WEEKLY EPIDEMIOLOGICAL REPORT

A publication of the Epidemiology Unit Ministry of Healthcare and Nutrition

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Influenza Surveillance

Human Influenza has been prevalent in our country from ancient times. However the epidemiology of the disease was unknown because there was no established surveillance network to collect data regarding the disease. With the potential threat of spreading Avian Influenza (AI) globally, Pandemic Influenza Preparedness and Response activities in the country began in 2006. As a result, Human Influenza surveillance has been initiated in the following 20 hospitals identified as sentinel surveillance sites for Avian Influenza.

LRH	TH Kandy
IDH	TH Batticoloa
NHSL	TH Jaffna
TH Kalubowila	TH Badulla
TH Peradeniya	TH Anuradhapura
TH Ratnapura	BH Polonnaruwa
TH Kurunegala	TH Ragama
SJGH	BH Chilaw
BH Vavuniya	TH Karapitiya
BH Nuwara Eliya	GH Matara

These hospitals are mostly tertiary hospitals in identified high risk districts for possible AI transmission. An effective epidemiological and laboratory surveillance of influenza cases attending the Out Patient Departments (OPD) and wards of these institutions are expected to send specimens from patients suspectied of Influenza like illness (ILI) or any other respiratory viral infection to the Medical Research Institute (MRI). Each hospital is expected to send at least 30 respiratory samples from these patients to the National Influenza Centre, MRI every month where they are tested for influenza viruses to identify the current circulating influenza strains in the country.

Influenza Surveillance Network

These hospitals are also expected to send

weekly data returns on the influenza patients to the Epidemiology Unit where the data are entered into a database for further analysis. Format of this return is given below.

Weekly Reporting of ILI

Hospital staff especially those in the OPD and wards are being trained on AI preparedness and on influenza surveillance and influenza surveillance activities in these sentinel hospitals are periodically reviewed by the Epidemiology Unit.

Patients with at least 6 of the following criteria should be included in the surveillance in a non-epidemic period. Those with at least 4 criteria should be included during an influenza epidemic.

Criteria for selection of patients for ILI (Influenza like Illness)

- 1. Acute onset (at least within 4 days)
- 2. Cough
- 3. Fever
- 4. Rigors or chills
- 5. Myalqia
- 6. Prostration / weakness
- 7. Redness of throat
- 8. Similar illness in close contacts

Type of specimens to collect from the selected patients are as follows

Naso-Pharyngeal Aspirate (to be collected using a mucous extractor)

Nasal wash

Nasal and throat swabs (1 throat and 2 nasal swabs per patient)

Post mortem specimen from lung tissue (Tru cut needle biopsy)

Transport of Specimens

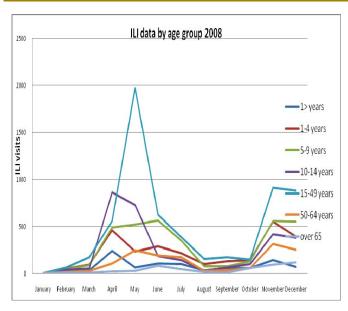
Specimen should be packed in ice and transported to the MRI in viral transport medium (available on request from MRI).

Influenza Like Illness Surveillance – 2008

During year 2008, 2355 clinical samples from ILI patients were tested at the MRI. The following table summarizes the types of virus isolated from these samples.

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Following graph summarizes the monthly distribution of ILI visits to the sentinel sites during year 2008, according to age groups.

Criteria for selection of patients for ILI (Influenza like Illness)

- 1. Acute onset (at least within 4 days)
- 2. Cough
- 3. Fever
- 4. Rigors or chills
- 5. Myalgia
- 6. Prostration / weakness
- 7. Redness of throat
- Similar illness in close contacts

Influenza Like Illness Surveillance - 2008

During year 2008, 2355 clinical samples from ILI patients were tested at the MRI. The following table summarizes the types of virus isolated from these samples.

Table 1. Types of Viruses Isolated -2008

The following table summarizes the monthly distribution of ILI visits to the sentinel sites during year 2008, according to age groups.

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Month	No of Sampl es	Ade no	Inf . A	Inf Para . B Influ enza		RS V	H1N 1	H3N2	
Jan	132	0	0	0	1	0	0	0	
Feb	209	0	0	0	2	0	0	0	
March	186	2	2	1	1	0	0	1	
April	186	3	10	2	2	6	0	9	
May	204	4	10	0	1	6	0	9	
June	179	3	2	0	1	19	0	0	
July	211	6	0	0	0	10	0	0	
Aug	183	3	0	0	0	5	0	0	
Sep	185	0	0	0	0	0	0	0	
Oct	174	0	0	0	0	0	0	0	
Nov	236	0	0	1	0	0	0	0	
Dec	270	0	0	0	0	0	0	0	
Total	2355	21	24	04	08	46	00	19	

Types of specimen to be collected from selected patients are as follows

Naso-Pharyngeal Aspirate (to be collected using a mucous extractor)

Nasal wash

Nasal and throat swabs (1 throat and 2 nasal swabs per patient)

Post mortem specimen from lung tissue (Tru cut needle biopsy)

Transport of Specimens

Specimen should be packed in ice and transported to the MRI in viral transport medium (available on request from MRI).

Editor wishes to thank Dr Wasu Jayasinghe, Medical Officer, Epidemiology Unit, Colombo, for her contribution to this article.

			ſ													
District							We	ek Ending								
Sentinel Hospita	ıl						Dat	e of Report								
Date (Day, week)			•				•	Number of N	_						•	
	Tota	al	<	1 year	1 – 4	years	5-9	years	10-1	14 years	15-49	years	50-64	years	Over 65	
	Total	ILI	Total	ILI	Total	ILI	Total Visit	ILI	Total	ILI	Total	ILI	Total	ILI	Total Visit	ILI
	Visit		Visit		Visit				Visit		Visit		Visit			
Monday																
Tuesday																
Wednesday																
Thursday																
Friday																
Saturday																
Sunday																
Total for Week																
Population									<u> </u>							
Incidence Rate (per 100,000)																
ICN								Signature								

Table 1: Vaccine-preventable Diseases & AFP

05th-11th September 2009 (37thWeek)

Disease	W	С	No S	o. of Cas	es by F	Provinc NW	e NC	U	Sab	Number of cases during current week in 2009	Number of cases during same week in 2008	Total number of cases to date in 2009	Total number of cases to date in 2008	Difference between the number of cases to date in 2009 & 2008
Acute Flaccid Paralysis	01	00	01	00	00	00	00	00	01	03	01	56	71	-21.1%
Diphtheria	00	00	00	00	00	00	00	00	00	00	00	00	00	-
Measles	00	00	00	04	00	01	02	00	00	07	02	141	92	+53.3%
Tetanus	00	00	00	00	00	00	00	00	00	00	00	19	27	-29.6%
Whooping Cough	00	00	00	01	01	00	00	00	02	04	02	49	38	+28.9%
Tuberculosis	62	82	03	25	19	01	03	00	41	236	258	7352	6636	10.8%

Table 2: Newly Introduced Notifiable Disease

05th-11th September 2009 (37thWeek)

			N	o. of Ca	ses by	Provin	ce							5166	
Disease	W	С	S	N	E	NW	NC	U	Sab	Number of cases during current week in 2009	Number of cases during same week in 2008	Total number of cases to date in 2009	Total number of cases to date in 2008	Difference between the number of cases to date in 2009 & 2008	
Chickenpox	17	12	80	225	07	03	05	07	10	294	114	12666	3906	+224.3%	
Meningitis	16 CB=4 KT=12	00	04 GL=4	04 VU=4	06 AM=1 KM=5	13 KR=11 PU=2	06 PO=6	00	02 RP=1 KG=1	51	13	863	981	-12.0%	
Mumps	04	12	01	01	15	01	06	00	08	48	96	1404	2150	-34.7%	
Leishmaniasis	00	00	10 HB=10	00	00	00	03 AP=3	00	00	13	Not available*	535	Not available*	-	

Key to Table 1 & 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.

DPDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna,

KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam,

AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.

Data Sources:

Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps.

Special Surveillance: Acute Flaccid Paralysis.

Leishmaniasis is notifiable only after the General Circular No: 02/102/2008 issued on 23 September 2008.

Table 4: Surveillance of Communicable diseases among IDP's 05th-11th Sept 2009 (37thWeek)

Area Disease	Dysentery	Enteric fever	Viral Hepatitis	Chicken Pox	Watery Diarrhoea
Vavunia	0	19	4	5	-
Chendikulam	27	71	22	212	407
Total	27	90	26	217	407

Table 4: Selected notifiable diseases reported by Medical Officers of Health

05th-11th September 2009 (37thWeek)

DPDHS Division		ngue / DHF*	Dyse	entery	Encephal itis			Enteric Fever		Food Poisoning		Leptospiros is		Typhus Fever		Viral Hepatitis		man oies	Returns Received Timely**
	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	%
Colombo	58	3381	7	161	1	11	9	166	0	45	155	657	0	5	6	98	0	4	92
Gampaha	64	3290	1	118	2	20	0	32	0	16	11	259	0	8	4	150	0	3	60
Kalutara	15	1317	1	284	0	11	1	48	1	44	40	247	0	1	1	65	0	2	83
Kandy	39	3536	1	219	0	6	0	23	1	56	5	167	4	138	3	98	0	0	84
Matale	32	1428	2	93	0	2	0	26	0	6	1	295	0	5	6	74	0	2	92
Nuwara Eliya	2	217	3	354	0	2	2	151	0	786	0	33	1	61	2	69	0	0	100
Galle	22	498	10	198	0	10	0	3	1	43	6	131	0	9	1	28	0	4	84
Hambantota	19	798	1	73	0	8	0	6	1	13	2	60	1	68	0	38	0	0	82
Matara	17	1016	2	221	0	4	0	5	0	16	2	125	7	115	1	49	0	1	76
Jaffna	0	14	0	89	0	3	0	209	0	28	0	0	0	124	0	160	0	2	0
Kilinochchi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mannar	0	5	5	75	0	1	2	95	0	4	0	0	0	0	1	55	0	0	75
Vavuniya	11	39	29	1548	1	25	91	589	0	2	0	5	3	5	28	3724	0	0	75
Mullaitivu	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Batticaloa	3	509	22	232	0	12	3	15	0	50	0	9	0	2	0	17	0	4	82
Ampara	2	211	7	47	0	0	1	12	0	8	1	11	0	2	1	29	0	0	100
Trincomalee	0	321	2	95	0	3	1	9	0	1	0	17	0	19	3	45	0	1	60
Kurunegala	57	2484	21	175	1	10	4	57	3	15	8	95	1	67	6	124	0	4	90
Puttalam	6	536	2	123	0	7	1	64	0	2	3	75	0	31	3	34	0	1	78
Anuradhapura	3	504	1	92	0	4	1	7	18	38	0	81	0	28	1	165	0	3	79
Polonnaruwa	7	149	11	59	1	4	1	21	0	6	1	58	0	9	7	64	0	0	100
Badulla	5	265	9	226	0	2	1	35	0	27	1	79	6	102	4	269	0	1	60
Monaragala	2	141	8	91	0	1	0	23	0	13	0	13	1	59	2	79	0	1	73
Ratnapura	20	1861	6	408	0	19	0	46	0	12	5	222	0	0	4	145	0	1	72
Kegalle	44	3454	7	142	0	8	2	36	0	6	24	183	1	1	17	196	0	1	91
Kalmunai	7	173	1	80	0	1	0	13	0	3	0	3	0	0	0	17	0	0	54
SRI LANKA	435	26147	159	5205	06	174	120	1692	25	1240	265	2825	25	918	101	5792	00	35	75

Source: Weekly Returns of Communicable Diseases WRCD).

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Comments and contributions for publication in the WER Sri Lanka are welcome. However, the editor reserves the right to accept or reject items for publication. All correspondence should be mailed to The Editor, WER Sri Lanka, Epidemiological Unit, P.O. Box 1567, Colombo or sent by Email to chepid@sltnet.lk.

ON STATE SERVICE

^{*}Dengue Fever / DHF refers to Dengue Fever / Dengue Haemorrhagic Fever.

**Timely refers to returns received on or before 11th September, 2009 Total number of reporting units =311. Number of reporting units data provided for the current week: 236

A = Cases reported during the current week. B = Cumulative cases for the year.