

CONSENT FOR PARTICIPATION IN A RESEARCH STUDY

YALE UNIVERSITY

Study Title: Trust and Usefulness of Machine Learning Risk Stratification Tool for Acute Gastrointestinal Bleeding using the Technology Acceptance Model

Principal Investigator (the person who is responsible for this research): Dennis Shung MD
MHS PhD

Research Study Summary:

- We are asking you to join a research study.
- The purpose of this research study is to measure usability, attitudes, and provider trust when interacting with a machine learning algorithm
- Study activities will include: an educational module and a pre and post-survey
- Your involvement will require **30-60 minutes**.
- There may be some risks from participating in this study, including potential stress from navigating a clinical scenario and a possible loss of confidentiality
- The study may have benefits to you, including education on identifying and risk stratifying GI bleeds and experience interfacing with a machine learning algorithm
- Taking part in this study is your choice. You can choose to take part, or you can choose not to take part in this study. You also can change your mind at any time. Whatever choice you make will not have any effect on your relationship or status with Yale New Haven Health.

Why is this study being offered to me?

We are asking you to take part in a research study because you are a physician who is involved in the care of patients and could be using machine learning tools in clinical assessment in the future. We are looking for approximately 85 participants to be part of this research study.

Who is paying for the study?

This is funded by Yale School of Medicine through the Human+Artificial Intelligence in Medicine Lab at Yale.

What is the study about?

The purpose of this study is to measure usability, attitudes, and provider trust when interacting with the machine learning algorithm in determining the risk that patients will require hospital-based intervention.

What are you asking me to do and how long will it take?

If you agree to take part, your participation in this study will involve an educational module simulating the use of a machine learning based risk assessment with simulated cases of acute gastrointestinal bleeding, a pre-survey and a post-survey with questions adapted from the Technology Acceptance Model for clinical practice. The survey has 40 questions on usability, attitudes, usefulness, behavioral intentions, and trust. We think that the study will take **30-60 minutes** of your time.

Are there any costs to participation?

You will not have to pay for taking part in this study. The only costs may include transportation and your time coming to the study visits.

Will I be paid for participation?

You will not be paid for taking part in this study.

How will you keep my data safe and private?

All of your responses will be held anonymously. Only the researchers involved in this study and those responsible for research oversight (such as representatives of the Yale University Human Research Protection Program, the Yale University Institutional Review Boards, and others) will have access to any information that could identify you that you provide.

When we publish the results of the research or talk about it in conferences, we will not use your name. We will share information about you with other researchers for future research but we will not use your name or other identifiers.

Who should I contact if I have questions?

Please feel free to ask about anything you don't understand.

If you have questions later or if you have a research-related problem, you can call the Principal Investigator at 203-785-1345

If you have questions about your rights as a research participant, or you have complaints about this research, you call the Yale Institutional Review Boards at (203) 785-4688 or email hrpp@yale.edu.