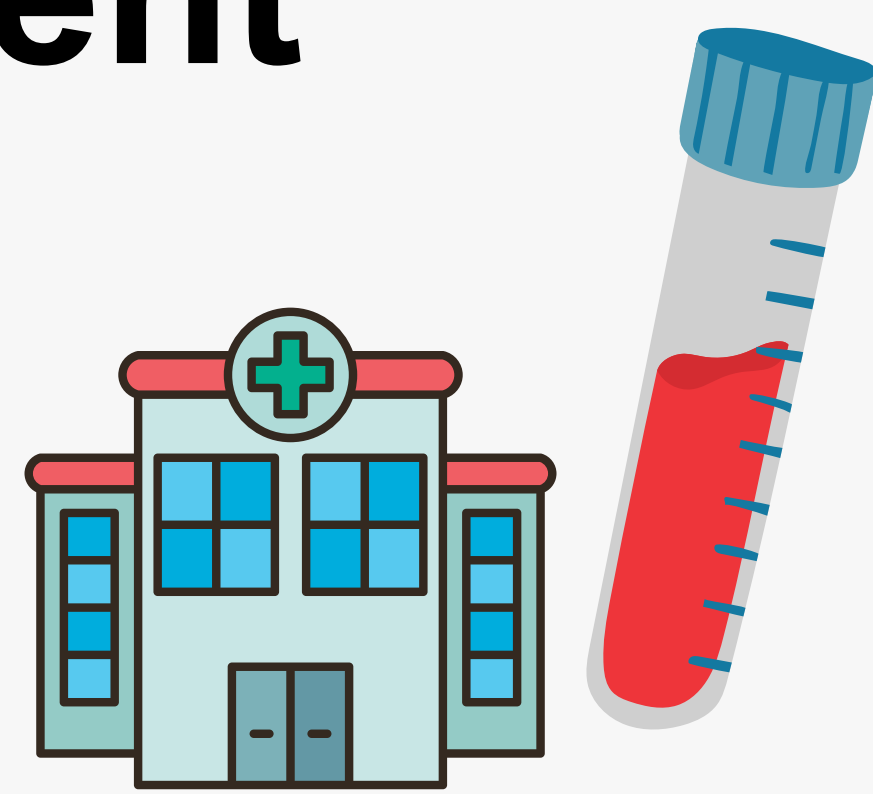


# What is Generation Scotland?

Generation Scotland is a research resource made up of people from across Scotland used to study the genetic and environmental basis of common diseases.

## Recruitment

Original GS  
Recruitment  
2006-2011  
25,128



Clinic  
collected  
blood sample  
23,979

NextGenScot  
Recruitment  
2022-2025  
15,939



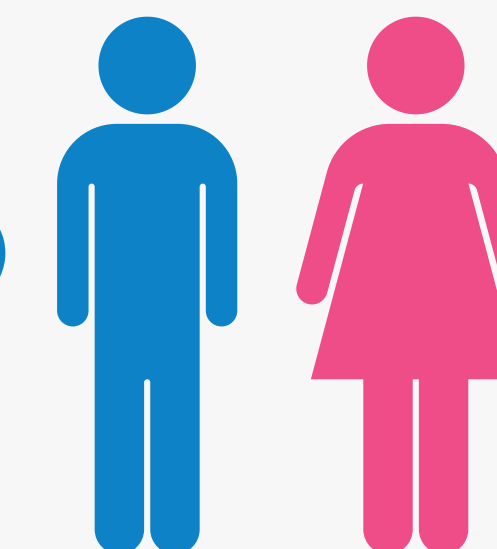
Remote  
Postal Saliva  
Samples  
10,777



We recruited new participants through TV, social media, radio, school lesson plans... Scan to watch our TV advert!

## 41,067 Total Participants

14,175 35% 25,721 63%  
Missing/prefer not to say 1,171

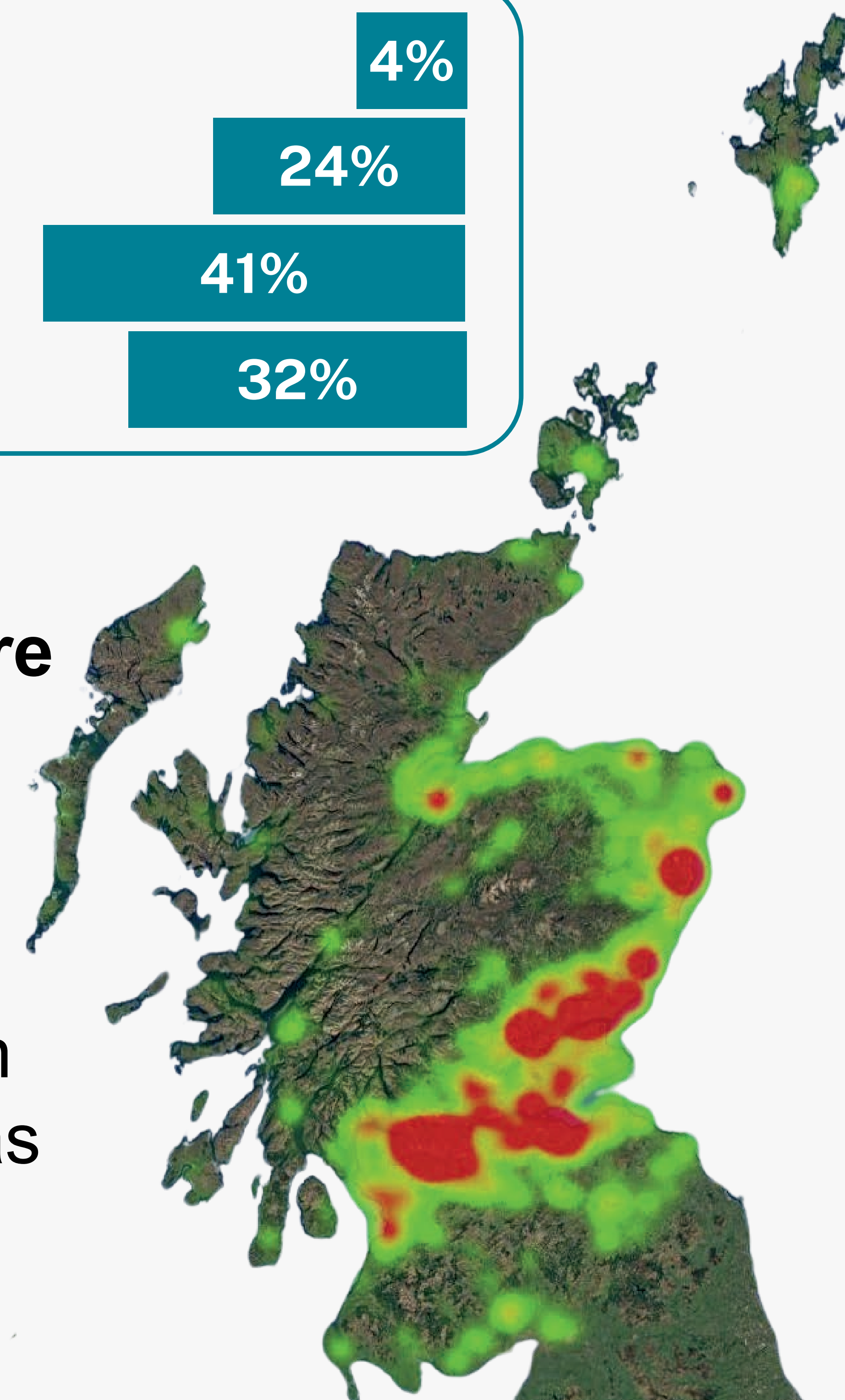


Age  
joined  
the  
study

≤18 4%  
19-39 24%  
40-59 41%  
60+ 32%

Participants are  
from across  
Scotland!

31% from  
rural areas



## Data available for researchers

Currently data is available for the original GS Recruitment only. NextGenScot participants will be added once recruitment has concluded, data is collated and genotyping is complete.



**5,501 Families**

With at least two related individuals in the study. This helps researchers see how traits or health conditions run in families.

**Genomic Data**  
20,026 (83%)

Genomic data refers to the complete set of DNA in a person which includes all the genes that determine traits like eye color or susceptibility to certain diseases.



**Proteomic Data**  
19,891 (83%)

Proteomic data looks at all the proteins in a cell or tissue. Proteins are the workers that carry out the instructions from DNA to build structures, transport materials, and carry signals.

**Methylation Data**  
19,062 (79%)

Methylation data shows chemical changes on the DNA that don't alter the actual sequence but can turn genes on or off. These changes can be influenced by aging, environment, or lifestyle.



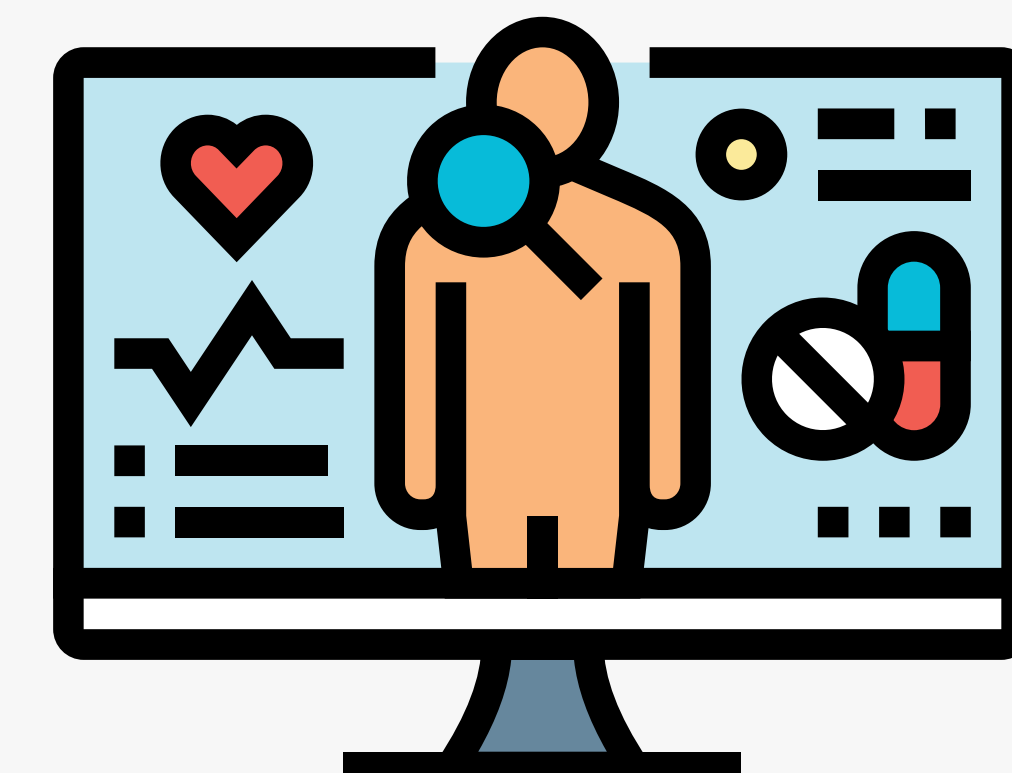
**Questionnaire Data**  
19,891 (83%)

Participants have completed questionnaires collecting a range of demographic, social characteristics and personal behaviours. This includes smoking status, alcohol consumption and personal and family disease history.

## Linkage to health records

**23,587 ~95%**

13.5M GP attendances  
4.7M Prescriptions  
147K Hospital admissions  
4.4K Cancer Registry records  
1.5K Diabetes Registry records  
Scottish medical imaging  
Dental records



By linking study data to NHS health records researchers can track participants' health over time in great detail. Scotland's NHS data is especially rich and varied, which helps build a more complete picture of people's health.

## Researcher use of GS data

**392**  
Publications

**366**  
Researchers

**140**  
Institutions

**20**  
Countries

## Acknowledgements

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