Public Health England

Protecting and improving the nation's health

ICU Data Capture System
User Manual

Benchmarking Dashboard

About Public Health England

Public Health England exists to protect and improve the nation's health and wellbeing, and reduce health inequalities. It does this through world-class science, knowledge and intelligence, advocacy, partnerships and the delivery of specialist public health services. PHE is an operationally autonomous executive agency of the Department of Health.

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Document History

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Using the Benchmarking Dashboard

Introduction

There are up to three report dashboards available to users depending on their permissions and access to the system. The dashboards provide an overview of data on the system to direct user's workflow and highlight outstanding actions. The available dashboards are:
- Summary (summary of cases entered onto the system, data completeness and sign-off);
- Benchmarking (allows users to compare their organisation against other organisations in terms of rates and counts of reported cases);
- Data Quality (completeness of data entry of cases on the system).

Benchmarking Dashboard

The benchmarking dashboard allows users to compare a specific organisation (for example an NHS acute Trust) against a selection of other user-specified Trusts. This report can display both counts and rates for the selected time period. The default is for this report to display rates because count data does not take into account the size of the organisations being compared. We therefore recommend running this report using a rate (NB: although useful for benchmarking, cacluated rates should still be interpreted with caution as they are undjusted for such factors as age, gender, case mix etc.)

When first landing on the Data Quality Dashboard the parameter selections are hidden. To view and modify the available parameters, click on the small arrow above the report (pictured below). The parameters can be hidden by clicking this arrow again.

Figure 1: Accessing the Benchmaking Dashboard Parameters Screen

The parameters can be adjusted using the various drop-down menus available (Figure 2). An overview of the different report parameters on the Benchmarking Dashboard can be found in Table 1.

Figure 2: Data Quality Report Parameters

Table 1: Data Quality Report Parameter Options

Parameter	Comment	Parameter Type	Note
Region	Changes the region(s) that the data are presented for in this report.	Multi-select drop-down	The default value is the users region.
Summarisation Type	Changes whether the data are presented in terms of a count or a rate.	Drop-down	The default value is 'Rate'.
Organisation Type	Changes the organisation type the report displays the data by.	Drop-down	The default value is the users organisation.
Chart Type	Changes how the data is displayed in the chart.	Drop-down	The default value is 'Bar Chart'.
Comparator	Changes which organisations are used for benchmarking against.	Multi-select drop-down

NB: The drop-down menu can be made larger, so that you can read the full name of the organisations, by clicking on and dragging the bottom right-hand corner to a wider point. | The default organisation will be the organisation that you are signed into the system as.

NB: The list of available organisations will be limited by the 'Region' selected previously. |
| Year Type | Changes whether the data is displayed in | Drop-down | The default is 'Financial Year'. |

Parameter	Comment	Parameter Type	Note
	terms of Financial or Calendar Year.		
Organisation	Changes the organisation used for benchmarking against.	Drop-down	The default organisation will be the organisation that you are signed into the system as.
Data Collection	Changes which Data Collection the data is presented in this report.	Drop-down	The default value is MRSA.
Year	Changes the year for which data is displayed.	Drop-down	The default value is the current year. NB: Whether this is a financial year or a calendar year of data is displayed will depend on the 'Year Type' selection.
Denominator	Changes the denominator used for rate calculation within the report.	Drop-down	This option is only available if Summarisation Type is set to Rate. The default value is dependent on the organisation type that you selected earlier. For Intensive Care Units, the default denominator for ICU Blood Stream Infections will be 'Occupied bed days (per 1,000)'. Denominator options also vary according to the value entered in the "Source" parameter and the 'Limit Report To' pramaeter. For example, if an ICU user selects 'ICU Blood Stream Infection' in the 'Data

Parameter	Comment	Parameter Type	Note
			Collection' parameter; 'CVC-Associated' in the 'Source' parameter, and 'All' in the 'Limit Report To' parameter, the default denominator will be 'CVC days (per 1,000)'. Further information on denominators and appropriate denominator selection can be found in the Denominators User Guide.
Denominator Period	Changes the denominator year applied for rate calculation.	Drop-down	The default value is 'Most Applicable'. When this option is selected the system will automatically select the time period of the denominator to cover the 'Period From' and 'Period To' dates entered. This option is only available if 'Summarisation Type' is set to 'Rate'. NB: whether financial year or calendar year values are displayed will depend on the 'Year Type' selected. Further information on denominators and appropriate denominator selection can be found in the Denominators User Guide.
Frequency	Changes the frequency at which data are displayed.	Drop-down	The default value is 'Monthly'
Sector	Changes the sector	Drop-down	The default value will

Parameter	Comment	Parameter Type	Note
	for which this report presents data.		be 'NHS' for NHS organisations and 'IS' for Independent Healthcare Providers.
Limit Report To	Allows the chart data to present: All cases, or cases by apportioning (Trust apportioned or Non-Trust apportioned), or PIR assignment (Trust assigned, CCG assigned, Third Party Assigned).	Drop-down	The default is 'All'

Once relevant selections have been made, click the 'View Report' button (Figure 2) to display the associated chart with your parameter selections applied.

The report output provides a comparison of an organisation (usually the user's organisation) against selected comparators of the same organisation type. Output is available as either a Bar Chart or a Dot Plot.

When the parameter 'Chart Type' is set to 'Bar Chart' the selected organisation will be represented by red bars. The comparator organisations are represented by grey bars (Figure 3).

Figure 3: Data Quality Report Output (Bar Chart)

When the parameter 'Chart Type' is set to 'Dot Plot' the selected organisation will be represented by red triangles. The comparator organisations are represented by grey circles (Figure 4).

Figure 4: Data Quality Report Ouput (Dot Chart)
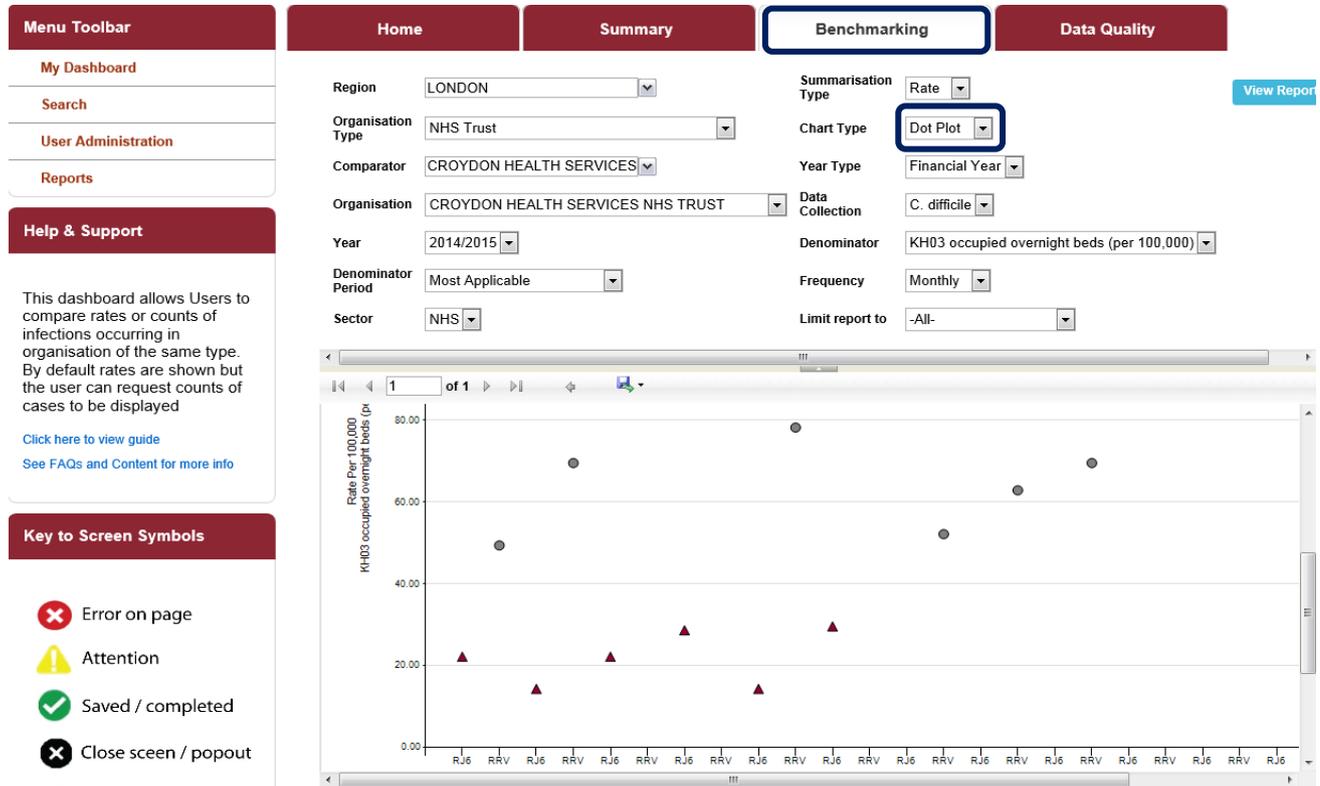
Regardless of the 'Chart Type' parameter selected (Bar Chart or Dot Plot) the report output is also presented in table format underneath the generated data chart. Data are presented by organisation (name and code) as well as month (Figure 5).

Figure 5: Data Quality Report Output (Table)

After running the Benchmarking Report with your selected parameters you can export the output by clicking the small disk icon above the graph (Figure 6). This provides a drop-down menu with a choice of file formats (csv, Excel, pdf or Word). Click the format of your choice and follow the dialogue boxes to save the report.

Figure 6: Data Quality Dashboard 'Export Button'