

UK Data Service Online Workshop Activity

Task:

- 1) Find data to answer a question using Nesstar
- 2) Create a two-way table to answer a question

About Nesstar

Nesstar is an online tool provided by the UK Data Service for exploring and accessing to a wide variety of datasets.

Website: <http://nesstar.ukdataservice.ac.uk/webview/>

Activity: Creating descriptive statistics

You are interested in the risk of adverse effects of COVID-19 and how this relates to income inequality:

Are people with low income more likely than people with higher income of being in the high risk group for COVID-19?

To explore the question, you will look at data from the Health Survey for England. The key variables to explore are:

1. Having a long-term health condition
2. Specifically having a respiratory condition
3. Income

In most social surveys information about income is gathered in a variety of ways. Often the information is then used to create *derived variables* - a variable that is created after data collection following some sort of calculation or other processing.

In this activity you will use the derived variable *Equivalised Income Quintiles* (eqv5).

Equivalisation scales are used to adjust household income, taking into account household size and composition. *Quintiles* split the variable evenly into fifths.

Instructions

1. Navigate to Nesstar: <http://nesstar.ukdataservice.ac.uk/webview/>

2. Find the Health Survey for England 2016

- Open *Research Datasets*
- Scroll down to *Health Survey for England*, expand with +
- Select *Health Survey for England, 2016*

3. Find and explore the key variables

- Select *Variable Description*, expand with +
- Select *Individual Data File*, expand with +
- Select *General Health*, expand with +
- Select *Long Lasting Illness*, expand with +

4. Long Lasting Illness exploration

- Select (click on) *Whether have any physical or mental health conditions or illnesses lasting or expected to last 12 months or more*
- The description should appear on the right-hand side

Question 1. How many respondents from the Health Survey for England reported having a physical or mental health condition or illness lasting or expected to last 12 months or more?

Dataset: Health Survey for England, 2016

Health Survey for England, 1991-

Variable ILL12m: Whether have any physical or mental health conditions or illnesses lasting or expected to last 12 months or more

LITERAL QUESTION

Do you have any physical or mental health conditions or illnesses lasting or expected to last 12 months or more?

Values	Categories	N	
1	Yes	?	38.9%
2	No	?	61.1%
-9	Refused		
-8	Don't know	1	
-1	Not applicable	0	

SUMMARY STATISTICS

Valid cases	10065
Missing cases	2
Minimum	1.0
Maximum	2.0
This variable is numeric	

3. Stamina, breathing or fatigue

- Select (click on) *Whether conditions or illnesses affect: Stamina, breathing or fatigue*

1.
 - ▢ About the UK Data Service Nesstar Catalogue
 - ▢ Research Datasets
 - ▢ Unrestricted Access Datasets
 - ▢ Teaching Datasets

2.
 - ▢ General Household Survey
 - ▢ Health Survey for England
 - ▢ Health Survey for England, 2016
 - ▢ Metadata
 - ▢ Variable Description
 - ▢ Individual Data File
 - ▢ Classification
 - ▢ Anthropometric Measurements
 - ▢ Blood Sample
 - ▢ Urine Sample
 - ▢ Blood Pressure
 - ▢ Drinking
 - ▢ Fruit and Vegetable Consumption
 - ▢ Children's Physical Activity
 - ▢ General Health
 - ▢ Weight Management

3.
 - ▢ Long Lasting Illness
 - ▢ Whether have any physical or mental health conditions or illnesses lasting or expected to last 12 months or more
 - ▢ Whether conditions or illnesses affect: Vision (for example blindness or partial sight)
 - ▢ Whether conditions or illnesses affect: Hearing (for example deafness or partial hearing)
 - ▢ Whether conditions or illnesses affect: Mobility (for example walking short distances or climbing stairs)
 - ▢ Whether conditions or illnesses affect: Dexterity (for example lifting and carrying objects, using a keyboard)
 - ▢ Whether conditions or illnesses affect: Learning or understanding or concentrating
 - ▢ Whether conditions or illnesses affect: Memory
 - ▢ Whether conditions or illnesses affect: Mental health
 - ▢ Whether conditions or illnesses affect: Stamina, breathing or fatigue
 - ▢ Whether conditions or illnesses affect: Socially or behaviourally

- The description should appear on the right-hand side

Question 2. How many people reported that the condition affected stamina, breathing or fatigue?

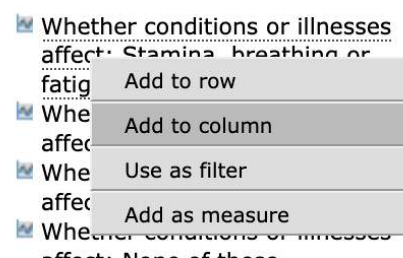
6. Adding in income

4.

- Select the *Tabulation* tab
- Select (click on) *Whether conditions or illnesses affect: Stamina, breathing or fatigue*
- Select *Add to Column*

AT THIS POINT YOU WILL BE ASKED TO LOG-IN. THE COURSE ORGANISERS HAVE PROVIDED A TEMPORARY PASSWORD THAT WILL EXPIRE AT THE END OF THIS SESSION.

- Find the income quintile variable: *Individual Data File > Classification > Income > (D) Equivalised Income Quintiles*
- Select *Add to Row*
- A two-way table should appear on the right-hand side



	Choose 'Add to column' to place the variable here.	
Choose 'Add to row' to place the variable here.	To populate this table you need to select a variable from the browse list, click on it and then add it to row, column or layers, or use it as a measure variable.	

Question 3. Of those respondents with conditions affecting stamina, breathing or fatigue, what percentage are in the lowest income quintile?

Question 4. Compared to all long-term health conditions, are conditions affecting stamina, breathing or fatigue more prevalent or less prevalent amongst people in the lowest income quintile?

7. (Optional) Explore the graphs



- Select the graphs icon on the toolbar near the top of the screen
- Choose a bar graph to represent the data in the two-way table

More detail about the Health Survey for England 2016:

<https://beta.ukdataservice.ac.uk/datacatalogue/studies/study?id=8334>