SUPPLEMENTARY FIGURES

Supplementary Figure 1: Flow chart showing the data extraction and cleaning process for the selected operation types.

5,601,610 operations that are the first of their type for that patient within the period 1\textsuperscript{st} Apr 2001 to 31\textsuperscript{st} Dec 2019

- 236,345 excluded for not being the primary operation undergone within the inpatient spell
- 318,498 non-elective operations excluded

5,046,767 operations

- 1,093,794 operations prior to 1\textsuperscript{st} Apr 2006

3,952,973 operations

- 14,506 records with unknown age, age < 1, unknown sex or missing primary diagnosis

3,938,467 operations

- 13,472 “duplicate” records (patients having the same operation type recorded as happening more than once on the same day)

3,924,995 operations

- 11,936 records with discharge date recorded as being before the operation date

3,913,059 operations

- 3,203,331 occurring at an NHS hospital
- 468,259 occurring at Independent Sector Hospital Provider site
- 241,469 with unknown provider type