

## P035—AMAZING TECHNOLOGIES

### CURRENT STATUS AND DEVELOPMENTS OF THE EUROPEAN KNOWLEDGE ALLIANCE FOR EDUCATIVE EDUCATION OF SURGICAL AND INTERVENTIONAL SKILLS (EASIER)

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**Aims:** Currently surgical training is largely based on the improvement of Technology Enhanced Learning solutions. The progress of engineering and the diversification of training facilities outside the operating theater results in an even greater contribution of technology in the future. The main reasons to encourage these changes are increased efficiency of simulators and directly increased patient's safety. The goal assumed by the EASIER Project is to develop multi-skill, online platforms for minimally invasive surgical (MIS) procedures—based on common pedagogical principles with reference value in a multinational space. The platform will allow the connection of external assets (such as simulators) to centralize all training data from residents. This work presents the milestones of the project during its first year of life.

**Methods:** The Consortium's activity started with a Knowledge Elicitation process organizing brainstorming and workshops including experts in MIS and interventional techniques, from Spain, Romania and Hungary. This experience led to the formulation of a questionnaire that was implemented online and sent via email to surgeons and residents from the participating countries.

**Results:** Accumulated experience was used to define the pedagogical needs of the platform. The pedagogical needs form the starting point for defining the technical requirements and specifications. Based on them, the design of the platform has been achieved, including its architecture and communication protocol between external assets design, facilitated by the use of state of art educational standards.

**Discussions and conclusions:** Next steps include the implementation of the EASIER platform, as well as the definition of cases studies selected by the clinical partners in Spain, Romania and Hungary to solve applications of the platform dedicated to cholecystectomy, lumbar puncture and arthroscopy. A pedagogical model, built by the experience of the Consortium, is being used to guide instructional design of the course. Finally, results will be validated in a multi-center validation study. The EASIER project will create a training platform with reference value for European surgery. The structure of the Consortium, based on the confluence between collectives with clinical, technological and pedagogical experience, will generate a complex learning tool in surgery embodying technology-based training systems with clinical experience.