WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

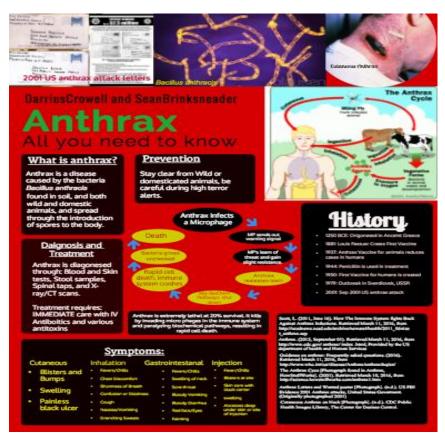
Zoonotic Diseases Series 3: Anthrax

What is Anthrax? Anthrax is a serious infectious disease caused by gram-positive, rod-shaped bacteria known as Bacillus anthracis. Anthrax can be found naturally in soil and commonly affects domestic and wild animals around the world. Although it is rare in the United States, people can get sick with anthrax if they come in contact with infected animals or contaminated animal products. Contact with anthrax can cause severe illness in both humans and animals. Anthrax is not contagious, which means you can't catch it like the cold or flu.

How do animals get infected with anthrax? Domestic and wild animals such as cattle, sheep, goats, antelope, and deer can become infected when they breathe in or ingest spores in contaminated soil, plants, or water. In areas where domestic animals have had anthrax in the past, routine vaccination can help prevent outbreaks.

How do people get infected with anthrax? People get infected with anthrax when spores get into the body. When anthrax spores get inside the body, they can be "activated." When they become active, the bacteria can multiply, spread out in the body, produce toxins (poisons), and cause severe illness. This can happen when people breathe in spores, eat food or drink water that is contaminated with spores, or get spores in a cut or scrape in the skin. It is very uncommon for people in the United States to get infected with anthrax. Certain activities can also increase a person's chances of getting infected.

Where is anthrax found? Anthrax is most common in agricultural regions of Central and South America, sub-Saharan Africa, central and southwestern Asia, southern and eastern Europe, and the Caribbean. Anthrax is rare in the United States, but sporadic outbreaks do occur in wild and domestic grazing animals such as cattle or deer. Anthrax is more common in developing countries and countries that do not have veterinary public health programs that routinely vaccinate animals against anthrax. In the United States, yearly vaccination of livestock is recommended in areas where animals have had anthrax in the past.





https://www.cdc.gov/anthrax/basics/index.html

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica



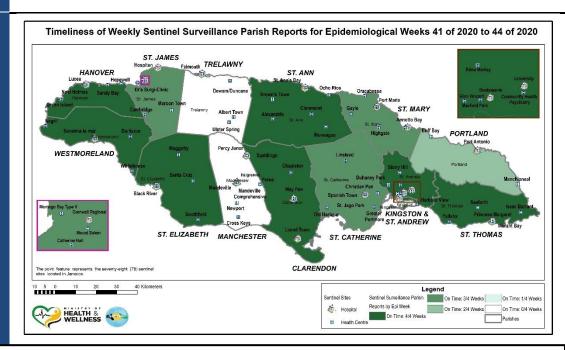
A syndromic surveillance system is good for early detection of and response to public health events.

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.

Map representing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 41 to 44 of 2020

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



REPORTS FOR SYNDROMIC SURVEILLANCE

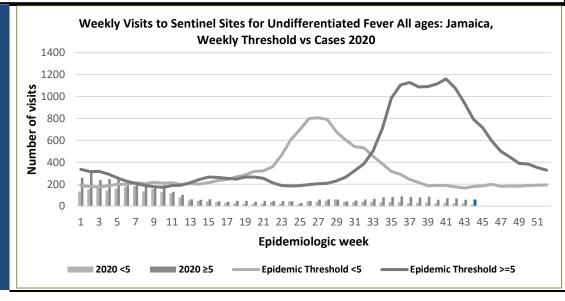
FEVER

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



KEY

VARIATIONS OF **BLUE** SHOW CURRENT WEEK





2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



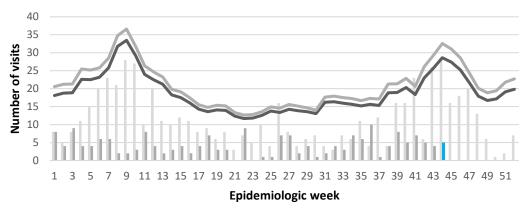
FEVER AND JAUNDICE

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.

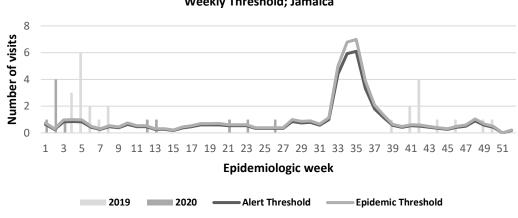


Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2019 and 2020 vs. Weekly Threshold: Jamaica

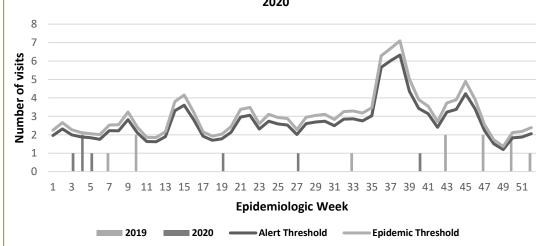


2019 — 2020 — Alert Threshold — Epidemic Threshold

Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2019 and 2020 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2019 and 2020





3 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



ACCIDENTS

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

KEY

VARIATIONS OF BLUE SHOW CURRENT WEEK

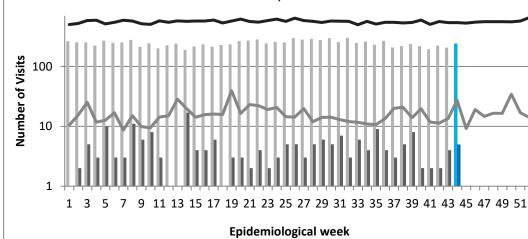


VIOLENCE

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



Weekly visits to Sentinel Sites for Violence by Age Group 2020 vs Weekly Threshold; Jamaica



GASTROENTERITIS

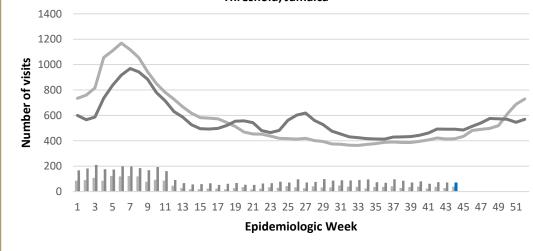
Inflammation of the stomach and intestines, typically resulting from bacterial toxins or viral infection and causing vomiting and diarrhoea.



Weekly visits to Sentinel Sites for Gastroenteritis All ages 2020 vs Weekly Threshold; Jamaica

<5 Epidemic Threshold</p>

■ <5 y.o





4 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

2020 <5



2020 ≥5

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

Epidemic Threshold <5



SENTINEL REPORT- 78 sites. Automatic reporting

Epidemic Threshold >5

■≥5 Epidemic Threshold

CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirmed YTD		AFP Field Guides
	CLASS 1 EVENTS		CURRENT YEAR 2020	PREVIOUS YEAR 2019	from WHO indicate that for an effective
Ţ	Accidental Poisoning		56	60	surveillance system, detection rates for
NATIONAL /INTERNATIONAL INTEREST	Cholera		0	0	AFP should be 1/100,000
	Dengue Hemorrhagic Fever*		NA	NA	population under 15
	Hansen's Disease (Leprosy)		0	0	years old (6 to 7) cases annually.
L /INTERN	Hepatitis B		3	23	
AL /	Hepatitis C		0	2	Pertussis-like
NO N	HIV/AIDS		NA	NA	syndrome and Tetanus are
ATI	Malaria (Imported)		0	0	clinically confirmed
Z	Meningitis (Clinically confirmed)		1	20	classifications.
EXOTIC/ UNUSUAL	Plague		0	0	* Dengue Hemorrhagic Fever
Z Z	Meningococcal Meningitis		0	0	data include Dengue
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0	related deaths;
H I ORJ	Typhoid Fever		0	0	** Figures include
ΣΣ	Meningitis H/Flu		0	0	all deaths associated with pregnancy reported for the period. * 2019 YTD figure was updated.
	AFP/Polio		0	0	
	Congenital Rubella Syndrome		0	0	
${f \circ}$	Congenital S	Syphilis	0	0	*** CHIKV IgM positive cases
MMES	Fever and	Measles	0	0	
	Rash	Rubella	0	0	
SPECIAL PROGRA	Maternal Deaths**		37	57	**** Zika PCR positive cases
	Ophthalmia Neonatorum		23	190	
	Pertussis-like syndrome		0	0	
	Rheumatic Fever		0	0	
	Tetanus		0	0	
	Tuberculosis		29	51	
	Yellow Fever		0	0	
	Chikungunya***		0	7	
	Zika Virus****		0	0	NA- Not Available







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

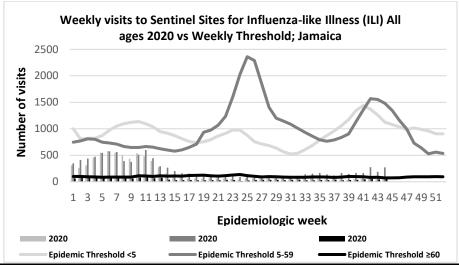


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 44

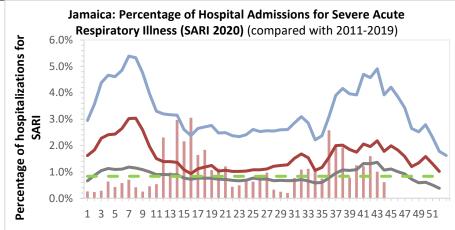
October 25, 2020 -October 31, 2020 Epidemiological Week 44

	EW 44	YTD
SARI cases	9	603
Total Influenza positive Samples	0	69
Influenza A	0	45
H3N2	0	4
H1N1pdm09	0	38
Not subtyped	0	3
Influenza B	0	24
Parainfluenza	0	0



Epi Week Summary

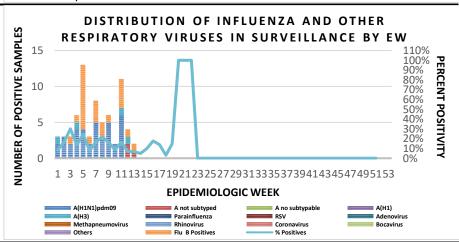
During EW 44, 9 (nine) SARI admissions were reported.



SARI 2020 Average epidemic curve (2011-2019) Seasonal Threshold Epidemic Threshold

Caribbean Update EW 44

Caribbean: Influenza and other respiratory virus activity remained low in the subregion. In Haiti, SARI activity increased above epidemic levels.





6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

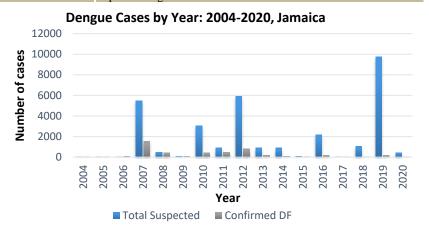


Dengue Bulletin

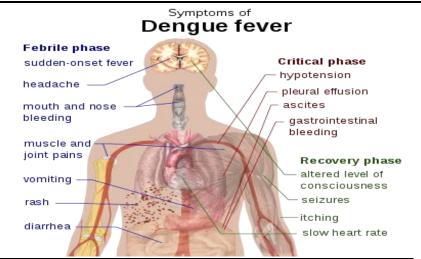
October 25, 2020 – October 31, 2020 Epidemiological Week 44

Epidemiological Week 44





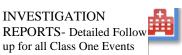
Reported suspected and confirmed dengu with symptom onset in week 44 of 2020					
	2020				
	EW 44	YTD			
Total Suspected Dengue Cases	0**	784**			
Lab Confirmed Dengue cases	0**	1**			
CONFIRMED Dengue Related Deaths	0**	1**			







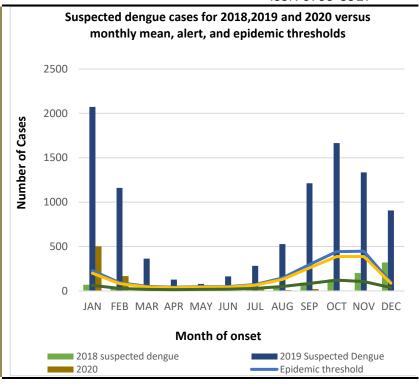
INVESTIGATION





Points to note:

- ** figure as at November 6, 2020
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.











TOTAL

COVID-19 Dashboard

EW 44

PARISH	NEW CASES	TOTAL CONFIRMED CASES	COVID-19 SUMMARY	
Clarendon	17	462	COMMULATIVE	CASES
Hanover	22	142	Confirmed Cases	9,131
KSA	104	3214	Persons Tested	96,535
Manchester	6	373	Active Cases	4,185
Portland	9	310	Total Recovered	4617
St. Ann	26	409	Negative Results	87,339
St. Catherine	64	2029	Total COVID-19 Deaths	209
St. Elizabeth	3	263	Female Cases	5,034
St. James	84	886	Male Cases	4,086
St. Mary	21	243	Cases Under Investigation	11
St. Thomas	4	400	Age Range	1day to 104
Trelawny	18	155	Imported Cases	499
Westmoreland	40	245		
Unknown		0]	

9131

#WEAR YOUR MASK

418



Email

support-Jamcovid19@moh.gov.jm

#WASH YOUR HANDS



HOTLINE

888-666-5683 888-754-7792 888-542-5998 888-542-6006











RESEARCH PAPER

ABSTRACT

Training Teachers to Help Students to Cope with Post-Traumatic Stress

Authors: Dr. Ganesh Shetty, Kingston & St. Andrew Health Department, Prof. Cynthia Onyefulu, University of Technology, Jamaica, Dr. Steve Weaver, University of the West Indies, Dr. Sandra Chambers, SE Regional Health Authority

Introduction: Exposure to trauma in children may result in mental health problems such as post-traumatic stress disorders (PTSD), anxiety disorder, depressive symptoms, dissociation, substance abuse, and delinquent and aggressive behaviors. The children who develop PTSD may later result in perpetrating violence on others. This study aimed to train a group of teachers in a primary school in Kingston, Jamaica with knowledge and skills to help students cope better with traumatic experiences. Research questions addressed were: What percentage of teachers know of the manifestations of and coping skills to manage PTSD prior to training? To what extent will there be a difference in the teachers' knowledge of symptoms and skills to cope with PTSD after training?

Methods: The mixed methods approach was used. All 20 (5 male & 15 female) teachers voluntarily participated in the study. The teachers were pre-tested to measure their knowledge of and ways of coping with PTSD in March 2019, and attended six training sessions, and were post-tested in June 2019.

Results: The results showed that the pre-test scores (M = 1.95, SD = 2.19) of 35% of the teachers knew some skills in managing PTSD before the training. The post-test scores (M = 4.00, SD = 1.69) of the 75% of the teachers learnt the skills after the training, while 50% retained their skills three months after the training. A feedback session was also conducted.

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1 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



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