

**United Kingdom**

**IBD NIHR BioResource: Health and  
Lifestyle Questionnaire. Generic**

**Study Documentation**

September 2, 2021

# Metadata Production

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## IBD NIHR BioResource: Health and Lifestyle Questionnaire. Generic

### Overview

|                       |   |
|-----------------------|---|
| <b>Identification</b> | IBDNIHRBioResource.HealthandLifestyleQuestionnaire1.6 |
|-----------------------|---|

|                |                     |
|----------------|---------------------|
| <b>Version</b> | Version 3.0 NBR HLQ |
|----------------|---------------------|

#### Abstract

Most NIHR BioResource participants complete a self-report form on recruitment. Typically this contains e.g. height, weight, smoking history and alcohol consumption, but also includes questions relating to disease history and current medications.

The NIHR IBD BioResource comprises ~34k participants with Inflammatory Bowel Disease (IBD), who provide data for HDR UK Gut Reaction Hub. The IBD BioResource acquires a self-reported health and lifestyle questionnaire from around 70% of participants at recruitment. Typically variables include height, weight, smoking history and alcohol consumption, with addition of questions relating to disease history and current medications. This is used to pre-screen or match participants when inviting them to take part in experimental medicine studies. De-identified versions of this data are available to researchers investigating the feasibility of future studies.

More information is available here:

<https://web.www.healthdatagateway.org/dataset/18bfe765-5733-41f3-8114-0a1ec2524b5b>

Please note that this document is aligned with a specific version of the health and lifestyle questionnaire and BioResource is in the process of releasing a new one soon.

This documentation is a draft version of the dataset. Most of the NULLs arise from checkboxes that are not ticked, but also from forms or part-forms being missing. This will be resolved in future versions.

### Scope & Coverage

|                  |                |
|------------------|----------------|
| <b>Countries</b> | United Kingdom |
|------------------|----------------|

#### Geographic Coverage

United Kingdom (<https://www.geonames.org/2635167/united-kingdom.html>)

### Data Collection

|                             |   |
|-----------------------------|---|
| <b>Data Collection Mode</b> | <ul style="list-style-type: none"> <li>• Source: ELECTRONIC SURVEY , PAPER BASED</li> <li>• Collection situation: CLINIC , COMMUNITY , HOME</li> <li>• Data models: I2B2</li> <li>• Language: en</li> <li>• Format: text , csv</li> </ul> |
|-----------------------------|---|

# Files Description

Dataset contains 1 file(s)

| <b>IBD NIHR BioResource Health and Lifestyle Questionnaire</b> |   |
|--|---|
| <b># Cases</b>   | 23002   |
| <b># Variable(s)</b>   | 46  |
| <b>File Structure</b>  | Type: relational<br>Key(s): participant_id (Participant ID) |

# Variables List

Dataset contains 46 variable(s)

| File IBD NIHR BioResource Health and Lifestyle Questionnaire |                             |                                       |          |              |       |         |   |
|--|-----------------------------|---------------------------------------|----------|--------------|-------|---------|---|
| #  | Name                        | Label                                 | Type     | Format       | Valid | Invalid | Question  |
| 1  | <a href="#">Abnormal ..</a> | Abnormality of the thyroid gland      | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 2  | <a href="#">Alcoholc ..</a> | Alcohol intake                        | discrete | character-30 | 23002 | 0       | Do you drink alcohol?   |
| 3  | <a href="#">Allergy</a>     | Allergy                               | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 4  | <a href="#">Ankylosi ..</a> | Ankylosing spondylitis                | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 5  | <a href="#">Asthma</a>      | Asthma                                | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 6  | <a href="#">Atrialfi ..</a> | Atrial fibrillation                   | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 7  | <a href="#">BMI</a>         | BMI                                   | discrete | character-20 | -     | -       | Derived from Height and Weight  |
| 8  | <a href="#">BMIBands</a>    | BMI banded                            | discrete | character-20 | 23002 | 0       | Derived from Weight and Height-Banded   |
| 9  | <a href="#">Chronico ..</a> | Chronic obstructive pulmonary disease | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 10   | <a href="#">Coeliac ..</a>  | Coeliac disease                       | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 11   | <a href="#">Congesti ..</a> | Congestive heart failure              | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 12   | <a href="#">Coronary ..</a> | Coronary artery disease               | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 13   | <a href="#">Crohnsdi ..</a> | Crohns disease                        | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 14   | <a href="#">Currents ..</a> | Current smoker                        | discrete | character-4  | 23002 | 0       | Do you smoke?   |
| 15   | <a href="#">Diabetes ..</a> | Diabetes mellitus                     | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 16   | <a href="#">Dietaryh ..</a> | Dietary habits                        | discrete | character-11 | 23002 | 0       | Do you have a specific diet? None, Vegetarian, Pescetarian, Vegan, Other  |
| 17   | <a href="#">Eczema</a>      | Eczema                                | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 18   | <a href="#">Ethnicity</a>   | Ethnicity                             | discrete | character-25 | -     | -       | Ethnicity   |
| 19   | <a href="#">Ethnicit ..</a> | Ethnicity Banded                      | discrete | character-25 | 23002 | 0       | Ethnicity Bands, derived  |
| 20   | <a href="#">Exsmoker</a>    | Ex-smoker                             | discrete | character-4  | 23002 | 0       | Ex-smoker (finding)   |
| 21   | <a href="#">Gender</a>      | Gender                                | discrete | character-4  | 23002 | 0       | Which gender do you identify with?  |
| 22   | <a href="#">Handpref ..</a> | Hand preference                       | discrete | character-5  | 23002 | 0       | Are you right or left handed?   |
| 23   | <a href="#">Height</a>      | Height                                | discrete | character-20 | -     | -       | Height - in metres/centimetres  |
| 24   | <a href="#">HeightBa ..</a> | Height Bands                          | discrete | character-30 | 23002 | 0       | Height in metres/cm- Banded   |
| 25   | <a href="#">Hyperlip ..</a> | Hyperlipidemia                        | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 26   | <a href="#">Hyperten ..</a> | Hypertension                          | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 27   | <a href="#">Inflamma ..</a> | Inflammatory bowel disease            | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 28   | <a href="#">Metalimp ..</a> | Metal implant                         | discrete | character-4  | 23002 | 0       | Have you got any metal implants (excluding normal dental fillings) or had an injury which left you with metal fragments in your body? |
| 29   | <a href="#">Multiple ..</a> | Multiple sclerosis                    | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 30   | <a href="#">Myocardi ..</a> | Myocardial infarction                 | discrete | character-4  | 23002 | 0       | CONDITIONS  |
| 31   | <a href="#">Nonsmoker</a>   | Non-smoker                            | discrete | character-4  | 23002 | 0       | Non-smoker  |
| 32   | <a href="#">Parkinso ..</a> | Parkinsons disease                    | discrete | character-4  | 23002 | 0       | CONDITIONS  |

| <b>File IBD NIHR BioResource Health and Lifestyle Questionnaire</b> |                             |                           |             |               |              |                |   |
|---|-----------------------------|---------------------------|-------------|---------------|--------------|----------------|---|
| <b>#</b>  | <b>Name</b>                 | <b>Label</b>              | <b>Type</b> | <b>Format</b> | <b>Valid</b> | <b>Invalid</b> | <b>Question</b>                           |
| 33  | <a href="#">particip_..</a> | Participant ID            | discrete    | character-10  | 23002        | 0              | Identifier (unique)                       |
| 34  | <a href="#">Psoriasis</a>   | Psoriasis                 | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 35  | <a href="#">Seizures</a>    | Seizures                  | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 36  | <a href="#">Smokerga_..</a> | Smoker gave up            | discrete    | character-4   | -            | -              | What year did you give up smoking (YYYY)? |
| 37  | <a href="#">Stroke</a>      | Stroke                    | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 38  | <a href="#">Strokeli_..</a> | Stroke-like episode       | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 39  | <a href="#">Transien_..</a> | Transient ischemic attack | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 40  | <a href="#">TypeIdia_..</a> | Type I diabetes mellitus  | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 41  | <a href="#">TypeIdi_..</a>  | Type II diabetes mellitus | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 42  | <a href="#">Ulcerati_..</a> | Ulcerative colitis        | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 43  | <a href="#">Vasculitis</a>  | Vasculitis                | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 44  | <a href="#">Vitiligo</a>    | Vitiligo                  | discrete    | character-4   | 23002        | 0              | CONDITIONS                                |
| 45  | <a href="#">Weight</a>      | Weight                    | discrete    | character-20  | -            | -              | Weight -in kilograms or stones/pounds     |
| 46  | <a href="#">WeightBa_..</a> | Weight Banded             | discrete    | character-20  | 23002        | 0              | Weight -banded in kilograms               |

# Variables Description

Dataset contains 46 variable(s)



## File : IBD NIHR BioResource Health and Lifestyle Questionnaire

### # Abnormalityofthethyroidgland: Abnormality of the thyroid gland

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Literal question** CONDITIONS

**Concepts** Abnormality of the thyroid gland-HP:0000820

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 167   | 0.7%       |
| No    |       | 22835 | 99.3%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Alcoholconsumption: Alcohol intake

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Pre-question** Alcohol

**Literal question** Do you drink alcohol?

**Concepts** Alcohol intake (observable entity)-160573003

| Value               | Label | Cases | Percentage |
|---------------------|-------|-------|------------|
| 0-5                 | A1    | 326   | 1.4%       |
| 6-10                | A2    | 129   | 0.6%       |
| 11-15               | A3    | 68    | 0.3%       |
| 16-20               | A4    | 58    | 0.3%       |
| 21-25               | A5    | 17    | 0.1%       |
| 26-30               | A6    | 20    | 0.1%       |
| >30                 | A7    | 13    | 0.1%       |
| New Guideline 0-5   | B1    | 7144  | 31.1%      |
| New Guideline 6-10  | B2    | 3247  | 14.1%      |
| New Guideline 11-15 | B3    | 1963  | 8.5%       |
| New Guideline 16-20 | B4    | 1154  | 5.0%       |
| New Guideline 21-25 | B5    | 724   | 3.1%       |
| New Guideline 26-30 | B6    | 436   | 1.9%       |
| New Guideline >30   | B7    | 340   | 1.5%       |
| NULL                | C     | 7363  | 32.0%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Allergy: Allergy

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Literal question** CONDITIONS

**Concepts** Allergy - HP:0012393

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### # Allergy: Allergy

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 5872  | 25.5%      |
| No    |       | 17130 | 74.5%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Ankylosingspondylitis: Ankylosing spondylitis

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Ankylosing spondylitis (disorder)-9631008       |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 723   | 3.1%       |
| No    |       | 22279 | 96.9%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Asthma: Asthma

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Asthma-HP:0002099                               |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 3934  | 17.1%      |
| No    |       | 19068 | 82.9%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Atrialfibrillation: Atrial fibrillation

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Atrial fibrillation-HP:0005110                  |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 529   | 2.3%       |
| No    |       | 22473 | 97.7%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # BMI: BMI

|                         |   |
|-------------------------|---|
| <b>Information</b>      | [Type= discrete] [Format=character] [Missing=*] |
| <b>Literal question</b> | Derived from Height and Weight                  |
| <b>Concepts</b>         | Body mass index (observable entity)-60621009    |

### # BMIBands: BMI banded

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | Derived from Weight and Height- Banded          |
| <b>Concepts</b>           | Body mass index (observable entity)-60621009    |

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### # BMIBands: BMI banded

| Value        | Label | Cases | Percentage |
|--------------|-------|-------|------------|
| 18.5 - 24.9  |       | 8766  | 38.1%      |
| 25 - 29.9    |       | 6988  | 30.4%      |
| 30 - 39.9    |       | 4066  | 17.7%      |
| 39.9 or more |       | 530   | 2.3%       |
| < 18.5       |       | 518   | 2.3%       |
| NULL         |       | 2134  | 9.3%       |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Chronicobstructivepulmonarydi: Chronic obstructive pulmonary disease

|                           |  |
|---------------------------|--|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*]  |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                  |
| <b>Literal question</b>   | CONDITIONS                                       |
| <b>Concepts</b>           | Chronic obstructive pulmonary disease-HP:0006510 |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 87    | 0.4%       |
| No    |       | 22915 | 99.6%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Coeliacdisease: Coeliac disease

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Coeliac disease (disorder)-155842007            |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 285   | 1.2%       |
| No    |       | 22717 | 98.8%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Congestiveheartfailure: Congestive heart failure

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Congestive heart failure-HP:0001635             |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 95    | 0.4%       |
| No    |       | 22907 | 99.6%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Coronaryarterydisease: Coronary artery disease

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Coronary artery disease-HP:0001677              |

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### # Coronaryarterydisease: Coronary artery disease

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 645   | 2.8%       |
| No    |       | 22357 | 97.2%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Crohnsdisease: Crohns disease

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Crohns disease - HP:0100280                     |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 11287 | 49.1%      |
| No    |       | 11715 | 50.9%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Currentsmoker: Current smoker

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Pre-question</b>       | Smoking   |
| <b>Literal question</b>   | Do you smoke?                                   |
| <b>Concepts</b>           | Smoker (finding) - 77176002                     |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 2168  | 9.4%       |
| No    |       | 20834 | 90.6%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Diabetesmellitus: Diabetes mellitus

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Diabetes mellitus-HP:0000819                    |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 154   | 0.7%       |
| No    |       | 22848 | 99.3%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Dietaryhabits: Dietary habits

|                           |  |
|---------------------------|--|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*]                          |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]  |
| <b>Pre-question</b>       | Demographics - Details of participant                                    |
| <b>Literal question</b>   | Do you have a specific diet? None, Vegetarian, Pescetarian, Vegan, Other |
| <b>Concepts</b>           | Diet followed (observable entity)-230125005                              |

| Value      | Label | Cases | Percentage |
|------------|-------|-------|------------|
| Vegetarian |       | 773   | 3.4%       |

## File : IBD NIHR BioResource Health and Lifestyle Questionnaire

### # Dietaryhabits: Dietary habits

| Value       | Label | Cases | Percentage |
|-------------|-------|-------|------------|
| Vegan       |       | 170   | 0.7%       |
| Pescetarian |       | 345   | 1.5%       |
| Other       |       | 1807  | 7.9%       |
| None        |       | 19527 | 84.9%      |
| NULL        |       | 380   | 1.7%       |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Eczema: Eczema

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Eczema-HP:0000964                               |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 3335  | 14.5%      |
| No    |       | 19667 | 85.5%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Ethnicity: Ethnicity

|                         |   |
|-------------------------|---|
| <b>Information</b>      | [Type= discrete] [Format=character] [Missing=*] |
| <b>Literal question</b> | Ethnicity                                       |

### # EthnicityBands: Ethnicity Banded

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | Ethnicity Bands, derived                        |

| Value                     | Label | Cases | Percentage |
|---------------------------|-------|-------|------------|
| NULL                      |       | 918   | 4.0%       |
| asian or british<br>asian |       | 672   | 2.9%       |
| black or black<br>british |       | 80    | 0.3%       |
| mixed                     |       | 271   | 1.2%       |
| not stated                |       | 173   | 0.8%       |
| other ethnic              |       | 68    | 0.3%       |
| white or white<br>british |       | 20820 | 90.5%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Exsmoker: Ex-smoker

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | Ex-smoker (finding)                             |
| <b>Concepts</b>           | Ex-smoker (finding) - 8517006                   |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 9872  | 42.9%      |

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### # Exsmoker: Ex-smoker

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| No    |       | 13130 | 57.1%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Gender: Gender

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Pre-question</b>       | Demographics - Details of participant           |
| <b>Literal question</b>   | Which gender do you identify with?              |
| <b>Concepts</b>           | Gender (observable entity) - 263495000          |

| Value | Label  | Cases | Percentage |
|-------|--------|-------|------------|
| m     | Male   | 10619 | 46.2%      |
| f     | Female | 12381 | 53.8%      |
| NULL  | NULL   | 2     | 0.0%       |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Handpreference: Hand preference

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | Are you right or left handed?                   |
| <b>Concepts</b>           | Hand preference (observable entity) - 246559009 |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Both  | H1    | 250   | 1.1%       |
| Left  | H2    | 2544  | 11.1%      |
| Right | H3    | 19924 | 86.6%      |
| NULL  | H4    | 284   | 1.2%       |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Height: Height

|                         |   |
|-------------------------|---|
| <b>Information</b>      | [Type= discrete] [Format=character] [Missing=*] |
| <b>Literal question</b> | Height - in metres/centimetres                  |
| <b>Concepts</b>         | SNOWMED CT-50373000                             |

### # HeightBands: Height Bands

|                           |  |
|---------------------------|--|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*]        |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                        |
| <b>Pre-question</b>       | Demographics from the Health & Lifestyle Questionnaire |
| <b>Literal question</b>   | Height in metres/cm- Banded                            |
| <b>Concepts</b>           | SNOWMED CT-50373000                                    |

| Value       | Label | Cases | Percentage |
|-------------|-------|-------|------------|
| 0 - 1.60    |       | 3239  | 14.1%      |
| 1.60 - 1.69 |       | 7264  | 31.6%      |
| 1.70 - 1.79 |       | 6804  | 29.6%      |
| 1.80 - 1.89 |       | 3490  | 15.2%      |

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### # HeightBands: Height Bands

| Value       | Label | Cases | Percentage |
|-------------|-------|-------|------------|
| 1.90 - 1.99 |       | 469   | 2.0%       |
| 2m or more  |       | 49    | 0.2%       |
| NULL        |       | 1687  | 7.3%       |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Hyperlipidemia: Hyperlipidemia

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Hyperlipidemia - HP:0003077                     |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 2588  | 11.3%      |
| No    |       | 20414 | 88.7%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Hypertension: Hypertension

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Hypertension-HP:0000822                         |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 3862  | 16.8%      |
| No    |       | 19140 | 83.2%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Inflammatoryboweldisease: Inflammatory bowel disease

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Inflammatory bowel disease (disorder)-24526004  |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 22998 | 100.0%     |
| No    |       | 4     | 0.0%       |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Metalimplant: Metal implant

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*]   |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]   |
| <b>Literal question</b>   | Have you got any metal implants (excluding normal dental fillings) or had an injury which left you with metal fragments in your body? |
| <b>Concepts</b>           | Metal device (physical object) - 4816004  |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 2046  | 8.9%       |
| No    |       | 20956 | 91.1%      |

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### # Metalimplant: Metal implant

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Multiplesclerosis: Multiple sclerosis

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Multiple sclerosis (disorder)-24700007          |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 71    | 0.3%       |
| No    |       | 22931 | 99.7%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Myocardialinfarction: Myocardial infarction

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Myocardial infarction-HP:0001658                |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 359   | 1.6%       |
| No    |       | 22643 | 98.4%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Nonsmoker: Non-smoker

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Pre-question</b>       | Smoking   |
| <b>Literal question</b>   | Non-smoker                                      |
| <b>Concepts</b>           | Non-smoker (finding) - 8392000                  |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 9485  | 41.2%      |
| No    |       | 13517 | 58.8%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Parkinsonsdisease: Parkinsons disease

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Parkinson's disease (disorder) - 49049000       |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 7     | 0.0%       |
| No    |       | 22995 | 100.0%     |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # participant\_id: Participant ID

|                    |   |
|--------------------|---|
| <b>Information</b> | [Type= discrete] [Format=character] [Missing=*] |
|--------------------|---|



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### # participant\_id: Participant ID

Statistics [NW/ W] [Valid=23002 /-] [Invalid=0 /-]

Literal question Identifier (unique)

### # Psoriasis: Psoriasis

Information [Type= discrete] [Format=character] [Missing=\*]

Statistics [NW/ W] [Valid=23002 /-] [Invalid=0 /-]

Literal question CONDITIONS

Concepts Psoriasis-HP:0003765

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 1601  | 7.0%       |
| No    |       | 21401 | 93.0%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Seizures: Seizures

Information [Type= discrete] [Format=character] [Missing=\*]

Statistics [NW/ W] [Valid=23002 /-] [Invalid=0 /-]

Literal question CONDITIONS

Concepts Seizures - HP:0001250

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 31    | 0.1%       |
| No    |       | 22971 | 99.9%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Smokergaveup: Smoker gave up

Information [Type= discrete] [Format=character] [Missing=\* /0/10/15]

Literal question What year did you give up smoking (YYYY)?

Concepts 1221000175102

### # Stroke: Stroke

Information [Type= discrete] [Format=character] [Missing=\*]

Statistics [NW/ W] [Valid=23002 /-] [Invalid=0 /-]

Literal question CONDITIONS

Concepts Stroke - HP:0001297

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 362   | 1.6%       |
| No    |       | 22640 | 98.4%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Strokelikeepisode: Stroke-like episode

Information [Type= discrete] [Format=character] [Missing=\*]

Statistics [NW/ W] [Valid=23002 /-] [Invalid=0 /-]

Literal question CONDITIONS

Concepts Stroke-like episode - HP:0002401

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### # Strokelikeepisode: Stroke-like episode

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 10    | 0.0%       |
| No    |       | 22992 | 100.0%     |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Transientischemicattack: Transient ischemic attack

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Transient ischemic attack - HP:0002326          |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 37    | 0.2%       |
| No    |       | 22965 | 99.8%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # TypeIdiabetesmellitus: Type I diabetes mellitus

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Type I diabetes mellitus-HP:0100651             |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 131   | 0.6%       |
| No    |       | 22871 | 99.4%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # TypeIIdiabetesmellitus: Type II diabetes mellitus

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Type II diabetes mellitus-HP:0005978            |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 1156  | 5.0%       |
| No    |       | 21846 | 95.0%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # Ulcerativecolitis: Ulcerative colitis

|                           |   |
|---------------------------|---|
| <b>Information</b>        | [Type= discrete] [Format=character] [Missing=*] |
| <b>Statistics [NW/ W]</b> | [Valid=23002 /-] [Invalid=0 /-]                 |
| <b>Literal question</b>   | CONDITIONS                                      |
| <b>Concepts</b>           | Ulcerative colitis - HP:0100279                 |

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 11440 | 49.7%      |
| No    |       | 11562 | 50.3%      |

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

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### # Vasculitis: Vasculitis

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Literal question** CONDITIONS

**Concepts** Vasculitis-HP:0002633

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 15    | 0.1%       |
| No    |       | 22987 | 99.9%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Vitiligo: Vitiligo

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Literal question** CONDITIONS

**Concepts** Vitiligo - HP:0001045

| Value | Label | Cases | Percentage |
|-------|-------|-------|------------|
| Yes   |       | 253   | 1.1%       |
| No    |       | 22749 | 98.9%      |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # Weight: Weight

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Literal question** Weight -in kilograms or stones/pounds

**Concepts** Body weight (observable entity) - 27113001

### # WeightBands: Weight Banded

**Information** [Type= discrete] [Format=character] [Missing=\*]

**Statistics [NW/ W]** [Valid=23002 /-] [Invalid=0 /-]

**Pre-question** Demographics from the Health & Lifestyle Questionnaire

**Literal question** Weight -banded in kilograms

**Concepts** Body weight (observable entity) - 27113001

| Value       | Label | Cases | Percentage |
|-------------|-------|-------|------------|
| 0 - 49.9    | W1    | 580   | 2.5%       |
| 50 - 69.9   | W2    | 8106  | 35.2%      |
| 70 - 89.9   | W3    | 9146  | 39.8%      |
| 90 - 109.9  | W4    | 3506  | 15.2%      |
| 110 - 139.9 | W5    | 840   | 3.7%       |
| 140 - 179.9 | W6    | 86    | 0.4%       |
| 180 or more | W7    | 24    | 0.1%       |
| NULL        | W8    | 714   | 3.1%       |

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*