



PARTICIPANT CONSENT DOCUMENT

For the Optional Interview Session

Title of Study: A usability study to assess the clinical utility of artificial intelligence and explainable artificial intelligence systems on brain tumor classification prediction tasks.

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1. Invitation and Study Purpose

We invite you to an optional online **post-survey interview**. The interview will last for 20-30 min. This is a one-on-one, semi-structured interview where you will be talking about your experience, requirements, identified weakness of using such an AI system in the study survey. The interview is to gain an understanding of your specific requirements and needs for the future AI system. The interview will be conducted remotely through an end-to-end encrypted video conferencing platform of SFU Zoom. The interview session will be **video recorded** to make sure we don't miss what you say. Some of your answers in the interview **may be directly quoted in the research publication**. Your name will not appear with these quotes. In case you may feel uncomfortable about answering some of the questions, **you do not need to answer those that you don't want to, and you don't have to explain to us.**

Voluntary Participation

Your participation is voluntary. You have the right to refuse to participate in this study. You should not feel pressured to participate because of an existing relationship with the contacted colleague or the research team. If you decide to participate, you may still choose to withdraw from the study at any time without any negative consequences to the education, employment, or other services to which you are entitled or are presently receiving. To withdraw from the interview, you can simply leave the Zoom meeting. Your data collected will be removed from the study should you request it.

Potential Benefits

Although the study will not provide direct immediate benefits to you, the findings from the study should result in improved knowledge and understanding from healthcare professionals to inform the future design of AI systems that assist healthcare professionals' work.

Potential Risks

There are no foreseeable risks to participants or researchers. You will be reminded in the interview not to reveal any of your specific patients' information that can cause the patient to be traceable in the study.

The interview is hosted by an end-to-end encrypted video conferencing platform Zoom. Zoom is a US company, and as such, is subject to the USA Patriot Act and CLOUD Act. These laws allow government authorities to access the records of host services and internet service providers. By choosing to participate, you understand that your participation in this study may become known to US federal agencies.

Confidentiality

Your confidentiality will be respected. You may choose to have personally identifiable information (such as your face in a video) removed or obfuscated. If you do not want us to record your video then we will only record audio after your consent. If you don't want your face to appear, you can simply advise the researcher and then turn your camera off. Data files are recorded and saved using a participant code without any personally identifiable information. All records will be stored in a secure password-protected server at Simon Fraser University accessible only by the research investigators. No identifiable information will

appear in publications or presentations of this study. We retain the data for five years and will destroy all the records afterwards.

For the interview data, we will be using the online transcription service, such as rev.com or temi.com, to transcribe the audio recording of the interviews. Those transcription services are widely used transcription services in Canada and all transcribers sign a confidentiality agreement. **Please be aware that the data hosted on those transcription services are not in Canada.** We will not include any identifying information about the participants in the audio. The transcribing service usually deletes the files after transcription, but we will make an explicit request for this deletion to happen. We will delete the audio file after we receive successful transcription.

If you choose to contact the investigators about this study, we will not share your personal information, including your email address, with anyone. We will make our best effort to maintain the confidentiality of your communication with us but be aware that email is not a secure means to share confidential information.

Re-contact

At the end of the study interview session, we will ask for your approval to be re-contacted after the study session. We will re-contact you in case we require clarifications regarding any of the responses provided by you, and when the primary report or study publication draft is made available, so that you can provide feedback on the findings or results of the research.

Dissemination of Results

The primary manner to disseminate the study results is through manuscripts submitted for peer-review publications and conference presentations at various research communities in medicine or artificial intelligence. No personally identifiable information will be shared during the dissemination of results.

Participant Consent

Taking part in this study is entirely up to you. You have the right to refuse to participate in this study. If you decide to take part in the study, you may choose to withdraw from the study at any time without giving reasons. You understand the risks and benefits of your participation in this study.

- Your participation in this study is voluntary.

- You can decide to stop at any time, even part-way through the study for whatever reason.
- If you decide to stop participating, there will be no consequences to you.
- If you decide to stop, we will ask you if you would like us to destroy the collected data from this study.
- If you do not want to answer some of the questions you do not have to, but you can still be in the study.
- You do not waive any of your legal rights by participating in this study.
- If you have any questions about this study or would like more information you can call or email Dr. Ghassan Hamarneh at the contact information on the first page.

If you have any concerns or complaints about your rights as a research participant and/or your experiences while participating in this study, you may contact Dr. Jeffrey Toward, Director, Office of Research Ethics, Simon Fraser University, British Columbia, Canada, at jtoward@sfu.ca or +1 778-782-6593.

Taking part in this study is entirely up to you. You have the right to refuse to participate in this study.