

AI-POCUS study

AI-guided point of care ultrasound to diagnose blood clots in primary care

Why is this research needed?

Standard deep vein thrombosis (DVT) diagnosis is complex, it requires laboratory analyses, a risk assessment tool, and ultrasound and it is typically performed in secondary care (hospitals or specialised services).

This process takes a lot of time and resources, making it hard for patients who are most at risk.



DVT is a blood clot in a deep vein, usually in the leg. It can be fatal if it breaks off and travels to the lungs



Use of artificial intelligence (AI)

Diagnosing DVT with help of an AI app called ThinkSono could be a game-changer:

- it would enhance diagnostic capabilities
- potentially reduce secondary care referrals



ThinkSono app

This app helps healthcare staff without ultrasound training to collect DVT exam results. The exams take less than 15 minutes and only need a portable ultrasound device and a smartphone.



How public members are involved

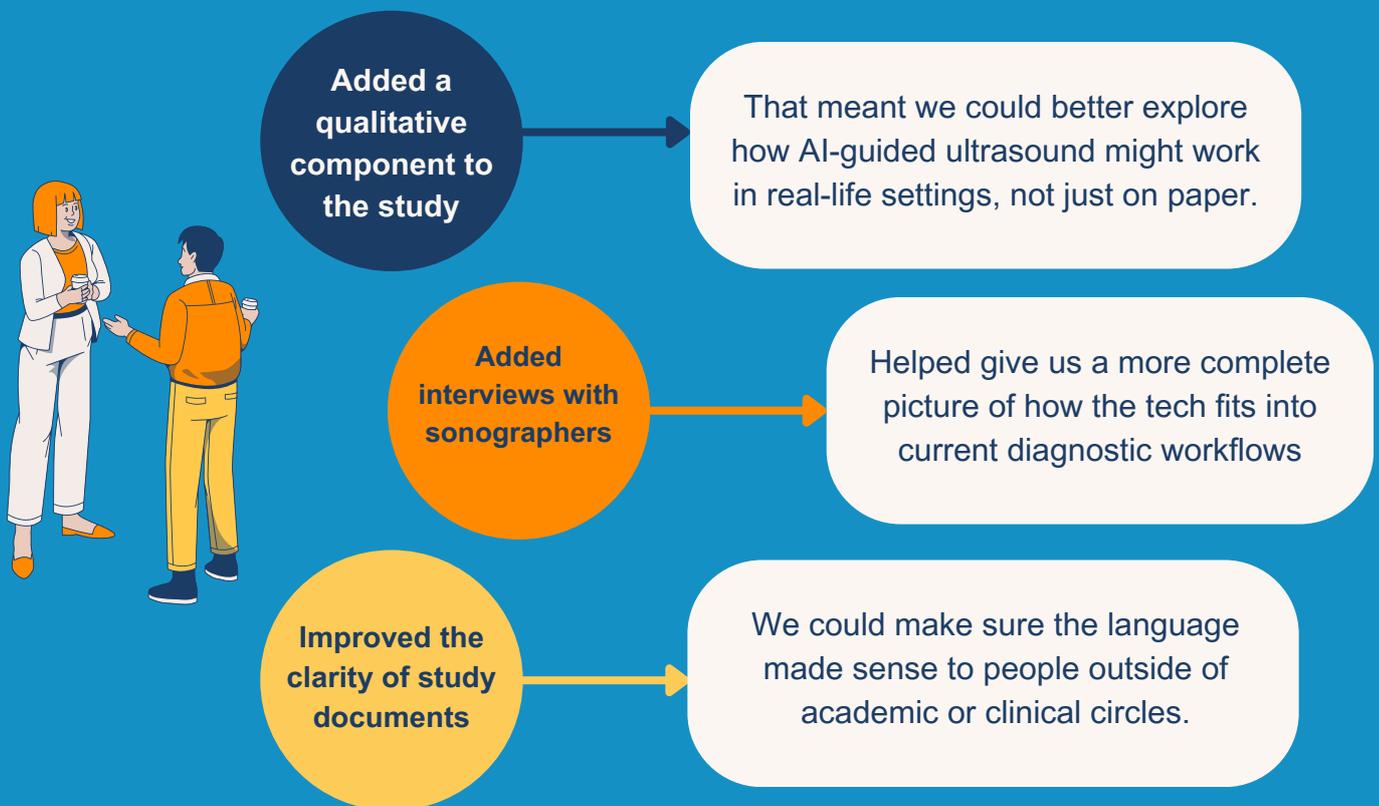
The panel advising this project consists of nine public contributors, meetings are usually online and in groups but sometimes members prefer to meet one to one.

Using their own experiences with deep vein thrombosis, some members volunteered to help shape interview questions and participated in mock interviews



How public members helped this research

The public members input shaped this project, their advice led to **valuable** changes:



“Being part of this research was really rewarding. I felt my voice was genuinely valued. I liked the flexibility of online meetings, and the team was open to feedback. The mock interview sessions were a highlight. Some of the technical AI parts were a bit hard to follow at first -more background would have helped- but overall, I felt listened to, respected, and part of something meaningful.” (public contributor)



Overall, **involving members of the public** has been one of the most **rewarding** parts of the project. It's **helped** make the research **stronger**, more **relevant**, and more **grounded in real-world healthcare** - Kerstin Nothnagel (Lead researcher)