Development of a web-based application as a tool towards continuous education in neuroanatomy

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Starting Point...

Medical technology has evolved in a remarkable way in the last century, reflecting a revolution in how medicine is practiced nowadays. The technology revolution in medicine reflects the increasing complexity of medical education, a field in which education supporting software is becoming more prevalent.
Recertification and complementary post-graduations in medicine are becoming truly prominent, namely in the context of scientific development in last decades.
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This work aims to characterize this software and discuss its use as a tool for teaching/learning in medical recertification/post-graduation and in continuous education.
The Study Manager...

1. Virtual Quiz

2. Clinical Vignettes
Virtual Quiz

Platform for students to train the identification of neuroanatomy structures identification skills in x-ray, CT and MRI films, as well as images of sectional anatomy.

Students perform steeplechase short answer type examinations. Each examination included 10 virtual stations, each one with two images of imaging or sectional anatomy (60 seconds per station).

Provides immediate correction of the examination, using a validated logarithm which validates several possibilities.
Clinical Vignettes

Platform for students perform a multiple choice question examination, presented as clinical cases format, in order to consolidate the clinical neuroanatomical correlations and core knowledge.

Each examination included at least 20 questions (can be adapted to include more questions), and time available to perform it can be adapted.

Each question is presented as clinical case (in multiple choice question format), and can incorporate visual or audio support to contextualize the neuroanatomical content asked.
**Review & Results**

In the *Result Page* students can review their classification as well evaluate each question’s status (correct, wrong or missing).

The data from student performance are accumulated and summarized, enabling academic staff to analyze the students’ progress and knowledge.
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- The continuous evolution of the scientific knowledge in the medical field demands for doctors to incessantly update and certificate their knowledge and skills.

- The presented **study manager** aims to provide a new platform to maximize the learning process in neuroanatomy, and therefore be used as adjuvant for the **recertification** or **post-graduation** process in neurosciences or neurology as applied to clinical practice.

- The **Virtual quiz** added the possibility of handling the anatomical images in a way that improve the interaction between the user and the software.
• **Clinical Vignettes** allows student to handled the neuroanatomical correlation in order to apply this knowledge to the clinical practice.

• The *Review and results* menu has been added in order to improve the feedback to the user.

• The positive opinion **VIMU** gathered among students of our school encourages its introduction in Neuronatomy education scenario.
Recertification and post-graduation plays a undisputed role in medical education, and the use of technology has a privileged spot in the way that this can be achieved.
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Thank You

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