

# Audit of ED wait time breach outliers

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## Administrative Information

### 1) School or Institute

- CMVM - Usher Institute

### 2) Name and Contact details of supervisor(s)

Dr Mairead Bermingham, mairead.bermingham@ed.ac.uk

### 3) Project start date

2022-06-06

### 4) Project end date

2022-06-20

## Data Collection

### 5) Data Collection

Currently all emergency care providers have a statutory obligation to collect and provide NHS Digital with Monthly Trust Situation Reports (MSitAE) (NHS Digital, 2022a, NHS Digital, 2022b). We will align ourselves with this data collection process, and request that the nominated data provider for each organisation uploads their respective A&E admissions data using our online data capture tool.

## Documentation & Metadata

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A data dictionary will be developed to ensure data consistency and usability across its lifecycle.

Metadata will be created in line with the schema for Edinburgh DataShare (Pauline Ward, 2019), which is based on Dublin Core (The Dublin Core Metadata Initiative (DCMI), 2020).

## **Ethics & Legal Compliance**

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The data that we are collecting is truly anonymised and aggregated prior to submission therefore it is not subject to UK GDPR (Information Commissioner's Office, 2022). Furthermore it is made publicly available by NHS Digital approximately 2-weeks post submission. I therefore feel that at present this project poses a relatively low risk from a privacy and confidentiality perspective (Digital Health & Care Scotland, 2022). Nevertheless formal ethical approval will be sought, and best security practices will be followed (Digital Health & Care Scotland, 2022, Isa et al., 2011, National Cyber Security Centre (NCSC), 2018, NHS Digital, 2019, NHS Digital, 2022c)

## **Storage and Back-Up**

### **8) Where will your data be stored and backed-up during the project?**

During the initial phase of the project, data will be stored on the GitHub repository. GitHub's Information Security Management System (ISMS) has been certified against the ISO/IEC 27001:2013 standard (GitHub Inc, 2022). Weekly copies will also be made and backed up on the University of Edinburgh's (UoE) Datastore facility. Once the active phase of the project is complete, the aggregate data will be deposited and stored without time limit, on the UoE DataShare research data repository.

## **Selection and Preservation**

### **9) Where will the data be stored long-term?**

The aggregate data will be deposited and stored without time limit, on the UoE DataShare research data repository.

### **10) Which data will be retained long-term?**

Raw data, R and Python scripts, along with summative reports will be stored

## **Data Sharing**

### **11) Will the data produced from your project be made open?**

- Yes: go to 12

### **12) How will you maximize data discoverability & access?**

Aggregate data, source code, and research outputs will be made publicly available through the GitHub repository. External users will be advised of limitations to this dataset, notably that 4hr breach is a very crude marker of A&E performance. The FAIR principles will be adhered to (Wilkinson et al., 2016). A Digital Object Identifiers (DOI) will be created to permanently and stably identify digital objects (Paskin, 2010).

## **Responsibilities & Resources**

### **14) Who will be responsible for the research data management of this project?**

The project lead (Student B203349) will be responsible for the research data management of this project.

### **15) Will you require any training or resources to properly manage your research data throughout this project?**

The research lead is currently undergoing RDM training