

Abstract Submission Form for AsiaSPEC Conference 2025

Introduction

Standardized patient (SP) training in Asia shares common features and holds potential to enhance regional medical education. Since OSCEs were formalized in Japan, ensuring SP training with standardization and continuity has gained importance, encouraging the use of AI-simulated physician videos. A ChatGPT-based patient chatbot has also been developed, with usability reports available¹). Globalization has heightened the demand for multilingual medical interview practice, supporting interactions with non-English-speaking healthcare professionals and patients. This study aimed to develop a multilingual AI-based physician chatbot for use in Asia.

Methods

Based on the "Skills and Attitudes Required for Clinical Participation and Evaluation in Japanese Clinical Clerkships," we created GPT prompts to simulate medical interviews in outpatient settings. The prompts were translated into 35 languages spoken across 48 Asian countries to develop a simulated physician GPT. Medical interview simulations in Japanese, English, Chinese, and Korean were conducted using text-based interactions to validate feasibility.

Results

Due to translation difficulties, Bhutanese Dzongkha was not supported, and Malay was restricted from public release, allowing for general access to the simulated physician chatbot in 33 languages²). Text-based interactions with the simulated physician GPT in Japanese, English, Chinese, and Korean were generally smooth, with no significant issues reported.

Conclusion/Discussion

We developed and publicly released a simulated physician GPT in 33 languages across Asia and validated its feasibility for text-based interactions in four languages. Future efforts should focus on validation of text-based interactions in additional languages, as well as testing the feasibility of voice-based interactions, with evaluations by native speakers of each language.

References

- 1) Medical Interviews GPT for 37 Symptoms available at https://docs.google.com/document/d/1u6bi9--unZzee_hF3ycJIK3_cLMI6x3uNBrgUw2svXc/edit?usp=sharing last accessed on 2024/11/04
- 2) Simulated physician GPT Asian 33 languages available at <https://docs.google.com/document/d/1l-Ztt4y2sARfbsKliJJVK0skFc8sINzoBynaWVXgOhw/edit?usp=sharing> last accessed on 2024/11/04

Word limit: 300 words