**Participant Information Sheet – Patient sheet**

**The title of the research project**

Evaluating AI-Driven XR Healthcare Simulation Using the DASEX Framework: A Pilot Validation Study.

**Invitation to take part**

You are being invited to take part in a research project. Before you decide it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish. Ask us if there is anything that is not clear or if you would like more information. Take time to decide whether or not you wish to take part.

**Who is organising/funding the research?**

The researcher is:

Name: David Dasa a PhD Researcher

Bournemouth University

Faculty of Science and Technology

PhD is a match funded PhD by BU and i3 simulations.

**What is the purpose of the project?**

This study aims to evaluate an AI-driven Extended Reality (XR) healthcare simulation using the **DASEX framework** — a new tool for assessing clinical realism, adaptation, safety, engagement, teamwork, and explainability in simulation-based education.

We will gather feedback from healthcare learners immediately after using the XR simulation, and again after a short follow-up period, to explore how perceptions change over time. This will help us validate the DASEX framework and improve the XR prototype.

**Why have I been chosen?**

If you have expressed interest in participating by contacting the researcher. Thank you for your interest!

Please keep in mind the following information.

Reasons for inclusion:

* Adults (18+ years old).
* Enrolled in a healthcare-related programme at Bournemouth University.
* Able to use a VR headset and complete study tasks in English.

Reasons why you may not be able to participate:

* Severe motion sickness or intolerance to VR.
* Significant vision, hearing, or motor impairments that would prevent participation (unless adjustments can be made).
* Any medical condition for which VR participation could pose a risk.

**Do I have to take part?**

No — participation is entirely voluntary. You may withdraw at any time without giving a reason, and your decision will not affect your studies in any way.

**Can I change my mind about taking part?**

Yes, you can stop participating in study activities at any time and without giving a reason.

You can withdraw from participation at any time and without giving a reason, you can retain this information sheet for your reference, simply decline to sign the participant agreement form.

**If I change my mind, what happens to my information?**

After you decide to withdraw from the study, we will not collect any further information from or about you.

As regards to the information we have already collected before this point, your rights to access, change or move that information are limited. This is because we need to manage your information in specific ways in order for the research to be reliable and accurate. Further explanation about this is in the Personal Information section below.

**What would taking part involve?**

1. **Orientation (10–15 minutes)** – Introduction to VR equipment and study aims.
2. **Simulation (15–20 minutes)** – You will use the AI-driven XR simulation to complete a clinical scenario.
3. **Immediate Feedback (15 minutes)** – You will complete:
   1. The DASEX checklist
   2. NASA-TLX cognitive load survey
   3. System Usability Scale (SUS)
   4. A short open-ended questionnaire
4. **Follow-Up (Optional, 3 weeks later)** – An email survey (5–10 minutes) about any lasting impressions or applications to your learning.

The total time commitment for the initial session is approximately 45–60 minutes.

**Will I be reimbursed for taking part?**

There is no payment for participation, but your input will contribute to developing more effective simulation training tools.

**What are the advantages and possible disadvantages or risks of taking part?**

Some people may experience mild motion sickness from VR. Breaks will be available at any point. A facilitator will be present to provide technical and practical support.

**What type of information will be sought from me and why is the collection of this information relevant for achieving the research project’s objectives?**

**We will collect:**

* Demographics (age, gender, programme of study, level of study).
* DASEX checklist responses.
* NASA-TLX cognitive load ratings.
* SUS usability scores.
* Written feedback on the simulation.
* Follow-up survey responses.

No identifiable personal data will be linked to your feedback.

**Will I be recorded, and how will the recorded media be used?**

There are no identifiable photographs or images produced as part of this study.

**How will my information be managed?**

Bournemouth University (BU) is the organisation with overall responsibility for this study and the Data Controller of your personal information, which means that we are responsible for looking after your information and using it appropriately. Research is a task that we perform in the public interest, as part of our core function as a university.

Undertaking this research study involves collecting and/or generating information about you. We manage research data strictly in accordance with:

* Ethical requirements and
* Current data protection laws. These control use of information about identifiable individuals, but do not apply to anonymous research data: “anonymous” means that we have either removed or not collected any pieces of data or links to other data which identify a specific person as the subject or source of a research result.

BU’s Research Participant Privacy Notice sets out more information about how we fulfil our responsibilities as a data controller and about your rights as an individual under the data protection legislation. We ask you to read this Notice so that you can fully understand the basis on which we will process your personal information.

Research data will be used only for the purposes of the study or related uses identified in the Privacy Notice or this Information Sheet. To safeguard your rights in relation to your personal information, we will use the minimum personally-identifiable information possible and control access to that data as described below.

*Publication*

You will not be able to be identified in any external reports or publications about the research without your specific consent.

Research results will be published in an academic journal if the opportunity becomes available.

*Security and access controls*

BU will hold the information we collect about you in hard copy in a secure location and on a BU password protected secure network where held electronically.

Personal information which has not been anonymised will be accessed and used only by appropriate, authorised individuals and when this is necessary for the purposes of the research or another purpose identified in the Privacy Notice. This may include giving access to BU staff or others responsible for monitoring and/or audit of the study, who need to ensure that the research is complying with applicable regulations.

There is no personally identifiable data collected as part of this research.

*Sharing your personal information with third parties*

None

*Further use of your information*

The information collected about you may be used in an anonymous form to support other research projects in the future and access to it in this form will not be restricted. It will not be possible for you to be identified from this data.

*Keeping your information if you withdraw from the study*

If you withdraw from active participation in the study we will keep information which we have already collected from or about you, if this has on-going relevance or value to the study. This may include your personal identifiable information. As explained above, your legal rights to access, change, delete or move this information are limited as we need to manage your information in specific ways in order for the research to be reliable and accurate. However, if you have concerns about how this will affect you personally, you can raise these with the research team when you withdraw from the study.

You can find out more about your rights in relation to your data and how to raise queries or complaints in our Privacy Notice.

*Retention of research data*

**Project governance documentation**, including copies of signed **participant agreements**: we keep this documentation for a long period after completion of the research, so that we have records of how we conducted the research and who took part. The only personal information in this documentation will be your name and signature, and we will not be able to link this to any anonymised research results.

Research results:

As described above, during the course of the study we will anonymise the information we have collected information about you as an individual. This means that we will not hold your personal information in identifiable form after we have completed the research activities.

You can find more specific information about retention periods for personal information in our Privacy Notice.

We keep anonymised research data indefinitely, so that it can be used for other research as described above.

**Contact for further information**

If you have any questions or would like further information, please contact:

Researcher: David Dasa Email: ddasa@bournemouth.ac.uk

Supervisor: Professor Wen Tang Email: [wtang@bournemouth.ac.uk](mailto:wtang@bournemouth.ac.uk)

Co-Supervisor: Dr Michele Board – [mboard@bournemouth.ac.uk](mailto:mboard@bournemouth.ac.uk)

Co-Supervisor: Dr Ursula Rolfe – [urolfe@bournemouth.ac.uk](mailto:urolfe@bournemouth.ac.uk)

*In case of complaints*

Any concerns about the study should be directed to Professor Tiantian Zhang

Deputy Dean for Research & Professional Practice Faculty of Science and Technology, Bournemouth University by email to [researchgovernance@bournemouth.ac.uk.](mailto:researchgovernance@bournemouth.ac.uk)

**Finally**

If you decide to take part, you will be given a copy of the information sheet and a signed participant agreement form to keep.

Thank you for considering taking part in this research project.