Erasmus+ VR-PAIN

NEWSLETTER No 2

30. 11. 2023

VR-PAIN
Technology in Undergraduate Physiotherapy Education

WP2: Developing user requirements and collecting feedback

- University College Dublin, University College Cork and The University of Applied Sciences Utrecht mapped their Physiotherapy pain science curricula to the European Pain Federation EFIC Core Bachelor Curriculum for Pain Physiotherapy
- We developed three case scenarios (patients) to enhance students pain science clinical reasoning skills.

  Patient 1: *Chronic pain (nociplastic). A 56 man with a 10-year history of chronic low back pain. MRI 5 years ago had no findings, x-ray one year ago showed degenerative age-related changes at L4/5.*

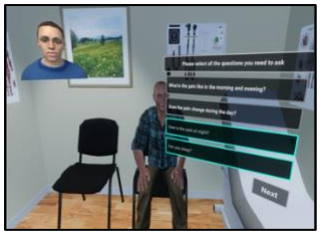
  Patient 2: *A. Acute pain (nociceptive). 45-year lady with a 2-week history of acute low back pain. She had one episode of low back pain 2 years ago, MRI at that time demonstrated degeneration of facet joints bilaterally L4 and L5 (age-related)*

  Patient 3: *Acute post-operative pain (nociceptive & neuropathic). A 40 year old lady who has undergone a right mastectomy, axillary clearance and strattice reconstruction with implant. She also has a history of asthma.*

- We held an in-person focus group day with Physiotherapy students, people living with pain and academic and clinical staff to discuss the case studies

WP3: Developing the VR component and training materials

- We have created 3D models for the VR environment, and work has begun on the implementation of animations for interactivity between these models.
- UI/UX development has been initiated, which includes coding and ergonomic selections to make the user environment user-friendly. Special effects, voice actors, and other elements have been created to enhance user-friendliness have been incorporated.
- We have developed training mechanisms using the tools and components, incorporating feedback from the partners and end-users (students, academics and people living with pain)



WP4: Evaluating the project through developed metrics

- We plan to evaluate the VR case studies in Year 2 of the VR-PAIN study.

DISSEMINATION

Dr Brona Fullen (University College Dublin) was a keynote speaker at the 2023 Annual XR4REHAB conference 29-30th June 2023, Amsterdam. In her presentation she outlined the VR-PAIN study and presented results from WP2

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