

NHS Grampian

Information Governance – Data Protection

GRACE - Chest X-ray AI assisted workflow prioritisation and decision support

What is happening and how is my data being used?

NHS Grampian's (NHSG) is evaluating an Artificial Intelligence (AI) assisted prioritisation and decision support tool within the Radiology Department to prioritise the reporting of Chest X-rays which is called Annalise CXR. If you have a chest x-ray done within the evaluation period, the image taken by our radiographers will be processed by the system and given a reporting prioritisation classification depending on the clinical findings identified. This means that any images that have significant clinical findings will be identified as requiring urgent attention by our reporting team. The AI will also highlight to non-specialised clinicians all clinical findings in the image through an annotation overlay, this will support them in their diagnosis and decision making.

The use of AI in the Annalise solution does not mean that the system is making decisions about you or your care by itself (ie this is not 'wholly automated' processing of your data). Annalise is a decision support tool that analyses information quickly and provides suggested diagnoses and priorities to clinicians, but the suggestions from the system are always reviewed by a NHS Grampian health professional.

All decisions concerning your care and treatment, and the responsibility for those decisions, remain with NHS Grampian health professionals.

Personal data and Special categories of personal data

The evaluation will initially be carried out over a six-month period, between September 2021 and March 2022, but there may be a need to extend this period further to provide NHS Grampian with the data required to determine feasibility and success of the tool.

There is no personal data processed by the tool itself. The AI solution does not utilise personally identifying information for patients. Only the chest x-ray image and the images' corresponding unique patient ID is processed by Annalise.ai; the company is unable to link

the image to your personal identifiable data held by NHS Grampian such as your name, CHI, or address.

Data controller

NHS Grampian is the data controller for the personal data processed in this evaluation. Annalise.ai, the company supplying Annalise CXR is the data processor. The AI tool processes data within the cloud, hosted by Amazon Web Services (AWS). The Annalise.ai data centre is based in Ireland.

Annalise and their approved sub-processors (not limited to AWS) do not have any access to your data. NHS Grampian have signed an Agreement with Annalise.ai setting out instructions and standards on how your information is processed by them and their sub-processors, which includes additional contractual protection if your data is processed out with the UK and EU.

A list of Annalise's agreed sub-processors and their processing role in this evaluation is as follows:

Company	Location	Services
Amazon Web Services	Ireland	Cloud computing services
Datadog Ltd	US	System Health Monitoring of Cloud Services
Salesforce	Japan	CRM / Marketing services
Microsoft	Australia	Email / Document Storage / Collaboration

NHS Grampian standard processes will apply in respect of the below mentioned data subjects' rights.

This data is retained in the same way as other medical information we hold about you.

Please see our full privacy notice for more information -

https://foi.nhsgrampian.org/globalassets/foidocument/foi-public-documents1---all-documents/nhs_grampian_data_protection_notice.pdf.

Lawful processing

This evaluation is being carried out in the course of our usual activities which are part of our public task in the provision of healthcare services.

We assert that it is lawful for us to process your personal data in this way as:

- processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller;

We assert that it is lawful for us to process special categories of your personal data (health and ethnicity) in this way as:

- processing is necessary for the purposes of preventive or occupational medicine, for the assessment of the working capacity of the employee, medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services on the basis of Union or Member State law or pursuant to contract with a health professional and subject to the conditions and safeguards...;
- processing is necessary for the establishment, exercise or defence of legal claims or where courts are acting in their judicial capacity.

Your rights

We respect your rights and preferences in relation to your data. If you wish to update, access, erase, limit, or complain about the use of your information, please let us know by emailing gram.infogovernance@nhs.scot in the first instance and we will consider your questions.

You may also wish to contact the Information Commissioner's Office for information on data protection, or to raise a concern or a complaint. Further information can be found on their website at www.ico.org.uk.