

We are inviting you, as a health professional authorized to prescribe antibiotics, to participate in a research study that aims to improve antibiotic prescribing practices using an innovative artificial intelligence-clinical decision support system (AI-CDSS). This study involves the comparison of antibiotic prescribing decisions with and without artificial intelligence (AI) support, with the goal of enhancing physician confidence and efficiency in prescribing.

Why have I been invited?

You have been invited because you are a licensed health professional with at least one year of clinical experience in prescribing antibiotics. You are among a selected group of health professionals from Tri-Service General Hospital and its affiliated centers who are participating in this study.

Do I have to take part?

No. Participation in this study is completely voluntary. You may choose not to participate, or you can withdraw from the study at any time without giving a reason. Your decision will not affect your current or future relationships with Tri-Service General Hospital.

What will happen if I take part?

Upon agreeing to participate, you will be randomly assigned to one of two groups. One group will use the AI-CDSS to assist in antibiotic prescribing decisions, while the control group will continue with standard prescribing practices. You will undergo a brief training session on how to use the AI-CDSS to ensure effective utilization of the system.

The study will track your prescribing decisions and evaluate the impact of the AI tool on your confidence and efficiency. Follow-up assessments will be conducted on days 3, 5, 7, and 14 after treatment initiation to monitor the outcomes of the prescriptions and gather feedback on your experience using the AI tool.

Are there any expenses or payment involved?

No, there are no payments involved for participating in this study. However, any expenses incurred due to participation will be reimbursed.

All the information you provide during this study will be kept strictly confidential.

This study is being conducted at Tri-Service General Hospital, and the results may significantly influence future antibiotic prescribing practices. Your participation will contribute to our understanding of how AI tools can assist in clinical decision-making and potentially lead to better patient outcomes and reduced antibiotic resistance.

If you are interested in participating or have any questions, please contact the study coordinator using the details provided below.

Thank you for considering this opportunity to contribute to important research in antibiotic prescribing practices.

Contact Details:

Name: Dr. Hung-Sheng Shang

Email: iamkeith@mail.ndmctsggh.edu.tw

Phone: +886 920713130

Address: No. 325, Sec. 2, Chenggong Rd., Neihu Dist., Taipei City, Taiwan, 114202