Plan Overview

A Data Management Plan created using DMPonline

Title: Accident and Emergency Performance at the University Hospitals of Leicester NHS Trust

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Affiliation: University of Edinburgh

Template: UoE Default DMP template for PGRs

Project abstract:

The NHS England accident and emergency (A&E) attendances and admissions dataset from the NHSRdatasets package will be used to analyse changes in the percentage of A&E attendance within the 4-hour standard at University Hospitals of Leicester NHS Trust (org_code RWE) broken down by department type from 2016 to 2019.

This analysis will help in resource planning during seasonal periods of poor performance.

ID: 102181

Start date: 30-05-2022

End date: 31-07-2022

Last modified: 02-07-2022

Accident and Emergency Performance at the University Hospitals of Leicester NHS Trust

Administrative Information

- CMVM - Centre for Population Health Sciences

The analysis relates to an assignment for the module 'Working with data types and structures in Python and R'.

Course tutors for 'Working with data types and structures in Python and R'.

2022-05-30

2022-07-31

Data Collection

The existing NHSRdataset for NHS England accident and emergency attendances and admissions spanning 2016 to 2019, filtered for the organisation code RWE (University Hospitals of Leicester NHS Trust) will be utilised. The subsetting of the data will be done in R and stored as csv files.

A Python data capture tool will be used to extract details about period, attendance, 4-hour breaches, performance, type and data sharing consent.

The subsequent data synthesis will be carried out in R.

Noteable, a cloud-based computational notebook service, will be used to run Python and R.

The data on Noteable will be stored on the University of Edinburgh's data storage facility, linked to the researcher's Learn account. The frequency of the data back up is based on local organisational policy.

Subsequently, the data and code will be shared onto a GitHub repository. (https://github.com/B202395/B202395_Assessment)

Documentation & Metadata

A data dictionary will be created containing the metadata relating to this analysis. Additional information relating to this research can also be found on the Git Hub repository

(https://github.com/B202395/B202395_Assessment).

Ethics & Legal Compliance

The dataset does not contain patient identifiable information. General Data Protection Regulation (GDPR) principles will be practised throughout the data lifecycle. A data protection impact assessment (DPIA) is not necessary and patient confidentiality issues do not apply.

Data protection training will be completed by all researchers.

It is not anticipated that this research will result in any intellectual property rights.

Storage and Back-Up

The data on Noteable will be stored on the University of Edinburgh's data storage facility, linked to the researcher's Learn account. The frequency of the data back up is based on local organisational policy.

The analysis will be shared on a Git Hub repository to enable review by tutors.

A report and presentation relating to the results of the analysis will be shared with the Trust.

The data will be destructed 3 months after sharing the outputs with the Trust to allow for follow-up enquiries.

Selection and Preservation

The data will be destructed 3 months after sharing the outputs with the Trust. This is to allow for follow-up enquiries.

The data will be destructed 3 months after sharing the analysis outputs with the Trust.

Data Sharing

- Yes: go to 12

The data will be shared on a GitHub repository and a data dictionary has been created to assist in search-engine indexing to reach a wider audience.

Responsibilities & Resources

The researcher (B202395) and course tutors for 'Working with data types and structures in Python and R'.

The costs relating to this analysis is minimal as the data storage is free, as is the researcher's time. The researcher will require some basic training in R and Python, data security, data management and data protection training.