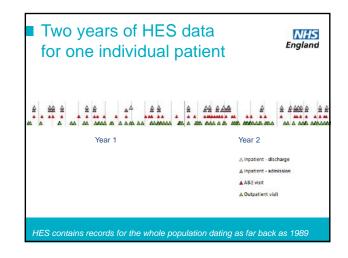


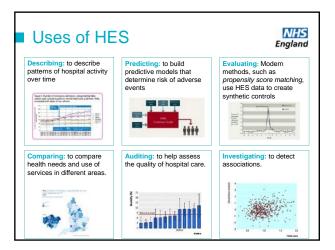
Our starting point for world class data: HES

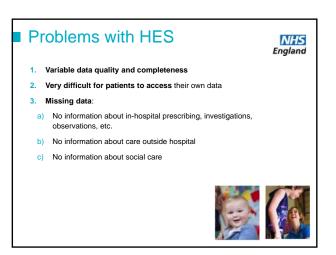


- Hospital Episode Statistics (HES) is a worldclass data service containing details of all NHS hospital activity in England
- Primary purpose is health care analysis for the NHS and the Department of Health
- Records every inpatient 'episode' (1989 onwards), outpatient attendance (2003 onwards) and A&E attendance (2007 onwards)
- Invaluable research tool tens of thousands of peer-reviewed articles and audits







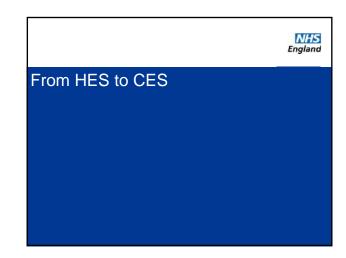


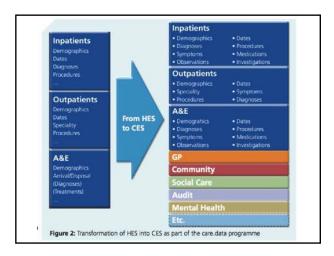
Questions that cannot be answered using HES

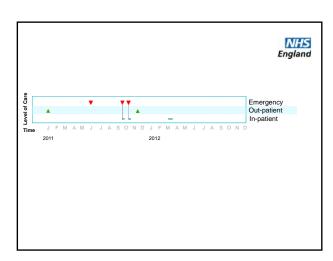


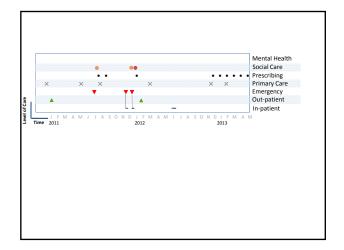
- How many patients in England received chemotherapy last year?
- What proportion of patients in St. Mary's hospital were reviewed by a consultant at least once a day?
- For patients in Birmingham versus Bristol, what was the average time between presenting to their GP with bowel symptoms to being diagnosed with colon cancer?
- What proportion of patients on Ward 20 who had highly abnormal nursing observations were reviewed by the intensive care outreach team within an hour?

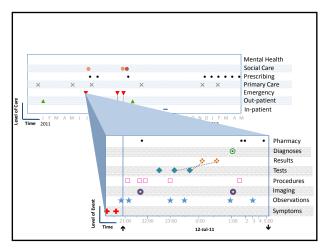




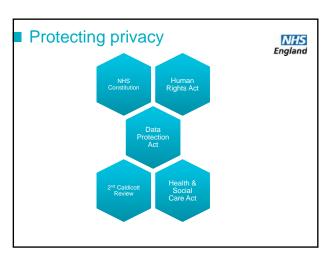


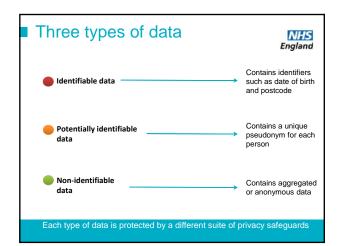


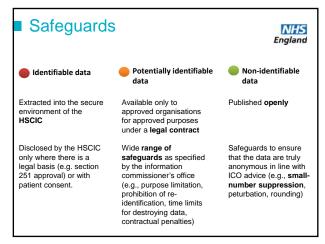


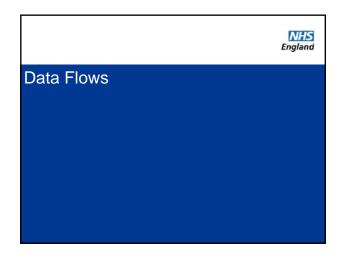


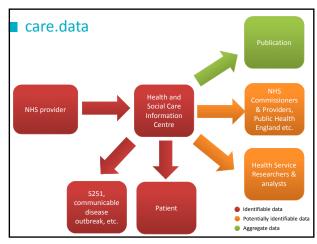












Inbound data



- Using its powers under the Health and Social Care Act 2012, NHS England is directing the HSCIC to collect primary care data and link them to HES data.
- The GP data set was reviewed by an expert subcommittee of the **Joint GP IT Committee** of the British Medical Association and the Royal College of General
- It was subsequently approved by the independent advisory group (IAG) of the GP Extraction Service (GPES)

Inbound data



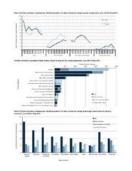
- The GP data extract will contain the following identifiers
 - NHS number
 - Date of birth
 - Gender
 - Postcode
- The HSCIC needs these four identifiers in order to link the data accurately
- No names or addresses will be extracted
- · No free text will be extracted

Data processing and linkage



- Data linkage occurs within the secure environment of the HSCIC
- Automated process with occasional checking by HSCIC analysts
- Wide range of safeguards in place to protect confidentiality, including:
 - Patient identifiers held separately from clinical coded information
 Protection against attacks from unauthorised individuals
 - Safeguards against careless or negligent behaviour by staff
 - Access to the data by HSCIC personnel is restricted
 - Wherever practicable, such staff are assigned rights either to patient identifiers or to clinical data but not both

Open data





- Aggregated or anonymous data
- · Safeguards to ensure that the data are truly anonymous (e.g., small number suppression)
- · Published openly
- Aiming for 5* standard of openness
 - Published under an open licenceStructured data

 - Non-proprietary formats (e.g. CSV)
 URLs published

 - · Linked to other data to provide context

Data for commissioners



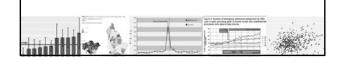
- Pseudonymous data
- Available to commissioners (i.e., NHS England, clinical commissioning groups, and local authorities)
- Used for assessing a population's health needs, planning services, and monitoring services in terms of
 • Quality

 - Efficiency
 - Equity



Data for approved analysts

- · Pseudonymous data
- Available under a legal contract to accredited organisations for approved projects only
- Wide range of safeguards in place including purpose limitation, prohibition of reidentification, contractual penalties, etc.
- Ambition is to reduce costs of accessing the data to a minimum.
- We want to encourage charities, small academic units, SMEs etc. to use the data
- No dilution of the robust information governance safeguards currently used by HES



My data



- · Personal confidential data
- · Patients already have the right to obtain their HES data but there are no systems in place yet to allow patients to download or view their own data
- · Patients will be able to:
 - Share their data with their family or carers
 - Share their data with their treating clinician
 Send their data to a trusted third party for analysis (e.g., Diabetes UK)
 - o Use their data to find patients in a similar to situation to themselves
- Analogous to the **Blue Button+** offered by the U.S. Centers for Medicare & Medicaid Services



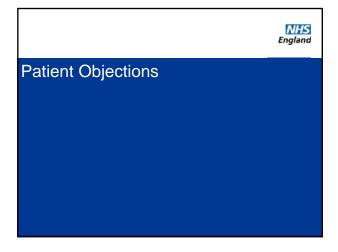
Legally mandated data flows



- Personal confidential data
- Only disclosed where there is a legal basis (e.g., Section 251 approval) or
- Examples are:

 o Section 251 of the NHS Act (use of data for research that would not otherwise be possible) if approved by the Confidentiality Advisory Group

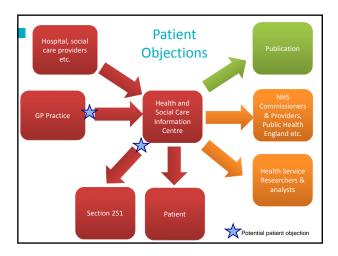
 Public Health legislation (to prevent the spread of infectious diseases)
- Court order
 Overriding public interest in disclosure (e.g., serious imminent threat to public health or national security)

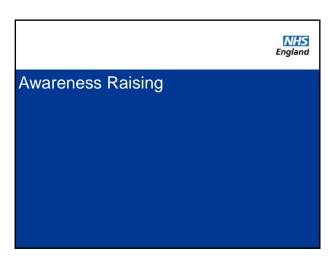


Patient objections



- The Health and Social Care Act 2012 overrides the common law duty of confidentiality requirement to seek patient consent
- NHS England and the HSCIC value patient confidentiality and recognise that some patients may have concerns.
- The Secretary of State announced that patients should be able to object to confidential data flows from GP practices to the HSCIC.
- NHS England and the HSCIC will honour such objections
- Patients can object to the disclosure of their personal confidential data
 o By their GP practice
 By the HSCIC





Fair Processing

- NHS England
- As data controllers, GPs have a duty to inform their patients about how their confidential data will be processed and shared
- This duty is known as fair processing
- NHS England has been working closely with the BMA and the RCGP to develop materials to support GPs with these duties
- In addition, NHS England is undertaking a wide range of activities at a regional and national level to raise awareness among patients, with a further announcement due shortly





Patient Materials



- Include posters, leaflets, and FAQs developed jointly by NHS England, the HSCIC, the BMA and the RCGP
- These materials were
 - reviewed by the BMA's patient liaison group
 - piloted in a small number of practices
 - then revised based on the feedback received



Local Awareness Raising



- As data controllers, GP practices need to engage proactively with their patients, for example by:
 - providing information at reception
 - including information on repeat prescriptions
 - placing information on the practice website and online appointment booking page
 - using GP practice communication channels (e.g. **newsletters**)
 - using patient participation groups to communicate messages

National Awareness Raising



- NHS England and the HSCIC are supporting practices to raise awareness, for example through
- Online and social media campaigns, (for example, there are dedicated patient support pages on the NHS Choices website, together with an article on the front webpage, which receives over 20 million hits a month)
- Articles in national media
- Sending information to tens of thousands of charities and voluntary groups, who have been asked to cascade the information to their members
- Further announcement due shortly



