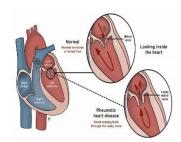
# WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

# Weekly Spotlight

# **Rheumatic Heart Disease**



#### How is rheumatic heart disease treated?

There is no cure for rheumatic heart disease and the damage to the heart valves are permanent. Patients with severe rheumatic heart disease will often require surgery to replace or repair the damages valve or valves. Depending on the severity of disease, medication may also be needed to treat symptoms of heart failure or heart rhythm abnormalities. Medications which thin

the blood to reduce the risk of blood clots may also be needed. In the case of serious disease surgery may be required to repair or replace the heart valves. This is often not available in low-income settings, or when it is available the costs may be too high if not covered as part of national health plans, putting families under increased financial strain.

# Rheumatic heart disease is preventable.

Since rheumatic heart disease results from rheumatic fever, an important strategy is to prevent rheumatic fever from occurring. Treatment of strep throat with appropriate antibiotics will prevent rheumatic fever. Once a patient has been identified as having had rheumatic fever, it is important to prevent additional streptococcal infections as this could cause a further episode of rheumatic fever and additional damage to the heart valves. The strategy to prevent additional streptococcal infection is to treat the patient with antibiotics over a long period of time. The antibiotic treatment that is most effective in preventing further infection is benzathine penicillin G, which is given by intramuscular injection every 3-4 weeks over many years.

For countries where rheumatic heart disease is endemic, the main strategies for prevention, control and elimination include: improving standards of living; expanding access to appropriate care; ensuring a consistent supply of quality-assured antibiotics for primary and secondary prevention; and planning, developing and implementing feasible programmes for prevention and control of rheumatic heart disease, supported by adequate monitoring and surveillance, as an integrated component of national health systems responses.

## Challenges

Rheumatic heart disease can be prevented by effective management of streptococcal sore throat, however treatment at this early stage is often not achieved. Families may not have the time or money to access a healthcare facility, or may not seek care due to low awareness of the potential risk of untreated 'strep throat'. Healthcare workers may also not have the necessary knowledge to appropriately diagnose and manage a 'strep throat'. If left untreated, rheumatic fever may then ensue.

Currently a large proportion of those suffering rheumatic heart disease are not diagnosed, or are diagnosed at a late stage when damage to the heart is very severe. Rheumatic heart disease remains the leading cause of maternal cardiac complications in pregnancy. In many rheumatic heart disease-endemic countries there is little or no access to life-saving heart valve surgery. Measures to halt the progression to severe rheumatic heart disease require long-term treatments and a well-functioning health system to deliver this service.

Taken from WHO wedsite on 07/ Mar/2024 https://www.who.int/news-room/fact-sheets/detail/rheumatic-heart-disease

# EPI WEEK 08



Syndromic Surveillance

**Accidents** 

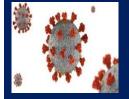
Violence

Pages 2-4



Class 1 Notifiable Events

Page 5



COVID-19

Page 6



Influenza

Page 7



**Dengue Fever** 

Page 8

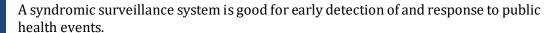


**Research Paper** 

Page 9

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica





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.

Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 5 to 8 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

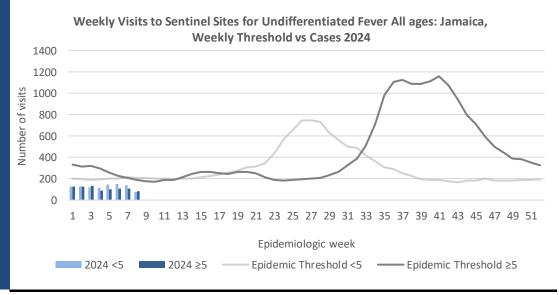
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20	024						
5	On	On	Late	On	On	On	On	On	On	On	On	On	On
	Time	Time	(T)	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
6	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
7	On	On	On	On	On	Late	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	(W)	Time	Time	Time	Time	Time	Time	Time
8	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.









INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SUR VEILLANCE-30 sites. Actively pursued





March 8, 2024 ISSN 0799-3927

# 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).



# FEVER AND HAEMORRHAGIC

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



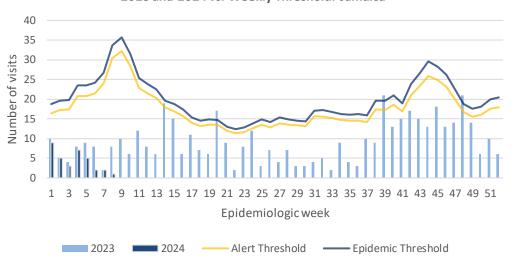
# FEVER AND JAUNDICE

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

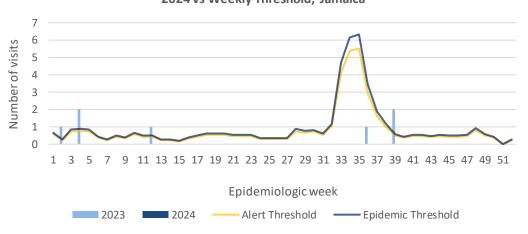
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



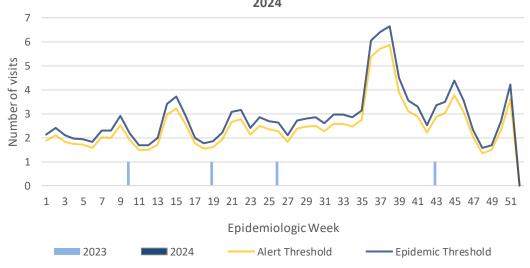
# Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica



Weekly Visits to Sentinel Sites for Fever and Haemorrhagic 2023 and 2024 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2023 and 2024







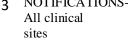


INVESTIGATION **REPORTS-** Detailed Follow up for all Class One Events



HOSPITAL **ACTIVE** SURVEILLANCE-30 sites. Actively pursued



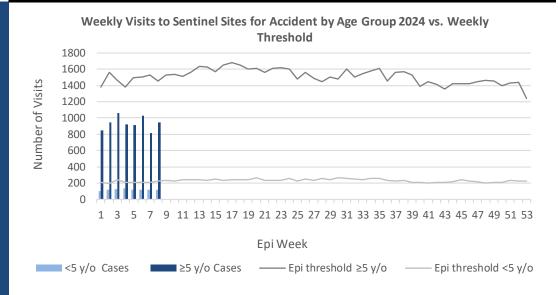


March 8, 2024 ISSN 0799-3927

# **ACCIDENTS**

Any injury for which the cause is unintentional, e.g. motor vehicle, falls, burns, etc.





# **VIOLENCE**

Any injury for which the cause is intentional, e.g. gunshot wounds, stab wounds, etc.



# Weekly Visits to Sentinel Sites for Violence by Age Groups 2024 vs. Weekly **Threshold** 800 700 **Number of Visits** 600 500 400 300 200 100 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epi Week <5 y.o Epi Threshold <5 y/o - Epi Threshold ≥5y/o ≥5 v.o

# **GASTROENTERITIS**

Inflammation of the stomach and intestines, typically resulting from bacterial toxins or viral infection and causing vomiting and diarrhoea.



# Weekly Visits to Sentinel Sites for Gastroenteritis All ages 2024 vs Weekly Threshold; Jamaica 1200 1000 800 400 200 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 Epidemiologic Week 2024 <5 Epidemic Threshold <5 Epidemic Threshold ≥5





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SUR VEILLANCE-30 sites. Actively pursued

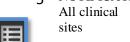


March 8, 2024 ISSN 0799-3927

# **CLASS ONE NOTIFIABLE EVENTS**

# Comments

CLASS 1 EVENTS  YEAR 2024  YEAR 2023  Accidental Poisoning  Cholera  Dengue Hemorrhagic Fever See Dengue page below  COVID-19 (SARS-CoV-2)  Hansen's Disease (Leprosy)  Hepatitis B  Hepatitis C  HIV/AIDS  Malaria (Imported)  Meningitis  Malaria (Imported)  Meningitis  AFP should be 1/100,000 population under 15 year old (6 to 7) cases annual system, detection rates for AFP should be 1/100,000 population under 15 year old (6 to 7) cases annual strength old (6 to 7) ca		CLASS 1 EVENTS		. Confirm	ed YTD $^{\alpha}$	AFP Field Guides from		
Accidental Poisoning 46 \$ 53\$ AFP should be 1/100,00 population under 15 year and Massles Accidental Poisoning 1/100,00 population under 15 year and Massles AFP should be 1/100,00 population under 15 year old (6 to 7) cases annual population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the population under 15 year old (6 to 7) cases annual learning in the popula								
Dengue Hemorrhagic Fever See Dengue page below See Dengue page below COVID-19 (SARS-CoV-2)  Hansen's Disease (Leprosy)  Hepatitis B  Hepatitis C  HIV/AIDS  Malaria (Imported)  Meningitis  Plague  Meningitis  Plague  Meningococcal Meningitis  Neonatal Tetanus  Neonatal Tetanus  Neonatal Tetanus  Neonatal Tetanus  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Dengue Hemorrhagic See Dengue page below  Pout page page pelow  Pout page page page pelow  Pout page page page page page page page page		Accidental Po	isoning	46 <sup>β</sup>	53β	AFP should be 1/100,000		
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	님	Cholera		0	0	population under 15 years		
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	ANC	Dengue Hemo	orrhagic Fevery	See Dengue page below	See Dengue page below	Pertussis-like syndrome and Tetanus are clinically confirmed classifications.		
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	ATIC	COVID-19 (S	ARS-CoV-2)	131	1454			
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	EST	Hansen's Dise	ease (Leprosy)	0	0			
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	NTE	Hepatitis B		0	12			
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	NL/I	Hepatitis C		0	5	→ Dengue Hemorrhagic		
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	ON⁄	HIV/AIDS		NA	NA	Fever data include Dengue		
Meningitis  Monkeypox  Description  Plague  Description  Plague  Description  Plague  Description  Meningococcal Meningitis  Neonatal Tetanus  Description  Typhoid Fever  Meningitis H/Flu  Description  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Description  Meningitis  Description  Description  AFP/Polio  Congenital Syphilis  Description  AFP/Polio  AFP/Pol	ATI	Malaria (Impo	orted)	0	0	related deaths;		
EXOTIC/UNUSUAL  Plague  Meningococcal Meningitis  Neonatal Tetanus  Typhoid Fever  Meningitis H/Flu  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Fever and Measles  Meningitis H/Flu  O  O  Congenital Syphilis  Fever and Measles  O  Congenital Syphilis  Congenital Syphilis  O  Congenital Syphilis  O  Congenital Syphilis  O  Congenital Syphilis  Congenital Syphilis	Z	Meningitis		1	8	δ Figures include all deaths		
Plague  Meningococcal Meningitis  Neonatal Tetanus  Typhoid Fever  Meningitis H/Flu  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Plague  0  0  CHIKV IgM positive cases  2 Zika PCR positive cases  P Updates made to prior weeks.  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  O  O  O  O  O  O  O  O  O  O  O  O  O		Monkeypox		0	1	associated with pregnancy		
Meningococcal Meningitis  Neonatal Tetanus  Typhoid Fever  Meningitis H/Flu  Meningitis H/Flu  AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  O  Congenital Syphilis		Plague		0	0			
AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Congenital Syphilis  O  Congenital Syphilis	13.4	Meningococca	al Meningitis	0	0	cases		
AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Congenital Syphilis  O  Congenital Syphilis	GH IDIT ALI	Neonatal Teta	nus	0	0			
AFP/Polio  Congenital Rubella Syndrome  Congenital Syphilis  Congenital Syphilis  O  Congenital Syphilis	H IONE	Typhoid Feve	r	0	0			
Congenital Rubella Syndrome  Congenital Syphilis  O  Congenital Syphilis  O  Congenital Syphilis  O  O  O  O  O  O  O  O  O  O  O  O  O	MC	Meningitis H/	Flu	0	0			
Congenital Rubella Syndrome  0 0 totals for all epidemiological weeks to date.		AFP/Polio		0	0	α Figures are cumulative		
Congenital Syphilis 0 0 to date.		Congenital Ru	ibella Syndrome	0	0	totals for all		
Fever and Measles 0				0	0			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MES	Fever and	Measles	0	0	to dute.		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	RAMI	Rash	Rubella	0	0			
Ophthalmia Neonatorum  14  Pertussis-like syndrome  0  Rheumatic Fever  0  0	(DO)	Maternal Deaths <sup>δ</sup>		5	6			
Pertussis-like syndrome 0 0  Rheumatic Fever 0 0	L PR	Ophthalmia Neonatorum		14	31			
Rheumatic Fever 0 0	CIA	Pertussis-like syndrome		0	0			
	SPE	Rheumatic Fe	ver	0	0			
Tetanus 0 0		Tetanus		0	0			
Tuberculosis 1 11		Tuberculosis		1	11			
Yellow Fever 0 0		Yellow Fever		0	0			
Chikungunya <sup>e</sup> 0				0	0			
Zika Virus <sup>θ</sup> 0 NA- Not Available		Zika Virus <sup>®</sup>		0	0	NA- Not Available		





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

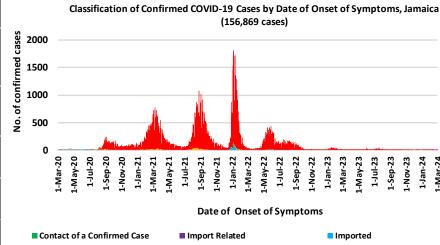


March 8, 2024 ISSN 0799-3927

# **COVID-19 Surveillance Update**

		COAID
CASES	EW 08	Total
Confirmed	11	156869
Females	7	90405
Males	4	66461
Age Range	3 months to 91 years	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.



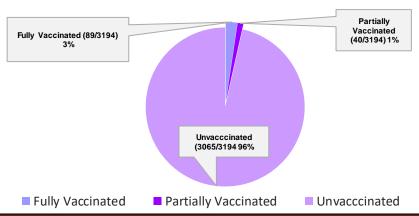
# **COVID-19 Outcomes**

Outcomes	EW 08	Total
ACTIVE *2 weeks*		23
DIED – COVID Related	0	3756
Died - NON COVID	0	359
Died - Under Investigation	0	241
Recovered and discharged	0	103226
Repatriated	0	93
Total		156869

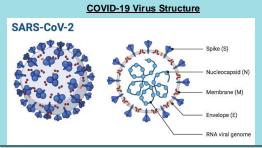
- \*Vaccination programme March 2021 YTD
- \* Total as at current Epi week

# 3194 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths

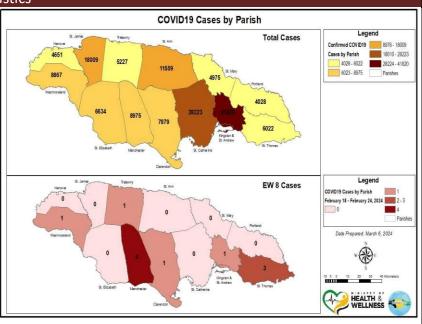
■ Local Transmission (Not Epi Linked) ■ Under Investigation



# COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 5-8, 2024					
Epi Week	Confirmed Cases	Deaths			
5	115, 500	2,800			
6	98, 500	2, 300			
7	86, 400	1,800			
8	75, 700	1, 300			
Total (4weeks)	376, 100	8, 200			



6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SUR VEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

**■** Workplace Cluster

# NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

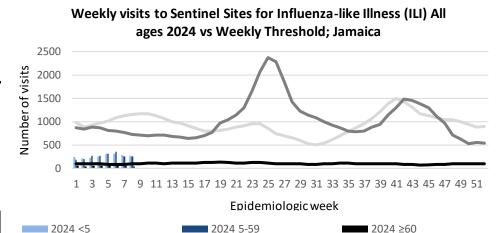
EW8

Epidemic Threshold ≥60

Alert Threshold

February 18, 2024 - February 24, 2024 Epidemiological Week 08

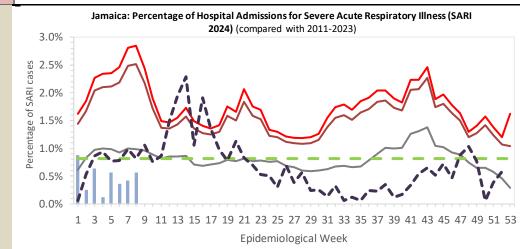
	EW 08	YTD
SARI cases	9	61
Total Influenza positive Samples	0	33
Influenza A	1	33
H3N2	0	10
H1N1pdm09	0	23
Not subtyped	0	0
Influenza B	0	0
B lineage not determined	0	0
B Victoria	0	0
Parainfluenza	0	0
Adenovirus	0	0
RSV	0	15



Epidemic Threshold 5-59

# **Epi Week Summary**

During EW 08, nine (9) SARI admissions were reported.



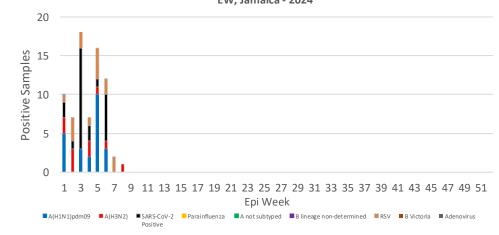
# Caribbean Update EW 8

Caribbean: ILI cases have remained steady at high levels in the last four weeks associated with an increase in positive influenza and SARS-CoV-2 cases, while SARI cases have remained on the decline. Influenza activity has increase in the last four EWs, reaching low circulation levels. During the last four EWs, the predominant viruses have been type A(H1N1)pdm09, followed by A(H3N2) and to a lesser extent B/Victoria. RSV activity has remained at low levels. SARS-CoV-2 activity has remained at high levels, although showing a decreasing trend. By countries: Elevated influenza activity has been observed in Belize and Surmaine. Elevated SARS-CoV-2 activity has been observed in Belize, Jamaica, The Cayman Islands and Guyana.

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



Average epidemic curve (2011-2021)



7 NOTIFICATIONS-All clinical



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

SARI 2024



Epidemic Threshold <5

HOSPITAL ACTIVE SUR VEILLANCE-30 sites. Actively pursued



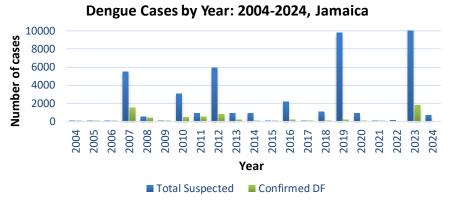


March 8, 2024 ISSN 0799-3927

# Dengue Bulletin

February 18, 2024 – February 24, 2024 Epidemiological Week 08 Epidemiological Week 08





Reported suspected, probable and confirmed dengue with symptom onset in week 08 of 2024

	2024*		
	EW 08	YTD	
Total Suspected, Probable & Confirmed Dengue Cases	2	689	
Lab Confirmed Dengue cases	0	0	
CONFIRMED Dengue Related Deaths	0	0	

#### Symptoms of Dengue fever Febrile phase sudden-onset feve Critical phase hypotension headache pleural effusion ascites mouth and nose bleeding gastrointestinal bleeding muscle and joint pains Recovery phase altered level of vomiting consciousness seizures rash itching diarrhea slow heart rate

#### Points to note:

- Dengue deaths are reported based on date of death.
- \*Figure as at March 8, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

# Suspected dengue cases for 2022 - 2024 versus monthly mean, alert, and epidemic thresholds (2007-2022) 4000 3500 Number of Cases 3000 2500 2000 1500 1000 500 FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC Month of onset 2022 2023 2024 Epidemic threshold -Monthly Mean - Alert Threshold.

NOTIFICATIONS-All clinical sites



**INVESTIGATION** REPORTS- Detailed Follow up for all Class One Events



**HOSPITAL** ACTIVE SURVEILLANCE-30 sites. Actively pursued



March 8, 2024 ISSN 0799-3927

# **RESEARCH PAPER**

#### **Abstract**

# NHRC\_22\_P15

# Surgical procedures in the elderly at the University Hospital of the West Indies between 2016 and 2021

Toppin P<sup>1</sup>, Reid S<sup>1</sup>, Roberts P<sup>1</sup>, Tennant I<sup>1</sup>, Eldemire-Shearer D<sup>2</sup>

<sup>1</sup>Department of Surgery, Radiology, Anaesthesia and Intensive Care, University of the West Indies, Mona, <sup>2</sup>Department of Community Health and Psychiatry, University of the West Indies, Mona

**Objectives:** To evaluate changes in the pattern of elderly patients undergoing surgery at the UHWI between 2016 and 2021, emphasising the effect of the SARS-COV-2 pandemic.

**Methods:** Data were extracted from the database in the main operating theatre of the UHWI. Cases done between January 1, 2016, and December 31, 2021, were included. The post-pandemic period was defined as after February 2020. Patients over 64 years were classified as elderly, and those older than 79 as very elderly. Categorical data were compared using the Chi-squared test and continuous data using the Wilcoxon rank sum test.

**Results:** 21,972 cases were included, 16,872 in the pre-pandemic period and 5,913 in the post-pandemic. Elderly and very elderly patients made up 23% and 5.4% of the patients, respectively. There was a fall in the number of cases done post-pandemic. However, the proportion of elderly and very elderly patients did not change (p = 0.14, p = 0.15 respectively). The percentage of elderly patients undergoing emergency surgery increased (33% to 43%, p < 0.01) post-pandemic. The percentage of elderly female patients also increased post-pandemic (53% to 56%, p = 0.03). The number of hernia repairs done post-pandemic fell significantly, amputations, colectomies and hip replacements remained common especially in patients over 79.

**Conclusion:** The elderly and very elderly form a disproportionately large subset of surgical patients at the UHWI, and the SARS-COV-2 pandemic significantly impacted this group. The overall number, sex and procedure distribution changed post-pandemic.



The Ministry of Health and Wellness 24-26 Grenada Crescent Kingston 5, Jamaica Tele: (876) 633-7924 Email: surveillance@moh.gov.jm





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SUR VEILLANCE-30 sites. Actively pursued

