

EuroSOMT

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School of Modern Technology

Il curriculum europeo basato sulla tecnologia nelle scienze della salute è un progetto dell'Unione Europea approvato e concesso dalla Commissione Europea sotto forma di partenariato strategico ERASMUS+, nel campo dell'istruzione superiore, della formazione e del programma per la gioventù.

Nel progetto sono incluse cinque Istituzioni di alto livello nel campo dell'istruzione: Università Hacettepe (Turchia), Katholieke Universiteit Leuven (Belgio), Università Degli Studi di Perugia (Italia), Università Chosun (Corea del Sud), International Continence Society - ICS (Regno Unito).

L'Università di Perugia partecipa con la Prof.ssa Elisabetta Costantini, il Prof. Mario Rende, la Dott.ssa Anna Maria Stabile, la Dott.ssa Beatrice Sensi e la Dott.ssa Paola Cornacchione.

Il progetto è composto da 4 fasi fondamentali:

- 1) Produzione di modelli chirurgici stampati in 3D specifici per il paziente con l'utilizzo di dati radiologici e modelli chirurgici cadaverici (Turchia e Belgio)
- 2) Creazione di modelli di realtà virtuale/aumentata e standardizzazione 3D dei modelli (Corea e Turchia)
- 3) Creazione di un training syllabus in 3D in urologia funzionale e moduli di valutazione adeguati per studenti e tirocinanti (Organizzazione leader: **Italia** e Turchia)
- 4) Moduli di formazione basati sul Web/portale di e-Learning (video, film di animazione chirurgica, materiale didattico per la creazione di modelli 3D) e valutazione delle sessioni di formazione (International Continence Society – ICS – Turchia)

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European Technology-Based Curriculum in Health Sciences is an European Union project which is approved and granted by European Commission in the form of an ERASMUS+ strategic partnership project, in the field of higher education, training and youth programme.

Five leading parties with high respect in the field of education are included in the project: Hacettepe University (Turkey), Katholieke Universiteit Leuven (Belgium), Università degli Studi di Perugia (Italy), Chosun University (South Korea), International Continence Society - ICS (United Kingdom).

The target of this project is to produce novel 3D medical models and innovative applications by using novel worldwide technologies for lifelong medical training, set up the education, technology based school under umbrella of International Continence Society, grow up in Europe and increase awareness of 3D technology in medical education, surgical planning, patient education with interdisciplinary fashion. The creation of Simulation-Based

The Outcomes are: production of patient-specific CT-reconstructed 3D printed models and cadaveric surgical models with using patient/cadaver radiological data, creation of VR/AR models with using the same 3D modeling scans and standardization, establishment appropriate syllabus and evaluation forms for students and trainees, web-based training (E-learning) module and evaluation of training sessions. There are many surgical procedures on functional urological surgery and pelvic surgery, however, we will chose the basic procedures for training purposes to mimic real surgery to reach standard models and syllabus. Comparison of the training sessions between 3D printed/VR /AR and cadaveric (standard case) models will provide the objective results on educational values of novel technologies on surgery.

University of Perugia participates with Elisabetta Costantini, Mario Rende, Anna Maria Stabile, Beatrice Sensi and Paola Cornacchione.

EuroSOMT Project Consists of 4 Intellectual Outcomes:

- 1) Production of patient-specific CT-reconstructed 3D printed surgical models with using patient/cadaver radiologic data and standard cadaveric surgical models. Turkey and Belgium
- 2) Creation of Virtual /Augmented Reality Models and International 3D Standardization of Models. S.Korea and Turkey
- 3) Establishment Appropriate Syllabus and Evaluation Forms for Students and Trainees. Leading Organization: **Italy** and Turkey
- 4) Web-based Training Module/e-Learning Portal (Videos, Surgical Animation Films, Educational Material for 3D Modeling etc.) and Evaluation of Training Sessions. International Continence Society – ICS and Turkey

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