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

WHO commemorates the 40th anniversary of smallpox eradication

Smallpox is an acute contagious disease caused by the variola virus, a member of the orthopoxvirus family. It was one of the world's most devastating diseases known to humanity. The last known natural case was in Somalia in 1977. It was declared eradicated in 1980 following a global immunization campaign led

by the World Health Organization.

Smallpox is transmitted from person to person via infective droplets during close contact with infected symptomatic people. CAUSES OF SMALLPOX

- Contact with the infected person
- In contact with an infected persons cough
 Sharing of clothing, sheets, ect.
- The variola virus



Organization commemorated the 40th anniversary of smallpox eradication today, recognizing the historic moment on 9 December 1979 when the end of smallpox was confirmed to have been eradicated. Five months later, in May 1980, the 33rd World Health Assembly issued its official declaration that 'the world and all its peoples have won freedom from smallpox'.

Until it was wiped out, smallpox had plagued humanity for at least 3000 years, killing 300 million people in the 20th century alone. The last known endemic case of smallpox was reported and the outbreak promptly contained in Somalia in 1977.

The successful smallpox eradication programme yielded vital knowledge and tools for the field of disease surveillance, the benefits of ring vaccination and the importance of health promotion in fighting diseases such as poliomyelitis and the Ebola virus. It also laid the foundation for stronger national immunization programmes worldwide,

underpinning establishment primary health care in many countries and creating momentum toward Universal Health Coverage.



Downloaded from: <u>https://www.who.int/news-room/detail/13-12-2019-who-commemorates-the-</u> 40th-anniversary-of-smallpox-eradication , https://www.who.int/csr/disease/smallpox/en/



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WEEK 48

SYNDROMES

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SENTINEL SYNDROMIC SURVEILLANCE





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.



REPORTS FOR SYNDROMIC SURVEILLANCE



Map representing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks -Weeks 44 to 48

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

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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. Visits for Fever and Haemorrhagic symptoms were reported in weeks 4 to 8, 39,41,42, 44 and 46 year to date.



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. Visits to sentinel sites for Fever and Jaundice were reported in weeks 7, 10, 33, 43 and 48 only, year to date.



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40 35 30 Number of Visits 25 20 15 10 5 n 1 3 9 11 13 15 17 19 23 25 39 43 45 29 41 **Epidemiological week** 2018 2019 Alert Threshold Epidemic Threshold

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







3 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





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CLASS ONE NOTIFIABLE EVENTS

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Comments

- CLASS C	DINE NOTIFIADLE EVENTS COmments				
			Confirm	AFP Field Guides	
	CLASS 1 EV	VENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance system,
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		106	184	detection rates for AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually. Pertussis-like syndrome and Tetanus are clinically confirmed classifications.
	Cholera		0	0	
	Dengue Hemorrhagic Fever*		NA	NA	
	Hansen's Disease (Leprosy)		0	0	
L /INTERN INTEREST	Hepatitis B		23	85	
AL /I IN1	Hepatitis C		2	7	
7NO	HIV/AIDS		NA	NA	
NATI	Malaria (Imported)		1	5	
	Meningitis (Clinically confirmed)		21	37	
EXOTIC/ UNUSUAL	Plague		0	0	* Dengue Hemorrhagic Fever
H IGH MORBIDIT/ MORTALIY	Meningococcal Meningitis		0	0	data include Dengue related deaths; ** Figures include all deaths associated with pregnancy reported for the period. *** CHIKV IgM positive
	Neonatal Ter	Neonatal Tetanus		0	
	Typhoid Fever		0	0	
ΣΣ	Meningitis H/Flu		0	0	
	AFP/Polio	AFP/Polio		0	
	Congenital F	Congenital Rubella Syndrome		0	
Ň	Congenital Syphilis		0	0	
IMES	Fever and	Measles	0	0	cases
	Rash	Rubella	0	0	
SOG	Maternal Deaths ^{**}		59	59	
SPECIAL PROGRAN	Ophthalmia	Ophthalmia Neonatorum		272	
	Pertussis-like	Pertussis-like syndrome		0	
	Rheumatic F	Rheumatic Fever		0	
	Tetanus		0	0	
	Tuberculosis		58	73	
	Yellow Fever		0	0	
	Chikungunya ^{***}		7	10	
	Zika Virus****		0	1	NA-Not Available





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

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EW 48

November 24– November 30, 2019 Epidemiological Week 48

Number of Visits

	EW 48	YTD
SARI cases	7	490
Total Influenza positive Samples	7	468
Influenza A	7	425
H3N2	5	187
H1N1pdm09	0	226
Not subtyped	2	9
Influenza B	0	43
Parainflue nza	0	7

Epi Week Summary

During EW 48, 7 cases of influenza were detected. Percent positivity is 43.8%.

During EW 48, 7 (seven) SARI admissions were reported.



Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2019) (compared with 2011-2018)



Caribbean Update EW48

Influenza activity increased in some countries of the sub-region. In Cuba influenza activity increased with influenza B/Victoria viruses predominance; SARI cases increased but remained below levels observed in previous seasons for the same period. In Haiti, influenza activity increased in recent weeks with influenza A(H3N2) predominance; SARI cases increased and remained below the seasonal threshold. Influenza activity continued increased in Jamaica with influenza A(H3N2) virus predominance and SARI cases at low levels..



6 NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued SE RE Au

Dengue Bulletin

November 24- November 30, 2019 Epidemiological Week 48

Epidemiological Week 48





Total Suspected Confirmed DF



hypotension pleural effusion ascites gastrointestinal bleeding Recovery phase altered level of

Critical phase

consciousness

seizures

itching slow heart rate

Suspected dengue cases for 2018 and 2019 versus monthly mean, alert, and epidemic thresholds



2018 suspected dengue Alert Threshold

2019 Suspected Dengue Monthly mean

Epidemic threshold

NOTIFICATIONS-All clinical sites

<u>Points to note:</u>

2019

confirmed.

dengue.

•

0



**figure as at December 5,

Only PCR positive dengue

cases are reported as

IgM positive cases are

classified as presumed

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

2500

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

ABSTRACT

Title: "Anthropometry and food frequency in chronic non-communicable disease: associations in a clinic population"

Authors: S. Robinson, S. Dawson E-mail address: <u>stephenrobinson29@yahoo.com</u>

Objective:

To investigate the relation of body mass index (BMI) and waist circumference (WC) to frequency of consumption of commonly consumed foods, in patients enrolled at a Type V Health Centre in Kingston.

Method:

Twenty –four adult patients (22 females) attending the CNCD Clinic were conveniently selected for the study, with a cross-sectional analysis being conducted on these patients. Participants were selected if they were diagnosed with at least one CNCD. Their weights, heights, and waist circumferences were measured and data on the frequency of consumption of selected foods acquired utilizing an administered questionnaire. The main outcome measure was a correlation between anthropometry and food frequency.

Results:

Of the 24 subjects, 23 had a BMI >25.0 with 22 having a waist circumference exceeding the recommended limit (Females= 89 cm and Males =101 cm). Mean BMI was 34.3 ± 7.4 with mean WC being 104.9 ± 17.7 cm.

Neither BMI nor WC was significantly associated with frequency of consumption of any food item from the different Food Groups, but positive correlations were identified between BMI and age (p<0.0001), and BMI and WC (p=0.00051).

Conclusion:

No statistically significant associations were found between BMI, Waist Circumference and food frequency in this population. A follow-up study (larger sample size, other food intake measures) is recommended to demystify whatever link may exist between anthropometry and food intake. Alongside BMI measurements, WC could be used routinely in the nutritional assessment of CNCD patients at Health facilities.



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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

