The e-Examination Ecosystem in Healthcare Education: Information and Process Models

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Background: High stake assessments are an important component in all stages of healthcare education that validate learners' clinical performance but may also inform and promote the learning process. Informatics has been a driver to transform paper examinations to digital examinations (e-examinations) but knowledge about their efficient and effective application in the context of healthcare assessment is still limited.

Objective: The aim of this study is therefore to investigate the main aspects of the examination process and information that may become more effective and efficient with the application of informatics.

Method: With the use of a deductive approach, we wish to study four cases of e-assessment and develop a conceptual model to standardize the e-examination process.

Results: Based on the four e-examination cases studied, we developed a common information model. To visualize the e-examination ecosystem we outlined different types of e-examination, the aspects composed in it, illustration of its processes, contextual components and stakeholders incorporated in it.

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