



Baptiste Vasey  
Nuffield Department of Surgical Sciences  
John Radcliffe Hospital, Headington, OX3 9DU  
[baptiste.vasey@nds.ox.ac.uk](mailto:baptiste.vasey@nds.ox.ac.uk)



## **Study on clinicians' support need when facing postoperative complications**

### **PARTICIPANTS INFORMATION SHEET**

Full Title: Clinicians' cognitive process and desired computerised support needs when facing postoperative complications on the ward – a qualitative study

#### **What is the purpose of this study?**

The objectives of this study are 1) to qualitatively describe the perceived cognitive challenges faced by clinicians when attending patients presenting with postoperative complications and 2) to produce a list of desired support modalities which could be provided by an artificial intelligence based clinical decision support system.

#### **Why have I been approached?**

You have been invited as a subject matter expert, given your medical qualification and exposure to surgical complications in your clinical practice. Participants will be recruited in two groups based on clinical experience: 1) junior clinicians (CT1 to ST4) and 2) senior clinicians (ST6 upward).

#### **Do I have to take part?**

No. You can refuse the invitation or withdraw your consent to participate at any point. However, we would be very grateful to you if you agree to take part and share your experience with us.

#### **What will happen to me if I take part?**

You will participate in one recorded 30 to 40 minutes virtual interview conducted via a video conference software. The interview will be semi-structured with leading questions written in advance and being the same for all participants in the same experience group. Your answers will then be transcribed, and the recording of the interview deleted.

**Are there any risks?**

This study has been classified as service improvement by the Oxford University study classification group, hence waiving the need for ethics review.

The risk for participants is very low. Issues related to data breaches and confidentiality cannot be totally excluded. However, the research team took this aspect very seriously and designed a data handling procedure to minimize this risk.

**What are the possible benefits of taking part?**

Your answers will potentially inform the future development of decision support systems in surgical wards, which you could benefit from in the mid- to long-term.

**Will my taking part in the study be kept confidential?**

Your name will not be cited in any publication. Personal data (such as level of training and hospital site) will only be presented in an aggregated manner. Some individual quotes might be used anonymously.

**Will I receive any form of compensation?**

There will be no financial compensation for taking part in the study. Participation certificates can be obtained on request.

**What will happen to my data?**

The recording of the interview will be kept on an encrypted disk for no more than 1 month. Your answers will be transcribed and pseudonymized. The unique identifier keys dictionary will be held on an encrypted disk. Data backups will be performed through the Oxford University backup service and on the main investigator's private (offline) hard drive. The pseudonymized data will be analysed by two members of the research team. The University of Oxford and the main investigator's supervisors could have access to the collected data on request.

**What will happen if I don't want to carry on with the study?**

Every participant has the right to withdraw consent at any time. If consent is withdrawn between the beginning of the interview and ten working days after the end of the interview, all collected data will be deleted. If consent is withdrawn later than this point, personal data will be deleted but the anonymous content of the interview will remain part of the analysis.

**What will happen to the results of the study?**

The results of the study will be published in a peer-reviewed journal and be part of a DPhil thesis.

**Who is organising and funding the study?**

BV is a DPhil student with the Nuffield Department of Surgical Sciences, University of Oxford, and is affiliated with the Critical Care Research Group (Nuffield Department of Clinical Neurosciences, University of Oxford) and the Computational Health Informatics Lab (Department of Engineering Science, University of Oxford).

No specific funding was received for this study. BV is supported by a Berrow Foundation Lord Florey scholarship.

**Who has reviewed this study?**

The Oxford University Clinical Trials and Research Governance classification group considered this project as service improvement and waived the requirement for ethical approval.

**What happen if I have any question or concern about the study?**

You can contact the main investigator at any time:

Baptiste Vasey  
Nuffield Department of Surgical Sciences  
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[baptiste.vasey@nds.ox.ac.uk](mailto:baptiste.vasey@nds.ox.ac.uk)