Surveillance System Performance Indicators [1]

Sentinel Surveillance Steps	Associated Monitoring and Evaluation Indicators	Indicator	Structure or Calculation	Goal
Step 1 Identify hospitalized patients that meet the SARI case definition	Percent of week's with timely notification of denominators	Timely reporting of denominators	(Number of EWs with timely reporting of denominators / total EWs reported) x 100	80%
	Percent of hospitalized SARI cases that are captured by the surveillance system	Underreporting	(Reported cases of SARI in the period / cases identified in the period by active case-finding) x 100	80%
	Median interval in days between hospitalization date and notification date	Timely case reporting	Median of the interval (number of days) between hospitalization date and reporting date	1 day
Step 2 Complete data collection form and data entry	Percent of cases investigated and closed	Case investigation coverage	(Total SARI cases completely investigated and closed / Total cases reported and discharged) x 100 **** Completely investigated and closed means when test results are included (when available) for etiological diagnosis of the reported and discharged case, as well as complete clinical/epidemiological data***	90%
Step 3 Respiratory sample collection and testing results	Percent of SARI cases with collected sample	Coverage of sampled SARI cases	(Number of SARI cases with collected specimen / Number of SARI cases with valid criteria for sampling) x 100 ****Sampling must be within 10 days of symptom onset***	90%
	Percent of quality samples received	Specimen quality	(Number of good quality specimens received / Total specimens received) x 100 **** Good quality means specimens properly taken, preserved, and transported until arrival at the laboratory***	90%

[1] Pan American Health Organization. *Operational Guidelines for Sentinel SARI Surveillance* (2014) Available from: http://www.paho.org/hq/index.php?option=com_docman&task=doc_view&Itemid=270&gid=31162&lang=en

Sentinel Surveillance Steps	Associated Monitoring and Evaluation Indicators	Indicator	Structure or Calculation	Goal
	Percent of processed quality samples received	Processing coverage	(Number of processed specimens / Total specimens correctly received) x 100	90%
	Median interval from hospitalization date to sampling date	Timely sampling	Median of the interval (number of days) between hospitalization date and sampling date	2 days
	Median interval from sample date to receipt of sample	Timely receipt of specimen	Median of the interval (number of days) between sampling date and receipt date **** If the date of receipt is not available, use shipment date for this indicator***	1 day
	Median interval from receipt date to start of processing	Timely processing	Median of the interval between date of receipt of the specimen and processing date	3 days
	Median interval from receipt date to delivery of result	Timely delivery of result	Median of the interval between date of receipt of the specimen and date of delivery of the result	3 days
	Percent of SARI ICU cases with collected sample	Coverage of sampled SARI cases in ICU	(Number of SARI cases in ICUs with collected specimen / Number of SARI cases in ICUs) x 100	100%
	Percent of SARI-associated deaths with collected sample	Coverage of sampled cases of SARI deaths	(Number of cases of SARI deaths with collected specimen / Number of cases of SARI deaths) x 100	100%
Step 4 Data analysis and interpretation	Number of cases reported each week			
	Number of specimens submitted each week			
	Percent of submitted specimens that test positive for influenza			
Step 5 Data dissemination and outputs	Percent of weeks that data are sent to the national/regional level	Timely reporting		80%
	Timeliness of data presented in weekly influenza surveillance report	Timely reporting	How many weeks are there between the current epidemiological week and the week for which data are reported	< 2 weeks