

PATIENT INFORMATION SHEET

MR Imaging abnormality Deep-learning Identification

Distinguishing normal versus abnormal head MRI scans using machine learning techniques

We invite you to take part in a research study

- Before you decide to take part, it is important you understand why the research is being done and what it will involve.
- You are free to decide whether or not to take part in this study. Whether or not you do will not affect the care you receive from your doctors.

The study is a collaboration of the NHS and King's College London

- The research study is sponsored by King's College Hospital NHS Foundation Trust (KCH) and King's College London (KCL).

We are trying to improve the care of patients undergoing scans for research purposes

- We are developing a computer program to automatically identify abnormalities on MRI scans of the brain. This would be extremely useful in treatment and assessment of patients.
- To do this, we plan to let the computer program learn from patient data obtained for other purposes, such as that obtained during routine clinical work.

We would like to use your medical data

- Since we only plan to use your routine data (specifically MRI images) you will NOT be required to attend any extra appointments or have any extra tests.
- Your data may be used in the future for similar research in an anonymised form. This would motivate more research in this area.
- The computer program may be developed into a product for use at this and other institutions for patient benefit and further research.

The risk and benefits

- **No identifiable information will leave the hospital site, and the final database will not contain any personal information.** If you choose to consent electronically, the consent form will be stored on the electronic system (Qualtrics). This is secure (<https://www.qualtrics.com/uk/platform/gdpr/>), and will only be accessed by the research team at your participating hospital and some members of the research team at KCH and KCL. Your participation in this research will not impact your care and your research results will not be shared with the doctor in charge of your care. You will not personally benefit from the research however with your help this work could lead to a reduction in missed disease and more rapid diagnosis and treatment.
- KCL and KCH are the sponsors for this study based in the United Kingdom. We will be using information from your medical records in order to undertake this study and will act as the data

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controller for this study. This means that we are responsible for looking after your information and using it properly. KCL and KCH will keep non-identifiable information about you for 99 years. Your rights to access, change or move your information are limited, as we need to manage your information in specific ways in order for the research to be reliable and accurate. If you withdraw from the study, we will keep the information about you that we have already obtained. To safeguard your rights, we will use the minimum personally-identifiable information possible. You can find out more about how we use your information at <https://www.kch.nhs.uk/research> and www.kcl.ac.uk/innovation/research/support/ethics/how-does-gdpr-affect-ethics/king's-college-london-statement-on-use-of-personal-data-in-research.aspx.

- Your participating hospital will keep your name, NHS number and contact details confidential and will not pass this information to further parties. Your participating hospital will use this information as needed, to contact you about the research study, and make sure that relevant information about the study is recorded for your care, and to oversee the quality of the study. Certain individuals from KCH, KCL and regulatory organisations may look at your medical and research records to check the accuracy of the research study and for managing the electronic consenting system. KCH and KCL will only receive information contained in the electronic consent form; the only personal detail contained in the form will be your name. The people who analyse the information will not be able to identify you and will not be able to find out your name, NHS number or contact details. Your participating hospital will collect information from your medical records for this research study in accordance with study instructions.

If there is a problem

- If you have a concern about any aspect of this study, you should ask to speak to the researchers who will do their best to answer your questions (see **Contact Us**). If you remain unhappy and wish to complain formally, we will direct you to the hospital Patients Advice and Liaison Service (PALS).

Contact Us

If you have any questions about this research, please contact esh-tr.researchanddevelopment@nhs.net

How to take part

If you decide you would like to take part, there are 2 ways you can let us know.

1. Scan the QR Code below or access the link [here](#), where you will be taken to the electronic consent form to complete.
- OR**
2. You can complete the paper consent form (enclosed with this sheet) and bring it with you at your appointment, or complete one whilst at clinic (ask a member of staff for one).

