

# **Analysing Patient-Level Data using Hospital Episode Statistics (HES)**



# Workshop:

**Centre for Health Economics,  
University of York,  
York, UK**

**3 – 5 July 2017**

UNIVERSITY *of York*



## ***Overview***

The Hospital Episode Statistics contain details of all admissions to NHS hospitals in England and is the data source for a wide range of healthcare analysis for the NHS, government, pharmaceutical industry and research community. This intensive workshop introduces participants to HES data and how to handle and manipulate these very large patient-level data sets using computer software. Data manipulation and statistical analysis will be taught and demonstrated using Stata.

Participants will engage in problem-solving exercises, analysing the information in highly interactive sessions. They will be provided with Stata codes and artificial datasets that resemble the HES data which they can copy and take away.

Areas to be covered include how to:

- understand, manage and manipulate the data
- construct and analyse key variables such as waiting times, length of stay or readmission
- analyse individual patient records
- aggregate data by Healthcare Resource Group or organisation
- cost data by HRG and reference costs
- evaluate Patient Reported Outcome Measures (PROMS)
- use the data for benchmarking.

## ***Prerequisites***

Participants should have some knowledge of introductory statistics and familiarity with computer software such as Excel, Access, SPSS, SAS or Stata.

## ***Intended participants***

This workshop is offered to people in the academic, public and commercial sectors. It is useful for analysts who wish to harness the power of HES non-randomised episode level patient data to shed further light on such things as patient costs and pathways, re-admissions and outcomes and provider performance. The workshop is suitable for those working in NHS hospitals, commissioning organisations, NHS England, the Department of Health, pharmaceutical companies or consultancy companies and for health care researchers and PhD students. Overseas participants may find the tuition helpful for another country, but note that the course is very heavily oriented towards understanding HES data for England.

## ***Presenters***

Professor Andrew Street and a further eight researchers that have worked extensively with HES data as part of their research in the Centre for Health Economics, will guide participants through the potential pitfalls using case studies, practical examples and problem-solving exercises.

## ***Fees and Registration***

The Registration Fee is £900 (academic/public ) or £1,400 (commercial). The fee includes all tuition, course materials, refreshments, lunches, drinks reception and the workshop dinner.

A limited number of subsidised places are available to *full-time* PhD students. If applying, you are required to provide a summary of your research project (max. 300 words), in addition to completing the Registration Form. These places are offered at the discretion of the organisers.

Fees are VAT exempt.

### ***The workshop webpage is:***

<http://www.york.ac.uk/che/courses/patient-data/>

All **registration** is online, linked from the above webpage.

***For further information, contact*** Gillian and Louise: che-apd@york.ac.uk;  
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