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

Weekly Spotlight

Scabies



Scabies is a parasitic infestation caused by tiny mites that burrow into the skin and lay eggs, causing intense itching and a rash.Scabies can lead to skin sores and serious complications like septicaemia (a bloodstream infection), heart disease and kidney problems. It is treated using creams or oral medications.

Scabies is contagious and spreads through skin-to-skin contact. It occurs worldwide but is most common in low-income tropical areas. Children and older people in resource-poor areas are at higher risk.

Symptoms

Symptoms of scabies usually begin 4–6 weeks after infestation. Sometimes there are visible signs before symptoms begin.

Symptoms of scabies include:

- severe itch, often worse at night;
- itchy lines (linear burrows) and bumps (papules) on the fingers, wrists, arms, legs and belt area;
- enflamed bumps on male genitalia and female breasts; and
- larger rash in infants and small children, including on the palms, soles of the feet, ankles and scalp.

Most individuals are infected with 10–15 mites.

People with suppressed immune systems, including people living with HIV, may develop crusted (Norwegian) scabies. This severe infection can have thousands or millions or mites and causes dry, scaley areas on the skin. It often does not cause itch. Crusted scabies spreads very easily and can cause secondary infections. It is life threatening.

Scabies mites burrow into the top layer of skin, where the adult female lays eggs. The eggs hatch in 3–4 days and develop into adult mites in 1–2 weeks. After 4–6 weeks the patient develops an allergic reaction to the presence of mite proteins and faeces in the scabies burrow, causing intense itch and rash.



Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 9 to 12 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
2024													
9	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
10	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
11	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
12	On	On	On	Late	On	On	On	On	On	On	On	On	On
	Time	Time	Time	(T)	Time	Time	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,

2 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



April 05, 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).









NOTIFICATIONS-3 All clinical

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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sites





FEVER AND

HAEMORRHAGIC

Temperature of >38°C

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.

or without jaundice.

/100.4^o*F* (or recent history of Number of visits fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with



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CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirm	ned YTD^{α}	AFP Field Guides from		
	CLASS 1 EVENTS		CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance		
	Accidental Po	bisoning	80 ^β	74 ^β	AFP should be 1/100,000		
Ţ	Cholera		0	0	population under 15 years		
NO	Dengue Hem	orrhagic Fever ^y	See Dengue page below	See Dengue page below			
ATI	COVID-19 (S	SARS-CoV-2)	156	1725	Pertussis-like syndrome		
ERN EST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically		
INTI	Hepatitis B		1	19	confirmed classifications.		
AL /	Hepatitis C		0	6	^Y Dengue Hemorrhagic		
ION,	HIV/AIDS		NA	NA	Fever data include Dengue		
IATI	Malaria (Imp	ported)	0	0	related deaths;		
Z	Meningitis		5	11	$^{\delta}$ Figures include all deaths		
	Monkeypox		0	3	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
TY/	Meningococc	al Meningitis	0	0	^e CHIKV IgM positive		
GH IDIJ ALI	Neonatal Teta	anus	0	0	θ Zika DCD positiva casas		
H I DRB DRT	Typhoid Feve	er	0	0	β Undetee mode to prior		
MG	Meningitis H	/Flu	0	0	weeks.		
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all		
	Congenital Sy	yphilis	0	0	epidemiological weeks yea		
MES	Fever and Rash	Measles	0	0			
RAM		Rubella	0	0			
[OG]	Maternal Dea	ιths ^δ	10	10			
L PR	Ophthalmia N	Veonatorum	21	33	-		
SPECIA	Pertussis-like	syndrome	0	0	-		
	Rheumatic Fe	ever	0	0	-		
	Tetanus		0	0	_		
	Tuberculosis		1	19			
	Yellow Fever		0	0			
	Chikungunya ^ε			0			
	Zika Virus [®]		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



SENTINEL REPORT- 78 sites. Automatic reporting



April 05, 2024

COVID-19 Surveillance Update

CASES	EW 12	Total		
Confirmed	4	156884		
Females	1	90412		
Males	3	66469		
Age Range	7 days to 74 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.



Outcomes	EW 12	Total				
ACTIVE		7				
2 weeks		/				
DIED – COVID	0	2702				
Related	0	5765				
Died - NON	0	267				
COVID	0	507				
Died - Under	0	215				
Investigation	0	215				
Recovered and	0	102226				
discharged	0	103220				
Repatriated	0	93				
Total		156884				



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Date of Onset of Symptoms

Contact of a Confirmed Case Imported

4652

18010

5228

Under Investigation

Local Transmission (Not Epi Linked) Workplace Cluster

Import Related

3224 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID19 Cases by Parish

St. Ant

Total Cases

*Vaccination programme March 2021 – YTD

* Total as at current Epi week

COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 9-12, 2024					
Epi Week	Confirmed Cases	Deaths			
9	73,800	1, 600			
10	69,100	1,600			
11	58,300	1,300			
12	54,300	1,100			
Total (4weeks)	255, 500	5, 600			

11559 6025 - 8977 8870 4975 4028 8977 7879 602/ Legend EW 12 Cases COVID19 Cases by Parish March 17 - March 23, 2024 red: April 4, 2024 HEALTH &

NOTIFICATIONS-6 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

Legend

Confirmed COVID19

4028 - 6024

Cases by Parish

8978 - 18010

18011 - 28226

28227 - 41821

Parishes



April 05, 2024

NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 12

ISSN 0799-3927

March 17, 2024 – March 23, 2024 Epidemiological Week 12



Caribbean Update EW 12

Caribbean: After the increase observed in previous EWs, ILI cases have shown a decrease in the past four EWs. SARI cases have continued to decline, with the majority of positive cases attributed to influenza.Influenza activity ha decreased over the past four EWs, reaching low circulation levels. During the past four EWs, predominant viruses have been type A(H1N1)pdm09, with circulation to a lesser extent of influenza Type A (H3N2) and B/Victoria . RSV activity has remained at low levels. SARS-CoV-2 activity has remained in decline to low levels.

By country: Elevated influenza activity has been observed in Jamaica , Suriname, and the Cayman Islands. Elevated SARS CoV-2 activity has been observed in Saint Lucia and Guyana.

(taken from PAHO Respiratory viruses weekly report)



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

https://www.paho.org/en/influenza-situation-report

7 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

Positive



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2004 2005 2006 2007



2013 2014 2015 2017 2018

2016

2019 2020 2021 2022 2023 2023

2008 2009 2010

2011

2012





Reported suspected, probable and confirmed dengue with symptom onset in week 12 of 2024

2024* EW 12 YTD Total Suspected, **Probable & Confirmed** 16 938 **Dengue Cases** Lab Confirmed Dengue 0 0 cases CONFIRMED 0 0 **Dengue Related Deaths**

Points to note:

- **Dengue deaths are reported** based on date of death.
- *Figure as at April 05, 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)



NOTIFICATIONS-8 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



RESEARCH PAPER

Abstract

NHRC_22_014

Financial Burden of In-patient Stroke care at Kingston Public Hospital in 2020 Morgan-Channer K¹, Amza A², Buckley -Smith D³, Wright K⁴, Henry-McKoy D⁵

¹Kingston Public Hospital ,North Street, Jamaica ² Kingston Public Hospital ,North Street, Jamaica, ³⁻⁵ Kingston Public Hospital ,North Street, Jamaica

Objectives: To estimate the direct costs of stroke care per stroke patient admitted through the Accident and Emergency (A&E) Department at Kingston Public Hospital (KPH) for 2020.

Methods: We estimated the total direct cost of stroke from a health system perspective using an incidencebased, bottom-up costing approach. This approach required elucidating the service delivery process :KPH stroke care pathway and estimating relevant resource items and then costing them. Estimation of direct costs included stroke etiology diagnostic services and inpatient care costs: pharmacy and nursing care supplies. We created a Current Practice Model of the KPH Stroke care pathway based on the average stroke patient with Disability index of MRS score 4-5. Our analysis was based on the Current Practice Model of KPH Stroke care pathway and KPH Stroke registry data. We noted that there were limitations in KPH Current Practice Stroke Care Model due to a lack of onsite diagnostic services and the limited resource setting.

Results: The total number of stroke admissions in 2020 was 1090 persons. We estimated that cost per stroke patient to range from \$97,103.40 to \$276,373.79 JMD for an average length in-hospital stay of four days. We estimated that total direct stroke care costs at KPH for 2020 to be \$117,674,551.74 JMD {approximately \$764,120.46 USD} with the calculation inclusive 7% of all acute ischemic stroke patients being IV thrombolysis eligible.

Conclusion: Our data suggests that the total cost of direct stroke care at KPH is over 117 million JMD for 2020, a significant financial toll. Our study does not include stroke outpatient costs nor the financial loss from disability affecting the stroke survivor or their family which are significant additional variables to investigate in further research. Nation based programs to promote healthy lifestyle practices can reduce prevalence of modifiable stroke risk factors which may reduce the financial burden of stroke.



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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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