**EVENT REPORT FORM**

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| Project title | Strengthening Capacities for Higher Education of Pain Medicine in Western Balkan countries |
| Project acronym | HEPMP |
| Project reference number | 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP |
| Coordinator | University of Belgrade |
| Project start date | October 15, 2017 |
| Project duration | 36 months |

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| Event | **Telemedicina pomoću Hololensa u službi terapije bola**  **Telemedicine using Hololence in the service of pain therapy** |
| Type of event | **WP2 Development of joint curricula for PM study program**  2.5. Implementation of study programs |
| Venue | Online, Hololens Remoute assist MS Teams:  <https://medbgacrs-my.sharepoint.com/:v:/g/personal/predrag_stevanovic_med_bg_ac_rs/EZpbOyfp7JpDnrzsr4w-GckBkJcNc_qgPw0TwiGX6JlCoQ?e=BUosQM> |
| Date | 30.06.2021. |
| Organizer | MFUB |
| Reporting date | 30.06.2021. |
| Report author(s) | Prof. dr Predrag Stevanovic |

Project number:585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

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**EVENT DESCRIPTION**

**with special reference to goals and outcomes**

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| Participants (organisations) | Medical Faculty University of Belgrade |
| Event description: | |
| Accelerated technological development has introduced the concepts of augmented, virtual and mixed reality. Augmented reality involves seeing the world around you that is upgraded with computer-generated text, image or sound. At the other end of the spectrum is virtual reality where the user is in a fictional, artificial, computer-generated environment. In this way, the system can create various visual, auditory, tactile and some other stimuli. The term mixed reality refers to a combination of the best augmented and virtual components. The user watches the real world and has the ability to manipulate digital content in the form of holograms generated by the device. One such technology was developed by Microsoft in 2016 in the form of smart Hololens glasses with a built-in battery, microcomputer, camera, microphone, speakers and a hologram projector. It was first used in surgery, and thanks to its performance, it could make a significant contribution to the treatment of patients with the Covid 19 virus.  The application of these modern technological devices in medical practice could enable a multidisciplinary approach to treatment, and at the same time lead to a better treatment outcome.  Innovative solutions are needed to solve distance issues and maintain high quality patient care. Some teams use mobile phones and encrypted applications such as WhatsApp, leaving a channel of communication open when one clinician is seeing the patient, so that the distanced team can hear the conversation or answer questions.  New technologies such as mixed reality headsets are one potential solution. These devices use cameras and microphones allowing two-way communication, and simultaneously utilise augmented reality by allowing the wearer to map digital images onto the physical world which the user can interact (eg using hand gestures). The Microsoft (MS) HoloLens 2 is a mixed reality headset. This device incorporates a holographic heads-up display (HUD) on the visor, onto which patient results, observations and other information can be presented. The inbuilt camera and microphone allow for bidirectional audio and visual communication between the wearer and (multiple) remote users. The HoloLens 2 can be worn by the clinician as they interact with patients, while the remainder of the healthcare team see a first person view from the HoloLens 2 wearer on a computer, allowing two-way communication with the clinician from a remote location. The HoloLens 2 has the potential to solve some of the challenges presents to the traditional ward round, as it allows the medical team to engage in ward rounds remotely from a distance area. | |

**Attachments**

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| **Agenda (pdf)** | Agenda – upcoming event ERAS protokol u minimalno invazivnoj hirurgiji(pdf) |
| **Deliverable** | <http://hepmp.med.bg.ac.rs/?page_id=2693>  <https://medbgacrs-my.sharepoint.com/personal/predrag_stevanovic_med_bg_ac_rs/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fpredrag%5Fstevanovic%5Fmed%5Fbg%5Fac%5Frs%2FDocuments%2FRecordings%2FEpidurolysis%2D20210630%5F164131%2DMeeting%20Recording%2Emp4&parent=%2Fpersonal%2Fpredrag%5Fstevanovic%5Fmed%5Fbg%5Fac%5Frs%2FDocuments%2FRecordings&originalPath=aHR0cHM6Ly9tZWRiZ2FjcnMtbXkuc2hhcmVwb2ludC5jb20vOnY6L2cvcGVyc29uYWwvcHJlZHJhZ19zdGV2YW5vdmljX21lZF9iZ19hY19ycy9FWnBiT3lmcDdKcERucnpzcjR3LUdja0JrSmNOY19xZ1B3MFR3aUdYNkpsQ29RP3J0aW1lPUVxNlVEcHQyMlVn> |
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Signature

Belgrade, 15.06.2021. Prof. dr Predrag Stevanovic