

HIV STRATEGIC INFORMATION FOR IMPACT

MODULE FOR ASSESSING AND STRENGTHENING THE QUALITY OF VIRAL LOAD TESTING DATA WITHIN HIV PROGRAMMES AND PATIENT MONITORING SYSTEMS

SEPTEMBER 2020

MPLEMENTATION TOOL

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CONTENTS

ACKNOWLEDGEMENTS	i٧
ABBREVIATIONS AND ACRONYMS	٧
GLOSSARY	V
1. INTRODUCTION	1
2. GOAL, OBJECTIVES AND TARGET AUDIENCE	2
2.1. Goal 2.2. Specific objectives 2.3. Target audience	2
3. VL INDICATORS	3
4. IMPLEMENTATION OF ROUTINE DQ ASSURANCE ACTIVITIES	5
4.1. Overview 4.2. Routine DQA 4.3. DQ monitoring through supportive supervision 4.4. DQ monitoring using LQAS 4.5. Site-level routine review of data and performance	9 11 11
5. OUTPUTS OF DQ ASSURANCE ACTIVITIES	13
6. FOLLOWING UP DQ ASSURANCE ACTIVITY FINDINGS	14
7. ETHICAL CONSIDERATIONS	16
8. COST CONSIDERATIONS	16
REFERENCES	17
WEB ANNEXES Web Annex A. Informed consent and confidentiality form https://oppe.ukb.int/inic/histogory/hondle/1006F/23620F/0780340010300.opg.ndf	

https://apps.who.int/iris/bitstream/handle/10665/336205/9789240010390-eng.pdf

Web Annex B. Map of patient, viral load sample and documentation flow

https://apps.who.int/iris/bitstream/handle/10665/336206/9789240010406-eng.pdf

Web Annex C. Short clinical facility viral load service and data quality tool

https://apps.who.int/iris/bitstream/handle/10665/336207/9789240010413-eng.pdf

Web Annex D. Detailed clinical facility viral load assessment tool

https://apps.who.int/iris/bitstream/handle/10665/336208/9789240010420-eng.pdf

Web Annex E. Tools for recounting viral load testing indicators

https://apps.who.int/iris/bitstream/handle/10665/336209/9789240010437-eng.pdf

Web Annex F. Generic templates to display the output of data quality assurance activities https://apps.who.int/iris/bitstream/handle/10665/336212/WHO-UCN-HHS-20.02-eng.xlsx

Web Annex G. Site summary template for external data quality assurance activities

https://apps.who.int/iris/bitstream/handle/10665/336210/9789240010444-eng.pdf

Web Annex H. Generic budgets for recommended data quality assurance activities https://apps.who.int/iris/bitstream/handle/10665/336213/WHO-UCN-HHS-20.03-eng.xlsx

Web Annex I. Site-level template for a data quality improvement action plan

https://apps.who.int/iris/bitstream/handle/10665/336211/9789240010451-eng.pdf

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ABBREVIATIONS AND ACRONYMS

ART	antiretroviral therapy
ARV	antiretroviral
DBS	dried blood spot
DHIS2	District Health Information Software
DQ	data quality
DQA	data quality assessment
DQI	data quality improvement
EMR	electronic medical record
Global Fund	Global Fund to Fight AIDS, Tuberculosis and Malaria
LIMS	laboratory information management system
LQAS	lot quality assurance sampling
PEPFAR	United States President's Emergency Plan for AIDS Relief
PLHIV	People living with HIV
ТВ	tuberculosis
UNAIDS	Joint United Nations Programme on HIV/AIDS
USAID	United States Agency for International Development
VL	viral load
WHO	World Health Organization

GLOSSARY

Cross-validation: Comparison of the consistency of key data elements between different sources, in which patient files are usually used as the main source document or gold standard.

Data quality (DQ) assurance activity: used as an umbrella term to refer to the range of DQ activities recommended in this module, including routine DQ assessment, DQ monitoring via supportive supervision or using lot quality assurance sampling (LQAS) and routine site level data/performance review.

Data quality assessment: one of the DQ assurance activities recommended in this module. Its primary activity involves recounting and verifying indicators to enable comparison with those reported to ministries of health. This module recommends routine data quality assessment. However, nationally representative data quality assessments or audits may be implemented to validate national viral suppression data or based on programmatic needs, including findings of previous routine DQ assurance activities that indicate persistent or substantial DQ challenges or discrepancies between different data systems or partner data.

Data quality improvement: a process designed to strengthen the quality of data and the underlying data management and reporting systems. It encompasses a broad range of activities, including but not limited to training and mentoring, developing standard operating procedures for data entry, cleaning and management, deduplicating data, updating electronic and paper data sources and DQ assurance activities.

Decision rule: a rule used for DQ monitoring using lot quality assurance sampling (see below for definition). The decision rule determines how many records (such as patient files) need to be sampled within the source document (such as an antiretroviral therapy register) for the entire lot to be classified as acceptable.

Lot: a lot is the collection of patient records in a source document: for example, a register.

Lot quality assurance sampling: a DQ assurance activity described in this module that uses a classification method to define acceptable and unacceptable levels of data completeness and consistency.

Person-centred monitoring: refers to monitoring that places the person at the centre of accessing and measuring a sequence of health services (such as from testing to linkage to treatment) and involves people and benefits to them in the monitoring process. In the context of this publication, it refers to a shift from measuring services (such as the number of HIV tests or the number of people receiving treatment) to supporting people receiving HIV and health services by putting them at the centre of monitoring.

Source document: in this module, this describes the main document (usually patient charts or files) used as the gold standard to assess and cross-validate data elements captured in other data sources such as registers, electronic medical records and laboratory information management systems.

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