

H E P M P

HIGHER EDUCATION PAIN MEDICINE PROJECT

Equipment
procurement at HEIs
in Serbia



Project title	Strengthening Capacities for Higher Education of Pain Medicine in Western Balkan countries
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I About the HEPMP project

1.1 The HEPMP project summary

Funding: Erasmus+

Key Action: KA2 Capacity Building in Higher Education

Type of project: Joint Projects

Coordinating Institution: University of Belgrade

The main aim of HEMP project is to increase quality of education in pain medicine in order to contribute to the improvement of public health care services and PCs in line with the Health 2020. In Serbia, Montenegro and Bosnia and Herzegovina there is a significant problem of large percentage of the population who suffers from cancer, rheumatic and neurological diseases, while education in the field of pain medicine is insufficient. In fact, one of the priorities of the strategy Health 2020 improvement of the quality of medical services and continuously adapt to changing patterns of disease. Aim of this project is developing an interdisciplinary program in Pain Medicine at the under / postgraduate studies by applying new methodologies and specific learning outcomes in partner country universities. The introduction of the modernized study program of pain medicine is important for improvement of the quality of higher education that will contribute to improve the health care of the population. Moreover, one of the aims is establishment of academic network that would allow the exchange of knowledge of HCWs in Serbia, Montenegro and Bosnia and Herzegovina. The main tool of this network would be development of educational PAIN REGION WB Network which will enhance regional cooperation and education of pain medicine of all partner country universities.

Also, one of the HEPMP aims is delivering of trainings of pain medicine in order to increase skills and competences of health care workers (HCW) in PCs . Training would be for the two target groups: the first type of courses would be for HCWs who work in primary health care centres and daily dealing with the management of pain medicine, and other types of courses would organized in the form of highly specialized training for interventional treatment of pain for doctors who work in tertiary institutions. During the project will form the learning material in the form of brochures for courses and textbooks on pain.

1.2 The HEPMP project consortium

No	Institution	City	Country
1	University of Belgrade	Belgrade	Serbia
2	University of Kragujevac	Kragujevac	Serbia
3	University of Tuzla	Tuzla	Bosnia and Herzegovina
4	University of Banja Luka	Banja Luka	Bosnia and Herzegovina
5	University of Montenegro	Podgorica	Montenegro
6	University of Florence	Florence	Italy
7	University of Ljubljana	Ljubljana	Slovenia
8	University of Rijeka	Rijeka	Croatia
9	KBC Dr. Dragisa Misovic-Dedinje	Belgrade	Serbia

1.3 The HEPMP Managing Board

No	Name and Last Name	Institution
1	Prof. dr <i>Predrag Stevanović</i> ,	University of Belgrade, Project Coordinator
2	Prof. dr Jasna Jevđić	University of Kragujevac
3	Prof. dr Vladimir Đukić	KBC dr Dragiša Mišović
4	Prof. dr Danko Živković	University of Montenegro
5	Prof. dr Jasmina Smajić	University of Tuzla
6	Prof. dr Darko Golić	University of Banja Luka
7	Prof. dr Anđelo Rafele De Gaudio	University of Florence
8	Prof. dr Maja Šoštarić	University of Ljubljana
9	Prof. dr Željko Župan	University of Rijeka

Equipment procurement at HEIs in Serbia

The procurement of equipment for project partners in Serbia has been completed. The University of Belgrade has taken over the organization of a joint tender procedure at the national level. The procedure could not be conducted for all countries as a joint multinational procedure due to different laws and procedural requirements. A public tender in accordance with national laws has been published and completed for academic partners in Serbia and Montenegro. The type of equipment and its quantity was agreed at the consortium level and was endorsed by the EACEA Project Officers responsible for the HEPMP project.

Part of the laptop-shaped equipment was distributed to the faculty members participating in the postgraduate Department of Pain Medicine at the Faculty of Medicine in Belgrade. The Postgraduate Department of Pain Medicine was founded in 2014. The total of 40 faculty members from the Faculty of Medicine from Belgrade participate in its work. The obtained equipment was distributed to the faculty, members of the postgraduate Department of Pain Medicine for writing the "Medicine of Pain" textbook. By decision of the Specialist Teaching Council of the Faculty of Medicine in Belgrade, No. 40/6 from 25th June 2019, the following were appointed editors of the aforementioned textbook: Prof. Dr. Predrag Stevanović, Prof. Dr. Dejan Nešić and Prof. Dr. Nebojša Ladjević. The appointed reviewers of the textbook were: Academician Dr. Vladimir Kostić, President of the Serbian Academy of Sciences and Arts (SANU), Academician Dr. Dragan Micić, President of the Health Council of the Republic of Serbia, and Academician Dr. Nebojša Lalić, Dean of the Faculty of Medicine in Belgrade. The textbook is intended for medical students, doctors of medicine, doctors in specialization, doctors in narrow specialization, specialists and narrow specialists in all specialties, as well as nurses and medical technicians. The deadline for completion of the textbook is 31st December 2019. Members of the Department of Pain Medicine participate in Lifelong Learning (LLL) courses organized by the Faculty of Medicine in Belgrade. The obtained laptops will be used for preparing presentations for LLL. For the purpose of the LLL event, a projector as well as a projection screen to support that projector were purchased. The second course organized by the Faculty of Medicine in Belgrade, entitled: Radiotherapy Modalities of Pain, will be held on 17th October 2019 at the Institute of Oncology and Radiology of Serbia. The third course organized by the Faculty of Medicine in Belgrade,

called Malignant Pain, will be held on 16th December 2019 at the Health Center "Dr Milorad Mika Pavlović" in Indjija.

Part of the equipment was purchased for the newly formed Simulation Center. By the decision of the Council of the Faculty of Medicine in Belgrade, No. 8 / III-3 from 30th May 2019, the Statute of the Faculty of Medicine in Belgrade was amended, and a decision was made to establish a Simulation Center. Prof. Dr. Predrag Stevanović was appointed as a head of the Simulation Center. Medical phantoms and treatment training manikins, computers, and a master server were purchased for the Simulation Center. It should be noted that this result was not originally planned in the project application and is a very useful novelty that our HEPMP brings.

All the items obtained for the Simulation Center will be used within the basic undergraduate curriculum for a mandatory Surgery with Anesthesiology course in the tenth semester of Medicine Studies which is now a new elective course in the tenth semester of Medical Studies called Pain Therapy.

Surgery with Anesthesiology curriculum has been updated and innovated and now covers a total of 400 teaching hours. This updated and innovated curriculum has undergone internal accreditation at the Faculty of Medicine in Belgrade thus the students will be trained according to it from the 2019/20 school year. Out of the total number of classes, 30 are taught in groups of 20 students, at the Simulation Center of the Faculty of Medicine in Belgrade, according to a special schedule. During classes at the Simulation Center, lasting all week for one group of students (Monday - Friday), with a daily fund of 6 classes, students are exempt from all other classes and will only be devoted to training and work at the Simulation Center. Students at the Simulation Center will gain knowledge on: the importance of assessing, establishing, and maintaining the airway as part of emergency and life-threatening patient management, as well as techniques for measuring arterial blood pressure (TA), administering intramuscular / intravenous injections, and establishing a venous route, as well as bleeding control techniques, urinary catheter placement, and basic patient care, as well as assessment of circulatory system status and recognition of emergency conditions caused by circulatory disorders. Also, the student will acquire knowledge and skills in the field of Basic Life Support (BLS) as well as knowledge and skills in Advanced Cardiac Life Support (ACLS). Doctors in specialization in General Surgery, Anesthesiology and Reanimatology, Emergency Medicine, Internal Medicine, Pediatrics, Radiation Oncology... will be trained at the

Simulation Center. Specialists who have enrolled in the postgraduate narrow specialization training in: Pain Medicine, Pediatric Anesthesia, Cardiovascular and Thoracic Anesthesia will be trained there as well.

The newly formed elective course has undergone internal accreditation at the Faculty of Medicine and, since the 2018/19 school year, has been conducted within the X semester of basic medicine studies. In this elective course, students will be introduced to the knowledge of different types of pain, options of prevention and treatment of pain, mastering various techniques for pain relief, as well as routes of administration of analgesics.

Several units have been installed at the Center for Information and Communication Technologies to provide hardware support to the Regional Academic Pain Network. Purposes of the application are: reduced number of visits to the doctor (repeated medical examinations), availability of media documents from all areas, multiple consultations, minimum spending of all resources (money, fuel, papers, time ...) and allowing the greater and faster availability of doctors of various profiles who deal with pain for all patients. The other piece of equipment, which is designated for the Center for Information and Communication Technologies, is also intended to support the newly innovated and updated website of the Faculty of Medicine, University of Belgrade (a new version of the Faculty of Medicine in Belgrade website is available at www.mfub.bg.ac.rs). Likewise, this equipment, which is intended to improve and enhance the Faculty of Medicine's website, also will be used for the HEPMP Forum, where students, physicians, specialists and specialists in narrow specialization fields of medicine sharing similar interest will be able to express their opinions, comments, pose questions or answers any questions. The HEPMP Forum consists of the following topics: Anatomy of Pain, Neurobiology of Pain, Anatomy of Pain Pathways, The Physiology of Pain, Deep, Visceral, Inflammatory, Neuropathic Pain, Neurophysiology of Acute and Chronic Pain, Neurobiology of Pain in Infants and Children, Development of Painful Pathways and Pain Mechanisms, Pain Assessment, Clinical Pain Evaluation, Pain Questionnaires and Pain Scale, Pediatric and Neonatal Scale, Pain Management, Pharmacotherapy of Pain, Non-Pharmacological Treatment of Pain, Cancer Pain, Radiotherapy, Chemotherapy, Hormone Therapy in Pain Management, Emergency Situations in Cancer Pain Management, Psychiatric Comorbidities Associated With Chronic Pain.

Part of the computer equipment (phantoms and treatment training manikins, server, computers, laptops, projector and projector screen), was obtained for the Clinical Hospital

Center "Dr. Dragiša Mišović" in Belgrade. This equipment will be used to support the lecturers in preparing the lessons within the aforementioned LLL courses. Also, the lecturers employed by the Clinical Hospital Center "Dr. Dragiša Mišović" in Belgrade teach the students enrolled in integrated academic and specialist studies at the Faculty of Medicine in Belgrade. Prof. dr. Predrag Stevanović has innovated and improved Anesthesiology and Reanimatology curriculum within the Surgery with Anesthesiology course for the IX semester of basic integrated academic studies "Doctor of Medicine" at the Faculty of Medicine in Belgrade since the 2018/19 school year.

Another piece of equipment obtained for the Clinical Hospital Center "Dr. Dragisa Misovic" in Belgrade will be used to open the Center for Pain Medicine. In this way, conditions will be created to profile the patients and painful conditions that can be successfully managed medically. By organizing activities of multidisciplinary teams in a special space, Center for Pain Medicine will be original and unique in Serbia, and CHC "Dr. Dragiša Mišović" will become a pioneer and headquarters in the care of a large group of patients with problems that significantly impair their health status and endanger the quality of life. The Center for Pain Medicine will be part of the Anesthesia Clinic but other specialists from the Institution (neurologists, oncologists, radiologists, etc.) will participate in its work. The Center for Pain Medicine will address all types of pain conditions that include both malignant and non-malignant pain. The Center for Pain Medicine will consist of 5 beds.

The equipment purchased for the Clinical Hospital Center "Dr. Dragiša Mišović" in Belgrade will be used for the Course of Interventional Pain Procedures, which will be organized in collaboration with the Faculty of Medicine from Rijeka and prof. Dr. Željko Župan. This course will be organized from 18th to 21st March 2020. The obtained equipment will also be used for the organization and delivery of the "Service for Acute Pain" course, which will be organized on 9th April 2020 together with Prof. Dr. Maja Šoštarič from the Faculty of Medicine, University of Ljubljana.

This year, the Faculty of Medicine of the University of Belgrade is celebrating its 99th anniversary. As a whole, all the equipment obtained for the University of Belgrade will contribute to the fact that next year, when the Faculty of Medicine of the University of Belgrade celebrates the hundredth anniversary of its founding, it would have for the first time since the establishment a modern and well equipped Simulation Center for the education of

students of integrated academic, specialist and doctoral studies which only confirms the importance and necessity of the purchased equipment for the University of Belgrade.

Strengthening Capacities for Higher Education of Pain Medicine in Western Balkan
countries – HEPMP

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