What is patient data and how can it be used?



# What do we mean when we say health data?



Health data — or patient data — refers to the information about you that is routinely collected when you interact with the health service.



### Information about you

- Contact details
- Date of birth
- Address



### Information about your health

- Medical conditions
- Medication history
- Test results



### Information about your lifestyle

- Smoking
- Alcohol consumption
- Physical activity



### **Administrative information**

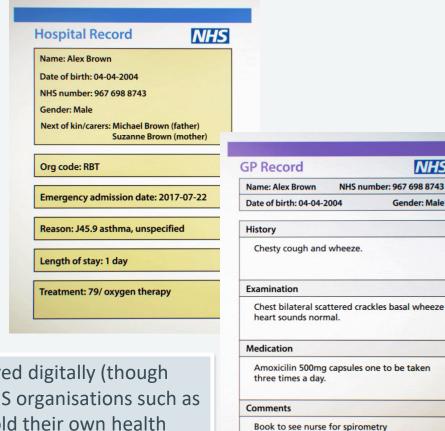
- Waiting list status
- Appointments booked



## What is a health record and how is it stored?

Your health records include information such as your:

- Name
- Address
- Date of birth
- NHS number
- Medical conditions
- Medication history
- Test results such as blood tests or MRI scans



NHS

Gender: Male

Your health records are primarily stored digitally (though some are on paper), and different NHS organisations such as your GP, hospital or other services hold their own health records for each patient.



## Who holds health data in the NHS?



Whilst each provider holds their own records, a summary version of your health record is held digitally which provides healthcare professionals involved in your care access to your data for individual care.

Depending on where you live, there may be local or regional systems to consolidate records and share data within a given area.



Others, such as NHS and public health analysts, can also access your data in certain instances to **improve the nation's health**.

For instance, organisations like NHS England collect information from providers to create national datasets to document things like how many patients visited A&E in a given month.



## What is health data used for?



**Individual care** 



**Planning** 



Research



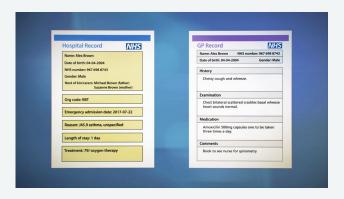
**Population health** 



# How is patient data used?

Whenever someone interacts with the health service, such as during a GP or hospital appointment, information is collected about them, their health, and their lifestyle and stored in their patient record.

This data is important to providing the best individual care as different medical professionals need to have access to information about a person to help make decisions and provide medical care. Data is shared across the NHS for individual care via things like Summary Care Records and Shared Care Records, but not all data is shared in a timely and consistent way.





For more information, visit our <u>guide</u> to how patient data is used and find out more on our <u>website</u>



# How is patient data used?

In addition to providing the best medical care for an individual, patient data is collected and used for other purposes. For instance, approved researchers sometimes access patient data to conduct **research**, for instance to understand the cause of diseases or develop new treatments.

Patient data is also used by the NHS and Government to help with **planning** – e.g. evaluating how services are performing – and to improve **population health** – e.g. understanding the prevalence of risk factors of ill health in an area to be able to provide the right resources.





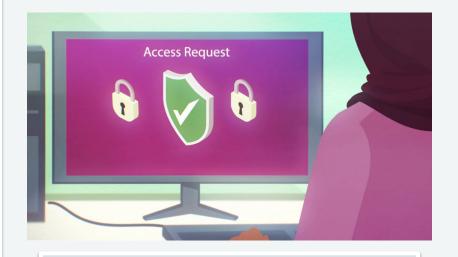
For more examples of how patient data may be used, visit our <u>case</u> <u>studies</u>



## Who outside the NHS can access health data?

In order to conduct research into diseases and develop new treatments, and improve health service planning and population health, some NHS data can sometimes be accessed by organisations outside the NHS.

Protections around the use of patient data hold that access needs to be for a **specific purpose** in the **public interest**, by **authorised researchers** and analysts, using the **minimum amount of data** necessary to achieve the outcome.



Anyone wanting to access patient data must request access from the organisation that holds the data and demonstrate that their use of data is safe, secure, and ethical.



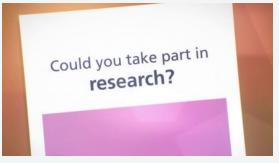
## Who outside the NHS can access health data?



**Government departments** 



**Pharmaceutical industry researchers** 



**Charity or academic researchers** 



**Other data extractors** 



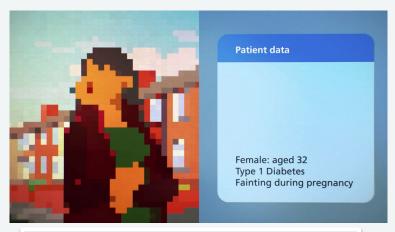
## Identifiable vs de-identified

### **Identifiable Data**



- Includes information such as your name, address and date of birth
- Also known as Confidential Patient Information when combined with information about your health or treatment

### **De-identified Data**



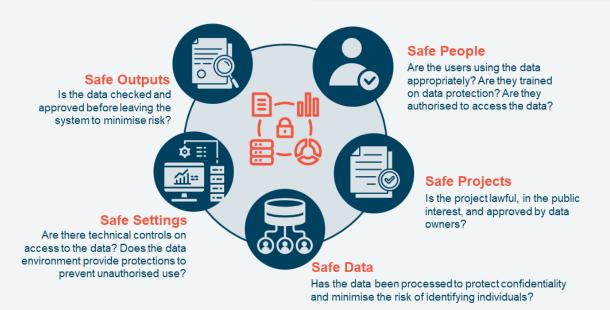
- Information that could directly identify you, such as name or date of birth have been removed
- Sometimes all identifying information has been completely removed, and sometimes a unique marker is used to replace identifying information



# How is data kept safe?

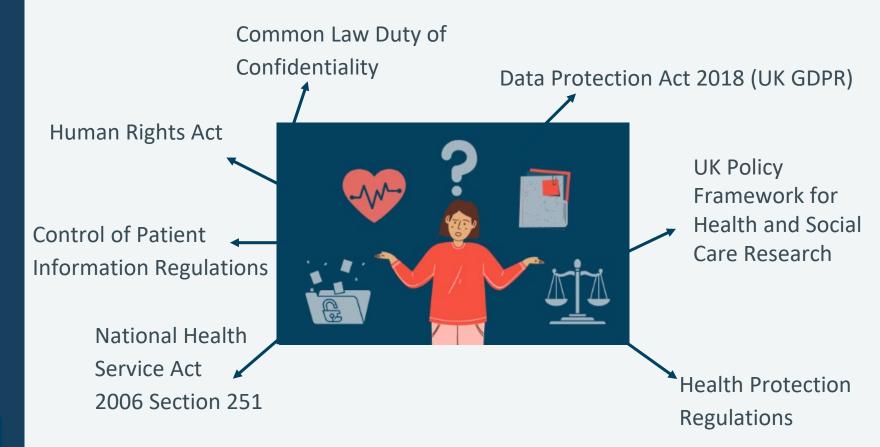
One model for thinking about how to keep data safe is the 'Five Safes' framework.
Originally developed by the Office for National Statistics, these principles are a useful way of thinking about how health data is kept safe.

Individual organisations (such as your GP) are legally responsible for keeping your data safe. Your health data is governed by data protection laws and the Information Commissioner's Office is tasked with ensuring people's rights are protected.





# Laws and regulations protecting patient data





### **Questions? Get in touch!**

Contact us at <a href="hello@understandingpatientdata.org.uk">hello@understandingpatientdata.org.uk</a>

