

Tbilisi State Medical University



Faculty of Physical Medicine and Rehabilitation

Master Program

Language of the study – Georgian

Date of accreditation - 2019

Program Directors - Associate Professor Zeinab Sopromadze

Professor Irma Manjavidze

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| Title of the Educational Program | Pediatric Rehabilitation |
| Level of the Higher Academic Education | The Second Cycle of Academic Higher Education |
| Qualification to be awarded | Master of Physical Medicine and Rehabilitation |
| Program Volume/Credits | 120 ECTS Credits (1 ECTS credit – 30 hours) |
| Duration of the Program | 2 Academic Years (4 Semesters) |
| Language of the Study | Georgian |
| The Structure and Content of Master program (Short description) | <p>The program is designed using the methodology of planning and developing educational programs at TSMU. The program's content fully covers the requirements for admission and learning outcomes.</p> <p>The educational program includes teaching plan and appropriate Syllabuses. Program contains mandatory and elective courses, (in details see below). From 120 credits 114 are mandatory, 6 elective courseb. During the entire period of study, the student chooses 3 courses from 8 different elective syllabuses.</p> |
| Aims of the Educational Program | <p>The Aim of the master's program in pediatric rehabilitation is to train personnel who will be equipped with the knowledge and up-to-date professional skills necessary for the medical rehabilitation of children so that they can: improve functional status of children and adolescents with disabilities, improve their quality of life, as well as train qualified specialists for rehabilitation, sports and medical centers based on national and international professional experience.</p> |
| Requirements/Prerequisites to the Program | <p>Master Degree Program requirements are the following:</p> <ul style="list-style-type: none"> • Bachelor's degree in Physical Medicine and Rehabilitation of TSMU |

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| | <ul style="list-style-type: none"> • Bachelor’s degree in abovementioned or neighboring specialties of other higher education institutions of Georgia • Bachelor’s degree in similar or neighboring specialties of foreign countries • Completion of required minimum of master's examination • Proficiency in Foreign Language (B2 Level) and TSMU internal specialty test/exam |
| <p>Learning Outcomes</p> | <p><u>1. Knowledge and Understanding</u></p> <p><u>General Transferable competences</u></p> <p>– Has a deep and systematic knowledge in this area, which allows to develop new, original ideas, understands/finds ways to solve a particular problem.</p> <p><u>Sectoral competences</u></p> <p><i>Has deep and systematic knowledge:</i></p> <ol style="list-style-type: none"> 1. About the child's normal development and developmental disorders, forms of disorders, their causes and rehabilitation; 2. About the public healthcare system and realizes the role of the Master of Rehabilitation in the rehabilitation of a disabled child during teamwork; 3. In-depth knowledge of ethical and legal principles regarding the determination of the status of a person with disabilities, his social protection and state guarantees. 4. The master realizes the importance of rehabilitation and social integration of a disabled child for the family and society. <p><u>2.Skills :</u></p> <p><u>General transferable competences</u></p> <ol style="list-style-type: none"> 1. - Participating in a team discussion around each specific case, using new approaches, conducting various manipulations by purpose, carrying out research using the latest methodology; 2. Critical analysis, drawing conclusions using evidence-based principles. Formation of new opinions on various cases; |

3. Effective written and oral communication, receiving and giving information in an appropriate format; Communication during professional and research activities.

can:

1. Assess the growth and development of the child and conduct medical follow-up;
2. In accordance with the knowledge gained, perform various rehabilitation procedures (massage, physiotherapy procedures, physical therapy courses, restorative procedures, etc.);
3. Work in a multidisciplinary group together with a pediatrician, children's neuropathologist, psychologist and different medical specialists); In each specific case, the master can formulate the main problem, carry out activities in a coordinated manner with the members of the group;
4. Establish a relationship with the patient, the patient's parent and colleagues;
5. Use the scientific principles of biomedicine in daily medical practice and research;
6. Establish contact with the patient, parents and family members of the patient, can provide them with information about the condition of the child, about the rehabilitation facilities in the institution, the procedure for their use and the expected results;
7. Purposefully ask questions to the patient/parent, show maximum empathy and desire to help, give advice and recommendations both orally and in writing;
8. Provide information to the patient/parent about the social assistance and benefits determined by the state;

3. Responsibility and autonomy

General transferable competences

1. Full use of educational and informational resources, obtaining information from various sources, conducting studies independently, familiarization with the features of the educational process and strategic planning.
2. Conducting negotiations in a professional context and participating in conflict resolution, considering the principles of justice and tolerance.

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| | <p><u>Can:</u></p> <ol style="list-style-type: none"> 1. Determine the need, forms and methods of rehabilitation; 2. Determine the duration of rehabilitation procedures for a child with disabilities; 3. Use educational and informational resources in the educational process, work in the library, knows how to search for materials on electronic media; 4. Process and critically evaluate the searched literature and write an abstract, prepare a literature review, analyze the results of various studies; 5. Protect the rights of the disabled patient based on the knowledge of ethical and legal principles; 6. Conduct negotiations on receiving social assistance and benefits. |
| <p>Areas of Employment</p> | <p>Areas of employment of Master of Physical Medicine and Rehabilitation</p> <ul style="list-style-type: none"> • Rehabilitation Center, Rehabilitation Department of multicisplinary hospitals, Children reahabilitaion centers; • Academic and scientific activities. |
| <p>Postgraduate Education</p> | <p>Graduate of the program - Master of Physical Medicine and Rehabilitation, can proceed to the third cycle of higher education and earn doctorate degree</p> |

Master's Program "Pediatric Rehabilitation" Syllabus, Credit Distribution and Human Resources

| | Name of the Syllabi/Course | Credits | Contact hours/ Independent hours | Teacher | Position |
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| N | Mandatory courses of the semester I | 28 credits | 280/560 | | |
| 1.1. | Legal and Bioethical Basis of Physician-Patient-Parent Relationship. | 5 credits | 50/100 | Irma Manjavidze | Professor of TSMU |
| 1.2 | Information technology in pediatrics, use of search engines in research. | 3 credits | 30/60 | Irma Manjavidze | Professor of TSMU |
| 1.3. | Professional Medical English | 3 credits | 30/60 | Marina Burduli | Invited teacher |
| 1.4. | Congenital and acquired pathologies of nervous system in children. Multidisciplinary approaches. | 8 credits | 80/160 | Nana Khachapuridze | Associated professor of TSMU |
| 1.5. | Principles and Methods of Rehabilitation. | 5 credits | 50/100 | Valeri Akhalkatsi | Associate Professor of TSMU |
| 1.6 | The use of kinesiotherapy, mechanical therapy and water (aquatic) therapy in children with disabilities. | 4 credits | 40/80 | Irakli Natroshvili | Professor of TSMU |
| | Elective courses of the semester I | 2 credits | 20/40 | | |
| 1.7 | Pediatric inpatient. Diagnostic criteria for disability determination. | 2 credits | 20/40 | Eka Uberi | Professor of TSMU |
| 1.8 | Disorders of child's growth and development and behavior. | 2 credits | 20/40 | Sopho Bakhtadze | Professor of TSMU |
| 1.9 | Medical genetics. Hereditary pathologies determining disability status in children. | 2 credits | 20/40 | Qeti Kankava | Associate Professor of TSMU |
| N | Mandatory courses of the semester II | 28 credits | 280/560 | | |
| 2.1 | Scientific research methods, biostatistical principles. | 4 credits | 40/80 | Irina Zarnadze | Associate Professor of TSMU |
| 2.2 | Health care organization for children with disabilities, capacity of medical programs and criteria of appointment of social assistance. | 4 credits | 40/80 | Irina Zarnadze | Associate Professor of TSMU |
| 2.3 | Basics of correctional psychology. | 5 credits | 50/100 | Makvala (Nana) Tsartsidze | Invited teacher |
| 2.4 | Medical rehabilitation of children and adolescents during various diseases. | 11credits | 110/220 | Zeinab Sopromadze | Associate Professor of TSMU |
| 2.5 | Features of nutrition, eating disorders and correctional rehabilitation programs. | 2 credits | 20/40 | Shalva (Dato) Zarnadze | Professor of TSMU |

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| 2.6 | Professional Medical English | 2 credits | 20/40 | Marina Burduli | Invited teacher |
| | Elective courses of the semester II | 2 credits | 20/40 | | |
| 2.7 | Management and rehabilitation of children's surgical pathologies, post-traumatic condition. | 2 credits | 20/40 | Tamar Robakidze | Invited teacher |
| 2.8 | Endocrine pathologies determining disability status. | 2 credits | 20/40 | Marina Gordeladze | Professor of TSMU |
| 2.9 | Tolerance and diversity. | 2 credits | 20/40 | Darejan Kukhianidze | Invited teacher |
| N | Mandatory courses of the semester III | 28 credits | 280/560 | | |
| 3.1 | Types of medical rehabilitation and functional tests of evaluation in children. | 5 credits | 50/100 | Zeinab Sipromadze | Associate Professor of TSMU |
| 3.2 | Medical service of children and adolescents with disabilities in primary health care system. | 6 credits | 60/120 | Irina Zarnadze | Associate Professor of TSMU |
| 3.3 | Hearing Loss and Congenital Deafness in Children and Adolescents with Disabilities: Causes, Management, Measures of Correctional Rehabilitation | 2 credits | 20/40 | Nino Trapaidze | Invited teacher |
| 3.4 | Vision impairment and blindness in children and adolescents: causes, methods of medical-rehabilitation. | 2 credits | 20/40 | Nino Nikuradze | Assistant Professor of TSMU |
| 3.5 | Congenital anomalies, traumatic and other injuries of oral cavity: correction and rehabilitation. | 2 credits | 20/40 | Nino Khvedeliani | Invited teacher |
| 3.6 | Rehabilitation of child and adolescent sports injuries. | 5 credits | 50/100 | Valeri Akhalkatsi | Associate Professor of TSMU |
| 3.7 | Medical rehabilitation of disabled children - multidisciplinary approach. | 6 credits | 60/120 | Irma Manjavidze | Professor of TSMU |
| | Elective courses of the semester III | 2 credits | 20/40 | | |
| 3.8 | Principles of correctional psychology and pedagogy. | 2 credits | 20/40 | Makvala (Nana) Tsartsidze | Invited teacher |
| 3.9 | Hematological disorders in children. Indications for determination the status of disability; | 2 credits | 20/40 | Marina Kvezereli | Invited teacher |
| | IV semester | 30 credits | 300/600 | | |
| | Preparation and defense of a master's thesis | 30 credits | 300/600 | | |
| | In total for both years of master's program | 120 credits | 1200/2400 | | |