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

Influenza: are we ready?

When 100 passengers on a flight from Dubai to New York in



September 2018 fell ill with respiratory symptoms, health officials were concerned that they might be carrying a serious respiratory illness called MERS-CoV (Middle East respiratory syndrome coronavirus) and quarantined the plane until further health checks could be completed. Testing showed that several were positive for the influenza virus,

which can be easily spread when people are in close contact or in contained spaces such as airports and planes for several hours. Influenza may not always be thought of by most people as a serious

illness – the symptoms runny nose, cough and make people confuse it Yet seasonal influenza people every year. That vaccinations are so especially to protect older people, pregnant who have vulnerable What most of us think seasonal influenza, so



of headaches, muscle pain can with a heavy cold. kills up to 650 000 is why influenza important, young children, women, or people immune. of as 'the flu' is called because it

comes around in the coldest season twice a year (once in the Northern hemisphere's winter, and once in the Southern hemisphere's winter) in temperate zones of the world, and circulates year-round in the tropics and subtropics.

The influenza virus is constantly mutating – essentially putting on ever-changing disguises – to evade our immune systems. When a new virus emerges that can easily infect people and be spread

between people, and to which most people have no immunity, it can turn into a pandemic. 2018 marks the 100th anniversary of one of the most catastrophic public health crises in modern history, the 1918 influenza pandemic known colloquially as "Spanish flu". This Spotlight focuses on the lessons we can learn from previous flu pandemics, how prepared we are for another one, and how work on seasonal flu can boost capacity for pandemic preparedness.



EPI WEEK 44



SYNDROMES

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RESEARCH PAPER

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Source:

http://www.who.int/influenza/spotlight?utm_source=website&utm_medium=homepage&utm_campaign=infl_uenza&utm_content=banner



30 sites. Actively pursued

FEVER AND JAUNDICE

Temperature of $>38^{\circ}C$ $/100.4^{0}F$ (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.

1 曲





All clinical sites



REPORTS- Detailed Follow up for all Class One Events

ACTIVE SURVEILLANCE-30 sites. Actively pursued

REPORT- 79 sites. Automatic reporting

CLASS ONE NOTIFIABLE EVENTS Comments										
			CONFIRMED YTD			AFP Field Guides				
	CLASS 1 EV	ENTS	CL	JRRENT YEAR	PREVIOU YEAR	s from WHO indicate that for an				
AL	Accidental Po	bisoning ¹	((423) 129	(431) 180	surveillance				
NON/	Cholera			0	0	system, detection				
ATI	Dengue Hemorrhagic Fever ²			2	3	should be				
ERN	Hansen's Disease (Leprosy)			0	2	1/100,000				
NTH	Hepatitis B			42	43	population under 15 years old (6 to				
	Hepatitis C			7	9	7) cases annually.				
₹NC	HIV/AIDS			NA	NA					
ATI	Malaria (Imp	orted)		5	0	Pertussis-like syndrome and				
Ż	Meningitis (Cl	inically confirmed)		35	102	Tetanus are				
EXOTIC/ UNUSUAL	Plague			0	0	clinically confirmed				
	Meningococca	l Meningitis		0	0	classifications.				
IGH BID TAL	Neonatal Teta		0	0	¹ Numbers in brackets					
H IOR OR	Typhoid Feve		0	0	indicate combined					
ΣΣ	Meningitis H/		0	0	Accidental Poisoning					
	AFP/Polio		0	0	² Dengue Hemorrhagic					
	Congenital Ru		0	0	Fever data include Dengue related deaths;					
\sim	Congenital Sy	Congenital Syphilis			0	³ Figures include all				
ME	Fever and	Measles		0	0	deaths associated with pregnancy reported for				
(AM	Rash	Rubella	0		0	the period.				
DGR	Maternal Dear	Maternal Deaths ³			44	⁴ CHIKV IgM positive cases				
PR(Ophthalmia N	266		292	<u>S</u>					
IAL	Pertussis-like	0		0						
PEC	Rheumatic Fe	0		0						
\sim	Tetanus		0		0					
	Tuberculosis	33		107						
	Yellow Fever	0		0						
	10		0							
	Zika Virus			1	0	NA-Not Available				
4 NOTIFICATIONS- All clinical sites INVESTIGAT REPORTS- D up for all Class		INVESTIGATION REPORTS- Detailed up for all Class One Ev	Follow Pents HOSPITAL ACTIVE SURVEILLANG 30 sites. Actively pursued		ITAL VE EILLANCE- S. Actively 2d	SENTINEL REPORT- 79 sites. Automatic reporting				

EW 44

NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

October 28 – November 3, 2018

October 2018								
	EW 44	YTD						
SARI cases	7	278						
Total Influenza positive Samples	0	170						
Influe nza A	0	141						
H3N2	0	65						
H1N1pdm09	0	76						
Not subtyped	0	1						
Influenza B	0	29						
Parainflue nza	0	7						

Comments:

During EW 44, SARI activity remained below the seasonal threshold, similar to the previous seasons for the same period. Decreased influenza activity was reported; with influenza A(H1N1)pdm09 predominating in previous weeks



Epidemiological Week 44







<u>GLOBAL AND REGIONAL</u> <u>UPDATES</u>

<u>Worldwide</u>: Seasonal influenza subtype A accounted for the majority of influenza detections.

Caribbean: Influenza virus activity slightly increased, and low RSV activity was reported throughout most of the sub-region. In Jamaica, influenza activity decreased, with influenza A(H1N1)pdm09 and A(H3N2) cocirculating.



SARI 2017

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



SENTINEL REPORT- 79 sites. Automatic reporting



NOTIFICATIONS-All clinical sites

Dengue Bulletin

October 28 – November 3, 2018

Epidemiological Week 43



Weekly Breakdown of suspected and



confirmed cases of DF, DHF, DSS									
		20	2017						
	\mathbf{X}	EW 44	YTD						
Total Suspe Ca	cted Dengue ises	3	359	122					
Lab Confirm ca	ned Dengue ses	3	7	1					
Ð	*DHF/DSS	0	2	1					
CONFIRM	Dengue Related Deaths	0	0	0					



*DHF/DSS: Dengue Haemorrhagic Fever/ Dengue Shock Syndrome

Points to note:

- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.





6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 79 sites. Automatic reporting

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Gastroenteritis Bulletin

October 28 – November 3, 2018

Epidemiological Week 44



Weekly Breakdown of Gastroenteritis cases										
Year		EW 44		YTD						
	<5	≥5	Total	<5	≥5	Total				
2018	148	243	391	5,692	8,748	14,440				
2017	115	175	290	6,894	8,815	15,709				

Gastroenteritis:

In epidemiological week 44, 2018, the total number of reported GE cases showed a 35% increase compared to EW 43 of the previous year. The year to date figures showed a 8% decrease in cases for the period.

Figure 1: Total Gastroenteritis Cases Reported 2017-2018



Total number of GE cases per parish for Week 43, 2018

Parishes	KSA	STT	POR	STM	STA	TRE	STJ	HAN	WES	STE	MAN	CLA	STC
<5	1927	147	96	382	589	336	340	218	241	192	541	380	330
≥5	1503	293	160	669	1145	582	771	330	481	353	905	766	790



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 79 sites. Automatic reporting

RESEARCH PAPER

Knowledge, Attitudes, and Practices regarding screening for Cervical Cancer of Female Health Care Workers age 20-60 years employed to Manchester Health Services.

By: Thompson-Nelson K

Southern Regional Health Authority

Recent statistics highlighted that there is a problem of low compliance in cervical cancer screening among women of reproductive age in Manchester.

Objectives : To assess the knowledge, attitudes and practices of female health care workers regarding screening for cervical cancer, to assess level of compliance to the screening guidelines and to identify barriers to screening.

Methods: This study was a cross-sectional descriptive one, utilizing both quantitative and qualitative designs. Quantitative design was done using a researcher to administer the questionnaires. These study participants were selected using random sampling (N=150) and the staff lists were coded using numbers to ensure anonymity of subjects. The qualitative design included in-depth interviews of four participants who were not included in the quantitative phase of the study.

Results: There was a high awareness of cervical cancer and Pap smear among the group in that 99% and 100% respectively heard about cervical cancer and Pap smear. More than 50% scored, "poor to very poor." regarding knowledge of risk factors for the disease. Of the sample 55% were in compliance with the cervical cancer screening guidelines and 91% displayed a positive attitude to screening while 89% had ever done a Pap smear. Fear, comfort and privacy were the most outstanding barriers to screening mentioned, and the majority of the smears were done at private facilities.

Conclusion : This study has revealed information that will help Coordinators at the National and Local level to devise strategies necessary to strengthen the existing screening programme, educate re risk factors of the disease as well as to empower health care workers to improve compliance to the screening guidelines and uptake of screening in the public health care facilities.



8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 79 sites. Automatic reporting