



Title: Evaluating a Community-Based Digital Health Intervention with Air Quality Warnings for Non-Communicable Diseases Prevention in Rural Indonesia

Dear Sir/Madam,

Currently, we are conducting research titled "Evaluating a Community-Based Digital Health Intervention with Air Quality Warnings for Non-Communicable Diseases Prevention in Rural Indonesia" to generate evidence to inform targeted public health interventions and environmental policies. Before you decide whether to take part, it is important for you to understand why the research is being conducted and what it will involve. Please take time to read the following information carefully before deciding whether to take part and discuss it with others if you wish. Please ask if anything is unclear or if you would like more information. Thank you for taking the time to read this sheet.

About the research

1. Who will conduct the research?

This study is a collaboration between researchers from Universitas Brawijaya (Indonesia), the University of Manchester (UK), Imperial College London (UK) and The George Institute for Global Health (India).

2. What is the purpose of the research?

This study aims to evaluate the use of a digital health application (SMARTHealth Climate App) to improve people's health from the effects of air pollution, especially among those with heart disease (cardiovascular disease, or CVD) and lung disease (chronic obstructive pulmonary disease, or COPD). To do this, we will involve community health workers (Kader) and doctors who will assess and follow up participants with CVD and/or COPD using SMARTHealth Climate App. In addition, small air quality sensors will be placed in the villages to track pollution levels, and a warning system will send alerts to people's phones and to Kader, with simple tips to help reduce exposure to air pollution, such as staying indoors or wearing a mask.

3. Why have I been invited?

You have been invited to participate because you are involved in the SMARTHealth Climate program, including taking part in COPD and CVD screening and receiving follow-up care.

4. Do I have to take part?

It is up to you to decide whether or not to take part. If you do decide to take part you will be given this information sheet to keep and be asked to sign a consent form. If you decide to take part you are still free to withdraw at any time and without giving a reason.

5. What do I have to do?

If you agree to be involved in this research, we will ask you to participate in an in-person focus group discussion. The facilitator will ask you questions about your opinion related to your



participation in the SMARTHealth Climate program, including engaging with the Kader and healthcare professionals, the benefits of the program in managing your conditions, as well as the challenges you face, and your suggestions for improving the program. It should take approximately 60-90 minutes to complete the focus group discussion. There are no right or wrong answers to the focus group discussion – we are interested in your experience as community members affected by plastic waste and plastic waste burning in the region. The discussion will be audio-recorded and transcribed by the researcher in SMARTHealth Climate program. Both audio recordings and transcripts will be maintained by the research team.

6. What are the possible disadvantages and risks of taking part?

We don't expect the focus group discussion to cause any harm or discomfort, however if you experience feelings of distress as a result of participation you can stop participating at any time. You can also tell a member of the research team and they will provide you with assistance.

7. What are the possible benefits of taking part?

There will be no direct benefit to you from taking part in this research; however, the data will contribute to a better understanding of NCDs and environmental change.

There will be no payment for taking part in this study. Reasonable travel expenses for travel to and from the focus group discussion site can be reimbursed to you on presentation of the receipt for travel.

8. What if I want to withdraw from the research study?

If you do consent to participate, you may withdraw at any time. You can do this by asking the facilitator or chief investigator of the research. If you withdraw from the research, we will destroy any information that has already been collected. The information you provide is personal information for the purposes of the Indonesian Privacy and Personal Information Protection Act 2022 Number 27 (IND) and the General Data Protection Regulation (GDPR).

9. What if something goes wrong?

If you are harmed by taking part in this research project, there are no special compensation arrangements. If you are harmed due to someone's negligence, then you may have grounds for a legal action. Regardless of this, if you wish to complain, or have any concerns about any aspect of the way you have been treated during the course of this study then you should immediately inform the Chief Investigator, Prof Dr Sri Andarini (Telephone: +62-0816554610, Email: sriandarini@yahoo.com or sriandarinfk@ub.ac.id). If you are still not satisfied with the response, you may contact the Imperial College Research Governance and Integrity Team (rgitcoordinator@imperial.ac.uk).

10. What will happen to the results of the research study?

If you agree to participate in the focus group discussion, your responses will be kept confidential, remain completely anonymous, and be accessible only to the researchers. All data collected will be kept on a password-protected computer or in a locked storage cabinet in a



secure room in the Faculty of Medicine, Universitas Brawijaya, not available to general access. This data will be retained for 10 years after the project's completion.

The research team intends to use the findings in reports and research publications. You will not be identified in any way when we share the findings of this research with others. If you would like to know the results, you can let the research team know by emailing Sri Andarini at sriandarini@ub.ac.id. We will use these contact details only to send you the research results.

11. Who is organising and funding the research?

The study is sponsored by Imperial College London and funded by the National Institute for Health Research (NIHR - NIHR203247)

12. Who has reviewed the study?

This study was given a favourable opinion by Imperial College Research Ethics Committee (ICREC). It has also received ethical clearance by the Research Ethics Review Committee Universitas Brawijaya.

13. Contact for Further Information

When you have read this information, a member of the research team will be available to discuss it with you further and answer any questions you may have. If you would like to know more at any stage during the study, please feel free to contact:

Name	Prof. Sri Andarini
Position	Chief investigator
Telephone	+62-0816554610
Email	sriandarini@yahoo.com atau sriandarini@ub.ac.id

Thank you for taking the time to read this study information sheet.