

Workshop Participant Information Sheet

Project: Designing Personal Heating Wearable Devices for Limb Coldness

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Dear participant,

We are seeking participants suffering from *cold intolerance* to participate in this research project, and so we are contacting people who may suffer from this condition. Participation is entirely voluntary and even if you agree to participate now, you can withdraw at any time without any consequences. This information sheet aims to tell you about the study so that you can decide whether to participate.

Background of research: This research study is being conducted as part of a PhD within the School of Computer Science and Statistics of Trinity College Dublin in collaboration with the Division of Media Technology and Interaction Design of KTH Royal Institute of Technology, Stockholm. The goal of this research is to understand how patients are impacted by *cold intolerance*, how they cope with the problem, and opinions on potential technologies to help. The collected data will be used for scientific purposes may inform the design of technologies that may help with this problem. We are also interested in the ways people prototype with interactive technologies close to their body specifically wearable, heat-generating components such as electric heating pads and Peltier elements.

Procedures and duration:

This workshop will take 2-3 hours including a tea & coffee break. Your attendance at this workshop is voluntary. You have the right to leave at any time without consequence. If you choose to attend the workshop, the researcher will ask you to sign a consent to audio/video the workshop. This will be used for analysis, and still images with no faces appearing could be used in scientific publication. We expect some people might be happy for photos in which they are identifiable to be used in research dissemination, if you would be happy with this then you can additionally consent to this, but it is not necessary in order to participate. Then you will be divided into smaller groups 3-5 people, and discuss your cold intolerance coping strategies, if you are using any of commercial generating-heat wearable devices and blankets, what are the positives and negatives things about using them, what do you think about using personal wearable devices for limb coldness and what you would consider to be an ideal wearable device. Following this, materials for prototyping, including fabrics, existing wearable and heating devices will be provided and you and your group will be able to explore ideas. Short mental activities such as doing a body scan (closing your eyes and bringing your attention to bodily sensations) will be used to help explore the materials.

Incentives

If you participate, you will be offered a £20 gift voucher in appreciation of your time. If you wish to receive a voucher you will be required to complete and sign a standard TCD voucher log to satisfy Revenue requirements. This log will be kept separate from your data and will not be used for any other purpose than satisfying our accounting obligations.

Risks and benefits: This study presents no known risks. We will have some materials which generate mild amounts of heat to use to spur discussion during workshop activities, but you will not be testing these devices. Facilitators will also ensure these devices are not left on unattended and so we do not anticipate any risks associated with them. You will not benefit directly from participating in this research apart from the opportunity to receive a voucher. However, you are contributing for a better understanding of the problem of cold intolerance and potential solutions to this problem.

Anonymity: All the results of the workshop that will be used in publication will be anonymised. Consent forms will be stored separately to study data in a locked filing cabinet. Electronic copies of the data resulting from the workshop will be kept on a secure file server in Trinity College. Only the immediate research team (researchers at Trinity College Dublin and KTH Royal Institute of Technology, Stockholm) will have access to the data. Paper records will be disposed of following completion of the PhD, and electronic records will be kept by the supervisor for 10 years for research integrity.

Debriefing: The results of the study will be published in appropriate scientific venues, and copies of the research will be made freely available to participants.

Conflict of Interest: There is no conflict of interest.

Publication: The results of this research are expected to be published. All the individual results will be aggregated anonymously, and research reported on aggregate results.

Queries:

If you have any questions about this research, you can ask me. I will make myself available to clear up any doubts through email. You are also free to contact my supervisor to seek further clarification and information:

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Gavin Doherty (Supervisor) Email: gavin.doherty@tcd.ie