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

Deafness And Hearing Loss



Key facts

- By 2050 nearly 2.5 billion people are projected to have some degree of hearing loss and at least 700 million will require hearing rehabilitation.
- Over 1 billion young adults are at risk of permanent, avoidable hearing loss due to unsafe listening practices.
- An annual additional investment of less than US\$ 1.40 per person is needed to scale up ear and hearing care services globally.
- Over a 10-year period, this promises a return of nearly US\$ 16 for every US dollar invested.

Over 5% of the world's population – or 430 million people – require rehabilitation to address their 'disabling' hearing loss (432 million adults and 34 million children). It is estimated that by 2050 over 700 million people – or one in every ten people – will have disabling hearing loss.

'Disabling' hearing loss refers to hearing loss greater than 35 decibels (dB) in the better hearing ear. Nearly 80% of people with disabling hearing loss live in lowand middle-income countries. The prevalence of hearing loss increases with age, among those older than 60 years, over 25% are affected by disabling hearing loss.

Prevention

Many of the causes that lead to hearing loss can be avoided through public health strategies and clinical interventions implemented across the life course.

Prevention of hearing loss is essential throughout the life course – from prenatal and perinatal periods to older age. In children, nearly 60% of hearing loss is due to avoidable causes that can be prevented through implementation of public health measures. Likewise, in adults, most common causes of hearing loss, such as exposure to loud sounds and ototoxic medicines, are preventable.

Effective strategies for reducing hearing loss at different stages of the life course include:

- immunization;
- good maternal and childcare practices;
- genetic counselling;
- identification and management of common ear conditions;
- occupational hearing conservation programmes for noise and chemical exposure;
- safe listening strategies for the reduction of exposure to loud sounds in recreational settings; and
- rational use of medicines to prevent ototoxic hearing loss.



Released March 23, 2022

SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 6 to 9 of 2022

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 502	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
6													
	On Time	On Time	On Time	On Ti me	On Time	On Time	Late (T)	On Time	Late (T)	On Time	On Time	Late (T)	On Time
7													
	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time
8													
	On	On		On	On	On	Late	On	On	On	On	On	On
9	Time	Lime	On Time	Lime	lime	Time	(\vv)	Lime	Time	Time	Time	lime	Time
	On	On		On	On	On	On	On	Late	On	On	On	Late
	Time	Time	On Time	Time	Time	Time	Time	Time	(T)	Time	Time	Time	(W)

REPORTS FOR SYNDROMIC SURVEILLANCE



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FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4^oF (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°C /100.4^oF (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.





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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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Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2021 and 2022 vs Weekly Threshold; Jamaica







NATIONAL /INTERNATIONAL INTEREST

EXOTIC/ UNUSUAL

> MORTALITY MORBIDITY/ H IGH

> > SPECIAL PROGRAMMES

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CLASS ONE NOTIFIABLE EVENTS

ONE NOT	FIABLE EVENTS	Comments						
		Confirm	ned YTD ^α	AFP Field Guides from				
CLASS	I EVENTS	CURRENT YEAR 2022	PREVIOUS YEAR 2021	WHO indicate that for an effective surveillance system.				
Accidenta	ll Poisoning	13 ^β	23 ^β	detection rates for AFP				
Cholera		0	0	should be 1/100,000				
Dengue H	lemorrhagic Fever ⁹	See Dengue page below	See Dengue page below	years old (6 to 7) cases				
COVID-1	9 (SARS-CoV-2)	31086	15983	annuarry.				
Hansen's	Disease (Leprosy)	0	0	Pertussis-like				
Hepatitis	В	0	2	syndrome and Tetanus				
Hepatitis	С	0	1	are clinically				
HIV/AID	S	NA	NA	classifications.				
Malaria (Imported)	0	0					
Meningiti	s (Clinically confirmed)	0	3	⁷ Dengue Hemorrhagic Fever data include				
Plague		0	0	Dengue related deaths;				
Meningoo	coccal Meningitis	0	0	$^{\delta}$ Figures include all				
Neonatal	Tetanus	0	0	deaths associated with pregnancy reported for				
Typhoid I	Fever	0	0	the period.				
Meningiti	s H/Flu	0	0					
AFP/Polie)	0	0	cases				
Congenita	al Rubella Syndrome	0	0	$^{\theta}$ Zika PCR positive				
Congenita	al Syphilis	0	0	cases				
Fever and	Measles	0	0	$^{\beta}$ Updates made to				
Rash	Rubella	0	0	prior weeks in 2020. α Figures are				
Maternal	Deaths ^δ	7	9	cumulative totals for				
Ophthalm	ia Neonatorum	12	14	all epidemiological weeks year to date.				
Pertussis-	like syndrome	0	0					
Rheumati	c Fever	0	0					
Tetanus		0	0					
Tuberculo	osis	2	8					
Yellow Fe	ever	0	0					
Chikungu	ıya ^ε	0	0					
Zika Virus	θ	0	0	NA- Not Available				



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SARI cases

Influenza

Influenza A

Influenza B

positive Samples

H3N2

Total

NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

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EW9



February 27 – March 5, 2022 Epidemiological Week 9 Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages **EW9 YTD** 2022 vs Weekly Threshold; Jamaica 2500 122 6 2000 Number of visits 1500 0 0 1000 0 0 500 0 0 H1N1pdm09 0 0 0 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 53 1 0 Not subtyped 0 **Epidemiologic week** 0 0 2022 5-59 y/o 2022 <5 y/o 2022 5-59 y/o Parainfluenza 0 0 Epidemic Threshold <5 - Epidemic Threshold 5-59 - Epidemic Threshold ≥60 **Epi Week Summary** Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2022) (compared with 2011-2021) 3.5% During EW 9, six (6) SARI Percentage of SARI cases admissions were reported. 3.0% 2.5% 2.0% 1.5% 1.0% 0.5% 0.0% 7 1 3 5 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epidemiological Week SARI 2022 Average epidemic curve (2011-2021) Alert Threshold Epidemic Threshold - SARI 2021 Seasonal Trend **Caribbean Update EW 9** DISTRIBUTION OF INFLUENZA AND OTHER RESPIRATORY VIRUSES UNDER SURVEILLANCE BY EW, JAMAICA, 2022 1000 Caribbean: Influenza activity remained low. NUMBER OF POSITIVE CASES In Belize, SARS-CoV-2 and RSV detections continued to increase and in Haiti, SARS-CoV-2 activity continued elevated and 500 Ο 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 1 A(H1N1)pdm09 A not subtyped A not subtypable Epi Week ■A(H1) A(H3N2) Parainfluenza RSV Adenovirus Metapneumoviru Rhinoviru Coronaviru Bocavirus Others SARS-CoV-2 Positive Positive for Other Respiratory Viruses* # Flu B positiv SARS-CoV-2 Positive



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increasing.

NOTIFICATIONS-All clinical sites



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Dengue Bulletin

February 27 - March 5, 2022 Epidemiological Week 9

Epidemiological Week 9







Suspected dengue cases for 2020, 2021 and 2022 versus monthly mean, alert, and epidemic thresholds (2007-2021)



Points to note:

- *Figure as at March 17, 2022 •
- **Only PCR positive dengue cases** 0 are reported as confirmed.
- IgM positive cases are classified as presumed dengue.



All clinical

sites

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RESEARCH PAPER

Abstract

THE EPIDEMIOLOGY OF OSTEOMYELITIS IN THE SICKLE CELL POPULATION OF JAMAICA

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Introduction: Knowing the most likely causative organism causing osteomyelitis in the sickle cell population is crucial in implementing empirical therapy; the most common causative organism varies globally.

Objectives: To determine the epidemiology of culture proven osteomyelitis in patients who attended the Sickle Cell Unit (SCU) from 2008- 2018, in particular, to determine the most common organisms and whether there was an association of the causal organism with patient location or disease severity.

Methods: Ethical approval was obtained from The University of the West Indies Ethics Committee. The charts of all eligible patients were examined. The gender, age, address of individuals and the site of the osteomyelitis and causative organism were extracted. Polyostotic episodes and those which required greater than 42 days of antibiotics were deemed severe. Data were analyzed using SPSS; associations were assessed using the Pearson Chai- Squared Test.

Results: Forty three patients met the inclusion criteria; 26 males and 17 females with the mean age being 16.5 years (Range 1-60). St. Catherine was the most common parish. The most prevalent organisms included Salmonella (42%), Staphylococcus Aureus (26%) and Enterobacter (12%). Commonly affected sites included the Tibia (44%), Humerus (26%) and Femur (16%), 7% were severe. There was no association between the causal organism and patient location (p=0.196) or disease severity (p=0.367).

Conclusion: Salmonella was the most common organism causing osteomyelitis in persons attending the SCU. Specific education of patients in avoidance of exposure to this organism may be helpful.



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