

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

## MODULE 10:

# Public Health Surveillance System



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 10 Questionnaire: Public Health Surveillance System

No.	QUESTION	RESPONSE	SKIPS
1	The International Health Regulations (2005) define public health surveillance as, "the systematic on-going collection, collation and analysis of data for public health purposes and the timely dissemination of public health information for assessment and public health response as necessary." [COUNTRY] has legislation, policy, or other official instruments in place for the national implementation of IHR (2005).	YES NO	1 2 <i>SKIP TO Q3</i>
2	Does the legislation or other official instruments: (a) Designate a national IHR focal point which is the national center for IHR implementation (b) Address the coordination and integration of relevant sectors in the implementation of the IHR	YES 1 1 NO 2 2	 2 2
3	Reportable (or notifiable) conditions include diseases, injuries, and hazardous events that are required to be reported to government authorities following clinical or laboratory diagnosis. [COUNTRY] has a national list of reportable conditions that are identified as potential public health risks.	YES NO	1 2 <i>SKIP TO Q11</i>
4	In what year was the list of reportable conditions last updated?	YEAR	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
5	What is the total number of reportable conditions, including immediate, case-based reporting and routine summary reporting?	TOTAL	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
6	How many reportable conditions are reportable within the following required intervals: (a) Immediately notified (within 24 hours)  (b) Weekly  (c) Monthly  (d) Other reporting schedule  (e) No reporting schedule  (f) Unknown	NUMBER  NUMBER  NUMBER  NUMBER  NUMBER  NUMBER	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
7	SUM THE NUMBERS IN Q6 AND ENTER THE TOTAL	TOTAL	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
8	<i>CHECK Q7</i> <i>IF Q7=Q5, GO TO Q9</i>	<i>IF Q7 DOES NOT EQUAL Q5, CORRECT AS NECESSARY</i>	
9	A case definition is a set of diagnostic criteria used during surveillance that helps separate true cases from suspected cases. How many of the reportable conditions on the national list have a corresponding case definition?	NUMBER	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
10	The World Health Organization defines internationally notifiable diseases in the IHR (2005, Annex 2). The national list of reportable conditions includes the following internationally notifiable diseases: i. Four conditions notifiable to the World Health Organization: (a) Smallpox (b) Poliomyelitis due to wild-type poliovirus (c) Human influenza caused by a new subtype (d) Severe acute respiratory syndrome (SARS) ii. Other diseases and events that are considered to be events of potential international public health concern: (e) Cholera (f) Pneumonic plague (g) Yellow fever (h) Viral hemorrhagic fevers (Ebola, Lassa, Marburg) (i) West Nile fever	YES 1 1 1 1 1 1 1 1 1 NO 2 2 2 2 2 2 2 2 2 2	 2 2 2 2 2 2 2 2 2 2
11	What is the total number of reporting sites that are designated to submit surveillance reports?	TOTAL	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
12	How many of the designated sites are: (a) Public  (b) Non-public (including private, non-governmental, parastatal)	PUBLIC  PRIVATE/NON-PUBLIC	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
13	SUM THE NUMBERS IN Q12 AND ENTER THE TOTAL	TOTAL	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>
14	<i>CHECK Q13</i> <i>IF Q13=Q11, GO TO Q15</i>	<i>IF Q13 DOES NOT EQUAL Q11, CORRECT AS NECESSARY</i>	
15	<i>CHECK Q13</i> <i>IF Q13&gt;0, GO TO Q16</i>	<i>IF Q13 =0, GO TO Q18</i>	
16	In the last <u>week</u> of the most recent quarter, the responsible unit at the central level received <u>weekly</u> reports from how many of the designated reporting sites? (a) Public  (b) Non-public (including private, non-governmental, parastatal)	PUBLIC  PRIVATE/NON-PUBLIC	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>  <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>

17	In the last <u>month</u> of the most recent quarter, the responsible unit at the central level received monthly reports from how many of the designated reporting sites? (a) Public (b) Non-public (including private, non-governmental, parastatal)	PUBLIC <input type="text"/> <input type="text"/> PRIVATE/NON-PUBLIC <input type="text"/> <input type="text"/>	
18	[COUNTRY] performs the following core laboratory tests to confirm indicator pathogens: (a) PCR (for influenza virus) (b) Virus culture (for poliovirus) (c) Serology (for HIV) (d) Microscopy (for Mycobacterium tuberculosis) (e) Rapid diagnostic test (for Plasmodium spp.) (f) Bacterial culture (for Salmonella enteritidis)	LOCAL LAB      REFERENCE LAB      NO 1                      2                      3 1                      2                      3 1                      2                      3 1                      2                      3 1                      2                      3 1                      2                      3	
19	An electronic surveillance platform can be used to facilitate the reporting of data and the timely assessment of and response to public health risks. Does [COUNTRY] have an electronic system to capture routine data on morbidity and mortality?	YES, NATIONAL                      1 YES, NOT NATIONAL              2 NO    3	SKIP TO END
20	Does the electronic system include conditions on the national list of reportable conditions?	YES, ALL YES, SOME NO	SKIP TO Q22 SKIP TO END
21	How many of the reportable conditions are captured in the electronic system?	NUMBER <input type="text"/> <input type="text"/>	
22	Where is the electronic system for routine summary data on reportable conditions housed?	CENTRALIZED MINISTRY OF HEALTH              01 OTHER GOVERNMENT AGENCY      02 NON-GOVERNMENTAL AGENCY      03 OTHER                                      04 DECENTRALIZED MINISTRY OF HEALTH              05 OTHER GOVERNMENT AGENCY      06 NON-GOVERNMENTAL AGENCY      07 OTHER                                      08 FEDERATED MORE THAN ONE AGENCY              09	
23	In what type of electronic system are the routine summary data managed?  CIRCLE ALL THAT APPLY	ELECTRONIC SPREADSHEET MS EXCEL FILE                              A OTHER SPREADSHEET                      B DATABASE MANAGEMENT SYSTEM SQL DATABASE                              C MS ACCESS                                      D OTHER DBMS                                      E HMIS SOFTWARE DHIS 2    F OTHER HMIS                                      G OTHER    X	
24	Does the electronic system for summary data on reportable conditions have semantic interoperability with any other data systems?	YES    1 NO    2	SKIP TO Q29
25	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	
26	CHECK MODULE 2 (HIIS), Q1: IF MODULE 2, Q1=1 OR 2, GO TO Q27                      IF MODULE 2, Q1=3, GO TO Q28		
27	Currently, is the electronic system for routine summary data on reportable conditions linked to the facilities on the Master Facility List (MFL)?	YES, AUTOMATICALLY                      1 YES, MANUALLY                              2 NO    3	
28	CHECK Q18 IF Q18=1 FOR ANY LAB TESTS, GO TO Q29                      IF Q18 HAS NO LOCAL LAB (1) CIRCLED, GO TO Q28		
29	Is the electronic system for routine summary data on reportable conditions linked to a laboratory system?	YES, NATIONAL                              1 YES, NOT NATIONAL                          2 NO    3	
30	Can the electronic system for routine summary data on reportable conditions also capture immediate, case-based reports?	YES, NATIONAL                              1 YES, NOT NATIONAL                          2 NO    3	

END