The objective structured clinical examination (OSCE): main aspects and the role of imaging

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Abstract

The objective structured clinical examination (OSCE) is an evaluative format that allows assessing clinical skills of students in a reliable, objective, uniform, and standardized way. It takes place in different clinical stations that simulate real clinical scenarios and situations. Currently, it is being used as a final examination in the medical degree in numerous universities, including the Spanish ones. This update presents its organization, design and foundations, and proposes that radiology should be present in multidisciplinary OSCEs, to the extent that it is present in clinical practice. In addition, it is interesting and opportune to introduce the OSCE in the teaching of radiology, in undergraduate and postgraduate studies. Online platforms allow cost-effective bi-dimensional virtual OSCEs in terms of staff, resources, and physical space, albeit with certain limitations. Virtual world technology allows reproducing OSCE stations in three-dimensional scenarios, recent experiences in radiology have shown great acceptance, interest, and motivation in students.

Image



Scenes of Rainbow Project with undergraduate students working on radiological clinical cases on Second Life.

Recent Publications

Lorenzo Álvarez R, Pavía Molina J, Sendra Portero F. Posibilidades del entorno virtual tridimensional Second Life® para la formación en radiología. Radiologia. 2018;60:273---9.

Lorenzo Álvarez R, Pavía Molina J, Sendra Portero F. Exploring the potential of undergraduate Radiology education in the virtual world Second Life with first-cycle and second-cycle medical students. Acad Radiol. 2018;25:1087---96.

Staziaki PV, Sarangi R, Parikh U, Brooks JG, LeBedis CA, Shaffer K. An objective structured clinical examination for medical student Radiology clerkships: Reproducibility study. JMIR Med Educ. 2020;6:e15444.

Almodóvar Fernández I, González Moret R, Ibánez Torres L, Sánchez Thevenet P. La evaluación clínica objetiva estructurada ECOE, una oportunidad para el aprendizaje en Enfermería. Index de Enfermería. 2021;30:1---2.

Blamoun J, Hakemi A, Armstead T. A guide for medical students and residents preparing for formative, summative, and virtual Objective Structured Clinical Examination (OSCE): Twenty tips and pointers. Adv Med Educ Pract. 2021;12:973---8.

Pugh D, Desjardins I, Eva K. How do formative objective structured clinical examinations drive learning? Analysis of residents' perceptions. Med Teach. 2018;40:45---52.

Biography

Dr Pérez Baena and Dr.Sendra had expertise in evaluation and passion in improving the learning in Radiology with undergraduate and postgraduate students.

They try to create new pathways of teaching Radiology through Virtual Reality on Second Life world. Also, they did some projects of Virtual OSCE to check the results and impression of students using this new system.

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