

Adoption of AI-chatbots to Enhance Student Learning Experience in Pre-clinical Medical Student in Phramongkutkiao College of Medicine

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Background

In the disruptive technology era, the use of Artificial Intelligence (AI) in education is rapidly adopted worldwide. One of the most popular AI technologies used to support learning and training activities is the chatbot system. The teaching and learning platform through an online classroom are applied during covid-19 pandemic. To increasing the student engagement and learning experience, the ai-chatbots is implement in pre-clinical medical students.

Summary of work

The chatbot based gamified exam management system was developed and implement to pre-clinical medical students. The quantitative data of the professional competence and digital intelligence were evaluated, including before and after using this learning innovation. The result showed that all professional competencies and digital intelligence were significantly increased.

Results

80-90 pre-clinical medical students were subjected to use ai-chatbot during the period of basic medical neuroscience I curriculum. The professional competence and digital intelligence were evaluated. The professional competence including (i) ethics and moral, (ii) knowledge, (iii) cognitive skills, (iv) interpersonal skills, and (v) numerical analysis, communication and information technology skills was increasing after applied an ai-chatbot. In addition, the digital intelligence including (i) digital citizen identity, (ii) privacy management, (iii) critical thinking, (iv) screen time management, (v) cyberbullying management, (vi) digital footprint, (vii) cybersecurity management and (viii) digital equity was also increasing after applied an ai chatbot.

Discussion and conclusion

An ai-chatbot applications in education is the powerful tools to drawing attention, quick access, motivation, engagement, allow multiple users, and immediate assistance. This implies that the frameworks for the development and implementation of ai-chatbots, as well as the design features and contents, must be improved. It is also necessary to have well-defined rules for using chatbots that are compatible with user ethics.

Take home message

The benefits of using ai-chatbots to educator should consider the defining appropriate principles that will support the creation and use of chatbot technology in education.



Digital intelligence before and after applied an ai-chatbot

