

# Assertiveness-based assistant in breast cancer diagnosis - Acceptance

One of the most promising areas of health innovation is the application of Artificial Intelligence (AI), primarily in medical imaging. Diagnosis of breast cancer disease requires the combination of many types of data, including patient and family histories, and imaging results. Clinical Decision Support Systems (CDSSes) must be able to combine these data types into a seamless system. Intelligent agents, an approach that has been used chiefly in other domain applications, provides a structure that can combine, not only data types, but also a variety of reasoning methodologies in the same decision support system. Clinicians are included as an agent in the system and can interact directly with any of the components. However, intelligent agents are raising concerns about usability, efficacy, and workload which we are trying to study through this user test.

The purpose of this questionnaire is to understand how clinicians of different categories of professional experience perceive and perform when using intelligent agents with different levels of assertiveness and behaviours. The study takes place within the scope of BreastScreening ([breastscreening.github.io](https://breastscreening.github.io)) and MIMBCD-UI ([mimbcd-ui.github.io](https://mimbcd-ui.github.io)) research work by João Fernandes at Instituto Superior Técnico ([tecnico.ulisboa.pt](https://tecnico.ulisboa.pt)), under the scientific supervision of Prof. Jacinto Nascimento and Francisco Calisto. The study involves an international collaboration network of partner institutions: Instituto Superior Técnico, University of Adelaide and University of Queensland.

The study complies with the provisions of the General Data Protection Regulation [Regulation (EU) 2016/279 of the European Parliament and of the Council of 27 April 2016], and follows the recommendations of the Declaration of Helsinki for research. There are no risks and benefits associated with your participation. Your participation is completely voluntary; you can give up at any time and without having to provide any justification, just "leave" without completing the tasks. In this case, the data will not be recorded.

The study is not anonymous and the data will be saved. The Zoom session will be recorded. The data will only be accessible to authorized researchers and will only be used for scientific research purposes.

For any additional information, you can contact ISR-Lisboa and ITI / LARSyS, through the following email:

[joao.g.m.fernandes@tecnico.ulisboa.pt](mailto:joao.g.m.fernandes@tecnico.ulisboa.pt)

\* Indicates required question

1. Informed Consent \*

By accepting and continuing, you confirm that you have been duly informed about the study, that you understand the information that has been transmitted to you and that you agree to participate in it.

Check all that apply.

☐ Accept and continue

Conclusion

Thank you very much for your participation in this survey. Your participation is very important to help us understand the clinical perception of AI systems and understand how intelligent agents can help to support the healthcare workflow.

2. Please share any other ideas, opinions or concerns that you might have about AI systems and intelligent agents.

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