WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Influenza (avian and other zoonotic)



Animal influenza viruses are distinct from human seasonal influenza viruses and do not easily transmit between humans. However, zoonotic influenza viruses - animal influenza viruses that may occasionally infect humans through direct or indirect contact - can

cause disease in humans ranging from a mild illness to death.

Birds are the natural hosts for avian influenza viruses. After an outbreak of A(H5N1) virus in 1997 in poultry in Hong Kong SAR, China, since 2003, this avian and other influenza viruses have spread from Asia to Europe and Africa. In 2013, human infections with the influenza A(H7N9) virus were reported in China.

Most swine influenza viruses do not cause disease in humans, but some countries have reported cases of human infection from certain swine influenza viruses. Close proximity to infected pigs or visiting locations where pigs are exhibited has been reported for most human cases, but some limited human-to-human transmission has occurred.

Just like birds and pigs, other animals such as horses and dogs, can be infected with their own influenza viruses (canine influenza viruses, equine influenza viruses, etc.).

Avian, swine and other zoonotic influenza infections in humans may cause disease ranging from mild upper respiratory infection (fever and cough) to rapid progression to severe pneumonia, acute respiratory distress syndrome, shock and even death.

Gastrointestinal symptoms such as nausea, vomiting and diarrhea has been reported more frequently in A(H5N1) infection. Conjunctivitis has also been reported in influenza A(H7).

Disease features such as the incubation period, severity of symptoms and clinical outcome varies by the virus causing infection but mainly manifests with respiratory symptoms.

Taken from WHO website on 31 October/2024 https://www.who.int/health-topics/influenza-avian-and-other-zoonotic#tab=tab_1 https://www.who.int/health-topics/influenza-avian-and-other-zoonotic#tab=tab_2



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Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 39 to 42 of 2024

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late.

KEY:

Yellow- late submission on Tuesday Red – late submission after Tuesday A syndromic surveillance system is good for early detection of and response to public health events.

Sentinel surveillance occurs when selected health facilities (sentinel sites) form a network that reports on certain health conditions on a regular basis, for example, weekly. Reporting is mandatory whether or not there are cases to report.

Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.

Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20)24						
39	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
40	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
41	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
42	On	On	On	Late	On	Late	On	On	On	On	On	On	On
	Time	Time	Time	(T)	Time	(T)	Time	Time	Time	Time	Time	Time	Time

REPORTS FOR SYNDROMIC SURVEILLANCE

UNDIFFERENTIATED FEVER

Temperature of $>38^{\circ}C$ /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica, Weekly Threshold vs Cases 2024

2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





November 1, 2024

FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



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FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ /100.4°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



FEVER AND JAUNDICE

Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



3 NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



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HOSPITAL
ACTIVE
SURVEILLANCE-
30 sites. Actively
pursued
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Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2023 and 2024 vs Weekly Threshold; Jamaica





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NOTIFICATIONS-All clinical

sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting



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CLASS ONE NOTIFIABLE EVENTS

Comments

	CLASS 1 EVENTS		Confirm	ed YTD ^{α}	AFP Field Guides from		
			CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance		
	Accidental P	oisoning	216 ^β	323 ^β	AFP should be 1/100,000		
Ţ	Cholera		0	0	population under 15 years		
NO	Severe Deng	ueγ	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.		
ATI	COVID-19 (SARS-CoV-2)	679	3766	Pertussis-like syndrome and		
EST	Hansen's Dis	sease (Leprosy)	0	0	Tetanus are clinically		
INTI	Hepatitis B		17	54	confirmed classifications.		
AL /	Hepatitis C		3	27	· ✓ Dengue Hemorrhagic		
NO	HIV/AIDS		NA	NA	Fever data include Dengue		
IATI	Malaria (Im	ported)	2	3	related deaths;		
Z	Meningitis		12	25	$^{\delta}$ Figures include all deaths		
	Monkeypox		0	3	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
۲۲ ۲۲	Meningococo	cal Meningitis	0	0	^ε CHIKV IgM positive		
GH IDIT ALL	Neonatal Tet	anus	0	0	θ Zilva DCD magitive acces		
H I DRB DRT	Typhoid Fev	er	0	0	β He data and the minim		
MG	Meningitis H	l/Flu	1	2	weeks.		
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all epidemiologica		
	Congenital S	yphilis	0	0	weeks year to date.		
MES	Fever and Rash	Measles	0	0			
RAM		Rubella	0	0			
[OC]	Maternal Dea	aths ^δ	49	45			
L PR	Ophthalmia l	Neonatorum	103	132			
CIA	Pertussis-like	e syndrome	0	0			
SPE	Rheumatic F	ever	0	0			
	Tetanus		0	0			
	Tuberculosis		28	56			
	Yellow Feve	r	0	0			
Chikungunya ^e			0	0			
	Zika Virus ^e		0	0	NA- Not Available		

NOTIFICATIONS-5 All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





November 1, 2024

COVID-19 Surveillance Update

CASES	EW 42	Total	
Confirmed	7	157410	
Females	3	90698	
Males	4	66709	
Age Range	1 day to 73 years old	1 day to 108 years	

- 3 positive cases had no gender specification
- * PCR or Antigen tests are used to confirm cases
- * Total represents all cases confirmed from 10 Mar 2020 to the current Epi-Week.

COVID-19 Outcomes

Outcomes	EW 42	Total			
ACTIVE *2 weeks*		15			
DIED – COVID Related	0	3865			
Died - NON COVID	0	388			
Died - Under Investigation	0	154			
Recovered and discharged	0	103226			
Repatriated	0	93			
Total		157410			
*Versionation and supervise Mench 2021 VTD					



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of Symptoms, Jamaica (157,410 cases)



Imported	
Under Investigation	

Local Transmission (Not Epi Linked) Workplace Cluster





Vaccination programme March 2021 – YTD

* Total as at current Epi week

COVID-19 Parish Distribution and Global Statistics





NOTIFICATIONS-6 All clinical sites



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ACTIVE SURVEILLANCE-30 sites. Actively pursued





November 1, 2024

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

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EW42

2024 ≥60

■Epidemic Threshold ≥60

October 13, 2024 - October 19, 2024 Epidemiological Week 42



During EW 42, twelve (12) SARI admissions were reported.



Caribbean Update EW 42

Caribbean: ILI cases have remained low over the las four EW, although there is an increased proportion of positive cases for RSV. SARI cases have followed a downward trend, with most positive cases linked to SARI-CoV-2, which is also declining. Influenza activity remains low, with predominant subtypes A(H3N2) and A(H1N1)pdm09. RSV activity has increased in several countries, while SARS-CoV-2 remains low and is declining.

By country: Over the last four EW, influenza activity has been reported in Belize, Jamaica, the Cayman Islands and Guyana. SARS-CoV-2 activity has been observed in Belize, Haiti, Jamaica, Barbados and Saint Vincent and the Grenadines. RSV activity has been detected in Belize, the Dominican Republic, Jamaica, Barbados, Guyana and Saint Vincent and the Grenadines. In Jamaica, an increase in SARI cases has been observed, exceeding the epidemic threshold with moderate pneumonia levels showing a slight decline. SARS-CoV-2, RSV, and Influenza activity has fluctuated, with influenza surpassing the epidemic threshold.

(taken from PAHO Respiratory viruses weekly report) https://www.paho.org/en/influenza-situation-report

NOTIFICATIONS 7 All clinical sites



Adenovirus B Victoria RSV B lineage non-determined A not subtyped Parainfluenza SARS-CoV-2... A(H3N2) A(H1N1)pdm09

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HOSPITAL

ACTIVE SURVEILLANCE-30 sites. Actively pursued





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 confirmed dengue with symptom onset in

 week 42 of 2024

 2024*

 EW 42

	EW 42	YTD
Total Suspected, Probable & Confirmed Dengue Cases	6	1797
Lab Confirmed Dengue cases	0	42
CONFIRMED Dengue Related Deaths	0	2

Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at October 31, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Symptoms of Dengue fever



Suspected, probable and confirmed dengue cases for 2022 - 2024 versus monthly mean, alert, and epidemic thresholds (2007-2022)



8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

Abstract

NHRC-23-P01

Patients' perception of the telenutrition service at the Mandeville Regional Hospital

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Objectives: To evaluate patients' level of satisfaction with their virtual nutrition consultation.

Methods: A cross-sectional survey of persons 18 and over, accessed telenutrition service between 2020 to 2023 and contact information is available in the nutrition clinic database. Analysis of telephone administered questionnaire which elicited demographics, and a five-point Likert scale ranging from (5) "Strongly agree" to (1) "Strongly disagree" about participants personal experience and satisfaction with using telenutrition services was used to fulfil the aim of the study. Descriptive analyses of categorical variables using counts and percentages. Participants consent was obtained from a "yes" or "no" response, after the data collector read the description of the study at the beginning of the telephone survey.

Results: Majority (100%) confirmed their ability to talk easily to their healthcare provider during their consultation. 79 % of respondents indicated an overall strong satisfaction with the service, and 21 % expressed satisfaction.

Conclusion: The majority of respondents were satisfied with the quality of the telenutrition service and indicated that they would recommend the service to others. Telenutrition has proved to be a viable means of delivering clinical nutrition care services.



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NOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

