

**Prof. Elena Ilieva. MD, PhD**

*Department of Physical and Rehabilitation Medicine, Medical University of Plovdiv, Bulgaria  
"Sv. Georgi" University Hospital, Plovdiv*

**European projects in this field. Actual and future activities.**

There are educational and research European projects in the field of new technologies in rehabilitation. Recently a project Technology in Rehabilitation (TechReh) was successfully finished. It was co-funded by the Erasmus+ Programme of the European Union: KA2 – Cooperation for innovation and the exchange of good Practices, Capacity Building in Higher Education. The aim of the project was to deliver more opportunities to access new competences in the use of new advanced ICT solutions for rehabilitation in the Republic of Uzbekistan. The partners participating in the Project comprised five European organizations: ESPRM, Medical Universities of Plovdiv and Vilnius, University of Sannio, Universite Pierre et Marie Curie, PLUX Biosignals and 6 organisations from Uzbekistan: Tashkent University of Information Technologies, incl. Karshi Branch, Tashkent Pediatric Medical Institute, Nukus Pediatric Medical Institute, Centre of implementing of e-learning in the educational institutions, Republican Specialized Scientific Practical Medical Center of Therapy and Rehabilitation.

As a result of the project activities five laboratories for new technologies in rehabilitation were founded and equipped with technology for kinetic and kinematic analysis of gait and posture, movement analysis and virtual reality for rehabilitation. A two-year Master "Computer systems for medicine" on the use and development of advanced ICT solutions in the field of rehabilitation for Engineering students was developed and started. The contents, educational materials and training of teachers for short courses for medical and technical professionals about the use of technology in rehabilitation and overall in medicine were introduced.

Modernization of the existing curriculum on medical rehabilitation /training of medical doctors in the rehabilitation field/ was developed and a new module "Modern information technologies in Medical rehabilitation" was introduced.

There are other ongoing projects like BRAN4TRAIN with the participation of the European Society for Physical and Rehabilitation Medicine, the Institute of Biomechanics of Valencia and Polytechnic Institute of Milan devoted to the use of Virtual reality in stroke patients.