Chapter 6

# Bring Your Own Paper (BYOP) Involving ChatGPT to Enhance Traditional Chinese Medicine (TCM) Student Engagement in Pharmacology and Pathology

## ABSTRACT

*In this chapter, the authors present a practical application of ChatGPT in teaching pedagogy to improve traditional Chinese medicine student engagement in the subjects pharmacology and pathology. ChatGPT is a conversational AI model developed by OpenAI. It is based on the GPT (generative pre-trained transformer) architecture, specifically GPT-3.5, which is the third iteration of the GPT series. GPT-3.5 is a state-of-the-art language model that has been trained on a vast amount of text data from the internet. The authors presented a teaching plan that involve the use of ChatGPT. The authors bring the idea of "bring your own paper" (BYOP) that could help students and teachers to improve student critical thinking and does allow the use with student's own device (BYOD).*

## BACKGROUND

Up to this point, ChatGPT and AI have been able to create texts that, at least on the surface, appear to be well-written and creative. However, due to the nature of generation and synthesis, the process relies on templates that might not be flexible enough or contain references to sources that can be verified (Naumova, 2023). Moreover, several articles did raised ethical issues and asked for all stakeholder to develop set of code of ethics (Sallam, 2023; Ali & Djalilian, 2023).

In a relatively short period of time, ChatGPT has gained impressive interest from academics, research, and industry (Ray, 2023). An artificial intelligence-based chatbot, ChatGPT, was launched in November 2022 (Lo, 2023) and has been used to generate accurate differential medical diagnosis (Liu et al., 2023), research (Zhu et al., 2023) and teaching (Wardat et al., 2023). In The public and easy availability of knowledge will bring benefits to teachers and students. Students who are reluctant to ask question from their teachers can get help from ChatGPT. However, the beginning of ChatGPT era bring an enormous challenge to teachers. The teachers may worry that excessive use of ChatGPT may decrease the critical thinking of students. Therefore, teachers need to revisit their assessment methodology and innovate in their teaching and assessment pedagogy.

The current study involved mixed teaching pedagogy (Flipped teaching and Passive teaching). Flip teaching, also known as flipped learning or the flipped classroom model, is an instructional approach that reverses the traditional order of content delivery and homework assignments in a classroom setting. In flip teaching, students are introduced to new content or concepts outside of the classroom through pre-recorded lectures, videos, readings, or other resources, which they can access independently before attending the class. Passive teaching refers to a learning approach where individuals acquire knowledge or skills in a relatively passive manner, typically through observation or exposure to information without actively engaging in active participation or interaction. In passive learning, the learner is a recipient of information rather than an active participant in the learning process.

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