



SARAWAK

WEEKLY EPID NEWS

Sarawak Health Department

WEEK 28

10th – 16th JULY 2011

INFECTIOUS DISEASE/CRISIS HIGHLIGHTS IN SARAWAK

In Epid. Week 28, 2011, we received two food poisoning outbreaks that involved one institutional and a primary school i.e Kolej Sains Kesihatan Bersekutu, Kuching (65 cases) and SK Campuran Daro (41 cases). Both are intoxication poisonings.

There are ten cases of Leptospirosis (confirmed = 1 case, probable = 9 cases) notified in Epid. Week 28, 2011.

Vector Borne Diseases Control (VBDC) Section, Sarawak Health Department is currently in the process of implementing 6th and 7th cycles Mass Drug Administration (MDA) of filariasis as part of the National Lymphatic Filariasis Elimination Programme (LFEP).

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SARAWAK
State Health Department

CPRC (CRISIS PREPAREDNESS AND RESPONSE CENTRE)

Communicable Disease Control Section, Sarawak Health Department

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2. NEW OUTBREAKS/CLUSTERS

No	Disease	District	Locality	Case (No)	Outbreak declared
1	Food Poisoning	Kuching	Kolej Sains Kesihatan Bersekutu, Jalan Puncak Borneo, Kuching	65 cases	13.07.2011
2		Daro	SK Campuran, Daro	41 cases	11.07.2011

Only two outbreaks were reported in Epid. Week 28, 2011 to Sarawak Health Department.

2.1 Food Poisoning Outbreak at SK Campuran, Daro.

Daro Health Office was notified of food poisoning cases involving students of SK Campuran Daro on 11th July 2011 at 1305 hours. The students affected were those under Rancangan Makanan Tambahan (RMT). The food was supplied by a local caterer.

Epidemiology Analyses

The total number of students exposed are 229 and the number of cases were 41. The cases between the ages of 7 – 13 years, were presented with vomiting (100%), abdominal pain (87.8%), nausea (68.3%), diarrhoea (58.5%) and headache(9.6%). All 41 cases were treated at OPD Hospital Daro.

First Onset: 11/7/2011 at 1100 hours.

Last Onset: 11/7/2011 at 1647 hours.

Incubation period: 1 hour – 6 hours

Food & Environmental Assessment

The food was prepared at the caterer food premise stall.

Food preparation

Nasi lemak main ingredient was rice mixed with **planta** (instead of coconut cream), sambal and boiled egg. **Sambal** and boiled egg was prepared at 2100pm on 09/7/2011. The rice was cooked at 0400am on 10/7/2011. **Nasi lemak** was served at 1000am on the same day.

Laboratory investigation

Specimen:

Vomit: 4 from cases

Results: Two specimens are positive with *Staphylococcus aureus*. The cases were sent to Hospital Daro for treatment.

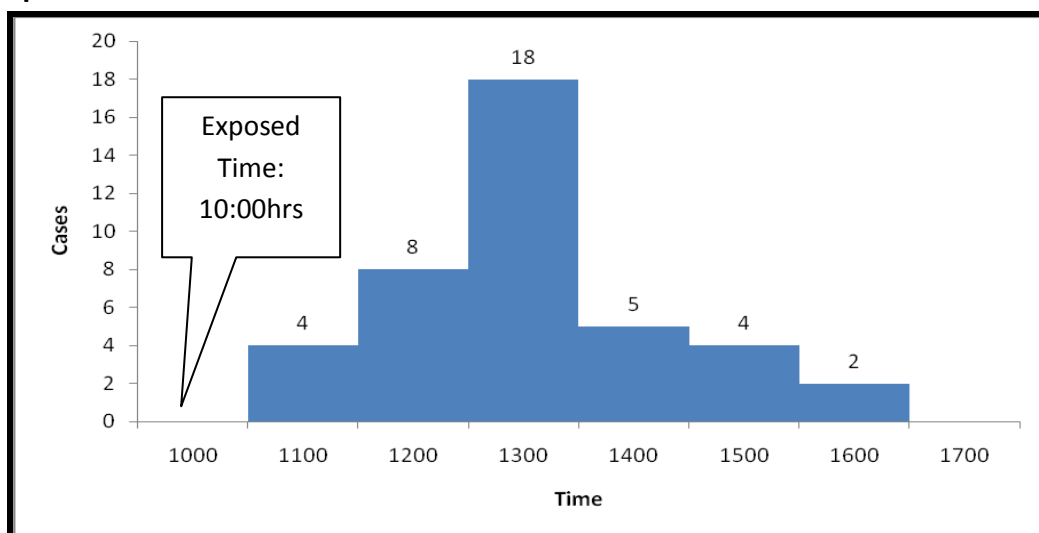
Nasal swab: 3 nasal swab were taken from food handlers.

Results: Two specimens are positive with *Staphylococcus aureus*

Sample: Two water samples were taken but both are negative for *Staphylococcus aureus*,
Free chlorine residual readings are 0.03 ppm

Surface swab: Chopping board used to cut boiled egg is positive for *Staphylococcus aureus*

Epid. Curve:



2.2 Food Poisoning Outbreak at Kolej Sains Kesihatan Bersekutu (KSKB), Kuching.

A food poisoning at KSKB was notified to PKB Kuching on 13/7/2011 at 1030 hours. One episode of food poisoning also reported at KSKB last year.

Epidemiology analyses

The number of students exposed were 213 person and number of cases were 61. The attack rate is 30.5%. Seven cases were treated but none were admitted. The cases aged between 18 -25 years old were presented with abdominal pain (98.5%), diarrhea (90.8%), nausea (16.9%), headache (15.4%), vomiting (6.2%) and fever (3.1%).

The incubation period ranges from 9.30 hours to 18 hours. The suspected food is **ayam masak kurma** and the suspected etiology agent is **Salmonella spp**. The chicken was undercooked (blood still presence) and students complained of “bau hanyir”(stinky).

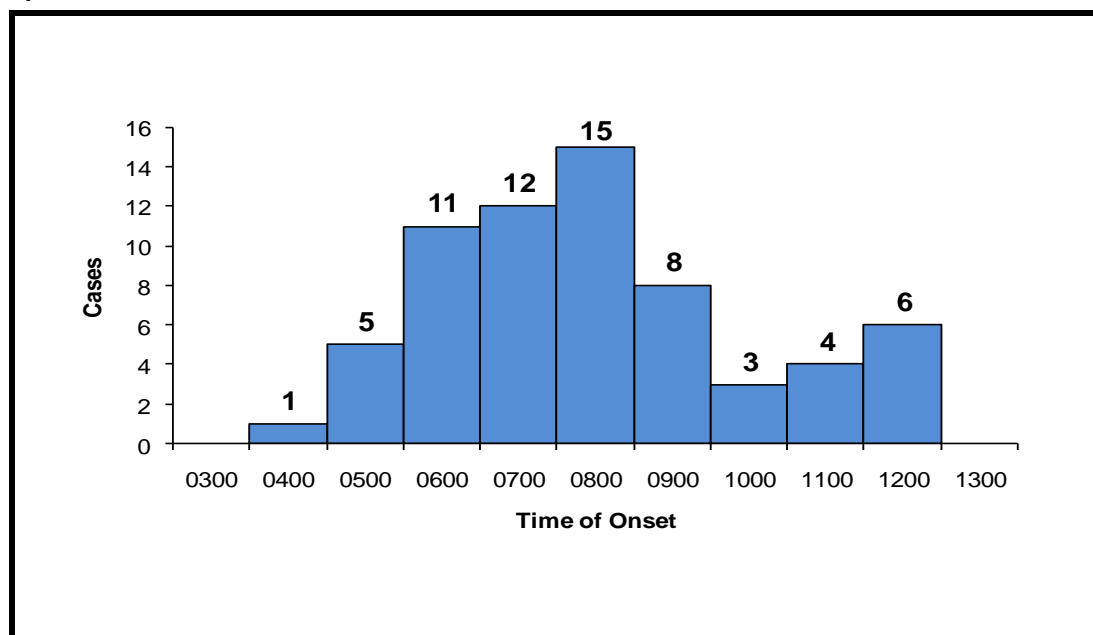
Food & environmental assessment

Overall premise sanitation is 59.6% inspected on 13/7/2011. Previous inspection was on 7/6/2011 and the rating was 87%. All food handlers (11 persons) did not attend any food handler course or have done any medical checkup. Ten (10) out of 11 food handlers are foreigners (Indonesian).

Laboratory investigation

No food sample was taken. Eleven Nasal swab and nine nail swab were collected from food handlers. One surface swab was taken each from refrigerator lid, sink and frying pan respectively. Two nasal swabs are positive for *Staphylococcus aureus*. Others results are still pending.

Epid. Curve:



3. MANDATORY NOTIFIABLE DISEASES REPORTED IN EPID. WEEK 28, 2011

District	***HIV/AIDS	Acute Poliomyelitis	Chancroid	Cholera	Diphtheria	*Dengue/DHF	Dysentery	Ebola	Food Poisoning	***Gonorrhoea	Hand, Foot & Mouth	**Leprosy	*Malaria	Whooping Cough	Measles	Plague	Rabies	Relapsing Fever	***Syphilis	Tetanus	**Tuberculosis (All forms)	Typhoid & Paratyphoid Fever	Typhus, Scrub	Viral Hepatitis	Viral Encephalitis	Yellow Fever	Leptospirosis
Lundu																							1				
Bau											1																
Kuching						1			65	1			1														3
Samarahan											6																
Asajaya											3																
Simunjan						1																					
Serian						2					2		2														
Sri Aman																										3	
L/ Antu																											
Betong																										1	
Saratok											1																
Sarikei											1		1														
Meradong																											
Pakan/Julau						1			41				3														
Daro																											
Matu																											
Dalat											1																
Mukah																											
Sibu						1					1		2														
Kanowit													3														
Selangau																											
Song													2														
Kapit						1							3														
Belaga																										2	
Tatau																										1	
Bintulu						1					3		2						1								
Miri						3					2				2									2			
Marudi						3							14														
Limbang						1													1								
Lawas																											
TOTAL (Week 28)	0	0	0	0	0	15	0	0	106	1	21	0	33	0	2	0	0	0	2	0	0	0	0	0	3	0	45
Total (2011)	64/31	0	0	252	0	567	7	0	796	237	916	8	965	13	102	0	0	0	79	1	972	4	0	60	9	0	35
Total (2010)	136/111	0	0	0	0	4240	62	0	1299	413	4987	22	2802	10	132	0	0	0	228	1	1639	27	0	35	2	0	49
Total (2009)	143/89	0	1	0	0	4564	82	0	1223	438	9655	15	2158	4	56	0	0	0	339	0	1689	24	1	169	10	0	0

* Dengue and malaria: notification from Vector Section (VEKPRO).

** TB & leprosy: notification from TB/Leprosy Control Section. **Figures are on monthly basis.**

*** HIV/AIDS, gonorrhoea, syphilis, and Hepatitis B: notification from STI/AIDS Section HFMD notification is based on masterlist.

Leptospirosis was gazetted as a notifiable disease on 9th December 2010.

3.1. Surveillance Report on Mandatory Notifiable Diseases.

Vector borne diseases and Re-emerging infectious will be discussed in their respective chapter.

3.1.1. HIV/AIDS.

No new case of HIV reported in Epid. Week 28, 2011. The cumulative total cases are remained 64 cases of HIV cases, involving all adult and out of these 44 cases (68.75%) are cases among male and 20 (31.25%) are female.

3.1.2. Cholera

No new case in Epid. Week 28, 2011. A total of 252 cases were from Limbang with involved three outbreak localities in March 2011. Finger printing study showed the organism to be local origin.

3.1.3. Dysentery.

No new case reported in Epid. Week 28, 2011. A cumulative total of seven cases of dysentery reported but only one case confirmed of *E. histolytica* from Simunjan District. The others are all negative.

3.1.4. Food Poisoning.

Two food poisoning outbreaks were reported in Epid. Week 28, 2011 at Kuching and Daro district involving 106 cases bringing a total of 796 cases involved from 29 outbreaks. 18 outbreaks happened in schools.

3.1.5. Gonorrhoea.

One new case reported in Epid. Week 28, 2011 from Kuching district. From a total 234 cases reported, all cases are adults and out of all cases, only one case of Gonococcal Neonatorum reported.

3.1.6. Leprosy.

A total 10 cases reported, one case was foreigner and nine were among the locals. All the cases were detected through active case detection (ACD).

3.1.7. Whooping Cough.

No case of suspected whooping cough are reported in Epid. Week 28, 2011. From a cumulative total of 25 suspected whooping cough cases, four cases were confirmed by culture (SGH Kuching=3, Miri=1) and one case confirmed by PCR from Sibu hospital. Eight cases are negative and the rest are still pending.

3.1.8. Measles.

Two new suspected measles cases were reported in Epid. Week 28, 2011. Patients was a five months old Melanau boy and a one year old Iban girl from from Miri district. Serology result is still pending. Cumulative total cases reported in year 2011 as on 16th July 2011 is 102 cases. From all the suspected cases, only one case was confirmed by positive IgM measles.

3.1.9. Syphilis.

Two new cases reported in Epid. Week 28, 2011. One case was from Bintulu district and the other case was from Limbang district. From a total of 79 syphilis cases reported, 75 (94.94%) cases are adult and only four cases (5.06%) are among children. Out of these, 40 (50.63%) cases are among male and 39 (49.37%) are among female.

3.1.10. Tetanus.

No suspected tetanus case reported in Epid. Week 28, 2011. The cumulative total of Tetanus reported is remained as one case. Patient is a 77 years old Chinese man from Kuching district.

3.1.11. Tuberculosis (all forms).

There are 173 cases confirmed in Jun, bringing a cumulative total of 972 cases reported in 2011 compared to 1689 total cases reported in year 2010.

3.1.12. Typhoid and paratyphoid fever.

A total of four confirmed cases reported from stool culture and sensitivity.

3.1.13. Viral Hepatitis.

One Hepatitis B case was reported in Epid. Week 28 from Lundu district. This case was a chronic case detected through blood test during admission involving a 46 years old Indonesian male. A cumulative total of 35 Viral Hepatitis B cases reported in 2011. Four are acute and 31 are chronic.

Two Hepatitis C cases were reported by Miri Hospital ini Epid Week 28, 2011. The first case was a 28 years old Malay male (chronic case) and the second case was a 51 years old Chinese female also a chronic case. A cumulative total of 25 Hepatitis C were reported in 2011 as on 16th July. Six cases are acute cases and 19 are chronic cases.

As on 16th July, 2011 a cumulative total of 60 Viral Hepatitis cases were reported but no case of Hepatitis A reported.

3.1.14. Viral Encephalitis.

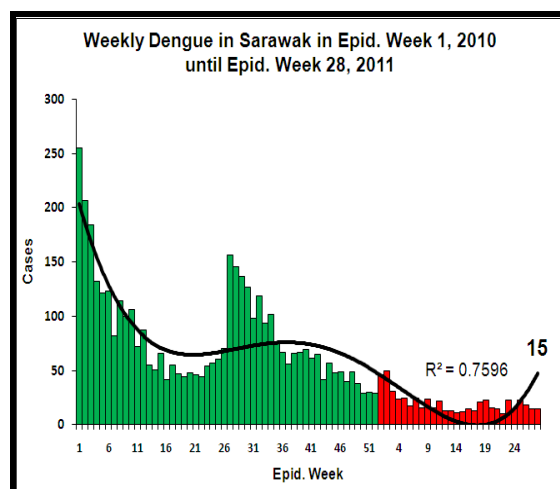
As 16th July 2011, a total of nine cases reported. One case of confirmed Japanese Encephalitis from Marudi district and seven are other viruses.

4. VECTOR BORNE DISEASES: DENGUE, MALARIA AND CHIKUNGUNYA

4.1. Notified Dengue cases for Epid. Week 28, 2011 as compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2010.

District	2011		2010		Total
	EW 28	Cum.	EW 28	Cum.	
Lundu	0	7	1	32	69
Bau	0	18	5	72	123
Kuching	1	64	5	300	473
Samarahan	0	12	0	70	97
Asajaya	0	4	0	7	10
Serian	2	10	2	109	140
Simunjan	1	9	1	38	47
Sri Aman	0	27	0	57	96
Lubok Antu	0	14	2	21	53
Betong	0	9	1	17	30
Saratok	0	4	0	17	20
Sarikei	0	12	0	59	91
Meradong	0	10	2	42	53
Pakan	1	10	0	18	30
Julau	0	9	1	12	20
Daro	0	6	0	43	95
Matu	0	1	6	16	25
Dalat	0	2	0	6	14
Mukah	0	4	0	17	39
Sibu	1	51	66	602	1021
Kanowit	0	17	2	32	64
Selangau	0	6	2	8	32
Song	0	8	1	9	16
Kapit	1	21	3	108	158
Belaga	0	15	0	18	39
Tatau	0	25	0	19	40
Bintulu	1	71	18	125	237
Miri	3	67	20	570	816
Marudi	3	37	5	86	126
Limbang	1	13	3	77	131
Lawas	0	4	0	17	35
Sarawak	15	567	146	2624	4240

EW = Epid. Week



A total of 15 dengue cases were reported for Week 28 (17th July, 2011) as compared to 146 cases during the same period in 2010.

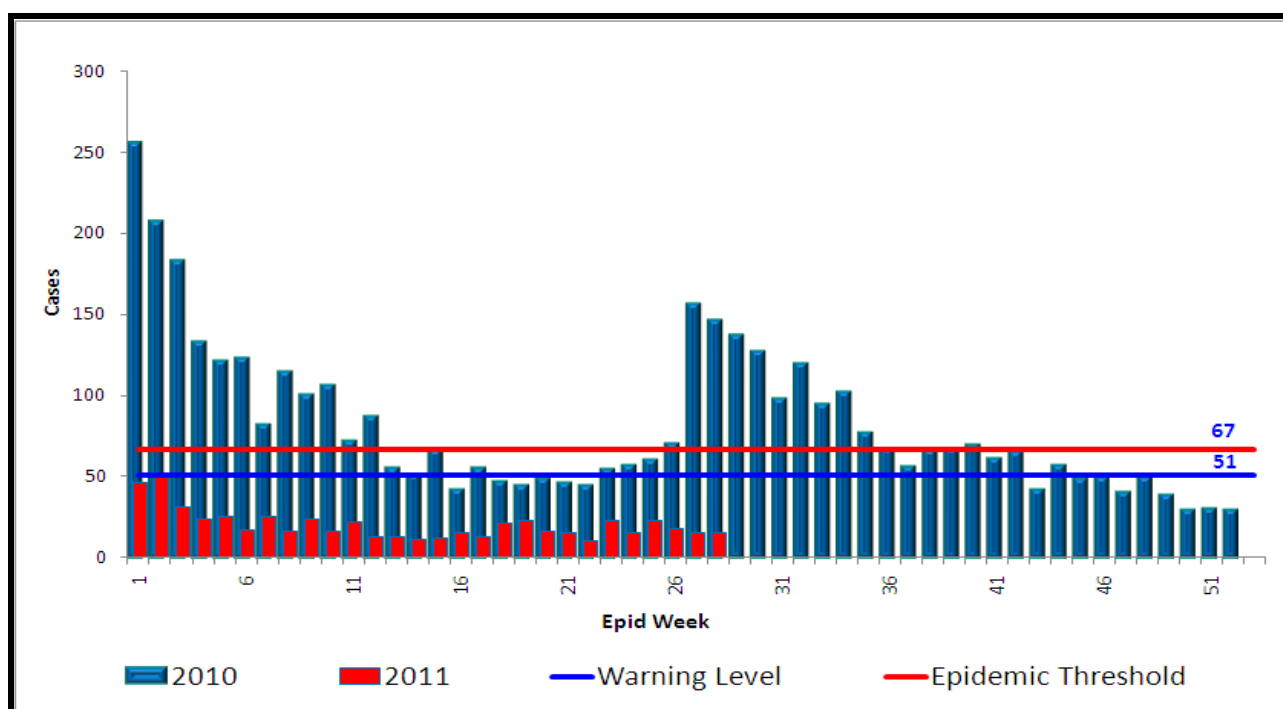
There is no increase of case from the previous Epid. Week (Epid. Week 27, 2011).

One outbreak localities is still active in Marudi. No uncontrolled outbreak is reported.

The top five districts with the highest number of reported cases were:

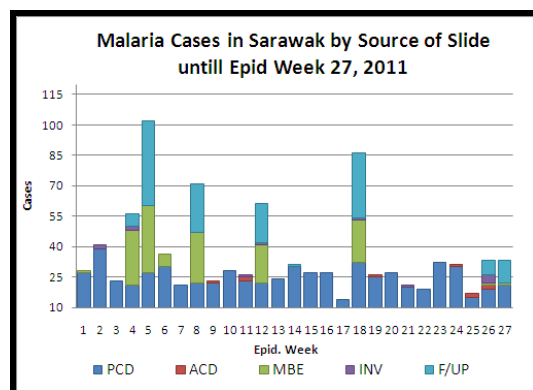
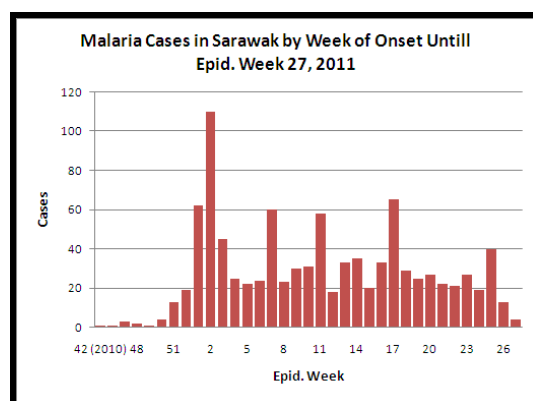
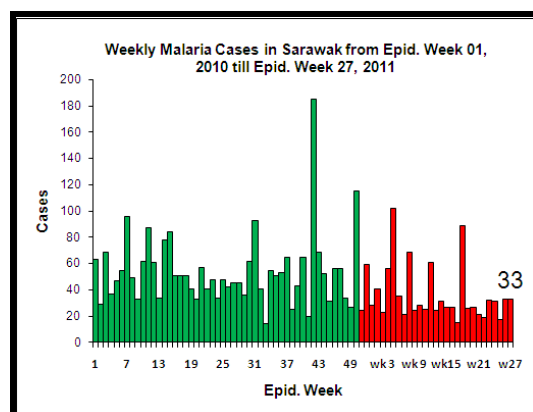
1. Bintulu
2. Miri
3. Kuching
4. Sibu
5. Marudi

4.1.1 Weekly Dengue Cases Showing Warning and Epidemic Level in 2011 as compared to 2010.



4.2. Notified Malaria cases for Epid. Week 27, 2011 compared to Epid. Week 27, 2010 and cumulative cases till Epid. Week 27 in 2011.

District	2011		2010		Total
	EW 27	Cum.	EW 27	Cum.	
Lundu	0	22	1	54	72
Bau	0	3	0	8	9
Kuching	1	12	0	15	27
Samarahan	0	2	0	0	2
Asajaya	0	0	0	0	0
Simunjan	0	2	0	14	17
Serian	2	15	2	45	58
Sri Aman	0	7	3	16	25
Lubok Antu	0	11	0	12	16
Betong	0	15	1	8	15
Saratok	0	1	0	3	4
Sarikei	1	13	0	3	8
Meradong	0	5	0	1	3
Pakan	1	10	0	7	14
Julau	2	34	0	17	34
Daro	0	1	0	0	1
Matu	0	0	0	0	1
Dalat	0	5	0	10	14
Mukah	0	2	0	3	6
Sibu	2	22	0	25	43
Kanowit	3	49	0	32	65
Selangau	0	6	0	4	9
Song	2	31	0	20	46
Kapit	3	113	1	60	134
Belaga	0	67	4	213	300
Tatau	0	16	0	7	12
Bintulu	2	24	1	14	39
Miri	0	19	0	12	32
Marudi	14	428	30	779	1734
Limbang	0	9	2	25	29
Lawas	0	21	0	19	33
Sarawak	33	965	45	1426	2802



A total of 33 cases were reported on week 27, 2011. Cumulative cases till week 27 were 965 cases. Of the 965 cases, 428 cases (44%) from Marudi District, 113 cases (12%) from Kapit District and 67 cases (7%) from Belaga District.

Notes: 1) EW = Epid. Week; 2) All Malaria cases should be notified within 3 days and as for Sarawak to be notified within 24 hours (Source: Vector Borne Disease Control Section, Sarawak Health Department)

Cases detected by slide source were:

Slides source	Epid. Week 27	Epid. Week 1 – Epid. Week 27
Passive Case Detection (PCD)	21	666
Active Case Detection (ACD)	0	8
Investigation slides (INV)	0	16
Mass Blood Survey (MBS)	1	132
Follow-up	11	143
Total	33	965

Cases Reported by PCD Units

Slides source	Epid. Week 27
Kanowit Hospital	3
KK Tubau	2
Bintulu Hospital	2
Kapit Hospital	2
KK Kapit	2
Sibu Hospital	2
Other PCD unit reported 1 case respectively	

Cases by species:

Species	Epid. Week 27	Epid. Week 1 – Epid. Week 27
<i>Plasmodium vivax</i>	17	583
<i>Plasmodium falciparum</i>	2	47
<i>Plasmodium malariae</i> [#]	7	204
<i>Plasmodium knowlesi</i>	7	127
<i>Plasmodium ovale</i>	0	0
Mixed infection	0	4
Total	33	965

Notes: # May include *Plasmodium knowlesi*

Cases classification:

Classification	Epid. Week 27	Epid. Week 1 – Epid. Week 27
Indigenous	27	747
Imported A*	4	112
Relapsed	2	105
Congenital	0	1
Total	33	965

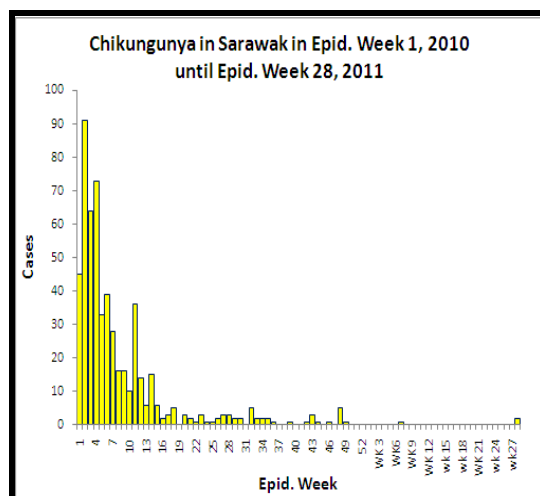
***Imported A cases:**

District reported	Place of Infection	Case	Species
Kanowit	Papua New Guinea	1	<i>P. falciparum</i>
Kapit	Africa	1	<i>P. falciparum</i>
Kuching	Kacamatan Supawi, Kabupaten Sambas, Kalbar, Indonesia	1	<i>P. knowlesi</i>
Sibu	Africa	1	<i>P. malariae</i>

4.3. Notified Chikungunya cases for Epid. Week 28, 2011 compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2010.

District	2011		2010		
	EW 28	Cum.	EW 28	Cum.	Total
Lundu	0	0	0	1	1
Bau	0	0	0	9	13
Kuching	1	1	1	69	72
Samarahan	0	0	0	2	3
Asajaya	0	0	0	1	1
Serian	1	1	0	15	15
Simunjan	0	0	0	17	17
Sri Aman	0	0	0	26	26
Lubok Antu	0	0	0	16	16
Betong	0	1	0	11	13
Saratok	0	0	0	8	8
Sarikei	0	0	0	6	7
Meradong	0	0	1	24	25
Pakan	0	0	0	9	10
Julau	0	0	0	22	22
Daro	0	0	0	19	21
Matu	0	0	0	0	0
Dalat	0	0	0	9	9
Mukah	0	0	0	11	12
Sibu	0	0	0	45	45
Kanowit	0	0	0	1	1
Selangau	0	0	0	0	0
Song	0	0	0	5	5
Kapit	0	0	0	59	67
Belaga	0	0	0	76	78
Tatau	0	0	0	6	6
Bintulu	0	0	1	42	44
Miri	0	0	0	12	13
Marudi	0	0	0	0	0
Limbang	0	0	0	0	0
Lawas	0	0	0	0	0
Sarawak	2	3	3	521	550

EW = Epid Week



Two cases of Chikungunya were reported in Epid. Week 28, 2011, one each from Kuching and Serian. During the same period in 2010, three cases were reported. The cumulative cases of Chikungunya for 2011 were three cases.

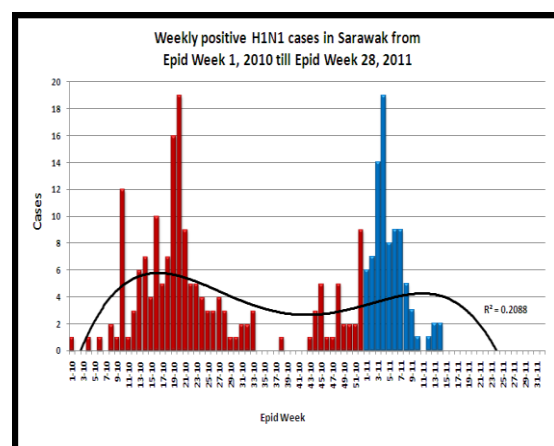
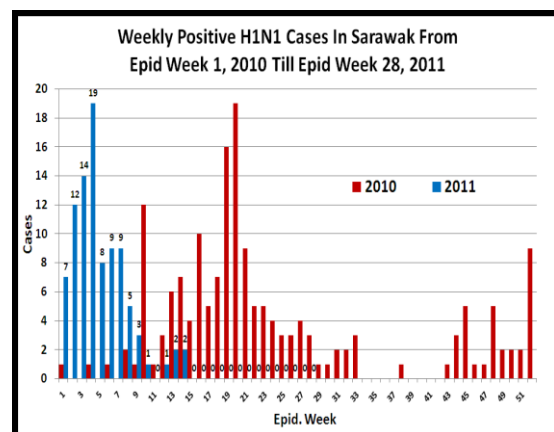
5. EMERGING/RE-EMERGING INFECTIOUS AND ZOO NOTIC DISEASES

5.1. H1N1

5.1.1 Positive Pandemic Influenza A (H1N1) cases for Epid. Week 28, 2011 compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2011.

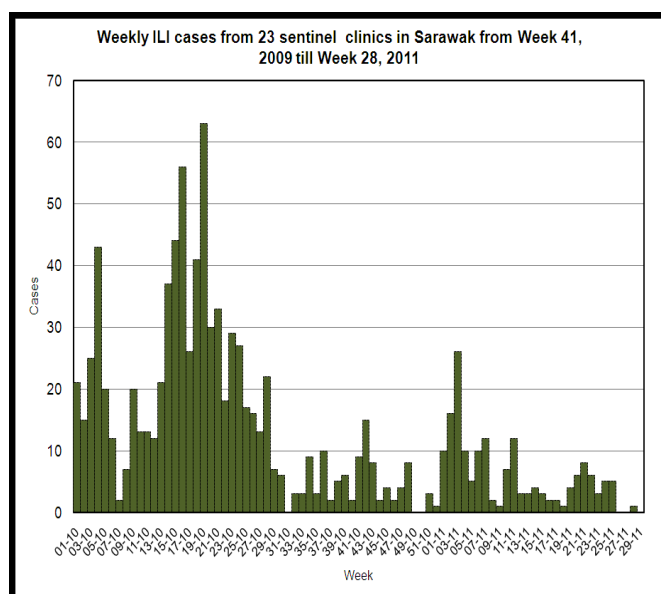
District	2011		2010		Total
	EW 28	Cum.	EW 28	Cum.	
Lundu	0	1	0	8	9
Bau	0	0	0	0	1
Kuching	0	51	1	40	61
Samarahan	0	0	0	5	8
Simunjan	0	0	0	3	4
Serian	0	0	0	2	2
Sri Aman	0	0	0	4	4
Lubok Antu	0	0	0	0	0
Betong	0	1	0	0	0
Saratok	0	0	0	0	0
Sarikei	0	0	0	2	2
Meradong	0	0	0	0	0
Julau	0	0	0	0	0
Daro	0	0	0	0	0
Dalat	0	0	0	0	0
Mukah	0	0	0	0	0
Sibu	0	1	0	19	19
Kanowit	0	0	0	1	1
Song	0	0	0	0	0
Kapit	0	1	0	1	1
Belaga	0	1	0	0	0
Tatau	0	0	0	0	0
Bintulu	0	27	0	15	19
Miri	0	6	0	7	7
Marudi	0	0	0	1	1
Limbang	0	2	0	18	20
Lawas	0	1	0	2	2
TOTAL	0	92	1	128	161

EW = Epid. Week



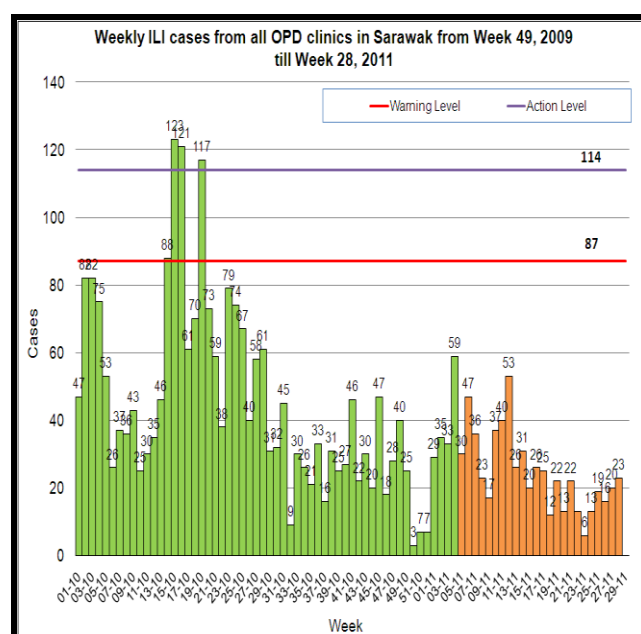
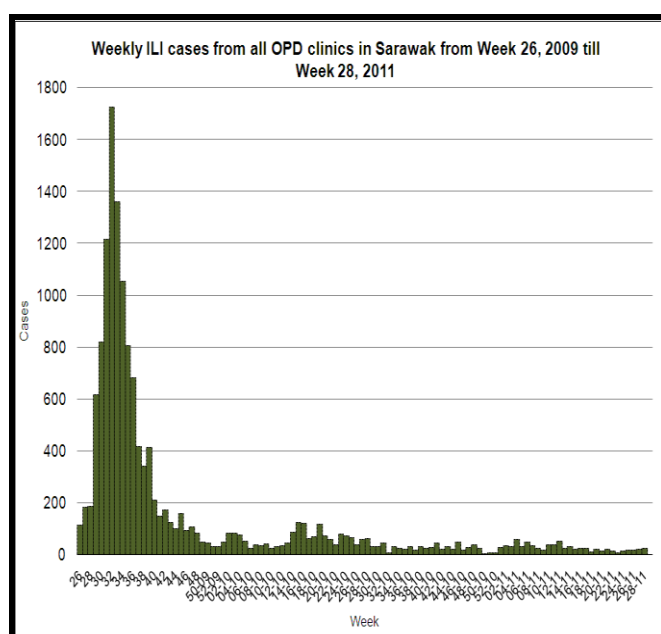
No H1N1 positive case was reported in Epid. Week 28, 2011. Cumulative total in 2011 are 92 cases as compared to 128 cases reported during the same period in 2010.

5.1.2 Outpatient Influenza-Like Illness (ILI) Surveillance from Epid. Week 25 in 2009 till Epid. Week 28 in 2011.



In Epid. Week 28, 2011, three ILI case reported from the 23 Sentinel clinics and all OPD clinics. This show an increasing trend in the number of cases compared to previous Epid. Week.

ILI is defined as a person with sudden onset of fever $> 38^{\circ}\text{C}$ and cough or sore throat in the absence of other diagnosis (Disease Control Division, Ministry of Health, October 2009).



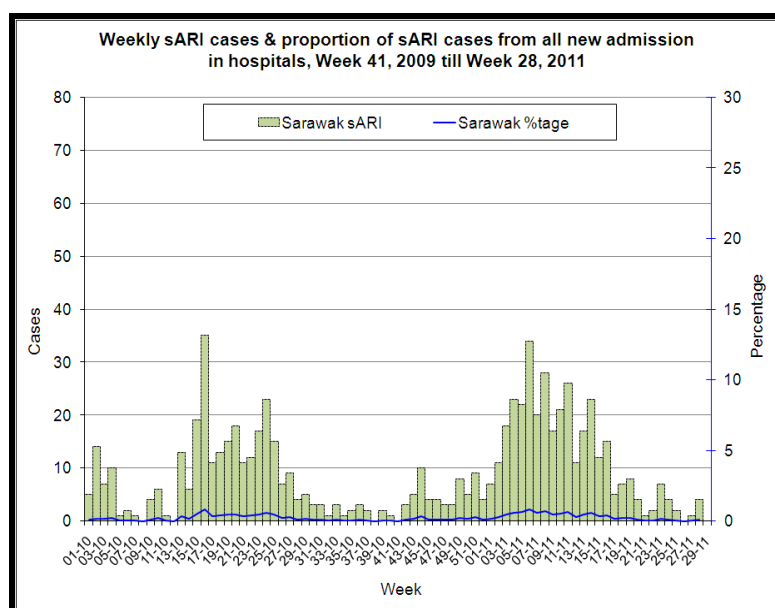
Referring to a letter dated 25 January 2011 from Office of the Deputy Director-General of Health (Public Health), Department of Public Health, Ministry of Health Malaysia about **PEMANTAUAN AKTIVITI H1N1 SECARA BERTERUSAN**, all PKB/PKD must send their daily H1N1 report as well as ILI and sARI surveillance activities to Operations Room, CPRC Unit, CDC Section, Sarawak Health Department **BEFORE 10.00 am every day**.

5.1.3. New and Cumulative ILI Clusters as of 16th July 2011.

Division	New Cluster (No)	Positive	Negative	Cumulative
Kuching	0	13	3	16
Samarahan	0	0	0	0
Sri Aman	0	0	0	0
Betong	0	0	0	0
Sarikei	0	0	0	0
Sibu	0	0	0	0
Kapit	0	0	0	0
Bintulu	0	0	1	1
Miri	0	1	0	1
Limbang	0	0	0	0
TOTAL	0	14	4	18

Note: First cluster in 2011 was detected on 31/12/2010 and the latest was on 9/4/2011.

5.1.4. Severe Acute Respiratory (sARI) Infection Cases



sARI is suspected when:

1. meets ILI case definition (sudden onset of fever $> 38^{\circ}\text{C}$ and cough or sore throat in the absence of other diagnosis, **AND**
2. shortness of breath or difficulty of breathing, **AND**
3. requires hospital admission
(Disease Control Division, Ministry of Health, October 2009)

5.1.5. Weekly Summary Report on sARI Admission in Government Hospitals in Sarawak as at 16th July 2011

Division	Hospital	New EW 28	Cumulative 2011	No. of Inpatient			No. of Patient on Ventilator	Throat swabs		
				ICU	ISO	Other wards		Positive	Pending	Negative
Kuching	SGH Kuching	3	150	0	0	3	0	0	0	3
	Bau	0	0	0	0	0	0	0	0	0
	Lundu	1	18	0	0	1	0	0	1	0
	RCBM	0	0	0	0	0	0	0	0	0
	Sentosa	0	0	0	0	0	0	0	0	0
Samarahan	Serian	0	0	0	0	0	0	0	0	0
	Simunjan	0	1	0	0	0	0	0	0	0
Sri Aman	Sri Aman	0	0	0	0	0	0	0	0	0
Betong	Betong	0	0	0	0	0	0	0	0	0
	Saratok	0	0	0	0	0	0	0	0	0
Sarikei	Sarikei	0	0	0	0	0	0	0	0	0
Sibu	Sibu	0	1	0	0	0	0	0	0	0
	Kanowit	0	0	0	0	0	0	0	0	0
Mukah	Mukah	0	0	0	0	0	0	0	0	0
	Dalat	0	0	0	0	0	0	0	0	0
	Daro	0	0	0	0	0	0	0	0	0
Kapit	Kapit	0	0	0	0	0	0	0	0	0
Bintulu	Bintulu	1	248	0	0	1	0	0	1	0
Miri	Miri	0	16	0	0	0	0	0	0	0
	Marudi	0	0	0	0	0	0	0	0	0
Limbang	Limbang	0	6	0	0	0	0	0	0	0
	Lawas	0	0	0	0	0	0	0	0	0
Total		5	440	0	0	5	0	0	2	3

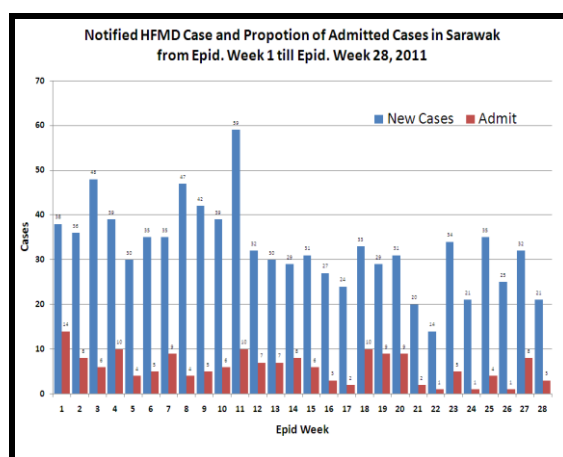
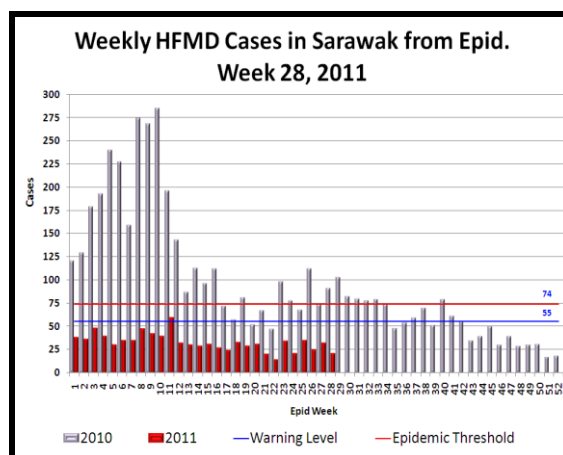
EW = Epid. Week

Five sARI admissions were reported in Epid. Week 28, 2011: SGH Kuching(3), Lundu Hospital(1) and Bintulu Hospital(1). None of the patients were in severe or critical condition. Three of the results are negative and two are still pending (Hospital Lundu and Hospital Bintulu).

5.2. Notified HFMD cases for Epid. Week 28, 2011 compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2011.

District	2011		2010		Total 2010
	EW 28	Cum.	EW 28	Cum.	
Kuching	0	165	31	759	961
Bau	1	18	2	175	209
Lundu	0	7	2	53	86
KUCHING	1	190	35	987	1256
Samarahan	6	34	2	115	127
Asajaya	3	16	0	2	7
Simunjan	0	1	2	17	37
Serian	2	5	1	22	25
SAMARAHAN	11	56	5	156	196
Sri Aman	0	26	3	108	145
Lubok Antu	0	5	2	16	23
SRI AMAN	0	31	5	124	168
Betong		29	4	53	103
Saratok	1	23	0	37	38
BETONG	1	52	4	90	141
Sarikei	1	61	5	175	206
Meradong	0	10	0	42	55
Pakan	0	2	2	32	37
Julau	0	1	1	18	24
SARIKEI	1	74	8	267	322
Daro	0	0	0	21	24
Matu	0	0	3	8	20
Mukah	0	34	1	208	259
Dalat	1	16	0	97	108
MUKAH	1	50	4	334	411
Sibu	1	55	9	402	517
Selangau	0	0	0	6	17
Kanowit	0	17	0	44	44
SIBU	1	72	9	452	578
Kapit	0	43	0	98	116
Song	0	10	5	19	29
Belaga	0	5	0	6	10
KAPIT	0	58	5	123	155
Bintulu	3	166	5	392	629
Tatau	0	12	0	11	28
BINTULU	3	178	5	403	657
Miri	2	110	10	604	911
Marudi	0	36	0	84	105
MIRI	2	146	10	688	1016
Limbang	0	8	0	54	54
Lawas	0	1	1	41	56
LIMBANG	0	9	1	95	110
SARAWAK	21	916	91	3719	5010

EW = Epid. Week

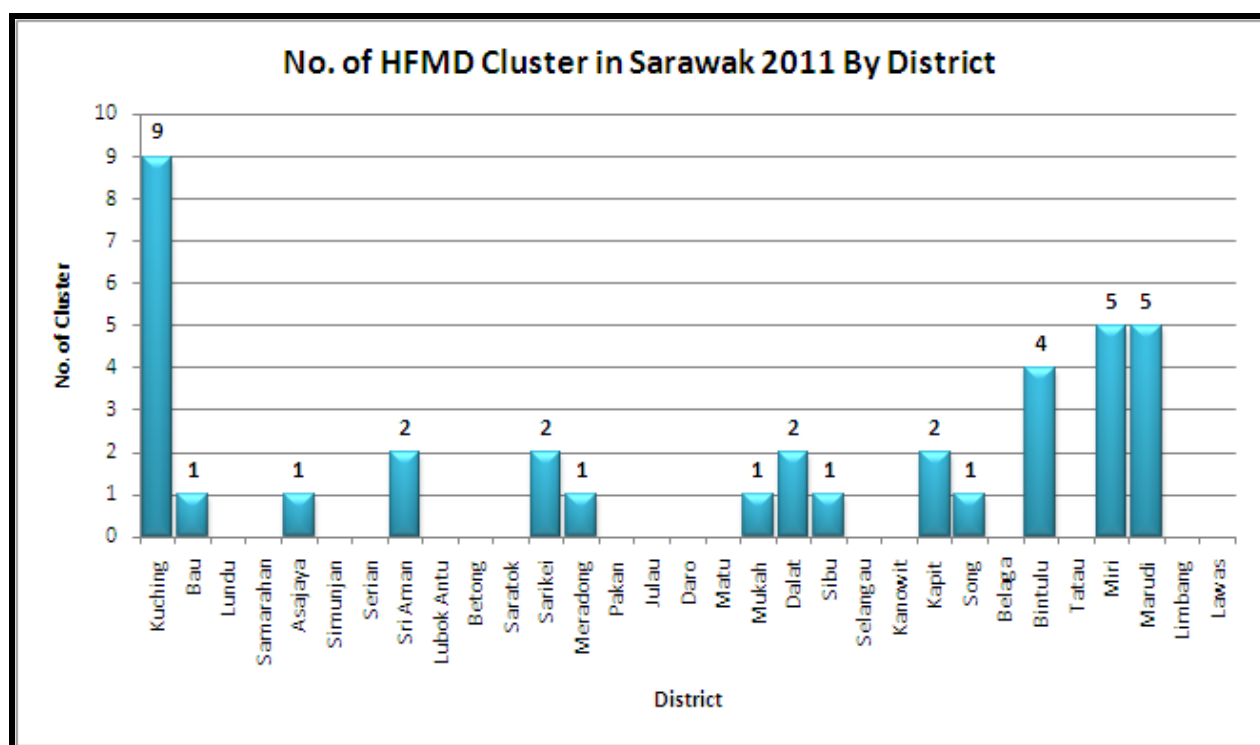
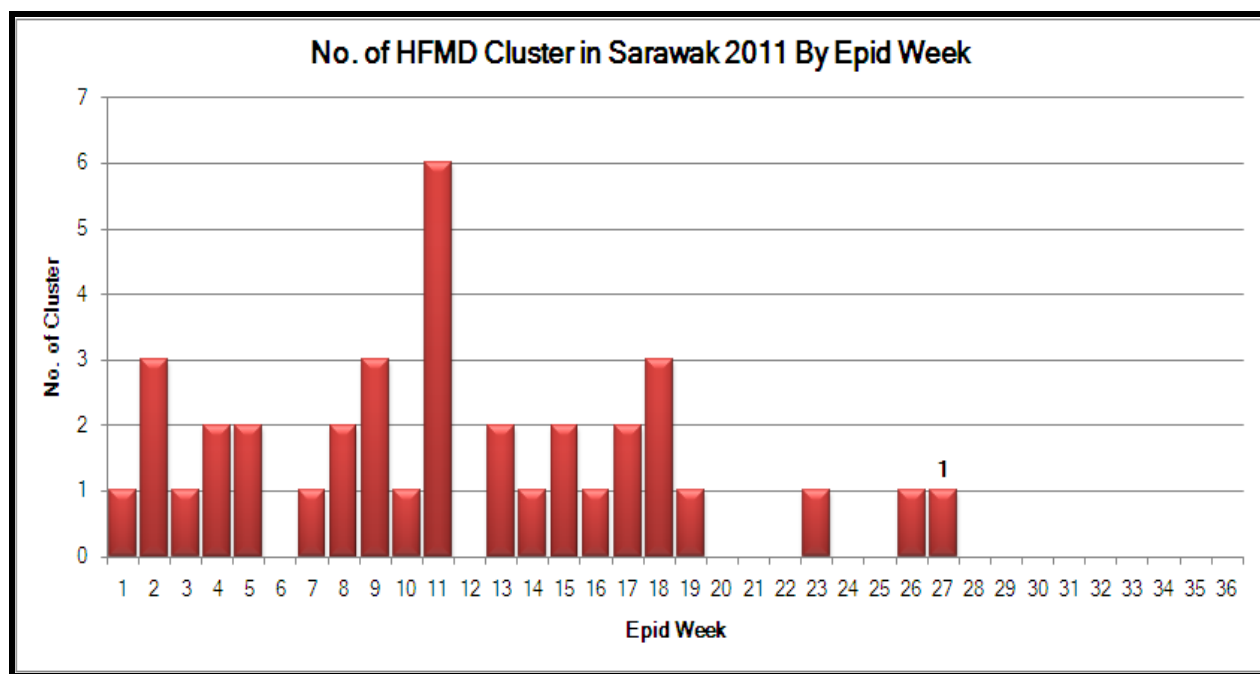


A total of 21 cases were reported in Epid. Week 28, 2011. This was a decrease of one case from Epid. Week 27, 2011. A cumulative total of 916 cases were reported as compared to 3,718 cases during the same period in 2010.

5.2.1 Cumulative HFMD Clusters as of 9th July 2011.

No HFMD cluster was reported in Epid. Week 28, 2011.

As at 16th July 2011 a total of 37 clusters were reported. 32 (86.49%) of the reported clusters were family cluster, three (8.11%) cluster in kindergarten and two (2.00%) are in school.



5.3. Notified Leptospirosis cases for Epid. Week 28, 2011 compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2011.

District	Case classification (positive)				Total positive leptospirosis	
	Confirmed		Probable		2011	2010
	EW 28/2011	EW 28/2010	EW 28/2011	EW 28/2010		
Lundu	0	0	0	0	0	0
Bau	0	0	0	0	0	1
Kuching	0	0	3	0	7	12
Samarahan	0	0	0	0	1	1
Serian	0	0	0	0	2	2
Simunjan	0	0	0	0	2	1
Sri Aman	1	0	2	0	3	1
Lubok Antu	0	0	0	1	4	3
Betong	0	0	1	0	1	0
Saratok	0	0	0	0	0	0
Sarikei	0	0	0	0	0	1
Meradong	0	0	0	0	0	1
Pakan	0	0	0	0	1	1
Julau	0	0	0	0	0	1
Daro	0	0	0	0	0	1
Dalat	0	0	0	0	0	0
Mukah	0	0	0	0	1	1
Sibu	0	0	0	0	1	6
Kanowit	0	0	0	0	3	1
Selangau	0	0	0	0	1	0
Song	0	0	0	0	0	2
Kapit	0	0	0	0	3	1
Belaga	0	0	2	0	3	0
Tatau	0	0	1	0	1	0
Bintulu	0	0	0	1	4	6
Miri	0	0	0	0	5	3
Marudi	0	0	0	0	1	2
Limbang	0	0	0	0	2	1
Lawas	0	0	0	0	0	0
Total	1	0	9	2	45	49

Note: () death; ELISA = Enzyme-Linked Immunosorbent Assay; MAT = microscopic agglutination test
Total positive = ELISA (probable) + MAT (not included equivocal result)
2011: Number of cases will depend on which Epid week results are received
2010: Cases are subject to change as some of the of the blood results still pending

Leptospirosis was gazetted as a notifiable disease mandated by under the Prevention and Control of Infectious Disease Act 1988 on 9th December 2010 (Surat Pekeliling Ketua Pengarah Kesihatan Malaysia Bil. 33/2010)

5.4. Notified Melioidosis cases for Epid. Week 28, 2011 compared to Epid. Week 28, 2010 and cumulative cases till Epid. Week 28 in 2011.

District	Blood test result				Total positive	
	Positive				2011	2010
	Culture		Serology			
	EW 28/2011	EW 28/2010	EW 28/2011	EW 28/2010		
Bau	0	0	0	0	0	0
Kuching	0	0	0	0	1	12
Samarahan	0	0	0	0	0	0
Simunjan	0	0	0	0	0	0
Serian	0	0	0	0	1	1
Sri Aman	0	0	0	0	1	0
Lubok Antu	0	0	0	0	1	0
Betong	0	0	0	0	0	2
Saratok	0	0	0	0	0	1
Sarikei	0	0	0	0	0	2
Meradong	0	0	0	0	0	2
Pakan	0	0	0	0	0	0
Julau	0	0	0	0	0	2
Dalat	0	0	0	0	0	1
Mukah	0	0	0	0	0	3
Sibu	0	0	0	0	0	5
Kanowit	0	0	0	0	0	1
Selangau	0	0	0	0	1	6
Song	0	0	0	0	0	7
Kapit	0	0	0	3	15	162
Belaga	0	0	0	0	8	28
Tatau	0	0	0	0	2	14
Bintulu	0	0	0	2	1	49
Miri	0	0	0	0	0	35
Marudi	0	0	0	0	0	7
Limbang	0	0	0	0	0	2
Lawas	0	0	0	0	0	1
Total	0	0	0	5	31	343

Note: () death; EW = Epid. Week

District indicate source of infection based on patient's current place of residence or workplace.

2011: Number of cases will depend on which Epid. Week results are received

2010: Cases are subject to change as some of the blood results still pending

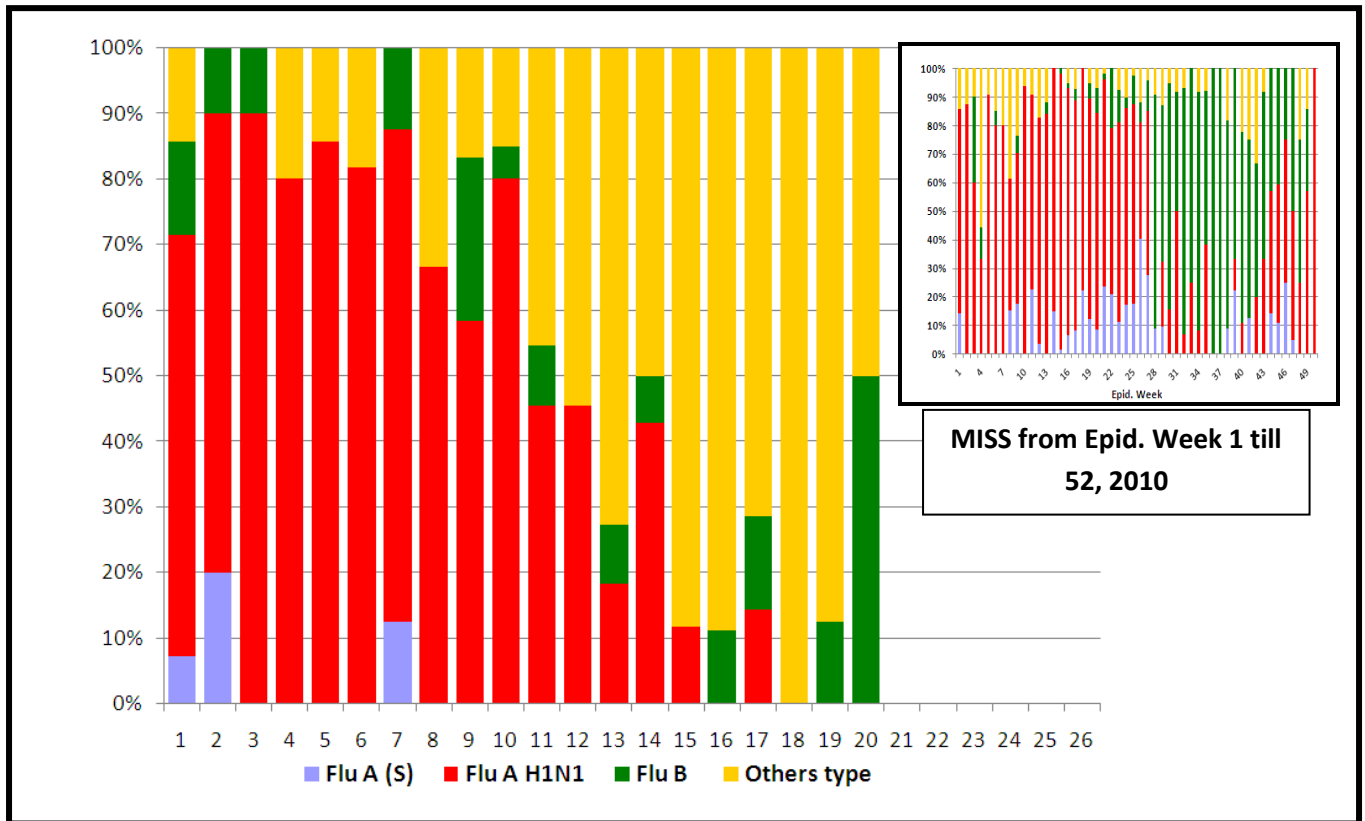
5.4.1. Locality of melioidosis outbreak in Sarawak as at 16th July 2011.

No	District	Locality	Number of cases	Outbreak declared
1	Belaga	Bakun Hydroelectric Project	3	15/02/2011
2	Kapit	Iron Wall Logging Camp	3	21/01/2011

Note: District indicate source of infection based on patient's current place of residence or workplace.

6. LABORATORY BASED SURVEILLANCE

6.1. Malaysia Influenza Surveillance System (MISS) (not included Sabah*) from Epid Week 1 till Epid Week 20, 2011 compare to Epid Week 1 till Epid Week 52, 2010 (inset)



* Specimen from Sabah were analysed at MKAK Kota Kinabalu itself.

In Malaysia, as at Epid Week 25, 2011, a total of 1,422 throat swab specimens were analysed at MKAK Sungai Buloh. Of these, 197 specimens isolated various types of influenza virus i.e. virus Flu A H1N1 (98), Flu A (s) [4], Flu B (18), and other types of virus (77). Since Epid. Week 11, 2011, Adenovirus (others type) is the dominant virus and as at 25th May 2011, 59 out of 196 specimens isolated adenovirus. Other viruses which are under category of others-type: Paramyxovirus (11), RSV (1), Enterovirus (1) and other viruses (9).

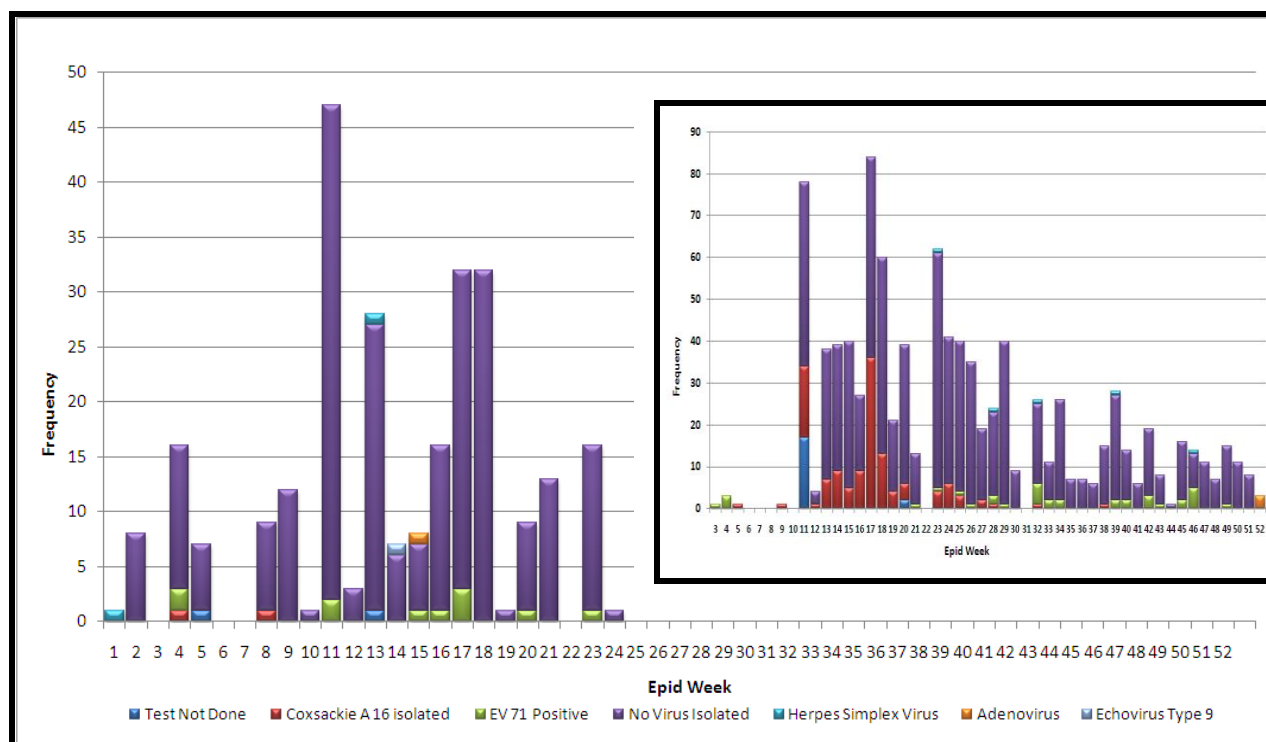
6.2. Laboratory Based Surveillance for Measles in Malaysia

In Malaysia, as at Epid. Week 25, 2011, a total of 1,574 serum specimens for serology test were sent to MKAK Sg. Buloh. Of these, 290 (19.5%) were positive for IgM Measles and 143 (12.2%) positive for Rubella.

A total of 1,261 specimens for viral isolation were sent to MKAK Sg. Buloh. Of these, 62 (5.0%) specimens positive for virus isolation: measles (18); rubella (44); herpes simplex virus 1 (2); and adenovirus (4).

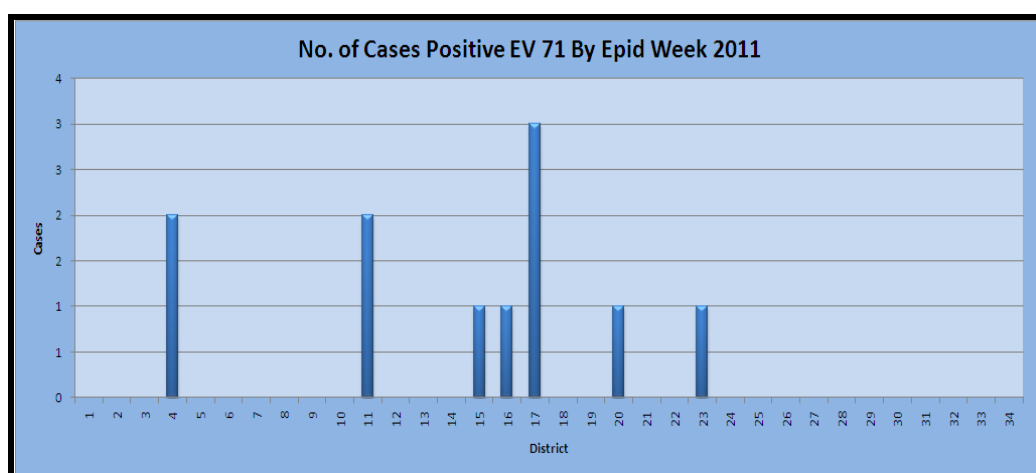
As at Epid Week 25, 2011, Sarawak had sent 110 specimens for serology test. Two specimens positive for measles IgM and 23 positive for rubella IgM. Only ten specimens for measles viral isolation from Sarawak were sent to MKAK Sg. Buloh but all were negative.

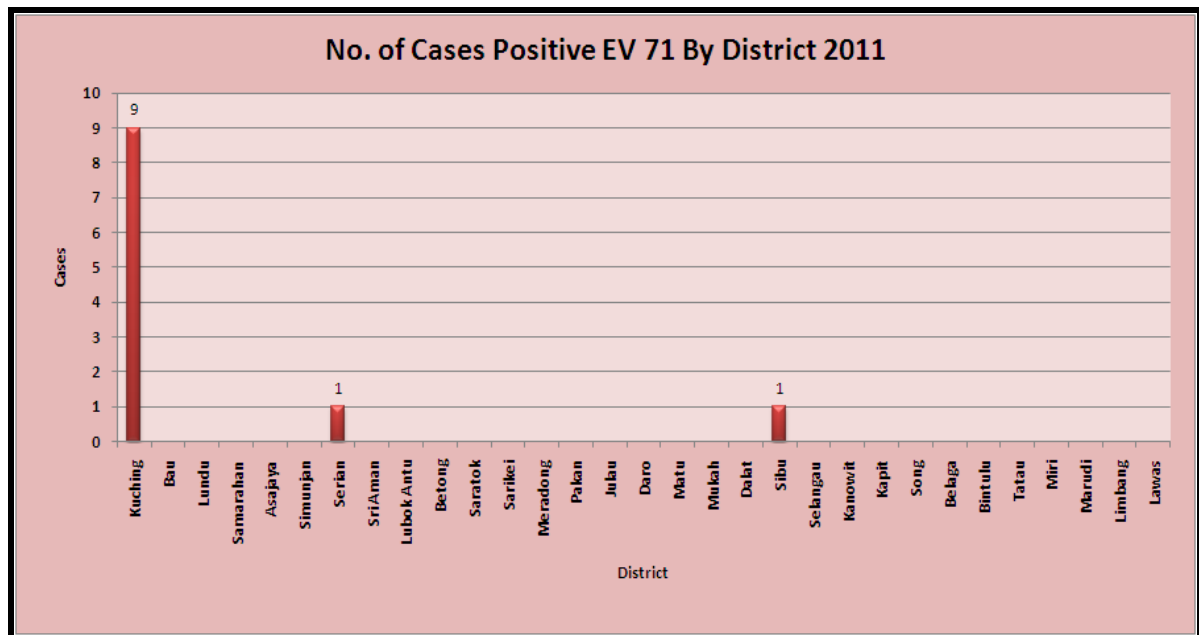
6.3. Laboratory Based Surveillance for HFMD in Sarawak from Epid Week 1 till Epid Week 27, 2011 compared to 2010 (inset).



In Malaysia, as at Epid. Week 27, 2011, a total of 777 specimens of HFMD were sent to MKAK Sg. Buloh for viral isolation. Out of these, 109 specimens isolated HFMD viruses: EV71 (28), Coxsackie A16 (71), Herpes Simplex (HSV 1) (6) and other virus (4). No virus isolated from other 150 specimens.

In Sarawak, as at Epid. Week 27, 2011, a total of 297 specimens were sent to MKAK Sg. Buloh for viral isolation. Of these, 17 specimens isolated viruses: EV71 (11), Coxsackie A16 (2), Herpes Simplex (HSV 1) [2] and other virus (2).





7. UPDATE ON LFEP AND STH PREVALENCE SURVEY

As part of the National Lymphatic Elimination Programme (LFEP), Sarawak has completed the five yearly cycles of Mass Drug Administration (MDA) for the treatment of lymphatic filariasis, which started in 2004 and completed in 2008. In this programme, all population in the identified areas known as “Implementation Unit”, are given single dose of Diethyl Carbamazine Citrate (DEC) and Albendazole (ALB) using the ‘direct observed therapy’ (DOT) method for each individual in the community affected. However assessment carried out in 2009/2010 showed that the disease remains endemic in some areas particularly in the northern region of the state. Hence the Ministry of Health, in consultation with the WHO, decided that the MDA Programme should continue in Sarawak (and in Sabah), for another two cycles effective from mid 2011 and to be completed in mid 2012.

The implementation schedule of the 6th and 7th cycle MDA shall be carried out in line with the national plan to eliminate the disease in the country. Based on the plan, the 6th MDA cycle, which commenced in July 2011 need to be completed before the end of the year and the 7th MDA cycle must start in early 2012 and end by mid 2012. In order to check for treatment compliance and possible side reactions, spot surveys will be conducted in selected localities shortly (normally within none month) after each MDA round was given. In addition, predetermined sentinel stations will be surveyed in order to assess the efficacy of the MDA activities, not earlier than three months after the completion of each MDA cycle. Subsequently, Treatment Assessment Surveys (TAS) will be conducted from 2013 onwards, followed by preparation of Dossiers for Verification, Verification for Elimination and finally to achieve elimination by 2018.

Meanwhile the Ministry of Health (MOH), upon the recommendation of the WHO, will be actively involved in the control of the “Neglected Tropical Diseases” (NTD) in the near future. In the NTD group of diseases, which comprise diseases like TB, Leprosy, filariasis and soil/food borne helminthiasis, the MOH has earmarked soil transmitted helminythiasis (STH) as the disease to be addressed immediately as there is no specific programme dealing with it at the moment. Therefore a plan is being worked out to piggyback STH in the LFEP currently being implemented in Sarawak (and Sabah). In the plan, a cross-sectional survey will be conducted to look into the prevalence of STH among the population in Sarawak and Sabah immediately before and six

months after the implementation of the 6th MDA cycle. Similar survey will be repeated six months after the 7th MDA cycle. In general, the objective of these surveys would be to assess whether MDA in the LFEP has any effect on the STH prevalence, the results of which will be used to formulate future strategy for the control of STH.

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Note:

1. The data may be subject to change. Any enquiries please call CDC Section, Sarawak Health Department.
2. Prepared by CPRC (Crisis Preparedness and Response Centre), Communicable Disease Control Section, Sarawak Health Department.
3. Any comments or new ideas on Epid. Week 25, 2011 Sarawak Weekly Epid News are greatly appreciated.

LIST OF NOTIFIABLE DISEASES				
First Schedule (Section 2), Prevention and Control Of Infectious Diseases Act, 1988 (Act 432)				
No.	Diseases	Notification		
		24 Hours	3 Days	1 Week
1	Chancroid			√
2	Cholera	√		
3	Dengue Fever and Dengue Haemorrhagic Fever	√		
4	Diphtheria	√		
5	Dysentery (All Types)			√
6	Ebola	√		
7	Food Poisoning	√		
8	Gonococcal Infections (All Forms)			√
9	Leprosy			√
10	Malaria		√	
11	Measles	√		
12	Hand, Foot and Mouth Disease	√		
13	Plague	√		
14	Poliomyelitis, Acute	√		
15	Rabies	√		
16	Relapsing Fever			√
17	Syphilis (All Forms)			√
18	Tetanus (All Forms)			√
19	Tuberculosis (All Forms)			√
20	Typhoid & Paratyphoid Fever			√
21	Typhus & Other Rickettsioses			√
22	Viral Encephalitis			√
23	Viral Hepatitis (All Forms)			√
24	Whooping Cough			√
25	Yellow Fever	√		
26	Any Other Life Threatening Microbial Infection			√
27	AIDS / HIV			√
28	Leptospirosis			√

Notes: 1) Leptospirosis was gazetted as a notifiable disease on 9th December 2010;

- 2) **All Malaria cases** should be notified within 3 days and as **for Sarawak to be notified within 24 hours** (Source: Vector Borne Disease Control Section, Sarawak Health Department)

Reporting and notifying of the above 28 infectious diseases is mandated by the Prevention and Control of Infectious Disease Act 1988. Every medical practitioner who treats or becomes aware of the existence of any infectious disease in any premises, with least practicable delay, shall notify to the nearest Medical Officer of Health as stipulated under this Act (First Schedule).

PREVENTION AND CONTROL OF INFECTIOUS DISEASES ACT

FIRST SCHEDULE

[Section 2]

INFECTIOUS DISEASES

PART I

1. Chancroid.
2. Cholera.
3. Dengue Fever and Dengue Haemorrhagic Fever.
4. Diphtheria.
5. Dysentries (All forms).
- 5A Ebola.
6. Food poisoning.
7. Gonococcal Infectious (All forms).
- 7A. Hand, Foot and Mouth Disease (HFMD).
8. Leprosy.
- 8A. Leptospirosis.
9. Malaria.
10. Measles.
- 10A. *Deleted.*
11. Plague.
12. Poliomyelitis (Acute).
13. Rabies.
14. Relapsing Fever.
15. Syphilis (All forms).
16. Tetanus (All forms).
17. Tuberculosis (All forms).
18. Typhoid and Paratyphoid Fevers.
19. Typhus and other Rickettsioses
20. Viral Encephalitis.
21. Viral Hepatitis.
22. Whooping Cough.
23. Yellow Fever.
24. Any other life threatening microbial infection.

PART II

Human Immunodeficiency Virus Infection (All forms)

Appendix 2

The addresses and contact numbers of the Medical Officer of Health/Divisional Health Officers in Sarawak are listed below (as at 2nd July 2011):

Bil	Jawatan / Nama	Alamat	Email	No. Hp
1	Ketua Penolong Pengarah Kanan Dr. Razitasham Binti Safii	Seksyen Kawalan Penyakit Berjangkit, Jabatan Kesihatan Negeri Sarawak	razitasham@srwk.moh.gov.my	Tel:082-421442 Fax: 082-234571
2	Ketua Penolong Pengarah Dr. Noorzilawati bt. Sahak	Seksyen Kawalan Penyakit Berjangkit, Jabatan Kesihatan Negeri Sarawak	drnoorzila@gmail.com	Tel: 082-246935
3	Pegawai Kesihatan Bahagian Kuching Dr. Kamarudin Lajim	Pejabat Kesihatan Bahagian, Bahagian Kuching, Jln Tun Ahmad Zaidi Adruce, 93250 Kuching	dhoshan@yahoo.com.sg kamarudinl@srwk.moh.gov.my	Tel:082 – 238635/257867 Fax:082-414542/250037 Hp:013-8014332
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7	Pegawai Kesihatan Bahagian Sarikei Dr. Hasrina Hassan	Pejabat Kesihatan Bahagian, Bahagian Sarikei, Tingkat 3, Wisma Persekutuan, 96100 Sarikei	hasrina.hassan@gmail.com	Tel:084-651077 Fax:084-654088 Hp:013-3403363
8	Pegawai Kesihatan Bahagian Sibul Dr. Muhamad Rais Bin Abdullah	Pejabat Kesihatan Bahagian, Bahagian Sibul, Tingkat 5, Wisma Persekutuan, Persiaran Brooke, 96000 Sibul	mdrais@srwk.moh.gov.my	Tel:084-315494 Fax:084-332502 Hp:017-8030839/019-
9	Pegawai Kesihatan Bahagian Kapit Dr. Ngian Hie Hung	Pejabat Kesihatan Bahagian, Bahagian Kapit, Tingkat 3, Wisma Persekutuan, 96800 Kapit	ngianhu@srwk.moh.gov.my ngianhu@yahoo.com	Tel:084-796404/084- Fax:084-798092 Hp:019-8199679
10	Pegawai Kesihatan Bahagian Mukah Dr. Hj Osman Bin Hj. Rafaie	Pejabat Kesihatan Bahagian, Bahagian Mukah, Jln Hj Muhammad Pauzi, 96400 Mukah	dho_10mukah@yahoo.com dho_mukah@yahoo.com	Tel:084-873301 Hp:013-8014700
11	Pegawai Kesihatan Bahagian Bintulu Dr. Abdul Rahim Bin Abdullah	Pejabat Kesihatan Bahagian, Bahagian Bintulu, Lebuhraya Abang Galau, 97000 Bintulu	dr.abdrahim@moh.gov.my dr.abdrahim@yahoo.com.my	Tel:086-331455 Fax:086-331814 Hp:019-7591956
12	Pegawai Kesihatan Bahagian Miri Dr. Faizul Bin Mansoor	Pejabat Kesihatan Bahagian, Bahagian Miri, Jln Temenggong Oyong Lawai Jau, 98000 Miri	bmfaizul@moh.gov.my	Tel:085-424722 Fax:085-429987 Hp:013-8335504
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