the topics selected. make a good attempt to bring forward a balanced view of some arguments on the issues. Terminology is partially developed.

6 points - Student has been able to make some good comments on the different perspectives on some of the issues. Make poor deductions on most of the topics tackled. analyse some causes and results of human interactivity related to the issues.

5 points - Student has been able to demonstrate inconsistent comments on the different perspectives on some of the issues. Terminology is partially developed. Present mediocre level of knowledge. Make poor deductions.

4 points - Student demonstrates general overview of the topics. Terminology is not developed. Information sufficiently linked with the topic. Demonstrate irrelevant understanding of the literature.

3 points – Student demonstrates general/superficial and inconsistent knowledge of the subject. No sufficient knowledge of the literature.

2 points - Student demonstrates general comments, no knowledge of the terminology, no consistency.

1 point – Student demonstrates insufficient answer, not terminology awareness, chronologic manner of the answer, mostly wrong, no knowledge of literature.

0 point: Student demonstrates not even elementary knowledge of the topics.

Presentation / Case study / Problem-based teaching /Portfolio / Poster /Discussion
Grading – Maximum 10 grades

1. Content - 0-1;
2. Problem outline - 0-1;
3. Review of the literature on the issue - 0-1;
4. Research methods relevance with the research goals - - 0-1;
5. Logical argumentation -- 0-1;
6. Deductions accuracy and correlation with the main text - 0-1;
7. Visual and technical parts of the material - 0-1;
8. Reliability of the sources - 0-1;

9. Accuracy of the cited literature - 0-1;
10. Language and style accuracy- 0-1.

Assessment of Clinical Skills (Maximum 10 grades)

1. Description of Manipulation and definition of the terms - 0-2;
2. Justification of the manifestation/evidence - 0-2;
3. Technical implementation accuracy - 0-2;
4. Security of the own and the patients. - 0-2;
5. Protection of the Ethics and Deontology - 0-2.

Medical Documentation Processing

Grading – Maximum 5 grades

1. 5 points – Correctly and adequately assesses the problems. The history of disease is filled out consistently, the terminology usage is accurate, well aware of the conducting differential diagnostics, discusses the problem in a complex way as an integral part of joint system of the body. Is able to independently search additional information around the subject. Sets relevant treatment plan, correctly develops medication sheet, with accurate dosage plans.
2. 4 points - The problems are comprehended correctly, all components are consistently presented and described with proper terminology, the diagnostics plan is complete, the diagnosis is formulated accurately, treatment plan is adequate, with accurately prescribed medicines.
3. 3 points –has a general knowledge of the subject: the history is fully developed with all the components, however lacks consistency, and contains inaccurate terminology. The diagnostics plan coincides with the clinical data, however is incomplete the formulation. The treatment plan is adequate and contains fully developed sheet of medications.
4. 4. **2 points** – the problem is partially understood, components of the history are incomplete and inconsistent, the diagnosis corresponds to the package symptoms, though with no justifications, the treatment scheme is adequate, the list of medications is incomplete.
5. 5. **1 point** – The problem is not understood accurately, the history is schematically presented.
6. **0 point** – The answer is not relevant to the issue or is not given at all.

Criteria and components as well as their distribution for grading and assessment in each module / course are represented in the appendix 3 and are classified in each course syllabus.

		Study Plan																						
№	Module/Course	Credit	Hours								Semester													
			Overall	Contact Hours	Lecture	Laboratory Work	Practical	Seminar	Rating Tests	Independent work	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII		
					5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
1	Communicative Aspects of the Georgian Language	8	200	90	30		58		2	110	8													
2	Module – Medical Biology	7	175	70	4	8																		
					8	4	12			2	105	7												
					6	12																		
					6	4	4																	
3	Module – Morphology and physiology of cardio-respiratory system	9	225	90	5		12																	
					5		8																	
					4	4	8			2	135	9												
					6		12																	
					4	2	6																	
					4	2	6																	
4	Medical Chemistry	6	150	60	6	14																		
					6	14				2	90	6												
					6	12																		
5	Module Locomotor System - Morphology and Physiology	6	150	90	4	6	6																	
					8	7	8			2	60	6												
					4		8																	
					4	4	10																	

		Physiology of cross-striated muscle contraction				2	4	4												
		Bone Radiology				3		6												
6	Module Energy	Learning of biochemical pathways on energy metabolism and highenergy molecules	5	125	50	3		6		2	75	5								
		thermodynamics				2		6												
		biochemical structure and importance of enzymes				3		7												
		Anatomy of Liver, Pancreas and thyroid gland				3		6												
		Histology of liver, pancreas and thyroid gland				4	8													
7	Module Homeostasis	Urinary system anatomy	5	125	50	3		6		2	75	5								
		Nephron as the structural and functional unit of kidney				3		6												
		Physiology of liquid regulation in human organism				3		6												
		Homeostasis and acid –base balance				3		6												
		Pharmacokinetics				3		9												
8	Inflammation and immunity	Immune system	7	175	70	8	6	6		2	105	7								
		Complement system				2		4												
		Autoimmunity				2	2	3												

		Acute inflammation				2		8												
		Chronic inflammation				3		6												
		Reparation				2		4												
		Immunodeficiency				4	2	4												
9	Module – Nutrition	Anatomy of the digestive (gastrointestinal) system)	6	150	60	4	4	8	2	90	6									
		Hystology of the gastrointestinal organs				4	4	6												
		Physiology of the digestive (gastrointestinal) system				4	6	6												
		The digestion and absorption				4	6													
		The drug absorption in the alimentary tract and the main medicaments used in the gastroenterology				2	8													
		Anatomy of the digestive (gastrointestinal) system)				4	8													
10	Module – High Neuroregulation	Anatomy and Physiology of meningeal membranes	6	150	60	4		8	2	90	6									
		Limbic system and cerebellum				2		6												
		Bloody supply of CNS				4		8												
		Electrical activity of brain (introduction), Sleep Physiology				2		6												
		Autonomic Nervous system				4		6												

		and main neurological examinations																		
	Module – Medical Genetics	Molecular Genetics	5	125	75	9		18		2	50			5						
Genetics and Changeability		9					18													
Genomic Technologies		7				12														
11	Module Growth and Development	Organogenesis	7	175	105	6		12		2	70			7						
		Embryo growth and development genetic, physiological, biochemical endocrinal factors and mechanisms.				8		16												
		Neonatology				6		12												
		Major genetic, physiological, biochemical endocrinal aspects				4		10												
		Gonadotrophic hormones and drugs																		
↳ The health-related problems during the neonatal (newborn), childhood and puberty ages. The main factors and reasons of morbidity and mortality	8		21																	
12	damage caused by biological agents	Bacteria, Viruses, Fungi, Parasites structure	7	175	70	4	2	6		2	105			7						
		Pathogeneses, symptoms and disease of				4		8												

		damage caused by microbiological agents																			
		Identification of bacteria <i>spread</i> around the <i>human body</i>				2	2	6													
		Normal and Pathogenic Micro flora				4		8													
		Selective and diagnostic cultivation				2	2	4													
		Basic antimicrobial agents				2		4													
		Biosafety				2	2	4													
13		Medical First Aid	5	125	75	15		58		2	50				5						
14		Biostatistics	5	125	50	15		33		2	75				5						
15	Module- Reproductology	Morphology of human reproductive system	5	125	50	4		8		2	75				5						
		pathology of human reproductive system				4		12													
		Hypothalamus - hypophysis gonadial line				4		16	0												
Module Neuro - Biology	Synapsis, synaptic links, neural impulse transmission	4	100	40	3	2	6				2	60			4						
	General Pharmacology				6		12														
	Basic neuro-transmitters and their role				3		6														
17	Module - Pathology	The cellular damage and its results	6	150	90	7		14			2	60			6						
		The adaptation mechanisms of cell, tissue, organ and				3	2	6													

		system of organs																			
		The physical agents of diseases development				6		10													
		The chemical agents of physical development				6	2	12													
		Oxygen and other gases used for therapeutical reasons				2	3	6													
		The toxic effect of ethyl, methyl alcohols and drugs				3		6													
18	Medical Radiology		5	125	75	30		43		2	50					5					
19	Perception and Transmission	Somatic Stimulation – Perception and Transmission				3		6													
		Functional anatomy and structure of sensory organs				3		9													
		Functional Anatomy of vestibular system and cranial nerves	5	125	50	3		6		2	75						5				
		Dysfunction of sense, perception and transmission				6		12													
20	Module – Blood	Blood structure and function				4		8													
		Hematopoiesis and stem cells				6		10													
		Iron metabolism				3		6													
		Anemia	5	125	75	4		8		2	50						5				
		Bleeding, hemostasis, thrombosis				4		8													
		Liquid regulation in the				4		8													

		organism, principles of transfusion																									
21	Module – Trauma	Blood structure and function	7	175	70	2	6	2	105	7																	
		Hematopoiesis and stem cells				2	6																				
		Iron metabolism				2	10																				
		Anemia				2	6																				
		Bleeding, hemostasis, thrombosis				4	8																				
		Liquid regulation in the organism, principles of transfusion				2	6																				
		Blood structure and function				4	8																				
22	General Surgery		4	100	60	15	43	2	40	4																	
23	Module Gerontology-Geriatry	Concept of ageing, aging theories, cellular senescence	4	100	60	4	8	2	40	4																	
		in immune system, skin, eye, cardiovascular system, urogenital system,				4	8																				
		hearing and balance, metabolism, gastrointestinal system, skeletal muscle physiology.				3	6																				
		Changes occurring during the aging process				4	10																				
		Behavior Changes				3	8																				
		Menopause, osteoporosis, clinical pharmacology of aging																									
		Ethic in																									

		geriatric																							
24	Obstetrics	Anatomy and physiology of female urinary and reproductive systems				3		6																	
		Pathology of female reproductive system	5	125	50	3		9		2	75						5								
		Ethics in obstetrics				3		6																	
		Anatomic and physiologic changes caused by pregnancy				6		12																	
25	Module Oncology	Basic terminology				4		8																	
		Differentiation of malignization, metastasis				3		8																	
		Carcinogenic differentiation, and path-physiology				4		10																	
		Predictor cancer factor (personal and surrounding)	5	125	75	4		8		2	50						5								
		Cancer immunology and cancer hearths				4		8																	
		Narcological analgesics and anti-cancer medicines				4		8																	
26	Module Cardio-Respiration	Blood circulation, large and small circulation, mechanisms of diseases	7	175	105	4		8		2	70					7									
		Cardio-vascular system				6		12																	

		pathology																	
		Cardio-pulmonary examination of patients				6		12											
		Electro-cardiographs				5		10											
		Pathologies of respiratory systems				2		6											
		Patients with respiratory system diseases and examination				6		12											
		Blood circulation, large and small circulation, mechanisms of diseases				4		10											
27	Module - Gastroenterology	Hepatic and the bile ducts Pathology: acute viral and chronic Hepatitis pathogenesis	5	125	75	6		12		2	50								
		The patient evaluation during the hepatic and biliary pathologies				4		8											
		Abdominal surgery				8		14											
		The endoscopic examination in gastroenterology				3		6											
		The gastroenteritis and GI parasites				4		8											
28	Module Infection	Infectious Diseases Pathology	8	200	120	4		8		2	80								
		Pathogenesis of pathogenesis of heating due to				4		8											

		infectious diseases																		
		Skin and soft tissue infections				4		8												
		Zoonotic infections tetanus and Rabies				4		6												
		Infections Due to Blood, skin and Tissue Parasites				4		8												
		Pathogenesis of damage to various systems due to infectious diseases				6		12												
		Pathogenesis of TBC and epidemiology				4		8												
		Anti-germ therapy				6		12												
		Major epidemiological definitions of the infectious diseases				4		8												
29	Module Pediatrics	Child's growth and development	10	250	150	6		12		2	100									
		Propedeutics				6		12												
		Murmur and cyanosis – pallor				6		12												
		Convulsion and its complications				6		10												
		Newborn and dismorphology				6		12												
		Feeding, diarrhea, vomiting and abdominal pain				6		12												
		Arthralgia, and hematuria - fever and cough				6		15												
		Children's				6		15												

		Diseases Epidemiology																			
30	Pathology of Neurological Perception and Transmission	Somatic Innervation and transmission of perception	5	125	50	3	6	2	75												
		Injury of sense organs of cranial- vestibular system				4	9														5
		General anesthetics and their work mechanism				4	10														
		Local anesthetics and their work mechanism				4	8														
31	Module - Cardio Pulmonary Studies	Chest Pane	10	250	150	6	12														
		Interventional cardiology				6	12														
		Dyspnea cyanosis				5	8														
		Thoracic surgery				8	16														
		radiological diagnostics of Cardio respiratory diseases				6	12														
		Cough, phlegm, hemoptysis				7	14														
		Parenchymal disease of lungs				6	12														
Angiology, Angio surgery	6	12																			
32	Otorhinolaryngology		5	125	50	10	38	2	75												
33	Gastrointe stinal, hemopoeti c and Metabolic disorders	Propaedeutics,	10	250	150	6	12	2	100												
		Radiological diagnosis				6	12														
		Echimosi s and hemorrhage				4	6														
		Acute abdominal pain				8	24														
		Chronic				4	8														

		abdominal Pain																	
		Abdominal mass , breast mass				4		8											
		Organomegaly				4		8											
		Icterus				4		8											
		Diare, constipation				4		6											
		Haematemesis, melena haematochezia				4		8											
34		Medical Ethics and Deontology	3	75	30	8		20		2	45							3	
35		Endocrinology	9	225	135	36		97		2	90							9	
36		Neurological diseases	6	150	60	12		46		2	90							6	
37	Module - Pathology of the musculoskeletal system	Pathology of the musculoskeletal system	7	175	105	6		12		2	70							7	
		The posture and moving abilities' disorders				6		12											
		Osteology					7		21										
		The joints pain and edema					6		12										
		Rheumatic diseases					7		14										
38		Elective Course	5	125	50	12		36		2	75							5	
39		Forensic Medicine	5	125	50	12		36		2	75							5	
40	Module urology, andrology, sexual disorder	Pathology of the urinary system	6	150	60	6		12		2	90							6	
		Radial diagnostics used for Urinary diseases				4		8											
		The patient evaluation during the urinary system disorders				4		6											
		Dysuria				2		4											
		Sexual disorders and infertility			4		8												
41	Module – mental	Psychiatric nosology	4	100	40	2		4		2	60							4	

	disorders	The basics of psychiatric interviewing				2	6													
		The Main Psychiatric disorders				2	6													
		Psychiatric diseases – Diagnosis. Etiology. Principles of treatment				4	6													
		Central nervous system pharmacology				2	4													
42	Internal diseases		10	250	100	22	76		2	150									10	
43	Perioperative Medicine		5	125	50	12	36		2	75									5	
44	Dermato-venerology		6	150	60	10	48		2	90										6
45	Neuro-Science		6	150	90	30	58		2	60										6
46	Family Medicine		6	150	60	12	46		2	90										6
47	Clinical Allergology		6	150	60	12	46		2	90										6
48	Public Health and Epidemiology		6	150	75	15	58		2	75										6
49	Methods of scientific research in Clinical Medicine		5	125	55	16		37	2	70										5
50	Surgical diseases		10	250	150	28	120		2	100										10
51	Critical Care and Emergency Toxicology		8	200	120	20	98		2	80										8
52	Pediatric	Practice	7	175	105		103		2	70										7
53	Obstetrics and Gynecology	Practice	6	150	90		88		2	60										6
54	Internal Medicine	Practice	8	200	120		118		2	80										8
55	Surgery	Practice	8	200	120		118		2	80										8
56	Emergency	Practice	8	200	120		118		2	80										8
		Total	9000	4525	1123	158	3093	37	114	4475	30	30	30	30	30	30	30	30	30	30
	Elective Courses (5 Credits)	credit	Hour	Contact hour	Lecture laboratory	Practical	seminar	rating	Independent work											

1	History of Georgia	5	125	50	12	36	2	75										5			
2	Informational Technologies	5	125	45		43	2	80										5			
3	Ophthalmology	5	125	50	12	36	2	75										5			

Maximum number of admissions: 100 students

N	Components	Competences												
		General Competences:						Subject Specific Competences						
		Knowledge and understanding - Practical skills: application of the knowledge	Deductive Thinking Skills	Ability of Communication	Life-long learning	Values	Knowledge and understanding - Practical skills: application of the knowledge	Deductive Thinking Skills	Ability of Communication	Life-long learning	Values			
N	1	1	2	3	4	5	6	1	2	3	4	5	6	
1	Communicative Aspects of the Georgian Language	X			X		X	X			X		X	
2	Informational Technologies	X	X			X		X	X			X		
3	History of Georgia	X					X	X					X	
4	Module-Medical Biology	X	X	X				X	X	X				
5	Module – Morphology and physiology of cardio-respiratory system	X	X	X				X	X	X				
6	Module – Medical Chemistry	X	X	X	X			X	X	X	X			
7	Module Locomotor System Morphology and Physiology	X	X	X		X		X	X	X		X		
8	Module-Energy	X			X	X		X			X	X		
9	Module - Homeostasis	X			X	X		X			X	X		
10	Inflammation and immunity	X	X	X	X	X		X	X	X	X	X		
11	Module - Nutrition	X			X	X		X			X	X		
12	Module – The High Neuroregulation	X		X		X		X		X		X		
13	Module – Medical Genetics	X	X	X				X	X	X				

14	Module - Growth and Development	X	X	X				X	X	X	X	X	
15	DAMAGE CAUSED BY BIOLOGICAL AGENTS	X	X	X	X			X	X	X	X		
16	Medical First aid	X	X				X	X	X				X
17	Biostatistics	X	X			X		X	X			X	
18	Module – reproductive system	X		X		X		X		X		X	
19	Module - NeuroBiology	X	X					X		X		X	
20	Module -Pathology	X		X		X		X		X		X	
21	Module - Infection	X	X		X		X	X	X	X	X		X
22	Module - Pediatrics	X	X	X	X	X		X	X	X	X	X	
23	Module - Pathology of Perception	X	X	X	X			X	X	X	X		
24	Forensic Medicine	X	X				X	X	X				X
25	Module- Cardio Pulmonary Studies	X	X		X	X		X	X		X	X	
26	Module - cardiorespiration	X	X	X	X	X		X	X	X	X	X	
27	Medical Radiology	X	X	X				X	X	X			
28	Module perception and transmission	X	X	X	X	X		X	X	X	X	X	
29	Module – Blood	X		X		X		X		X		X	
30	Module - Trauma	X	X					X	X				
31	General Surgery	X		X				X		X			
32	Module – Gerontology, Geriatric	X	X	X		X	X	X	X			X	X
33	Module Obstetrics	X	X	X		X	X		X			X	X
34	Module - Oncology	X	X	X			X	X	X				X
35	Module- Gastroenterology	X		X		X		X		X		X	
36	Module Urology, andrology and sexual disorders	X	X			X	X	X	X			X	X
37	Module – Mental Disorders	X	X	X		X	X	X	X	X		X	X
38	Internal Diseases	X	X	X	X			X	X	X	X		
39	Perioperative Medicine	X	X	X	X	X	X	X	X	X	X	X	X
40	Neuro-Science	X	X	X	X	X	X	X	X	X	X	X	X
41	Family Medicine	X	X	X	X	X	X	X	X	X	X	X	X
42	Clinical Allergology	X	X	X				X	X	X			
43	Emergency(Practice)	X	X				X	X	X				X
44	Surgery (Practice)		X		X		X	X			X		X
45	Internal medicine (Practice)	X	X	X	X		X	X	X	X	X		X
46	Obstetrics-Gaenacology(Practice)	X	X	X	X		X	X	X	X	X		X
47	Padiatrics(Practice)	X	X	X	X			X	X	X	X		
48	Critical Care and emergency toxicology(Practice)	X	X	X				X	X	X			
49	Surgical Diseases	X	X	X	X			X	X	X	X		

50	Research Methods in medicine	X	X	X				X	X	X			
51	Public health	X	X				X	X	X				X
52	Endocrinology	X	X		X			X	X		X		
53	Neurological Diseases	X	X				X	X	X				X
54	Medical ethic and Deontology	X				X	X	X				X	X
55	Module - Gastrointestinal, metabolic and hemopoetic disorders	X	X	X	X	X		X	X	X	X	X	
56	Module - Pathology of the musculoskeletal system	X		X	X	X		X		X	X	X	
57	Otorhinolaryngology	X	X					X	X				
58	Dermatovenerology	X	X					X	X				
59	Module Urology, andrology and sexual disorders	X	X			X	X	X	X			X	X
60	Obstetrics and Gynecology	X	X	X	X			X	X	X	X		X

Human and Material Resources

The University provides students with the library – digital information with EBSCOHost (<http://search.epnet.com>); Cambridge University Journals (<http://journals.cambridge.org>); Oxford University Journals (<http://www.oxford-journals.org>). Students have at their disposal PCs, conference hall, practice labs, multifunctional study dummies, and simulators. The Centre of Medical Education and Professional Development is responsible for the clinical skills development. The students have the opportunity to get involved in various cultural, sports and socializing circles.

The programme is implemented jointly by the Departments of: Basic Medicine, Biology, Chemistry, Physics, Clinical Surgery, Clinical Therapy, Stomatology, Georgian Philology, European Studies and Computing, and the academic and professors of these departments:

1. Maia Kikvadze – BSU Associated professor;
2. Khatuna Diasamidze – BSU Assistant professor;
3. Rusudan Khikhunaishvili – BSU professor;
4. Marina Nagervadze – BSU Associated professor;
5. Sofiko Tskvitinidze – Doctor of Biology, Teacher;
6. Gregory Kakhiani – BSU Assistant professor;
7. Irina Phkhakadze – Md, Professor;
8. Eter Saralidze – BSU Associated professor;
9. Rusudan Vadachkoria – MD, Teacher;
10. Nugzar Gomidze – BSU Professor;
11. Aleko Kalandia – BSU Professor;
12. Maia Vanidze – BSU Associated professor;
13. Irina Bezhanidze – BSU Professor;
14. Tamar Mikeladze – Teacher;
15. Sophio Beridze – BSU Assistant professor;
16. Giorgi Kamkamidze – MD, Professor;
17. Leila Akhvlediani – BSU Associated professor;
18. Vladimer Baziashvili – Teacher;
19. Jambul Makaradze – MD, Teacher;
20. Marina Koridze – BSU Professor;
21. Tamar Mkhatvari – Teacher;
22. Irma Ruseishvili –Teacher;
23. Tamar Bakhtadze - Teacher;

24. Giorgi Nikolaishvili – MD, Teacher;
25. Raul Gorgoshadze – Teacher;
26. Khatuna Katamadze – Teacher;
27. Jumber Ungiadze – BSU Professor;
28. Merab Phoutkaradze – MD, Teacher;
29. Gocha Abashidze – Teacher;
30. Lia jincharadze – Teacher;
31. Natia Kharati – Teacher;
32. Nino Filia – Teacher;
33. Tamar Aroshidze - Teacher;
34. Kakhaber Kashibadze - BSU Professor;
35. Josef Sikharulidze – Teacher;
36. Davit Tsetskhladze – MD, Teacher;
37. Nino Chkhaidze – MD,PHD, Teacher;
38. Levan Kaloiani – Teacher;
39. Irakli Goginava - Teacher;
40. Teimuraz Gogitidze – Teacher;
41. Carai Tofgul– Teacher;
42. Serfil Erdogani – Teacher;
43. Ambrosi Pertia – MD,PHD, Teacher;
44. Mzia Didmanidze – MD,PHD, Teacher;
45. Tamar Khazhalia – Teacher;
46. Shorena Vashadze – BSU Associated professor;
47. Nona Nakashidze – Teacher;
48. Iliia Nakashidze – BSU professor;;
49. Ramaz Glonti – Teacher;
50. Maia Khukhunaishvili – Teacher;
51. Vakhtang Beridze – BSU Associated professor;
52. Salome Glonti – BSU Associated professor;
53. Lela Beridze – BSU Assistent professor;
54. Neriman Tsintsadze – BSU Associated professor;
55. Murman Makharadze – Teacher.

Appendix 2

Clinics:

1. Unimedi Adjara LTD – Batumi Referral Hospital
2. University Clinic of the 19th may University, Turkey
3. Batumi Republic Clinical Hospital LTD
4. Medical Centre MEDINA LTD
5. Batumi Mothers and Children Medical Centre LTD
6. Batumi Hospital of Contagious Diseases LTD
7. Batumi Psychiatric Hospital LTD
8. Batumi Scientific – Practical Center of Pathologies LTD
9. Batumi Branch of the Samkharauli National Expertise Bureau LEPL
10. Batumi Maritime Medical Center LTD
11. JS Maritime Hospital



CURRICULUM VITAE

Name: Vakhtang Beridze

Address: Batumi, N16 Inasaridze str.

Telephone: +995 599262897

E-mail Address: v_beridze@yahoo.com

Medical Specialty: pediatrician, allergist

Education (including years of graduation): pediatrician

Date of receiving qualification 01/08/1981

Requisites of the diploma:

Number: №0463;

Date of issue: 01/08/1981

Diploma issuing organization: Tbilisi State Medical Institute

Qualification: allergist

Date of receiving qualification: 01/08/1987

Requisites of the diploma:

Number: № 146;

Date of issue: 01/08/1987.

Diploma issuing organization: Institute of pediatrics of academy of medical sciences in Moscow.

Qualification/Academic degree: doctorate of medicine

PhD thesis: „Peculiarities of bronchial asthma among children in conditions of subtropical zone”

Date of receiving qualification/academic degree : 24.10.1997

Education: pediatrics

Diploma requisites:

Number: 001482;

Date of issue: 24,10,1997;

Diploma issuing organization: Educated expert board of Tbilisi State Medical University

Associated professor of department of clinical therapy at faculty of education and sciences of Shota Rustaveli State University since 1/11/2010

Medical License (Specify Authority That Issued License and Attach Copy):

19.09.2001: licensing in pediatrics, certificate: № 006567

30.08.2001 licensing in allergology, certificate № 012003

Professional Association Membership; Board Membership:

Member of Georgian respiratory association

Member of Georgian allergology immunology association

Languages Spoken: English , Russian;

Office Hours:

After Hours Availability:

CURRICULUM VITAE



Sophio Beridze
Georgia, Batumi, Gorgasali str.136/138, 6001
Date of born: 05.06.1980
Tel: (+99593) 30 01 70
E-mail: sophio.beridze@hotmail.com
sophiotoreli@gmail.com

Education

2006-2009

*Tbilisi State Medical University
Doctoral study in Internal Medicine - PH.D
TSMU N 000025*

2004-2007

*Tbilisi State Medical University
Residency in Internal Medicine
GP
Certificate N: I ♡ 03 003126*

1998 - 2004

*Tbilisi State Medical University
Faculty of Medicine - Medical Doctor
Diploma with distinction
N 500562*

Work Experience

*2011 – still today Head of Basic Medicine Department
Batumi Shota Rustaveli State University*

*2009 - still today Assistant professor
Batumi Shota Rustaveli State University*

2009–still today Batumi Referral Hospital - GP, Emergency Medicine Internist

2009 -2010 - Batumi Shota Rustaveli State University
Specialist at Clinical Therapy Department

2000-2006 - Correspondent of Students newspaper „Future Doctor”

Publications

1. “The Densitometry survey of osteoporosis in young population of Adjara (Georgia)” - Georgian Medical News, #6 (147), 2007, 56-59.
2. “Indicators of bone mineral density in male population of the mountain region of Adjara” - Georgian Medical News, #4 (157), 2008, 45-59.
3. “Indicators of bone mineral density in female population of the mountain region of Adjara”- Georgian Medical News, #4 (157), 2008, 49-53.

8. „Prevalence and clinical manifestation of osteoporosis in the region of adjara”2009;
9. „The Effect of the Gastroesophageal Reflux on the Duration of the Bronchial Asthma” 2010
10. „Rare case of internal disease in clinical practice” (Clinical observation), 2009;
- 11.„Characteristics of neural complications after long-term hormonal contraception2007;
12. „Prognostic and Developed Scenarios of Pandemic Flu In Georgia”- 2th World Virology congress, 2012.

Grants

1. USAID –CHEKH REPUBLIC -ALTERNATIVA GEORGIA

Introducing Addictology in Educational System of Georgia

Local Coordinator;

2. Georgian Research and Development Foundation

Georgia Mini-Grant Program - „TRAINING CURRICULA FOR ADMISSION TO BIOSAFETY LEVEL 2; STUDENTS AND FACULTY OF MEDICAL AND BIOLOGICAL DEPARTMENT OF BATUMI UNIVERSITY”- PI;

3. ERASMUS MUNDUS PARTNERSHIP 2013 Strand 1 – Lot 5 MEDEA Project.

Local Coordinator;

4. TEMPUS

The development of human resources, evidence base and quality standards in addictology (trans-disciplinary addiction science) in Georgia/ ADDIGE;

Local Coordinator

Languages

Russian (fluent), English (Fluent), Georgian (native)

Computer Skills

Microsoft office - Word, Excel, Power-Point, Internet Explorer, Outlook Express.

Scientific Interests:

Rare Cases in internal medicine, Osteoporosis, prevalence of infectious disease in Adjara Region, Clinical pharmacology of antibiotics.

