

Annex B: Supporting metadata

<b>Organisation</b>	NHS Digital <a href="http://www.digital.nhs.uk/">http://www.digital.nhs.uk/</a>	
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<b>Responsible Statistician</b>	Name: Sally Jones Section: Clinical Indicators Team	
<b>Section 1: Statistical End Product</b>	<p>Seven-day Services Indicators</p> <p>The Seven-day Services Indicators are being published to provide information on how we can effectively measure both improvement and variation in care provision across the week. This publication includes indicators on the following topics:</p> <ul style="list-style-type: none"> <li>• Mortality within 30 days of admission by week-part of admission to hospital</li> <li>• Emergency readmissions within seven days of discharge from hospital by day of discharge</li> <li>• Length of stay following an emergency admission to hospital by day of admission</li> </ul>	
<b>Section 2: Original Administrative/Management Source/System</b>	<b>Name</b>	Hospital Episode Statistics (HES) data linked with death registrations data from the Office for National Statistics (ONS).
	<b>Name of the organisation responsible</b>	HES data: NHS trusts are responsible for submitting data to the Secondary Uses Service (SUS). The data are then processed by

		<p>NHS Digital to create HES data.</p> <p>Death registrations data: Office for National Statistics (ONS).</p>
	<b>Purpose of the administrative source</b>	<p>HES data: Data are submitted to SUS to enable healthcare providers to be paid for the care they deliver. The data are then processed by NHS Digital to create HES for the purposes of statistical analysis.</p> <p>Death registrations data: Official register of all deaths.</p>
	<b>Unit of Inquiry</b>	<p>HES data: Finished consultant episodes (a continuous period of admitted patient care under one consultant within one healthcare provider).</p> <p>Death registrations data: Registered deaths.</p>
	<b>Intended Coverage</b>	<p>HES data: All NHS funded admissions, outpatient appointments and A&amp;E attendances at English hospitals.</p> <p>Death registrations data: All deaths in England and Wales.</p>
	<b>Actual Coverage</b>	<p>HES data: Episodes submitted by healthcare providers to SUS.</p> <p>Death registrations data: All registered deaths in England and Wales.</p>
	<b>Geographical Coverage</b>	<p>HES data: England</p> <p>Death registrations data: England and Wales</p>

	<p><b>Lowest level of Geographical Coverage</b></p>	<p>HES data: Hospital provider site</p> <p>Death registrations data: Local authority</p>
	<p><b>Extent to which statistical end-producers can influence system?</b></p>	<p>HES data: The Standardisation Committee for Care Information (SCCI), a subgroup of the National Information Board (NIB), controls the information that is collected from hospital administration systems.</p> <p>Deaths registrations data: The death registrations data are covered by the Statistics and Registration Service Act 2007. Sections 39(4) and S42(4) apply.</p>
	<p><b>Data definitions used</b></p>	<p>HES data: HES data dictionaries are available at <a href="http://digital.nhs.uk/hesdatadictionary">http://digital.nhs.uk/hesdatadictionary</a>.</p> <p>Death registrations data: Further information is available at <a href="https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/methodologies/userguidetomortalitystatistics">https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/methodologies/userguidetomortalitystatistics</a>.</p>
	<p><b>Classification systems used</b></p>	<p>HES data: Diagnoses are coded using the 10th revision of the World Health Organisation's International Classification of Diseases (ICD-10): <a href="http://apps.who.int/classifications/apps/icd/icd10online/">http://apps.who.int/classifications/apps/icd/icd10online/</a>.</p> <p>Procedures and interventions are coded using OPCS codes: <a href="https://digital.nhs.uk/services/terminology-and-classifications/clinical-classifications">https://digital.nhs.uk/services/terminology-and-classifications/clinical-classifications</a>.</p> <p>Death registrations data: Cause of death is coded using ICD-10 (see</p>

		above).
	<b>Data Collection Process</b>  <b>1)Periodicity/ Timing</b>  <b>2)Validation process</b>	<ol style="list-style-type: none"> <li>1. Provisional monthly data and final annual data are used in the calculation of the Seven-day Services Indicators (for both HES and death registrations data).</li> <li>2. HES data: Data validation checks are carried out when trusts submit data to SUS. In addition, further data validation and cleaning is carried out as part of the production of the HES dataset. The HES Data Quality team discuss data quality issues with the information leads in organisations who have submitted the data and data quality notes are available at <a href="https://digital.nhs.uk/data-and-information/data-tools-and-services/data-services/hospital-episode-statistics/the-processing-cycle-and-hes-data-quality">https://digital.nhs.uk/data-and-information/data-tools-and-services/data-services/hospital-episode-statistics/the-processing-cycle-and-hes-data-quality</a>.</li> </ol> <p>Death registrations data: Routine data validation checks are carried out by the registrar when a death is registered. Further checks (e.g. to identify duplicate records and to check for consistency between dates of birth, death and registration) are carried out when the data are received by ONS and suspect records are referred back to register offices. Full details of the quality assurance process are available on the ONS website at <a href="http://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/qmis/mortalitystatisticsinenglandandwalesqmi">http://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/qmis/mortalitystatisticsinenglandandwalesqmi</a>.</p>
	<b>Access Arrangements</b>	HES data: HES data are not obtained directly from patients but from

	<p>hospital provider systems via the SUS. It is not feasible to obtain explicit consent from patients for the multitude of uses to which HES data can be put. NHS Digital has statutory powers through the Health and Social Care Act 2012 to receive, store and process patient identifiable data. Access to this level of data by another organisation is controlled by NHS Digital’s Data Access Request Service (DARS). Individuals can choose to opt-out of their information being shared or used for any purpose beyond providing care. Further information on the different types of opt-outs is available at <a href="http://digital.nhs.uk/yourinfo">http://digital.nhs.uk/yourinfo</a>.</p> <p>Death registrations data: Access to mortality data is governed by the Statistics and Registration Service Act 2007. Sections 39(4) and S42(4) apply.</p>
<b>Dissemination Procedures</b>	n/a
<b>Publication procedure</b>	n/a
<b>Timing/Periodicity of public release</b>	n/a
<b>Nature of changes to system that could impact on statistics</b>	Any change to the data could affect the statistics. These are considered on an individual basis and are explained and footnoted in publications where appropriate.
<b>Section 3: Change Process</b>	HES data: System changes are implemented using Information Standards Notices (ISNs), which are published at <a href="https://digital.nhs.uk/data-and-information/information-standards/information-standards-and-data-collections-including-extractions/publications-and-notifications/information-standards-notice">https://digital.nhs.uk/data-and-information/information-standards/information-standards-and-data-collections-including-extractions/publications-and-notifications/information-standards-notice</a> .

	<p>Death registrations data: All changes and updates are detailed in the documentation released by ONS alongside the data. National consultations and expert peer reviews are all conducted by ONS.</p>	
<p><b>Section 4: The subsequent statistical production process</b></p>	<p><b>Validation procedures</b></p>	<p>Data processing, statistical modelling and small number suppression are carried out according to the published methodology specification document. Checks are carried out at each stage. Validation checks are also carried out on the output files e.g. to ensure that totals are consistent with their component parts.</p> <p>The HES data quality notes are also reviewed and details of any data quality issues impacting on the publication are highlighted in the outputs and in the background quality report.</p>
	<p><b>Quality assessment</b></p>	<p>A background quality report is produced as part of each publication. This can be downloaded from: <a href="https://digital.nhs.uk/data-and-information/publications/clinical-indicators/seven-day-services">https://digital.nhs.uk/data-and-information/publications/clinical-indicators/seven-day-services</a>.</p>
	<p><b>Periodicity of release</b></p>	<p>Biannual</p>
	<p><b>Potential impact of changes to the source on the statistics produced</b></p>	<p>Substantive changes to the source data will result in breaks in the data series e.g. new diagnosis codes and changes in geographical boundaries.</p>
	<p><b>Procedures for mitigating such discontinuities</b></p>	<p>Discontinuities are assessed on an individual basis and are explained and footnoted in publications where appropriate.</p>