

Data Quality
Review (DQR)
Desk Review
Tools and
Methods
Workshop

Session 2: Installation and Configuration of Tools

DHIS 2 Data Quality App and
Excel-based tool



Learning Objectives

SESSION 2

Installation and
configuration of tools

During this session participants will:

- Learn how to install the DHIS2 app from the DHIS2 “app store”.
- Know system requirements for use of the tools
- Learn to configure the core indicator set, including selection of appropriate indicators and data tables
- Learn to configure the Excel-based tool for different country-specific scenarios
- Learn to set benchmarks for quality in the tools
- Learn to set up comparisons between related indicators
- Learn to select the appropriate methods for identifying outliers
- Learn to configure comparisons for external consistency
- Learn to configure a comparison of denominator data sources
- Practice setting up DHIS2 Desk Review app and Excel-based tool for country use

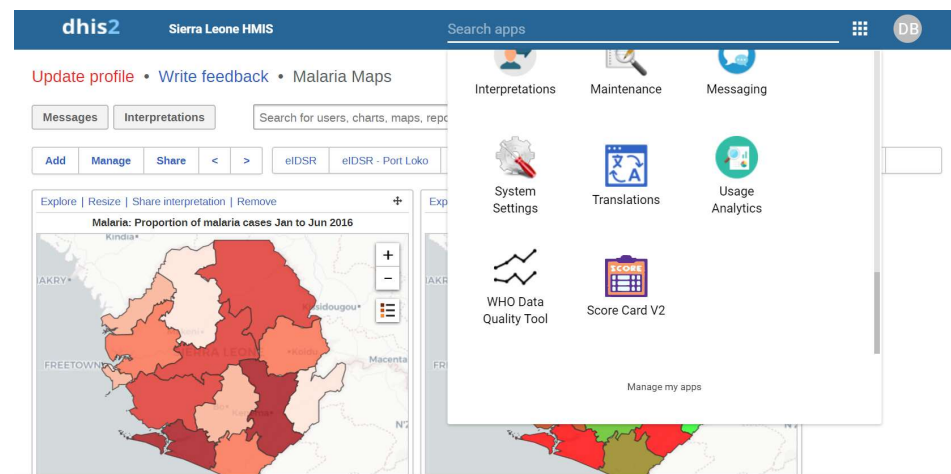


Install the WHO Data Quality App

SESSION 2

Installation and configuration of tools

- From the DHIS 2 home page for the local instance of DHIS 2, navigate to the app store and select the WHO Data Quality Tool.
- Once the app has downloaded a yellow “up arrow” will appear next to the app in the app manager.




- Click to “install” the app on the local instance.
- Once installed the app should be available in the apps section of DHIS



Configuration of DHIS 2 app

- Once the DQR app is installed it requires configuration for the analysis.
- Configuration involves
 - selecting the appropriate indicators for the various analyses,
 - setting quality benchmarks,
 - selecting the different types of comparisons that will be made.
- A dashboard can also be set up to automatically display the results of analyses configured during the setup process.

 **Data Quality Tool** Dashboard Analysis ▾ Annual Report About More ▾ Exit

Administration

This module is used for configuring the Data Quality Tool, and mapping the proposed data quality indicators to data elements and indicators in the DHIS 2 database. This configuration is used as the basis for the Annual Report, and the numerator and numerator group configuration is also used for the Dashboard.

[Numerators](#) [Numerator groups](#) [Numerator relations](#) [Numerator quality parameters](#) [Denominators](#) [Denominator relations](#) [External data comparison](#)

Please map the reference numerators to the corresponding data element/indicator in this database.

Group	Reference numerator	Core	Data element/indicator	Dataset	
General Service Statistics	OPD visits		OPD Consultation	Hospital Outpatient Morbidity and Mortality - HF1	Edit Clear
HIV/Aids	PLHIV in HIV care	✓			Edit Clear
HIV/Aids	PLHIV on ART				Edit Clear
HIV/Aids	Pregnant women on ART (PMTCT)				Edit Clear
HIV/Aids	Retained on ART 12 months after initiation				Edit Clear
HIV/Aids	Virally suppressed ART-clients				Edit Clear
Immunization	DPT 1				Edit Clear
Immunization	DPT 2				Edit Clear
Immunization	DPT 3	✓	Pentavalent 3rd dose	HF2 - Children's preventive services	Edit Clear

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Configuration of the DHIS 2 app

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- Configuring the DHIS 2 DQR app requires detailed knowledge of the data structure for the local instance of DHIS 2 in country.
- Often there are several data tables with information that can inform the data quality metrics, some more complete, or appropriate than others.
- Data elements in the DHIS 2 may be disaggregated (e.g. by gender and age) and new indicators may need to be created to evaluate the indicator holistically.
- Ensure that sufficient expertise is available to configure the DHIS 2 DQR app in advance of conducting the analysis.



Configuration of the DHIS 2 app

- Once the tool and dashboards are configured they can be updated periodically with current data to appreciate the changes in data quality over time.
- In fact, different users can configure their own dashboards for whatever level or region desired.
- Thus the tool can serve as a powerful source of routine information on data quality for program and data managers throughout the health sector and at different levels.

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Practice – Configure the DHIS 2 WHO Data Quality app

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Exercise - Configure the DQR Desk Review Tool for analysis (Excel and DHIS 2 app)

Your instructor will walk you through:

- Brief demonstration of the tool
- Configuration of a handful of indicators
- Setting quality thresholds for data quality metrics
- Setting comparisons for consistency over time, and between related indicators

