

Data Quality Maturity Index (DQMI) Power BI Interactive Report User Guide

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Purpose of Document

This document explains the purpose and content of the DQMI Power BI Interactive Report and the interactions that can be made with each page.

The Power BI tool is updated at each quarterly DQMI publication so that more data becomes available within the same report. It is important to note that as the DQMI methodology evolves, it becomes difficult to consistently measure provider performance from one report to another. It is therefore important to understand the improvements that have been made to each DQMI publication. The changes are summarised in the DQMI methodology document available at <http://content.digital.nhs.uk/dq>.

Page Descriptions

Tab 1 - Front Cover

Overview

The front cover tab details what the DQMI is and what it contain, a link to the user guide and contact details associated with the DQMI.

Data Quality Maturity Index

The Data Quality Maturity Index (DQMI) is a new quarterly publication intended to highlight the importance of data quality in the NHS. It provides data submitters with timely and transparent information about their data quality. The first publication focused on the quality of a set of core data items identified by a National Information Board (NIB) working group as being important to commissioners and regulators. Subsequent and future versions of the DQMI have been, and will be, refined based on stakeholder feedback, and further DQMI's will be developed to include additional data items and datasets submitted nationally by providers.



The DQMI publication shows data grouped by financial quarters, and each quarter can be viewed and compared against each other.

The DQMI includes data from the following datasets:

Admitted Patient Care (APC)
 Outpatient (OP)
 Accident and Emergency (AE)
 Mental Health Services Dataset (MHSDS)
 Improving Access to Psychological Therapies (IAPT)
 Diagnostic Imaging Dataset (DID)
 Maternity Services Dataset (MSDS)

Contents

The DQMI Power BI has 3 tabs:

- DQMI Score Distribution - The score distribution tab presents the DQMI score for all included organisations in a graphical format. It allows the user to immediately see the range of scores and provides a quick and easy way to see which organisations fall within each percentage banding.

- DQMI Peer Review Interactive Report - The Peer Review Interactive Report tab again presents the DQMI score for all included organisations in a graphical format. It allows the user to compare performance between different commissioning regions, regions and providers. The search function can be used to easily find the organisations that the user wants to group and compare. The graph has drill down functionality to allow the user to change the level of data shown (please see below for the available drill down options).

- Data Item Interactive Report - The Peer Review Interactive Report tab again presents the DQMI score for all included organisations in a graphical format. It allows the user to compare performance between different commissioning regions, regions and providers. The search function can be used to easily find the organisations that the user wants to group and compare. The graph has drill down functionality to allow the user to change the level of data shown (please see below for the available drill down options). The Data Item Interactive Report tab presents the field proportion for all included organisations in a graphical format. It allows the user to compare performance between different commissioning regions, regions and providers at a more granular level. It is also intended to allow users to discover which fields are having the greatest impact on their overall DQMI score.

Note: The percentage shown is a field proportion and not a DQMI score.

User Guide

For a user guide please click [here](#)



Contact Details

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 Press enquiries should be made to: Media Relations Manager: Telephone: 0300 303 3888

[Go to page 2 for DQMI Score Distribution](#)

Features

- DQMI overview
- Power BI contents
- Link to user guide
- Contact details

Tab 2 - Data Quality Maturity Index - Score distribution

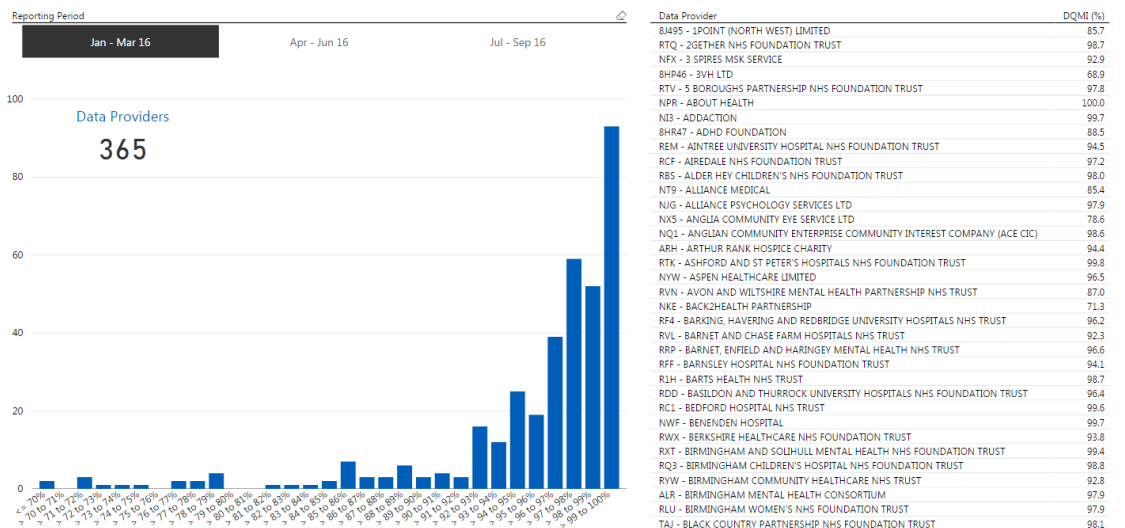
Overview

The score distribution tab presents the DQMI score for all included organisations in a graphical format. It allows the user to immediately see the range of scores and provides a quick and easy way to see which organisations fall within each percentage banding.

Data Quality Maturity Index - Score Distribution

User Guide

For a user guide please click [here](#)



[Go to page 3 for DQMI Peer Review Report](#)

Features

- The information can be filtered by Reporting Period by utilising the black button at the top left of the page
- The table shows the DQMI Score for providers based on current filters applied
- The graph shows a count of providers within a percentage category based on current filters applied
- Bar/s within the graph can be clicked to update the table and show filtered information about that percentage banding
- Multiple bars can be selected at one time by selecting a bar and holding the 'Ctrl' key whilst making further selections
- Link to user guide

Tab 3 - Data Quality Maturity Index – Peer Review Interactive Report

Overview

The Peer Review Interactive Report tab again presents the DQMI score for all included organisations in a graphical format. It allows the user to compare performance between different commissioning regions, regions and providers. The search function can be used to easily find the organisations that the user wants to group and compare. The graph has drill down functionality to allow the user to change the level of data shown (please see below for the available drill down options).

Data Quality Maturity Index - Peer Review Interactive Report

Note: When graph is showing as either commissioning region or region the score is an average DQMI Score across data providers in those areas.
Note: A clear filters "rubber" is available top right of filter boxes, you will need to hover over the filter boxes to see this.

User Guide

For a user guide please click [here](#)



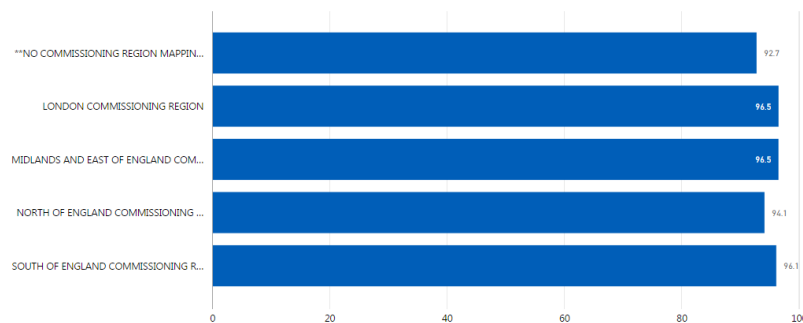
Note: Scroll bar available on the below data slicer

Note: Scroll bar available on the below data slicer

Reporting Period <input checked="" type="checkbox"/> Jan - Mar 16 <input type="checkbox"/> Apr - Jun 16 <input type="checkbox"/> Jul - Sep 16	Commissioning Region <input type="checkbox"/> **NO COMMISSIONING REGION MAPPING AVAILABLE <input type="checkbox"/> LONDON COMMISSIONING REGION <input type="checkbox"/> MIDLANDS AND EAST OF ENGLAND COMMISSIONING REG... <input type="checkbox"/> NORTH OF ENGLAND COMMISSIONING REGION <input type="checkbox"/> SOUTH OF ENGLAND COMMISSIONING REGION	Region <input type="checkbox"/> **NO REGION MAPPING AVAILABLE <input type="checkbox"/> NHS ENGLAND LONDON <input type="checkbox"/> NHS ENGLAND MIDLANDS AND EAST (CENTRAL MIDLANDS) <input type="checkbox"/> NHS ENGLAND MIDLANDS AND EAST (EAST) <input type="checkbox"/> NHS ENGLAND MIDLANDS AND EAST (NORTH MIDLANDS)	Data Provider <input type="text"/> <input type="checkbox"/> B1495 - 1POINT (NORTH WEST) LIMITED <input type="checkbox"/> RTQ - 2GETHER NHS FOUNDATION TRUST <input type="checkbox"/> NFX - 3 SPIRES MSK SERVICE <input type="checkbox"/> BHP46 - 3VH LTD
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Commissioning Region

Note: Drill down available in the graph below using the arrows (you will need to hover over the graph to see arrows). Refer to the [user guide](#) for further information.
e.g. To see comparison by of providers please click the "Go to next level in hierarchy" drill down arrow twice.




Go to page 4 for Data Item Report

Features

- The page can be filtered by:
 - Reporting Period
 - Commissioning Region (Selection boxes and/or Map can be used)
 - Region
 - Data Provider
- Data Provider Name has a search function
- The graph shows the DQMI Score based on current filters applied
Note: Default view of graph shows Average DQMI score for commissioning regions
- The level of data shown in the graph can be changed using the drill down arrows, the available arrows are explained below:
(Note: You must hover over the graph to show the available arrows)


➤  Drill Up

Use this button to move back up through the levels that have been previously drilled through

➤  Go to next level in hierarchy

Use this button to jump through the hierarchy of the data, as per the following order, Commissioning Region -> Region -> Data Provider Code -> Data Provider Name


This means as you click the button the graph will jump to the next level as opposed to expand. e.g. if you are at the top level (Commissioning Region) and you click the arrow, you will jump down to all regions and the labels will show region name. To see a combination use the button below. **(Use this option as the best to compare providers)**

➤  Expand all down one level in the hierarchy

Use this button to expand through hierarchy of the data, as per the following order; Commissioning Region -> Region -> Data Provider Code -> Data Provider Name

This means as you click the button the data will expand through each level, e.g. if you are at the top level (Commissioning Region) and you click the button, the graph labels will display a bar per Commissioning Region & Region combination.

Note: Each of the above hierarchies buttons are greyed out when the other is used e.g. if you have drilled through using “Go to next level in hierarchy” then you will need to go back to the top level before the “Expand all down one level in the hierarchy” becomes available again

➤  Click to turn on Drill Down

Use this button to enable drill down via bar/s, this means once this button is clicked you will be able to click each bar which will drill through the data, this has a similar effect as the “Go to next level in hierarchy” arrow in that it jumps to the next level rather than expands the levels, the difference is that it does this for the selections made e.g. it will only show the regions for the clicked commissioning region rather than all regions.

- [Link to user guide](#)

Tab 4 - Data Item Interactive Report

Overview

The Data Item Interactive Report tab presents the field proportion for all included organisations in a graphical format. It allows the user to compare performance between different commissioning regions, regions and providers at a more granular level. It is also intended to allow users to discover which fields are having the greatest impact on their overall DQMI score.

Note: The percentage shown is a field proportion and not a DQMI score.

Data Item Interactive Report

Note: A clear filter 'rubber' is available top right of filter boxes, you will need to hover over the filter boxes to see this.

User Guide

For a user guide please click [here](#)



Reporting Period

 Jan - Mar 16
 Apr - Jun 16
 Jul - Sep 16

Commissioning Region

 **NO COMMISSIONING REGION MAPPING AVAILABLE
 LONDON COMMISSIONING REGION
 MIDLANDS AND EAST OF ENGLAND COMMISSIONING RE...
 NORTH OF ENGLAND COMMISSIONING REGION
 SOUTH OF ENGLAND COMMISSIONING REGION

Region

 **NO REGION MAPPING AVAILABLE
 NHS ENGLAND LONDON
 NHS ENGLAND MIDLANDS AND EAST (CENTRAL MIDLANDS)
 NHS ENGLAND MIDLANDS AND EAST (EAST)
 NHS ENGLAND MIDLANDS AND EAST (NORTH MIDLANDS)

Data Provider

 81495 - 1POINT (NORTH WEST) LIMITED
 RTQ - 2GETHER NHS FOUNDATION TRUST
 NFX - 3 SPRES NISK SERVICE
 8HP46 - 3VH LTD

Dataset

ACCIDENT AND EMERGENCY ADMITTED PATIENT CARE DIAGNOSTIC IMAGING IMPROVING ACCESS TO PSYCHOLOGICAL THERAPIES MATERNITY SERVICES MENTAL HEALTH SERVICES OUTPATIENT

Data Item	Data Provider	Dataset	Data Item	Field Proportion (%)
<input type="checkbox"/> ACTIVITY TREATMENT FUNCTION CODE	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	ETHNIC CATEGORY	100.0
<input type="checkbox"/> ADMINISTRATIVE CATEGORY CODE	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)	100.0
<input type="checkbox"/> ADMINISTRATIVE CATEGORY CODE (ON ADMISSION)	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	NHS NUMBER	*
<input type="checkbox"/> ADMISSION METHOD (HOSPITAL PROVIDER SPELL)	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	ORGANISATION CODE (CODE OF COMMISSIONER)	100.0
<input type="checkbox"/> CARE PROFESSIONAL MAIN SPECIALTY CODE	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	PERSON GENDER CODE CURRENT	100.0
<input type="checkbox"/> CONSULTANT CODE	81495 - 1POINT (NORTH WEST) LIMITED	IMPROVING ACCESS TO PSYC...	POSTCODE OF USUAL ADDRESS	99.6
<input type="checkbox"/> DECIDED TO ADMIT DATE	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	SOURCE OF REFERRAL FOR MENTAL HEALTH	100.0
<input type="checkbox"/> DISCHARGE DATE (HOSPITAL PROVIDER SPELL)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ACTIVITY TREATMENT FUNCTION CODE	100.0
<input type="checkbox"/> DISCHARGE DESTINATION CODE (HOSPITAL PROVIDER SPELL)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ADMINISTRATIVE CATEGORY CODE (ON ADMISSION)	100.0
<input type="checkbox"/> DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ADMISSION METHOD (HOSPITAL PROVIDER SPELL)	100.0
<input type="checkbox"/> ESTIMATED DATE OF DELIVERY METHOD (AGREED)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	CARE PROFESSIONAL MAIN SPECIALTY CODE	100.0
<input type="checkbox"/> ETHNIC CATEGORY	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	CONSULTANT CODE	99.8
<input type="checkbox"/> ETHNIC CATEGORY (MOTHER)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	DECIDED TO ADMIT DATE	62.6
<input type="checkbox"/> GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION ...)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	DISCHARGE DATE (HOSPITAL PROVIDER SPELL)	100.0
<input type="checkbox"/> NHS NUMBER	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	DISCHARGE DESTINATION CODE (HOSPITAL PROVIDER SPELL)	100.0
<input type="checkbox"/> NHS NUMBER (MOTHER)	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)	100.0
<input type="checkbox"/> NHS NUMBER STATUS INDICATOR CODE	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ETHNIC CATEGORY	100.0
	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)	100.0
	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	NHS NUMBER	98.3
	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	NHS NUMBER STATUS INDICATOR CODE	100.0
	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ORGANISATION CODE (CODE OF COMMISSIONER)	96.8
	RTQ - 2GETHER NHS FOUNDATION TRUST	ADMITTED PATIENT CARE	ORGANISATION CODE (CODE OF PROVIDER)	100.0

Features

- Page Can be filtered by:
 - Reporting Period
 - Commissioning Region
 - Region
 - Data Provider
 - Dataset
 - Data Item
- Data Provider Name has a search function
- The table shows field proportion valid and complete for providers based on current filters applied
- Link to user guide

Changes from Previous Versions

The interactive report is evolving with each DQMI publication. This means that there are notable changes between the Power BI report that accompanied DQMI-2 and DQMI-3 and the report that has been published for DQMI-4.

From DQMI-3 there have been small developments to the user functionality of the Power BI Interactive Report. A summary of these changes is listed below:

- Inclusion of front cover
- Link to user guide placed on front cover
- Link to user guide placed on each tab
- Provider submissions from a 'closed' organisation code were marked as invalid in the DQMI-2 Power BI report. To align with the current DQMI publication -that counts closed organisations as valid but marks them with a closed notation- the data that feeds the Power BI tool has been updated to count all closed organisation codes for all included data periods as valid. This means that there is a purposeful inconsistency between the data in DQMI-2 (October to December 15) and the Power BI data for the periods of DQMI-3 (January to March 2016) and DQMI-4 (July to September 2016).

Contact Us

If you require further assistance please contact:

NHS Digital's Corporate Data Quality Team: DQAteam@nhs.net