## **Demand and Readiness Tool** for Assessing Data Sources in Health Information Systems (HIS DART)

**MODULE 4:** 

## Logistics Management Information System



PRESCRIPTION



This questionnaire with its corresponding instructions is one of 12 HIS data source assessment modules. The questionnaire is designed to capture information that informs health authorities and other stakeholders about the alignment of the HIS data source with relevant standards. The full series of assessment modules is available at https://www.measureevaluation.org/resources/tools/dart/.

For more information, see the corresponding data source module in Health Information System Strengthening: Standards and Best Practices for Data Sources, available here: https://www.measureevaluation.org/resources/publications/tr-17-225.

|      | Module 4 Questionnaire: Logistics Management Information System   |   |                  |             |  |
|------|---|---|------------------|-------------|--|
| No.  | QUESTION  | RESPONSE  |                  | SKIPS       |  |
| 1    | The World Health Organization (WHO) recommends that countries adopt and implement a national medicine policy (NMP) as a "commitment to a goal and a guide for   |   |                  |             |  |
|      | action" to define a framework for setting and monitoring medium- to long-term objectives in the pharmaceutical sect Does [COUNTRY] have an NMP, or if no NMP, any official or unofficial documents that set monitoring objectives in the pharmaceutical sector?   |   |                  | SKIP TO Q4  |  |
| 2    | Does the NMP or other official instrument address core topics that include the following:   | YES   | NO               | Skii TO QT  |  |
|      | (a) Equitable availability of essential medicines (b) Affordability of essential medicines  | 1 1   | 2                |             |  |
| 3    | In which year was the NMP or the unofficial document published or last updated, whichever is most recent?  RECORD YEAR  | YEAR  |                  |             |  |
| 4    | A national essential medicines list (NEML) is a government-approved selected list of medicines.   | ı   |                  |             |  |
|      | Does [COUNTRY] have a defined list of essential medicines, an NEML?   | YES, PART OF THE NMP YES, SEPARATE OFFICIAL DOCUMENT YES, AN UNOFFICIAL LIST NO | 1<br>2<br>3<br>4 | SKIP TO Q7  |  |
| 5    | In what year was the NEML last updated?   | YEAR  |                  |             |  |
|      | RECORD A ROUND NUMBER   |   |                  |             |  |
| 6    | For each medicine on the NEML, is the following information available:  | YES SOME<br>MEDICINES   | NO               |             |  |
|      | (a) Name of medicine  | 1 2   | 3                |             |  |
|      | (b) Form and dosage (c) Therapeutic group (reason for use, such as asthma, pain and palliative care, cardiovascular disease, depression)  | 1 2 1 2   | 3<br>3           |             |  |
|      | (d) Core or complementary medicine (e) Public sector procurement price  | 1 2 1 2   | 3                |             |  |
| 7    | Access to essential medicines and commodities is a function of availability and affordability to clients.   |   |                  |             |  |
| ,    | Has [COUNTRY] selected tracer or key medicines or commodities that can be used to monitor medicine availability and affordability?  | YES<br>NO   | 1<br>2           | SKIP TO Q13 |  |
| 8    | How many tracer medicines or commodities have been selected?  | NUMBER OF ORIGINATOR/   |                  |             |  |
|      |   | NUMBER GENERIC MEDS   |                  |             |  |
| 9    | Are these used to regularly monitor availability in public or private facilities or medicine outlets?   | YES<br>SOME MEDICINES<br>NO   | 1<br>2<br>3      |             |  |
| 10   | Are these used to regularly monitor the price paid by the individual who purchases the medicine in public or private facilities or medicine outlets?  | YES<br>SOME MEDICINES<br>NO   | 1<br>2<br>3      |             |  |
| 11   | CHECK Q4:  IF Q4= 1, 2 OR 3, GO TO Q12  IF Q4= 4, GO TO Q15   |   |                  |             |  |
| 12   | Are the tracer medicines a subset of the NEML?  | YES, ALL<br>YES, SOME OF THEM<br>NOT ON NEML                                    | 1<br>2<br>3      |             |  |
| 13   | The health system relies on supply chains to maintain adequate quantities of medicines and commodities for their part management information system (eLMIS) aggregates data at all levels of the system and permits managers to know wand helps ensure continuous availability.  Does [COUNTRY] have an eLMIS to track the supply of medicines in public or private facilities or medicine outlets? | vhich medicines are consumed  YES, NATIONAL YES, NOT NATIONAL                   | 1 2              |             |  |
|      |   | NO  | 3                | SKIP TO Q27 |  |
| 14   | Is the eLMIS linked to a central medical store that is responsible for supply chain management of medicines and commodities?  | YES, LINKED YES, PARTLY LINKED / PARTLY FUNCTIONING                             | 1 2              |             |  |
| 15   | Where is the eLMIS housed?  | NO<br>CENTRALIZED   | 3                |             |  |
| - 15 | Where is the climis moused:   | MINISTRY OF HEALTH  | 01               |             |  |
|      |   | OTHER GOVERNMENT AGENCY NON-GOVERNMENTAL AGENCY                                 | 02<br>03         |             |  |
|      |   | OTHER<br>DECENTRALIZED  | 04               |             |  |
|      |   | MINISTRY OF HEALTH  | 11               |             |  |
|      |   | OTHER GOVERNMENT AGENCY<br>NON-GOVERNMENTAL AGENCY                              | 12<br>13         |             |  |
|      |   | OTHER   | 14               |             |  |
|      |   | FEDERATED  MORE THAN ONE AGENCY   | 21               |             |  |

| 16 | In what type of electronic system are the eLMIS data managed?  | ELECTRONIC SPREADSHEET                        |             |
|----|--|---|-------------|
|    | CIRCLE ALL THAT APPLY  | MS EXCEL FILE A OTHER SPREADSHEET B           |             |
|    |  | DATABASE MANAGEMENT SYSTEM                    |             |
|    |  | SQL DATABASE C MS ACCESS D                    |             |
|    |  | OTHER DBMS E                                  |             |
|    |  | HMIS SOFTWARE DHIS2 F                         |             |
|    |  | OTHER HMIS G                                  |             |
|    |  | OTHER X                                       |             |
| 17 | Does the eLMIS have semantic interoperability with any other data systems?   | YES 1   | SWD TO COO  |
|    |  | NO 2  | SKIP TO Q22 |
| 18 | Which data exchange standards are used?  | AGGREGATED DATA EXCHANGE (ADX) A              |             |
|    |  | FAST HEALTHCARE INTEROPERABILITY              |             |
|    |  | RESOURCES (FHIR) B                            |             |
|    |  | INTEGRATING HEALTHCARE                        |             |
|    |  | ENTERPRISE (IHE) C DIGITAL IMAGING & COMMUNI- |             |
|    |  | CATIONS IN MEDICINE (DICOM) D                 |             |
|    |  | HEALTH LEVEL 7 (HL7) E                        |             |
|    |  | OTHER F NONE G                                |             |
| 10 | At national levels even the most conhisticated days programment systems if not linked to assure a state of the state of th | l   |             |
| 19 | At national levels, even the most sophisticated drug procurement systems, if not linked to accurate patient data, cannot reliably predict demand— leading to unreliable inventories of medications.  |   |             |
|    | At the facility level, can LMIS data currently be linked to health service delivery data to match demand for essential medicines with their availability?  | YES 1<br>PARTIALLY 2                          |             |
|    | Theolones with their divaliability.  | NO 3  |             |
| 20 | CHECK MODULE 2 (hiis), Q1:   |   |             |
|    | IF MODULE 2, Q1=1 OR 2, GO TO Q21  |   |             |
| 21 | Is the eLMIS currently linked to the facilities on the master facility list?   | YES, AUTOMATICALLY 1                          |             |
|    |  | YES, MANUALLY 2<br>NO 3                       |             |
| 22 | CHECK Q4:  |   |             |
|    | IF Q4= 1, 2, OR 3, GO TO Q23   |   |             |
| 23 | Does the eLMIS include medicines on the NEML?  | YES, ALL 1                                    |             |
|    |  | YES, SOME 2<br>NO 3                           |             |
| 24 | What is the lowest level at which data in the eLMIS can be accessed and updated?   | CENTRAL LEVEL ONLY 1                          |             |
| 24 | what is the lowest level at which data in the elivis can be accessed and updated:  | REGIONAL/PROVINCIAL 2                         |             |
|    |  | DISTRICT/COUNTY 3                             |             |
|    |  | HEALTH FACILITY/PATIENT 4                     |             |
| 25 | When was the last time the eLMIS data were updated at that level?  RECORD A ROUND NUMBER   | MONTHS AGO                                    |             |
|    |  | YEARS AGO                                     | i           |
|    |  |   |             |
| 26 | How often are the eLMIS data usually updated at that level?  | IN REAL TIME 1                                |             |
|    |  | AT LEAST ONCE PER YEAR 2 EVERY 1–3 YEARS 3    |             |
|    |  | LESS OFTEN 4                                  |             |
|    |  | NEVER 5                                       |             |
| 27 | In a recent reporting period, what percentage of medicine outlets in the <b>public</b> sector reported in the LMIS,  | PERCENTAGE %                                  |             |
|    | either paper-based or electronically?  RECORD A ROUND NUMBER   |   |             |
| 28 | In a recent reporting period, what percentage of medicine outlets in the <b>private</b> sector reported routinely in the   | PERCENTAGE %                                  |             |
|    | LMIS, either paper-based or electronically? RECORD A ROUND NUMBER  |   |             |
| 29 | In the absence of routine monitoring data, or for the periodic validation of routine data, a national survey of medicine prices and availability can provide estimat of medicine prices, availability, and affordability.  |   | ates        |
|    | Has [COUNTRY] conducted a national survey of medicine prices and availability within the last 5 years?   | YES 1   |             |
|    |  | NO 2  | SKIP TO END |
| 30 | Was the World Health Organization/Health Action International methodology used?  | YES 1<br>NO 2                                 |             |
|    | END  |   |             |
|    | END  |   |             |