Explore the possibilities of ChatGPT for ICU digital diary in the context of ICU

Project overview

This project is a pioneering initiative aimed at exploring the possibilities of ChatGPT for ICU digitial diary and enhacing the implementation of the digital diary within the current workflow of ICU nurses at EMC. By integrating ChatGPT-based assistant in the digital diary, the project seeks to provide new insights into digital diary within ICU.

Key findings

Leveraging a multidisciplinary approach, the project amalgamates insights from nurse practices, interface design, and the introduction of ChatGPT technology. Drawing on meticulous literature review, direct observations, and interviews, the results from these activities highlighted nurses' need for patient information visualisation and guidance in their diary writing, and the possible application that ChatGPT could provide in the digital diary.

Final Design

Based on the insights from research activities, a web application - Patient Diary Toolkit - was designed and developed through three rounds of design iterations. There are basically four main functionalities in this design: reviewing the patient diary, adding messages, diary tracker and ChatGPT-based assistant supporting nurses' diary writing.

Conclusions

By introducing the ChatGPT-based assistant, the design combines ChatGPT's ability with the current work process of digital diary, which seems to be able to support ICU nurses' diary writing and the implementation of the digital diary more smoothly in the context of EMC. In short, the Patient Diary Toolkit is a good start to support non-experienced ICU nurses in diary writing and promote the implementation of the diary in the current nurses' workflow.

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