Appendix B.   Questionnaire

Government priorities for science

"Every year, the government spends money on a number of different things, including research.

{WEB: "Below is"; TEL: "I will now read out"} a list of areas that the government funds research in. In what order do you think the government should prioritise spending on these areas of research at the moment?"

{WEB: "Please give each option a score of 1 to 5 where 1 is highest priority and 5 is lowest priority"}
INTERVIEWER: READ OUT AND CODE PRIORITY ORDER WHERE 1 IS HIGHEST PRIORITY AND 5 IS LOWEST PRIORITY"

1. Medical research RANGE 1…5
2. Military/defence research RANGE 1…5
3. Environmental protection research RANGE 1…5
4. Research into economic affairs RANGE 1…5
5. Research into understanding social issues 1…5

Health threats

"How high a risk to public health, if any, do you think each of the following are?"

{WEB: "Please select one answer on every row"}
INTERVIEWER: READ OUT EACH OPTION AND THE ANSWER CODES. REPEAT ANSWER CODES AS REQUIRED.

GRID ROWS
1. Drug resistant infections
2. People not getting vaccinated
3. High sugar content in food
4. Air pollution
5. Climate change

GRID COLS
1. Very high
2. Fairly high
3. Fairly low
4. No risk at all

Engagement with health information & research

HlthResPart [MULTICODE: Randomise 1…6]
"When we use health research in this survey we mean the systematic investigation done by researchers to learn more about how the body works and the causes of illnesses, and to develop and test new treatments

{WEB: "Below is"; TEL: "I will now read out"} a list of activities related to health research that some people do.

Which of the following activities have you done in the last year?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Had a conversation about health research
2. Commented on health research on social media
3. Shared or retweeted health research on social media
4. Searched for information related to health research
5. Participated in health research
6. Read an article about health research
7. None of these [EXCLUSIVE]

IntRes
"How interested would you say you are in health research?"

INTERVIEWER: READ OUT

1. Very interested
2. Fairly interested
3. Not very interested
4. Not at all interested

KIMR [MULTICODE]
"{WEB: "Below is"; TEL: "I will now read out"} a list of **broad** areas of health research.

Which, if any, of these are you interested in?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. How health research is conducted
2. What health research is currently being undertaken
3. Development of new drugs, vaccines and treatments
4. Social and ethical issues raised by health research
5. How diseases have been treated at different times and in different cultures
6. How the body works

7. How the brain works
8. Policy and funding issues in medical research
9. How health research is regulated
10. Other (Please describe)
11. None of these [EXCLUSIVE]

{ASK ALL}
KSP [MULTICODE: REVERSE OPTIONS 1…8]
"{WEB: "Below is"; TEL: "I will now read out"} a list of **specific** areas of health research. Which, if any, of these are you interested in?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Obesity
2. How genes work and how they affect health and diseases
3. Ageing
4. The health implications of climate change
5. Mental health issues
6. Stem cells
7. Risk of disease
8. Diseases which affect the developing world
9. Other (Please describe)
10. None of these [EXCLUSIVE]

{ASK ALL}
HlthInfOft [FLIP SCALE]
"Approximately how often do you try to find health-related information?"

INTERVIEWER: READ OUT

1. Several times a day
2. On most days
3. Once or twice a week
4. Once or twice a month
5. Less often than once a month
6. Never

{IF HlthInfOft <> 6}
HlthInfWhere [MULTICODE: RANDOMISE 1…7]
"From which of the following sources do you get health-related information?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Newspapers and magazines
2. TV programmes
3. Radio
4. Podcasts

5. Websites
6. Apps
7. Social media sites or online forums
8. None of these [EXCLUSIVE]

{IF HlthInfWhere = 7}
HlthInfSM [GRID, RANDOMISE ROWS, FLIP SCALE]
 "And approximately how often do you do each of the following on social media sites or online forums?"

{WEB:"Please select one answer on every row"}
INTERVIEWER: READ OUT EACH OPTION AND ANSWER CODES. REPEAT ANSWER CODES AS REQUIRED

ROWS
1. Read health-related information
2. Follow links to health-related information
3. Comment on health-related information
4. Share health-related information
5. Post my own health related content

COLS
1. Several times a day
2. On most days
3. Once or twice a week
4. Once or twice a month
5. Less often than once a month
6. Never

{IF HlthInfOft <> 6}
HlthInfWho [MULTICODE: RANDOMISE 1…6]
 "And from which of the following sources do you get health-related information?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Health professionals
2. Government departments
3. Academics
4. Health charities
5. Friends or family
6. The news and media
7. None of these [EXCLUSIVE]

{IF HlthInfWhere = 1…6}
HlthInfWhoTrust [GRID: RANDOMISE ROWS, FLIP SCALE]
 "And how much trust do you have in the health-related information you get from each of these sources?"

{WEB:"Please select one answer on every row"}
INTERVIEWER: READ OUT EACH OPTION. REPEAT ANSWER CODES AS REQUIRED

ROWS
1. {IF HlthInfWho = 1: "Health professionals"}
2. {IF HlthInfWho = 1: "Government departments"}
3. {IF HlthInfWho = 1: "Academics"}
4. {IF HlthInfWho = 1: "Health charities"}
5. {IF HlthInfWho = 1: "Friends or family"}
6. {IF HlthInfWho = 1: "The news and media that you use"}

COLS
1. Complete trust
2. A great deal of trust
3. Some trust
4. Very little trust
5. No trust at all

{ASK ALL}
HlthInfDec [MULTICODE: RANDOMISE 1…5]
"When making decisions about your own health, including when you feel ill, but also your mental health and general wellbeing, which of the following do you do?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Look up information and research about the topic
2. Follow advice given to you by a health professional
3. Follow the advice of the media
4. Follow the advice of friends or family
5. Base my decision on previous experience
6. None of these [EXCLUSIVE]

{ASK ALL}
GPChallenge
"{IF MODE =CATI: "I am now going to read you a brief description of somebody, and I would like you to tell me how much this person is, or is not, like you"; IF MODE = WEB: "Below is a brief description of somebody. Please indicate how much this person is, or is not, like you"}

When {IF FF_Sex = 1: "he"; IF FF_Sex = 2: "she"} sees a medical professional, {IF FF_Sex = 1: "he"; IF FF_Sex = 2: "she"}likes to ask questions to make sure the medical professional hasn't made a mistake or missed something, and feels confident querying or challenging the medical professional's conclusions.

How much is this person like you?"

1. Very much like me
2. Like me
3. Somewhat like me
4. A little like me
5. Not at all like me

Public involvement in health research

HlthResPri [GRID: RANDOMISE ROWS, FLIP SCALE]
"Health research aims to improve human health and well-being. However, difficult decisions have to be made in order to decide which illnesses should be targeted and which sorts of treatments should be developed.

To what extent do you think each of the following groups should, or should not, be involved in **setting priorities for** health research?
{WEB:"Please select one answer on every row"}
INTERVIEWER: READ OUT EACH OPTION AND ANSWER CODES. REPEAT ANSWER CODES AS REQUIRED

GRID ROWS
1. Government
2. Scientists working in universities
3. Scientists working in government
4. Scientists working in private industry
5. Health research charities
6. Members of the public

GRID COLS
1. Should definitely be involved
2. Should probably be involved
3. Should probably not be involved
4. Should definitely not be involved

Order of SciResPubOp and HlthResPriDiv randomised

SciResPubOp [FLIP SCALE]
"And to what extent do you agree with the following statement?

Scientists are interested in the views of the public when considering the priorities for research and how it is produced"

INTERVIEWER: READ OUT

1. Strongly agree
2. Agree
3. Neither agree nor disagree
4. Disagree
5. Strongly disagree

HlthResPriDiv [FLIP SCALE]
"And to what extent do you agree with the following statement?

All types of people in society should be involved in **setting priorities for** health research"

INTERVIEWER: READ OUT

1. Strongly agree
2. Agree
3. Neither agree nor disagree
4. Disagree
5. Strongly disagree

Willingness to share health information

WillAccMed

"The next questions ask about how willing or unwilling you would be for your data to be used in different types of research projects. Your data will not be accessed as part of a research project as a result of answering these questions.

How willing or unwilling would you be to allow your **medical records** to be used in a medical research study? "

{WEB: "The information given to researchers would not include your name, date of birth, address or any contact details."}
INTERVIEWER: "The information given to researchers would not include your name, date of birth, address or any contact details."
INTERVIEWER: READ OUT

1. Very willing
2. Fairly willing
3. Fairly unwilling
4. Very unwilling

AccessCoMed [MULTICODE]
"What concerns, if any, would you have about your **medical records** being used in this way?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Concerns regarding privacy
2. Don't know enough about it
3. Concerns about the purpose of the research
4. Who/which organisation is conducting the research
5. Data security
6. Concerns about how the data will be used or who will use it
7. Other (Please describe)
8. I would have no concerns [EXCLUSIVE]

WillAccGen
"And how willing or unwilling would you be to allow **information from your genes** to be used in a medical research study?"

{WEB: "By this we mean information about you contained in your DNA. The information given to researchers would not include your name, date of birth, address or any contact details."}
INTERVIEWER: "By this we mean information about you contained in your DNA. The information given to researchers would not include your name, date of birth, address or any contact details."
INTERVIEWER: READ OUT

1. Very willing
2. Fairly willing
3. Fairly unwilling
4. Very unwilling

{IF WillAccGen = 3…4}
AccessCoGen [MULTICODE]
"What concerns, if any, would you have about **information from your genes** being used in this way?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Concerns regarding privacy
2. Don't know enough about it
3. Concerns about the purpose of the research
4. Data security
5. Concerns about how the data will be used or who will use it
6. Who/which organisation is conducting the research
7. Other (Please describe)
8. I would have no concerns [EXCLUSIVE]

{ASK ALL}
WillAccMH
"And how willing or unwilling would you be to allow **mental health information** from your medical records to be used in a medical research study?"

{WEB: "The information given to researchers would not include your name, date of birth, address or any contact details."}
INTERVIEWER: "The information given to researchers would not include your name, date of birth, address or any contact details."
INTERVIEWER: READ OUT

1. Very willing
2. Fairly willing
3. Fairly unwilling
4. Very unwilling

{IF WillAccMH = 3…4}
AccessMHCo [MULTICODE, RANDOMISE 1…6]

"What concerns, if any, would you have about your **mental health information** being used in this way?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Concerns regarding privacy
2. Don't know enough about it
3. Concerns about the purpose of the research
4. Data security
5. Concerns about how the data will be used or who will use it
6. Who/which organisation is conducting the research
7. Other (Please describe)
8. I would have no concerns [EXCLUSIVE]

Understanding of mental health research

{ASK ALL}
UndMH1
"Mental health problems can be thought about in many different ways. We are interested in finding out what **you** understand by the term 'mental health problems'.

In your own words, what do you understand by the term 'mental health problem'?

OPEN

{ASK ALL}
MHResAim "Now thinking about **research into mental health** …

What do you think mental health research **aims to achieve**?

OPEN

{ASK ALL}
MHResInv

"And still thinking about **research into mental health** …

What sort of things do you think researchers do to understand mental health problems?

OPEN

Knowledge & attitudes to DRI

{ASK ALL}
KnowABR
"When you hear the term **'Drug resistant infections'**, how would you rate your understanding of what the term means?

INTERVIEWER: READ OUT

1. Very good
2. Good
3. Some understanding
4. Have heard the term but have little understanding of what it means
5. Have not heard the term

AgencyABR [FLIP SCALE]
"How much impact do you think that the actions of individual people like yourself can have on drug resistant infections?"

INTERVIEWER: READ OUT

1. A lot of impact
2. A little impact
3. No impact at all
4. Don't know

HowAddABR [RANDOMISE 1...3]
"Which, if any, of the following do you think the **most** focus should be on for addressing drug resistant infections?"

INTERVIEWER: READ OUT

1. Developing new antibiotics
2. Encouraging people to use antibiotics correctly
3. Better ways of tracking the levels of drug resistant infections
4. Other (Please describe)
5. None of these

RespABR [RANDOMISE 1...6]
"Which, if any, of the following do you think are **most** responsible for addressing drug resistant infections?"

INTERVIEWER: READ OUT

1. Pharmaceutical companies
2. The government
3. Doctors or nurses who prescribe antibiotics
4. Pharmacists
5. People who take antibiotics
6. Agricultural industry
7. Other (Please describe)
8. None of these

Knowledge & attitudes to vaccinations

RiskVacc

On average, how high, if at all, would you say the risks of serious side-effects are from a vaccination?

INTERVIEWER: READ OUT

1. Very high
2. Fairly high
3. Fairly low
4. No risk at all

{ASK ALL}
PrevVacc [FLIP SCALE]

How often, if ever, would you say vaccines are effective at preventing diseases?

INTERVIEWER: READ OUT

1. Always effective
2. Almost always effective
3. Sometimes effective, sometimes not effective
4. Almost never effective
5. Never effective

{ASK ALL}
PostVacc [FLIP SCALE]

How often, if ever, would you say vaccines are effective at treating diseases **after** they've been contracted?

INTERVIEWER: READ OUT

1. Always effective
2. Almost always effective
3. Sometimes effective, sometimes not effective
4. Almost never effective
5. Never effective

Use of antibiotics

{ASK ALL} 1 ITEM
ABAsked

"We would now like to ask you about your experience of antibiotics.

Have you ever **asked** a GP or other medical professional to prescribe you antibiotics?"

1. Yes
2. No

{IF ABAsked= 1}
ABLastPre

"And thinking of the last time you asked a GP or other medical professional to prescribe you antibiotics, did they give you a prescription for antibiotics?"

1. Yes
2. No

ABPersuadeY

"And did you have to persuade them to give you a prescription for antibiotics, before they did so?"

1. Yes
2. No

ABTreat [MULTICODE]

"Which of the following conditions, if any, do you think can be treated effectively by antibiotics?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

MULTICODE
1. Viral infections (such as viral stomach bug, shingles, viral bronchitis, viral ear infections)
2. Fungal infections (such as athlete's foot, thrush or ringworm)
3. Bacterial infections (such as throat infection, skin infections, pneumonia, urinary tract infections)
4. Colds
5. Flu
6. Allergic reactions (such as bee stings)
7. None of these [EXCLUSIVE]

Additional demographic questions

ETHNICCAT

What is your ethnic group?

INTERVIEWER: READ OUT

1. White
2. Mixed or multiple ethnic groups
3. Asian or Asian British
4. Black or Black British
5. Arab
6. Other (Please describe)

ETHNWH
What is your ethnic group?

INTERVIEWER READ OUT

1. White British (English/Welsh/Scottish/Northern Irish)
2. White Irish
3. Gypsy or Irish Traveller
4. Any other White background (please describe)

{IF ETHNICCAT=2}
ETHNMX
What is your ethnic group?

INTERVIEWER READ OUT

1. Mixed White and Black Caribbean
2. Mixed White and Black African
3. Mixed White and Asian
4. Any other mixed or multiple ethnic background (please describe)

{IF ETHNICCAT=3}
ETHNAS
What is your ethnic group?

INTERVIEWER READ OUT

1. Indian
2. Pakistani
3. Bangladeshi
4. Chinese
5. Any other Asian background (please describe)

{IF ETHNICCAT=4}
ETHNBL

What is your ethnic group?

INTERVIEWER READ OUT

1. Black African
2. Black Caribbean
3. Any other Black background (please describe)

{ASK ALL}
CareResp [MULTICODE]
"Do you have any caring responsibilities?

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY"

MULTICODE
1. Primary carer of disabled child/children
2. Primary carer or assistant for a disabled adult (18 years or over)
3. Primary carer or assistant for an older person/people (65 and over)

4. Secondary carer (another person carries out the main caring role)
5. Other (Please describe)
6. None of these [EXCLUSIVE]

"Do you think that you have ever **personally** experienced any of the following?"

{WEB:"Please select all that apply"}
INTERVIEWER: READ OUT EACH OPTION AND CODE ALL THAT APPLY

1. A phobia
2. Panic attacks
3. Post-traumatic stress disorder
4. Attention deficit hyperactivity disorder (ADHD) or Attention deficit disorder (ADD)
5. Bipolar disorder (or 'manic depression')
6. Depression
7. Post-natal depression
8. Dementia (including Alzheimers)
9. An eating disorder
10. Nervous breakdown
11. A personality disorder
12. Psychosis or schizophrenia
13. Obsessive compulsive disorder (OCD)
14. Seasonal affective disorder
15. Alcohol or drug dependence
16. Any other anxiety disorder
17. Any other mental, emotional or neurological problem or condition
18. None of these [EXCLUSIVE]