



SARAWAK

WEEKLY EPID NEWS

Sarawak Health Department

WEEK 44

30th OCT - 5th NOV 2011

INFECTIOUS DISEASE/CRISIS HIGHLIGHTS IN SARAWAK

In Epid Week 44, 2011, Sarawak Health Department had received reports of measles outbreak involved Indonesian workers at Ladang Sawit Kris Jati, Limbang district and two ILI outbreaks at Penjara Limbang, Limbang and SK Sg Sengian, Sebauh, Bintulu district.

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CPRC (CRISIS PREPAREDNESS AND RESPONSE CENTRE)

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2. NEW OUTBREAKS/CLUSTERS

No	Disease	District	Locality	Case (No)	Outbreak declared
1	Measles	Lawas	Ladang Sawit KrisJati, Merapok	10	01.11.2011
2	ILI	Limbang	Penjara Pusat Limbang	52	02.11.2011
3	ILI	Bintulu	SK Sg Sengian, Sebauh	5	03.11.2011
4	HFMD	Julau	SK Nanga Ensiring	25	02.11.2011
5			Rumah Richard, Ulu Merurun	3	28.10.2011
6		Sarikei	Tadika Sze Hua	4	05.11.2011
7		Limbang	Tadika Kemas, Kem PGA	3	02.11.2011
8		Kuching	Kolong 2, Sungai Tengah, Jalan Matang	2	01.11.2011
9			Kampung Salak, Jalan Hilir	2	02.11.2011
10	Food poisoning	Kapit	Rh. Ikau, Nanga Tuli, Batang Rajang	6	03.11.2011
11	Dengue	Miri	Kampung Bakam	2	05.11.2011
12	Malaria	Marudi	Long Keluan	3	23.11.2011
13			Kg. Baru @ Lg Lilim	2	30.11.2011
14			Lg. Lewok	2	29.11.2011
15			Ba Siang	2	04.11.2011
16			Long Kawi (Episod 2)	3	04.11.2011

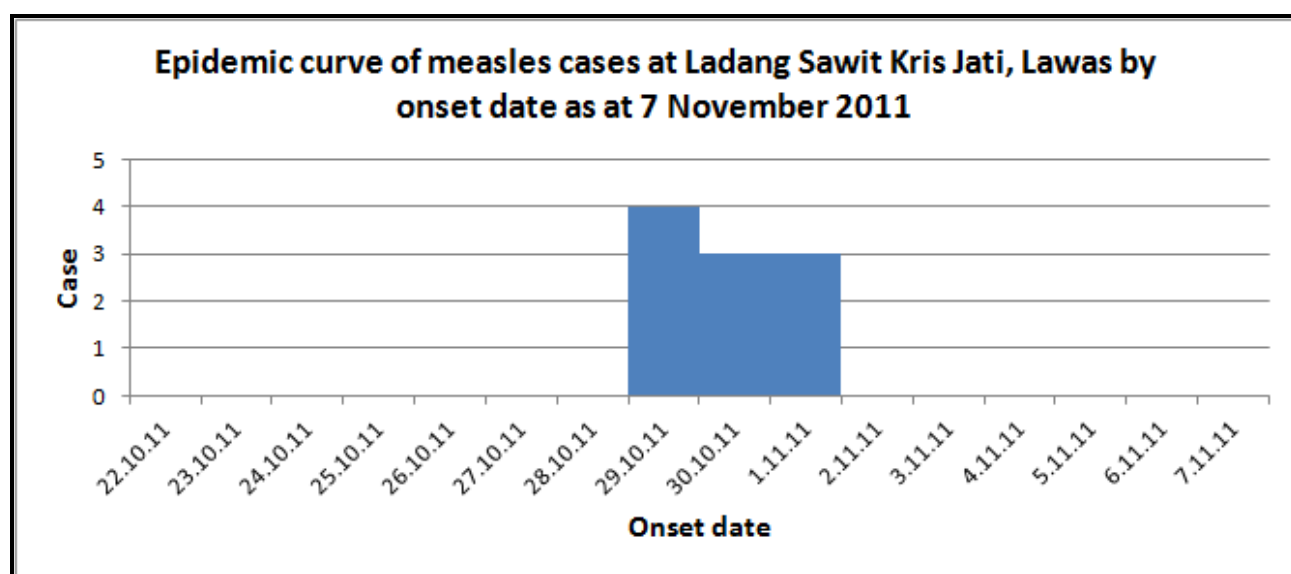
There were 16 clusters/outbreaks were reported in Epid. Week 44, 2011 to Sarawak Health Department.

2.1. Preliminary report of measles outbreak at Ladang Sawit Kris Jati, Lawas District

A measles outbreak was reported to Sarawak Health Department on 1 November 2011 involved seven Indonesian workers with symptoms of fever and rashes. The cases aged range from 10 months to 23 years old, where six of them less than seven years old were admitted to Lawas Hospital.

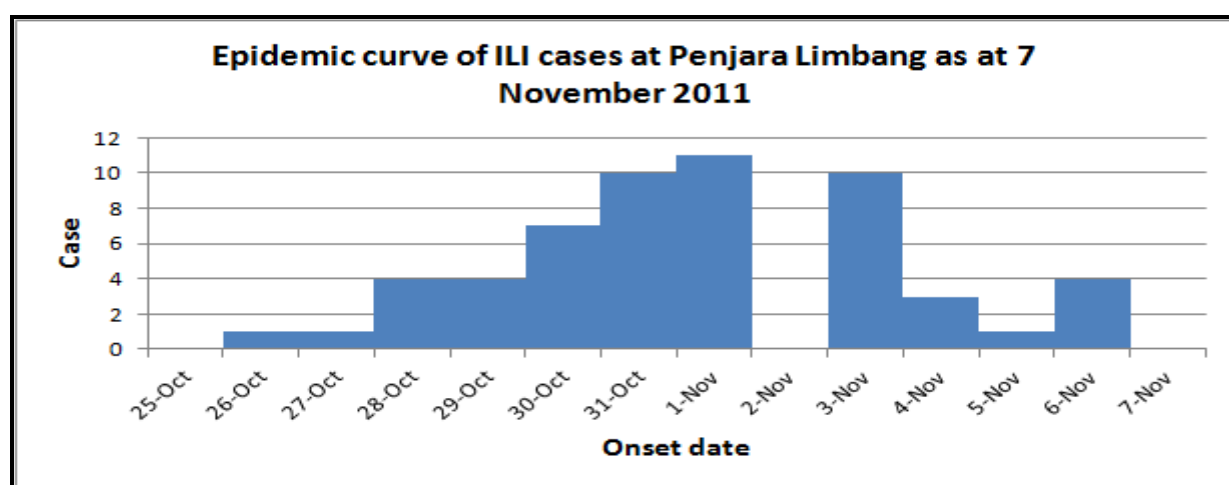
As at 7 November 2011, ten cases were detected (male = 7; female = 3) and nine aged less than seven years old. All the workers in the plantation has been isolated, vaccinated with MMR

(children) and monovalent measles (adult), and monitored daily by the PKD Lawas team. Five out of six of blood specimens that were sent to MKA Sabah were positive for IgM measles.



2.2. Preliminary report of ILI outbreak at Penjara Limbang, Limbang District

An ILI outbreak in Limbang District was reported to Sarawak Health Department on 3 November 2011 involved 35 prison inmates (male = 34; female = 1). Eleven throat and nasopharyngeal swabs were sent to MKAK Sg Buloh on 4 November 2011, where 10 were positive Influenza Flu A (seasonal) and H-OIV (H3). As at 7 November 2011, 56 cases were detected (male = 55; female = 1).



3. MANDATORY NOTIFIABLE DISEASES REPORTED IN EPID. WEEK 44, 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	1/0												3														
Bau													1														
Kuching	0/3									2	24		1	1				2									
Samarahan										1	2																
Asajaya																											
Simunjan											1																
Serian						1				1	1																
Sri Aman						1					1		1														1
L/ Antu													1														
Betong											1																
Saratok											2		1														
Sarikei						2					5																
Meradong																											
Pakan/Julau						2																					
Daro																											
Matu																											
Dalat						1					3																
Mukah										2	4																
Sibu											8		1														
Kanowit						1							2														
Selangau													2														
Song													7					1									
Kapit									6																		
Belaga													1														
Tatau													1														
Bintulu						2					2		1														
Miri	1/0					4					11			3										2			
Marudi						3							23														
Limbang																											
Lawas															10												
TOTAL (Week 44)	2/3	0	0	0	0	17	0	0	6	8	65	0	47	0	14	0	0	0	3	0	0	0	0	2	0	0	1
Total (2011)	84/61	0	0	252	0	830	9	0	1316	352	2526	20	1463	33	237	0	0	0	127	1	1444	4	0	113	9	0	109
Total (2010)	141/113	0	0	0	0	4240	62	0	1299	437	4987	22	2802	10	132	0	0	0	230	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 STD/AIDS Section HFMD notification is based on masterlist.

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

3.1. Surveillance report on food-water borne diseases

3.1.2. Food Poisoning

One food poisoning was notified from Kapit district in Epid. Week 44, 2011, involving six persons out of 11 persons exposed.

The cumulative total of food poisoning cases were 1,316 that consist of 52 outbreaks. Out of 52 outbreaks, 26 (50.0%) involved schools (14 primary; 12 secondary). SMK Sri Patiambun had three episodes of food poisoning outbreak this year.

3.1.3. Cholera

No case reported in Epid. Week 44, 2011.

The cumulative total of 252 cases were from Limbang. There were two outbreak localities at Limbang and Medamit in March 2011. DNA finger printing study showed the organisms were local origin.

3.1.4. Dysentery

No case reported in Epid. Week 44, 2011.

The cumulative total of nine suspected dysentery cases were reported, but only two cases were confirmed to be *Amebic dysentery and Shigellosis*. The others were negative for microbiology analyses.

3.1.5. Typhoid and paratyphoid fever

No cases reported in Epid. Week 44, 2011.

The cumulative total confirmed as typhoid cases were three (two typhoid and one paratyphoid) which were confirmed by stool C&S test (2) and blood C&S (1).

3.2. Surveillance report on vaccine preventable diseases

3.2.1. Notified Vaccine Preventable diseases cases for Epid. Week 44, 2011

Type Of Diseases	District	Locality	No.of Cases	Case No	Age	Race	Gender	Investigation Report
Measles	Kuching	Taman Trinora	1	C1	6 years old	Malay	Boy	Presented with fever and rash only. Notified by Normah Medical Specialist Centre. No history of contact with infected person and no history of travelling to other countries. Measles immunisation history unknown. Blood sample taken, result still pending
	Miri	Tudan Flat	3	C1	7 years old	Iban	Boy	Presented with fever and rash only. No history of contact with other infected person and travelling outside the country. 2 cases of suspected measles reported On 9.10.11 and 18.10.11 from the same. One result negative and one still pending. Had received one dose of MMR immunization at 1 year old.
		Family Cluster - Kpg. Wireless, Jalan Sentosa		C2	8 years old	Chinese	Girl	Presented with fever, rash, cough, coryza and conjunctivities. Attended Kindergarden but no other children having the same sign and symptom. Not known to have contacted with infected person as child only attended, otherwise just stay at home. MMR Immunization was given at 1 year old.
				C3	3 years old	Chinese	Boy	Brother of Family cluster C2. Presented with fever, rash, coryza, cough and conjunctivities. Close contact with sister. Had received MMR vaccination at 1 year old. Blood sample was taken from both case but result is still pending.
	Lawas	Ladang sawit Merapok	10	C1	3 years old	Bugis (Indonesian)	Boy	No sample taken -
				C2	4 years old	Bima (Indonesian)	Girl	Presented with fever, rash, cough and coryza. Blood sample taken. Measles IgM positive
				C3	2 years old	Bugis (Indonesian)	Girl	
				C4	10 mnth old	Bugis (Indonesian)	Boy	
				C5	22 years old	Bugis (Indonesian)	Female	
				C6	2 years Old	Bima (Indonesian)	Boy	Presented with fever, rash, cough and coryza. Blood sample taken.Result negative
				C7	4 years old	Bugis (Indonesian)	Boy	
				C8	5 month old	Bima (Indonesian)	Boy	Refer to Sipitang Hospital Sabah. No report on case received
				C9	1 year old	Bugis (Indonesian)	Boy	
				C10	2 years old	Sinjai (Indonesian)	Boy	
Hepatitis B	Miri	Penjara Pusat Miri	1 Chronic case		31 years old	Iban	Male	Viral Antigen Positive - Asymptomatic. History of IVDU
Hepatitis C	Miri	Penjara Pusat Miri	1 Chronic case		21 years	Malay	Male	Viral Antigen positive -Asymptomatic
Whooping Cough			No case					
Difteria			No case					
Polio			No case					
Tetanus			No case					

3.2.2. Total Reported Vaccine Preventable Diseases Cases by Division from Epid Week 1 until Epid. Week 44, 2011

Division	TYPES OF DISEASES													
	Difteria		Measles		Polio		Tetanus		Whooping Cough		Hepatis B		Hepatis c	
	Suspect	Confirm	Suspect (Notified)	Confirm	Suspect	Confirm	Suspect	Confirm	Suspect	Confirm	Acute	Chronic	Acute	Chronic
KUCHING	0	0	62	4	0	0	0	1	25	4 (1 PCR, 3 Culture)	2	28 (Keh 22, Bau)	2	20
SAMARAHAN	0	0	16	4	0	0	0	0	1	1 (PCR)	5	1	1	0
SRI AMAN	0	0	1	0	0	0	0	0	0	0	2	0	0	0
BETONG	0	0	4	0	0	0	0	0	0	0	0	2	1	0
SARIKEI	0	0	3	0	0	0	0	0	0	0	0	0	0	0
SIBU	0	0	2	0	0	0	0	0	2	1 (PCR)	1	0	0	0
KAPIT	0	0	1	0	0	0	0	0	0	0	0	0	0	0
MUKAH	0	0	1	0	0	0	0	0	0	0	0	0	0	0
BINTULU	0	0	11	1	0	0	0	0	0	0	3	0	0	0
MIRI	0	0	113	5 (1 clinical)	0	0	0	0	5	1 (Culture)	10	12	12	30
LIMBANG	0	0	23	5 (All fr. Lawas)	0	0	0	0	0	0	1	0	0	0
SARAWAK	0	0	237	19	0	0	0	0	33	7	24	43	16	50

3.2.3 Measles Measles (data derived from SM2)

A total of 14 suspected measles cases were reported in Epid. Week 44, 2011. Ten cases reported from Lawas, three cases from Miri and one case from Kuching district.

3.2.3.1 Measles Igm Positive Case Summary From Epid. Week 1 until Epid. Week 44, 2011

NO	Division	District	Address	Name	Age (By Yr)	Age (By mth)	Gender	Race	Negeri Asal	Keputusan Makmal Igm Measles	Immunization Status	Remark
1	Samarahan	Serian	Kampung Meru Tapu, Serian	MC1		3	Lelaki	Bidayuh	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
2	Samarahan	Samarahan	3 YKSP Brigade, Kem Penrissen Batu 8 Jalan Kuching Serian	MC2		11	Perempuan	Malay	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
3	Kuching	Kuching	No.39, Lorong 3, Iktang Height, Jalan Kuching Bau, Kuching	MC3	1		Lelaki	Pakistani	Pakistan	POSITIVE	Given 1 dose - post measles	Lab Confirmed
4	Kuching	Kuching	B4-1-3, Haatana Apartment Demak Laut, Jalan Bako, Kuching	MC4		5	Perempuan	Malay	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
5	Miri	Miri	SPAD Ladang 2, Sg. Tangit, Bekenu Miri	MC5		7	Perempuan	Melanau	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
6	Miri	Miri	S/L 1388-1390, Blok 3, MCLE Piasau Miri	MC6	39		Lelaki	Chinese	Sarawak	POSITIVE	Unknown	Lab Confirmed
7	Bintulu	Bintulu	Kuarters Pekerja Hup Sen Fertilizer, Kidurong Bintulu	MC7		9	Lelaki	Iban	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
8	Kuching	Kuching	No.11, Lorong 16, Blok C Kampung Haji baki, Kuching	MC8	1		Lelaki	Malay	Sarawak	POSITIVE	Given 1 dose	Vaccine Related Onset 1 week after vaccination
9	MIRI	Miri	RPR Jaya Taman Permai Miri	MC9		4	Perempuan	Iban	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
10	Kuching	Kuching	No.17, Jalan Patinggi Ali Barat, Kampung No.4, Jalan Abell, Kuching	MC10	27		Perempuan	Indonesian	Indonesia	POSITIVE	Unknown	Coming to Kuching to visit relatives
11	Kuching	Kuching	No.222, Lot 2574, Lorong B3, Kampung Tunku Kuching	MC11		8	Perempuan	Melayu	Sarawak	POSITIVE	Not Eligible	Lab Confirmed
12	Samarahan	Samarahan	Kem Penrissen Batu Lapan, Jalan Kuching Serian	MC12	5		Lelaki	Iban	Sarawak	POSITIVE	Not Sure-Can't Find U-7 card	Lab Confirmed
13	Miri	Miri	Shoplot CM2, Jalan Kwan Tung Miri	MC13	1		Perempuan	Iban	Sarawak	POSITIVE	Not yet given	Lab Confirmed
14	Limbang	Lawas	Ladang Sawit Merapok	MC14	2		Lelaki	Indonesian	Indonesia	POSITIVE	No Immunization	Lab Confirmed
15	Limbang	Lawas	Ladang Sawit Merapok	MC15	22		Perempuan	Indonesian	Indonesia	POSITIVE	No Immunization	Lab Confirmed
16	Limbang	Lawas	Ladang Sawit Merapok	MC16	4		Perempuan	Indonesian	Indonesia	POSITIVE	No Immunization	Lab Confirmed
17	Limbang	Lawas	Ladang Sawit Merapok	MC17	2		Perempuan	Indonesian	Indonesia	POSITIVE	No Immunization	Lab Confirmed
18	Limbang	Lawas	Ladang Sawit Merapok	MC18		10	Lelaki	Indonesian	Indonesia	POSITIVE	No Immunization	Lab Confirmed
19	Samarahan	Samarahan	Kpg Kuap Eleayyu	MC19	28		Lelaki	Malay	Sarawak	POSITIVE	Unknown	Case notified after Lab result

3.2.3.2. Measles Clinically Confirmed Case Summary From Epid. Week 1 until Epid. Week 44, 2011

NO	Division	District	Address	Name	Age (By Yr)	Age (By mth)	Gender	Race	Negeri Asal	Keputusan Makmal IgM Measles	Immunization Status	Remark
1	Miri	Marudi	Lot 214, Kampung Pemindahan Marudi	CC1	20		Male	Malay	Sarawak	No Lab sample	Not Sure	Clinically Confirmed

Note: Clinically confirmed case: Case with interval of fever and rash onset of 3 days or more with either cough, coryza or conjunctivities

The cumulative total of suspected measles cases was 237. Of these, 19 cases were confirmed by positive IgM measles. There was also one clinically confirmed case; who is a 20 years old Malay male from Marudi district, diagnosed and notified on 11th January 2011. Blood specimen for serology test was taken from the clinically confirmed case but was not sent to MKAK Sungai Buloh.

3.2.4. Whooping Cough

No case was reported in Epid. Week 44, 2011.

Out of the cumulative total of 33 suspected pertussis cases reported in 2011, four cases were confirmed by culture (SGH Kuching: 3; Miri: 1) and three cases confirmed by PCR.

3.2.4.1. Whooping Cough Confirmed Case Summary From Epid. Week 1 until Epid. Week 44, 2011

Division	District	Address	Name	Age (By Month)	Age (By Day)	Gender	Race	PCR Result	Blood Culture Result	Immunization Status			Remark
										1st.Dose	2nd.Dose	3rd.Dose	
KUCHING	KUCHING	Rh.Sewa, jalan Malindor, Before SMK Tun Openg, Bintawa	PC1	5		Lelaki	Malay		Positif	22/12/11	24/01/11	23/02/11	Received 3rd dose after diagnosis
KUCHING	KUCHING	7G, Kampung Segubang, Batu Kawa, Kuching	PC2	1		Lelaki	Bidayuh		Positif	Not Eligible			
MIRI	MIRI	Sanchiew Plantation Niah, Miri	PC3	2		Lelaki	Malay		Positif	Not Eligible			
KUCHING	KUCHING	No.94, Kampung Kudei, Jalan Rubber, Kuching	PC4	1		Lelaki	Malay		Positif	Not Eligible			
SIBU	SIBU	Kuarters Kelab Golf Sibu, Blok 2, Batu 101/2 Jalan Oya, Sibu	PC5	5		Lelaki	Malay	Positif		Unknown			Field Investigation not done - late notification
SAMARAHAN	SAMARAHAN	No.5611, Lot 37, Phase 20, Taman Desa Ilmu Kota Samarahan	PC6	2		Lelaki	Malay	Positif		13/07/11			
KUCHING	KUCHING	Kampung Sibobok Bau	PC7		21	Perempuan	Bidayuh	Positif		Not Eligible			

3.2.5. Tetanus

No case reported in Epid. Week 44, 2011.

The cumulative total of tetanus case is remained as one. The patient was a 77 years old Chinese man from Kuching district.

3.2.6. Viral Hepatitis

One new case of Chronic Hepatitis B and one new case of Chronic Hepatitis C was reported in Epid. Week 44, 2011. Both were from Penjara Pusat Miri.

The cumulative total of viral hepatitis cases were 133. Of these, 67 cases were Hepatitis B where 24 were acute and 43 were chronic. Another 66 cases were Hepatitis C where 16 cases were acute and 50 were chronic.

3.3. Surveillance report on HIV/AIDS and STI

3.3.1. HIV/AIDS

Two HIV case was reported in Epid. Week 44, 2011 from Miri and Lundu district.

The cumulative total HIV cases were 84 and all were adults. The cumulative total AIDS cases were remained as 61.

3.3.2. Gonorrhoea

Six new gonorrhoea cases were reported in Epid. Week 44, 2011. Two cases each reported from Kuching and Mukah district and one each from Samarahan and Serian district.

Out of the cumulative total of 344 cases reported, 343 were adults and only two cases confirmed as gonococcal neonatorum.

3.3.3. Syphilis

Three new cases were reported in Epid. Week 44, 2011 from Kuching (2 cases) and Song (1 case) district.

The cumulative total of syphilis cases were 127.

3.4. Surveillance Report on TB and leprosy

3.4.1. Tuberculosis (all forms)

As at 22th October 2011, a cumulative total of 1,444 cases reported in 2011. In 2010, the total number of cases was 1,987. Out of 1,444 cases reported in 2011, 85 (5.90%) are foreigners. Four cases were among healthcare workers.

3.4.2. Leprosy

As at 22th October 2011, a cumulative total of 20 leprosy cases reported. One case was foreigner and nineteen were locals. All the cases were detected through active case detection (ACD).

3.5. Surveillance Report on other infectious diseases

3.5.1. Viral encephalitis

Two cases of viral encephalitis reported in Epid. Week 44, 2011. Each case from Sri aman and Serian and is waiting for *Japanese encephalitis* blot test.

The cumulative total of viral encephalitis cases were twelve. Of these, two cases were confirmed *Japanese encephalitis* and eight were due to other viruses.

3.6. Other infectious diseases

3.6.1. Filariasis

One case of Filariasis was reported in Epid. Week 44 from Kg Hulu Manggut, Spaoh, Betong district.

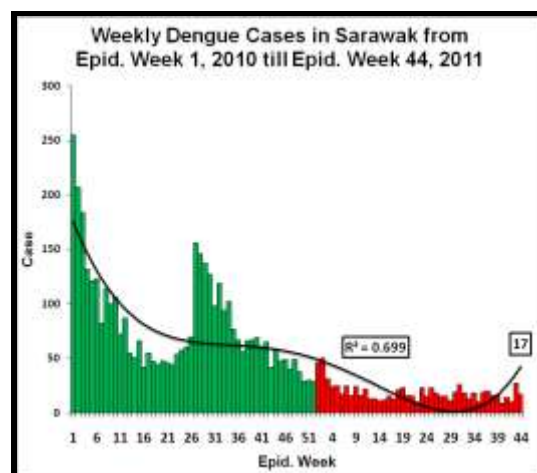
Total cases for Filariasis reported up to Epid. Week 44, 2011 were six.

Note: Vector borne diseases and emerging and re-emerging infectious diseases will be discussed in their respective chapter.

4. VECTOR BORNE DISEASES: DENGUE, MALARIA AND CHIKUNGUNYA

4.1. Notified Dengue cases for Epid. Week 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2010.

District	2011		2010		
	EW 44	Cum.	EW 44	Cum.	Total
Lundu	0	10	2	62	69
Bau	0	26	2	116	123
Kuching	0	96	8	437	473
Samarahan	0	20	2	92	97
Asajaya	0	4	0	10	10
Serian	1	16	0	134	140
Simunjan	0	13	0	43	47
Sri Aman	1	45	3	89	96
Lubok Antu	0	21	1	45	53
Betong	0	11	0	24	30
Saratok	0	7	0	19	20
Sarikei	2	24	1	86	91
Meradong	0	12	1	50	53
Pakan	2	18	0	27	30
Julau	0	14	0	18	20
Daro	0	6	4	83	95
Matu	0	1	0	25	25
Dalat	1	3	0	10	14
Mukah	0	5	0	35	39
Sibu	0	64	13	967	1021
Kanowit	1	30	1	59	64
Selangau	0	9	0	24	32
Song	0	10	1	14	16
Kapit	0	27	1	152	158
Belaga	0	24	1	32	39
Tatau	0	35	0	29	40
Bintulu	2	93	2	218	237
Miri	4	109	14	769	816
Marudi	3	53	0	117	126
Limbang	0	18	0	119	131
Lawas	0	6	0	23	35
Sarawak	17	830	57	3928	4240



A total of 17 dengue cases was reported for Epid. Week 44, 2011 as compared to 57 cases during the same period in 2010.

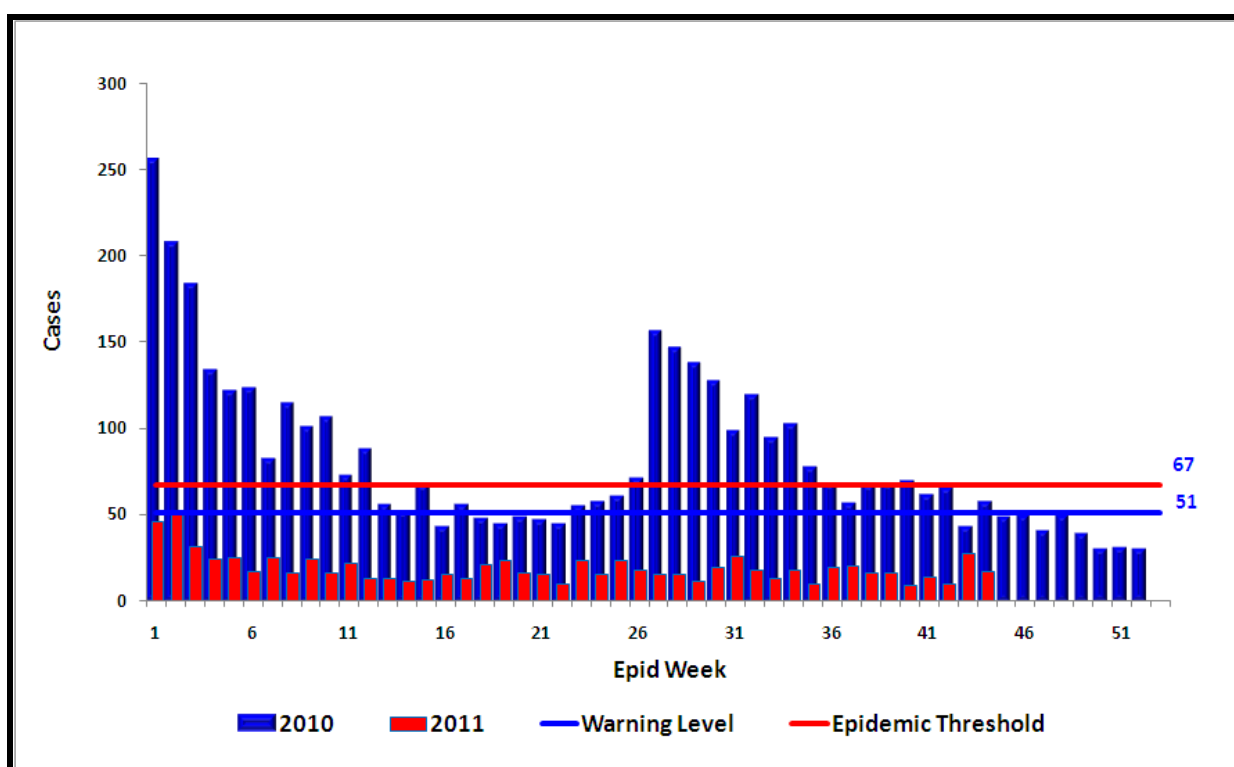
Two outbreak localities are still active in Kanowit and Miri District.

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

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

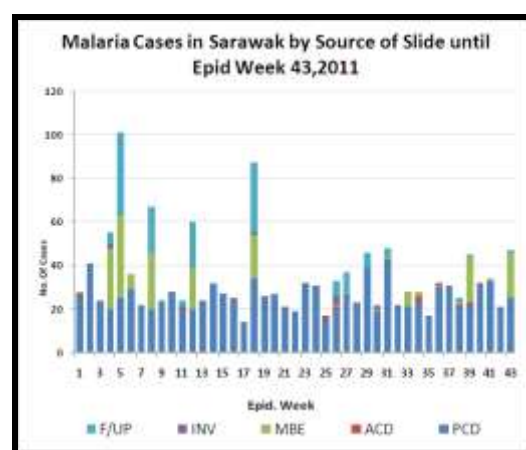
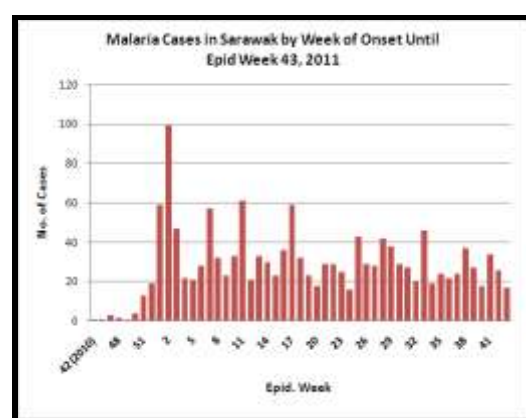
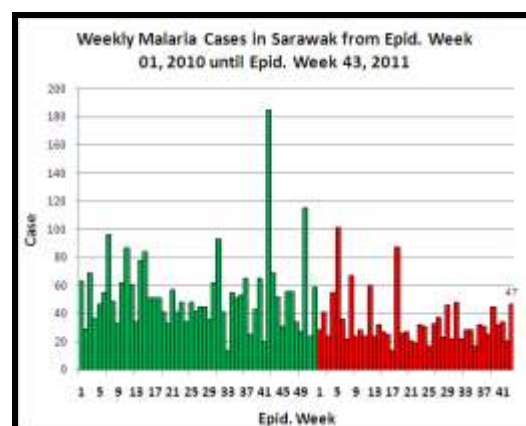
EW = Epid. Week

4.1.1 Weekly dengue cases showing warning and epidemic level in 2011 compared to 2010.



4.2. Notified Malaria cases for Epid. Week 43, 2011 compared to Epid. Week 43, 2010 and cumulative cases till Epid. Week 43 in 2011.

District	2011		2010		Total
	EW 43	Cum.	EW 43	Cum.	
Lundu	3	22	1	23	72
Bau	1	4	0	8	9
Kuching	1	29	3	69	27
Samarahan	0	3	0	1	2
Asajaya	0	0	0	0	0
Simunjan	0	20	1	57	17
Serian	0	2	0	17	58
Sri Aman	1	15	1	19	25
Lubok Antu	1	20	0	16	16
Betong	0	36	1	10	15
Saratok	1	3	0	4	4
Sarikei	0	15	0	6	8
Meradong	0	9	1	3	3
Pakan	1	22	0	14	14
Julau	0	62	0	27	34
Daro	0	2	0	5	1
Matu	0	0	0	0	1
Dalat	0	1	0	0	14
Mukah	0	8	0	13	6
Sibu	1	36	0	33	43
Kanowit	2	14	0	8	65
Selangau	2	70	4	58	9
Song	7	190	2	110	46
Kapit	0	58	2	37	134
Belaga	1	110	3	269	300
Tatau	1	37	1	28	12
Bintulu	1	28	0	12	39
Miri	0	31	2	27	32
Marudi	23	572	46	1416	1734
Limbang	0	17	0	27	29
Lawas	0	27	1	31	33
Sarawak	47	1463	69	2348	2802



A total of 47 cases were reported in Epid. Week 43, 2011. The cumulative cases till Epid. Week 43 were 1,463 cases. Of the 1,463 cases, 572 cases (39%) from Marudi District, 190 cases (13%) from Kapit District and 110 cases (7.5%) 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)

4.2.1. Case detected by slide source

Slides source	Epid. Week 43	Epid. Week 1 – Epid. Week 43
Passive Case Detection (PCD)	25	1085
Active Case Detection (ACD)	0	14
Investigation slides (INV)	0	13
Mass Blood Survey (MBS)	21	196
Follow-up	1	154
Total	47	1463

4.2.2. Case by species

Species	Epid. Week 43	Epid. Week 1 – Epid. Week 43
<i>Plasmodium vivax</i>	29	821
<i>Plasmodium falciparum</i>	4	78
<i>Plasmodium malariae</i>	2	276
<i>Plasmodium knowlesi</i>	12	282
<i>Plasmodium ovale</i>	0	1
Mixed infection	0	5
Total	47	1463

4.2.3. Case classification

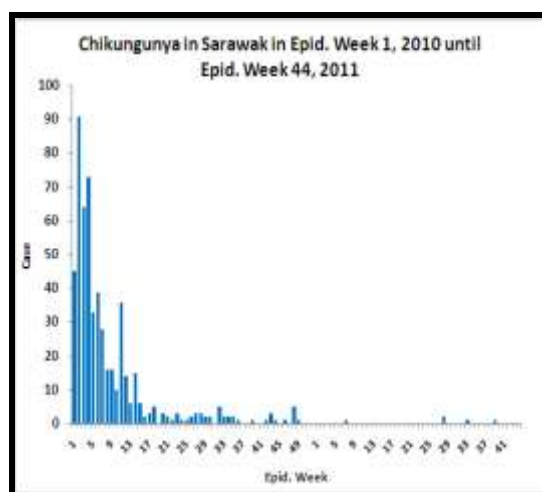
Classification	Epid. Week 43	Epid. Week 1 – Epid. Week 43
Indigenous	40	1263
*Imported A	7	193
Relapsed	0	1
Congenital	0	1
Total	47	1463

4.2.4. The source of infection of the *Imported A cases and the species involved.

No.	District reported	Source of infection	Nationality	Age	Gender	Address in Sarawak	Species
1	Kuching	Seri Raya Bengkayang, Kalimantan Barat	Indonesian	58	Female	RT 3/3 Karimunting	<i>P. vivax</i>
2	Sibu	KKB Rimbunan Hijau, Congo, Africa	Malaysian	38	Male	No. 2F,Lorong Permai Jaya, 1D /1	<i>P. falciparum</i>
3	Bintulu	KKB Rimbunan Hijau, Bata, Africa	Malaysian	43	Male	Jln. Sultan Iskandar, Setingan Bt.2	<i>P. falciparum</i>
4	Kanowit	KKB Shell, Batimur, Papua New Guinea (PNG)	Malaysian	34	Male	Kg.Pulau Woh, KM 2, Jalan Machan	<i>P. vivax</i>
5	Kapit	KKB Cer Gurgui, Pulau Raba, PNG	Malaysian	47	Male	Tatai Kenyalang,	<i>P. vivax</i>
6		KKB Rimbunan Hijau, Gabon Africa	Malaysian	30	Male	Lrg.2, Kapit By Pass	<i>P. falciparum</i>
7		Cima International, Nigeria, South Africa	Malaysian	48	Male	Bukit Temedak Pelajau Kapit	<i>P. falciparum</i>

4.3. Notified Chikungunya cases for Epid. Week 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2010.

District	2011		2010		
	EW 44	Cum.	EW 44	Cum.	Total
Lundu	0	0	0	1	1
Bau	0	0	0	13	13
Kuching	0	1	0	72	72
Samarahan	0	0	0	3	3
Asajaya	0	1	0	1	1
Serian	0	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	12	13
Saratok	0	0	0	8	8
Sarikei	0	0	0	7	7
Meradong	0	0	0	25	25
Pakan	0	0	0	10	10
Julau	0	0	0	22	22
Daro	0	0	0	21	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	1	62	67
Belaga	0	0	0	78	78
Tatau	0	0	0	6	6
Bintulu	0	0	0	44	44
Miri	0	0	0	13	13
Marudi	0	1	0	0	0
Limbang	0	0	0	0	0
Lawas	0	0	0	0	0
Sarawak	0	5	1	543	550



No case of Chikungunya was reported in Epid. Week 44, 2011. During the same period in 2010, one case was reported. The cumulative case of Chikungunya for 2011 remained 5 cases.

EW = Epid Week

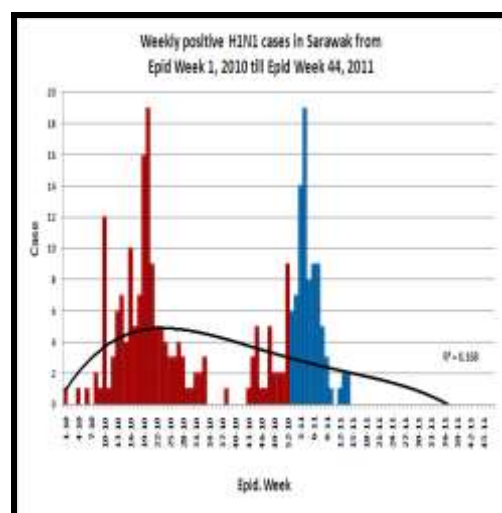
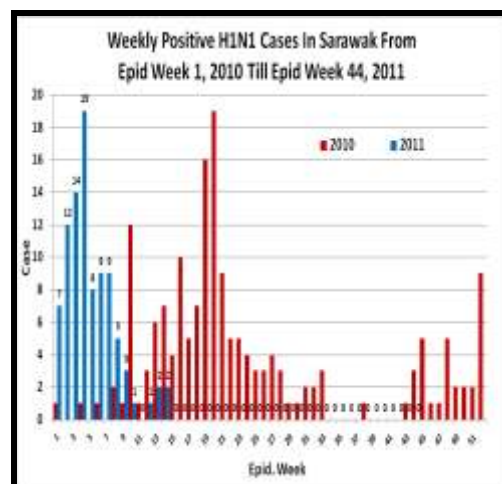
5. EMERGING/RE-EMERGING INFECTIOUS AND ZONOTIC DISEASES

5.1. H1N1

5.1.1 Positive Pandemic Influenza A (H1N1) cases for Epid. Week 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2011.

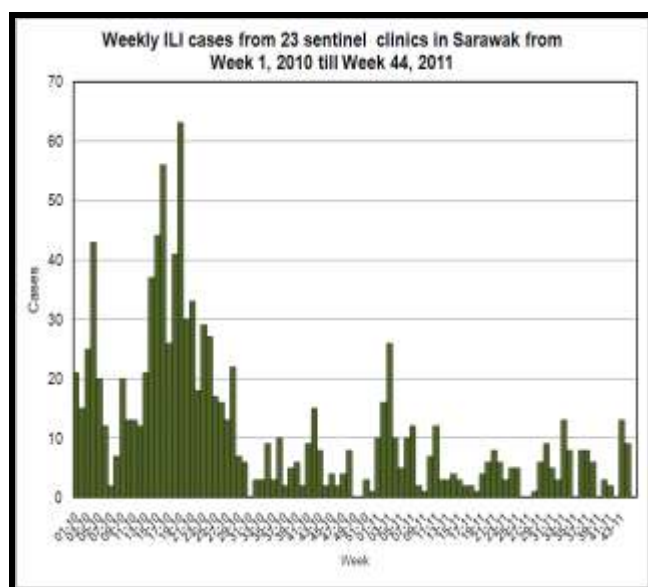
District	2011		2010		Total
	EW 44	Cum.	EW 44	Cum.	
Lundu	0	1	0	8	9
Bau	0	0	0	1	1
Kuching	0	51	3	46	61
Samarahan	0	0	0	8	8
Simunjan	0	0	0	3	4
Serian	0	0	0	2	2
Sri Aman	0	0	0	4	4
Lubok Antu	0	0	0	0	0
Betong	0	1	0	0	0
Saratok	0	0	0	0	0
Sarikei	0	0	0	2	2
Meradong	0	0	0	0	0
Julau	0	0	0	0	0
Daro	0	0	0	0	0
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	16	19
Miri	0	6	0	7	7
Marudi	0	0	0	1	1
Limbang	0	2	0	21	20
Lawas	0	1	0	2	2
TOTAL	0	92	3	142	161

EW = Epid. Week



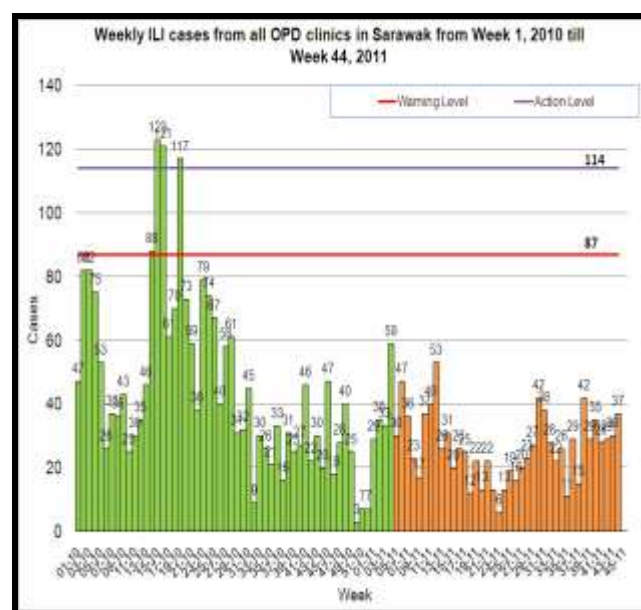
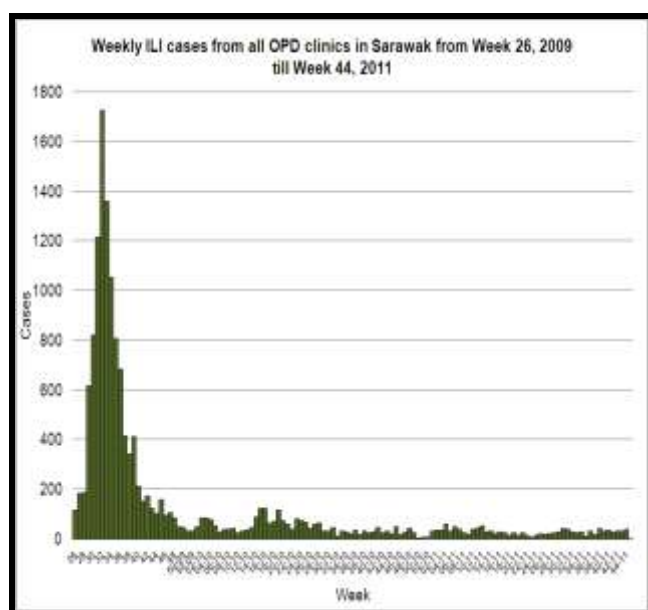
No H1N1 positive case was reported in Epid. Week 44, 2011. Three case was reported during the same Epid. Week last year. The cumulative total cases in 2011 were 92 cases compared to 142 cases reported during the same period in 2010.

5.1.2 Outpatient Influenza-Like Illness (ILI) Surveillance from Epid. Week 1 in 2010 till Epid. Week 44 in 2011.



In Epid. Week 44, 2011, 12 ILI cases was reported from 23 Sentinel clinics and all OPD clinics.

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**.

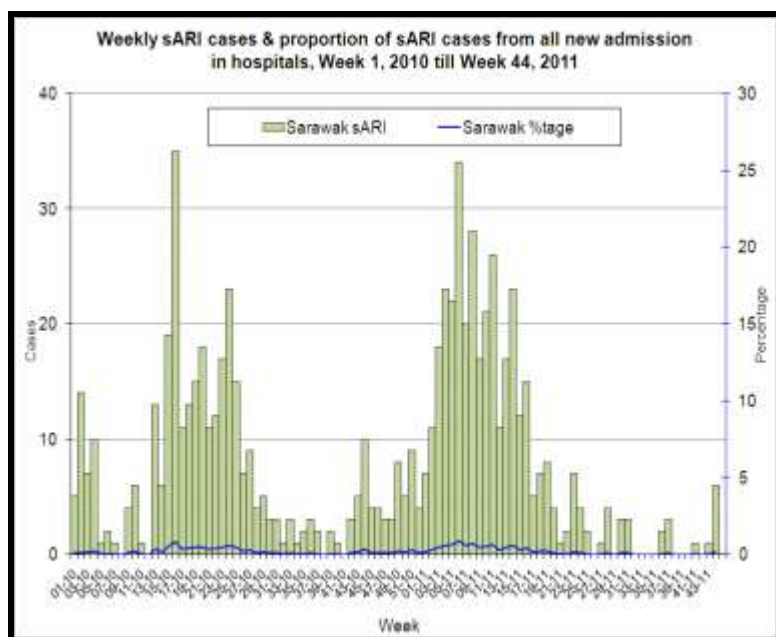
5.1.3. New and Cumulative ILI Clusters as of 5th November 2011.

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	1	1
Sibu	0	0	0	0
Kapit	0	0	0	0
Bintulu	*1	0	1	2
Miri	0	1	0	1
Limbang	1	**1	0	1
TOTAL	2	16	5	21

Note: 1. First cluster in 2011 was detected on 31/12/2010 and the latest was on 03/11/2011.

2. * results: pending; ** positive Influenza A (seasonal)

5.1.4. Severe Acute Respiratory (sARI) Infection Cases



sARI is suspected when:

1. meets ILI case definition (sudden onset of fever > 38°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 5th November 2011.

Division	Hospital	New EW 44	Cumulative 2011	No. of Inpatient			No. of Patient on Ventilator	Throat swabs		
				ICU	ISO	Other wards		Positive	Pending	Negative
Kuching	SGH Kuching	3	165	0	3	0	0	0	0	3
	Bau	0	0	0	0	0	0	0	0	0
	Lundu	0	19	0	0	0	0	0	0	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	10	0	0	0	0	0	0	0
Sibu	Sibu	0	2	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	0	249	0	0	0	0	0	0	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		3	468	0	3	0	0	0	0	3

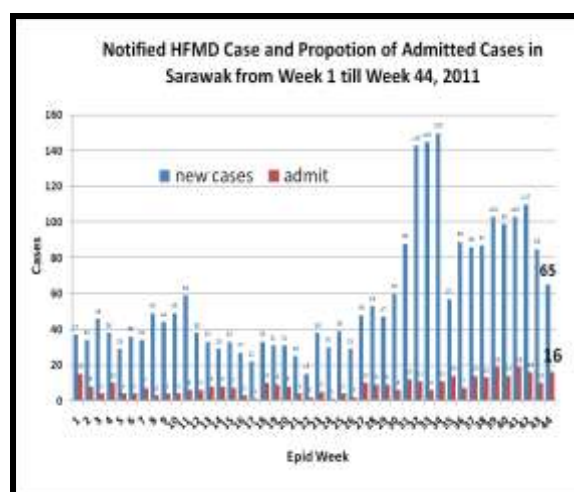
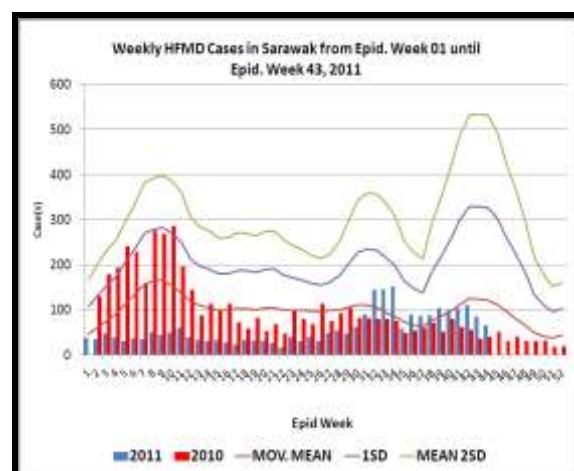
EW = Epid. Week

Three sARI admissions were reported in Epid. Week 44, 2011 from SGH Kuching. All specimens were negative for Influenza AH1N1.

5.2. Notified HFMD cases for Epid. Week 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2011.

District	2011		2010		Total 2010
	EW 44	Cum.	EW 44	Cum.	
Kuching	24	462	5	932	961
Bau	0	80	1	209	209
Lundu	0	24	4	78	86
KUCHING	24	566	10	1219	1256
Samarahan	2	110	0	126	127
Asajaya	0	26	0	6	7
Simunjan	1	19	1	36	37
Serian	1	28	0	25	25
SAMARAHAN	4	183	1	193	196
Sri Aman	1	91	2	142	145
Lubok Antu	0	14	0	23	23
SRI AMAN	1	105	2	165	168
Betong	1	43	0	87	103
Saratok	2	34	0	38	38
BETONG	3	77	0	125	141
Sarikei	5	161	1	200	206
Meradong	0	71	0	54	55
Pakan	0	6	0	37	37
Julau	0	31	0	23	24
SARIKEI	5	269	1	314	322
Daro	0	6	0	24	24
Matu	0	2	0	19	20
Mukah	4	60	1	251	259
Dalat	3	22	0	108	108
MUKAH	7	90	1	402	411
Sibu	8	124	2	496	517
Selangau	0	6	0	12	17
Kanowit	0	22	0	44	44
SIBU	8	152	2	552	578
Kapit	0	50	0	113	116
Song	0	11	0	29	29
Belaga	0	48	0	10	10
KAPIT	0	109	0	152	155
Bintulu	2	638	6	569	629
Tatau	0	25	0	21	28
BINTULU	2	663	6	590	657
Miri	11	207	14	850	911
Marudi	0	47	2	97	105
MIRI	11	254	16	947	1016
Limbang	0	54	0	54	54
Lawas	0	4	0	53	56
LIMBANG	0	58	0	107	110
SARAWAK	65	2526	39	4766	5010

EW = Epid. Week



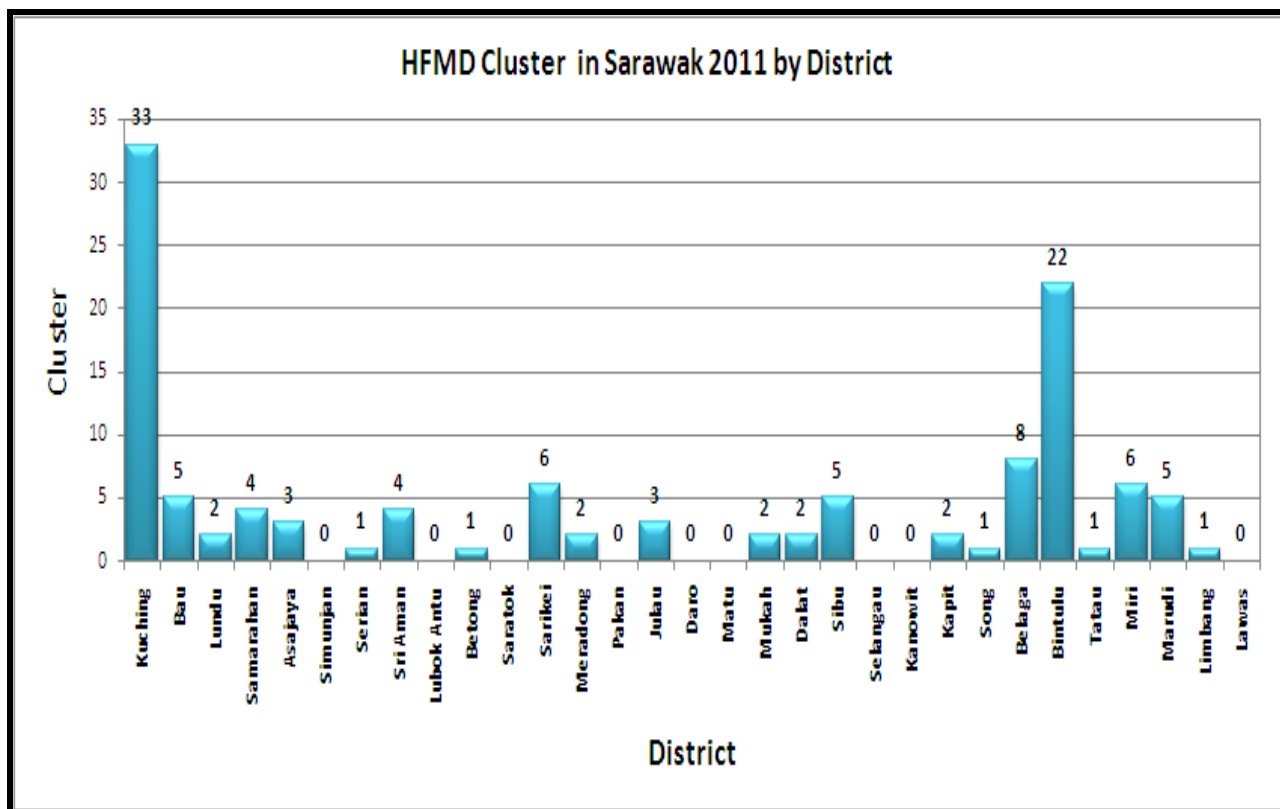
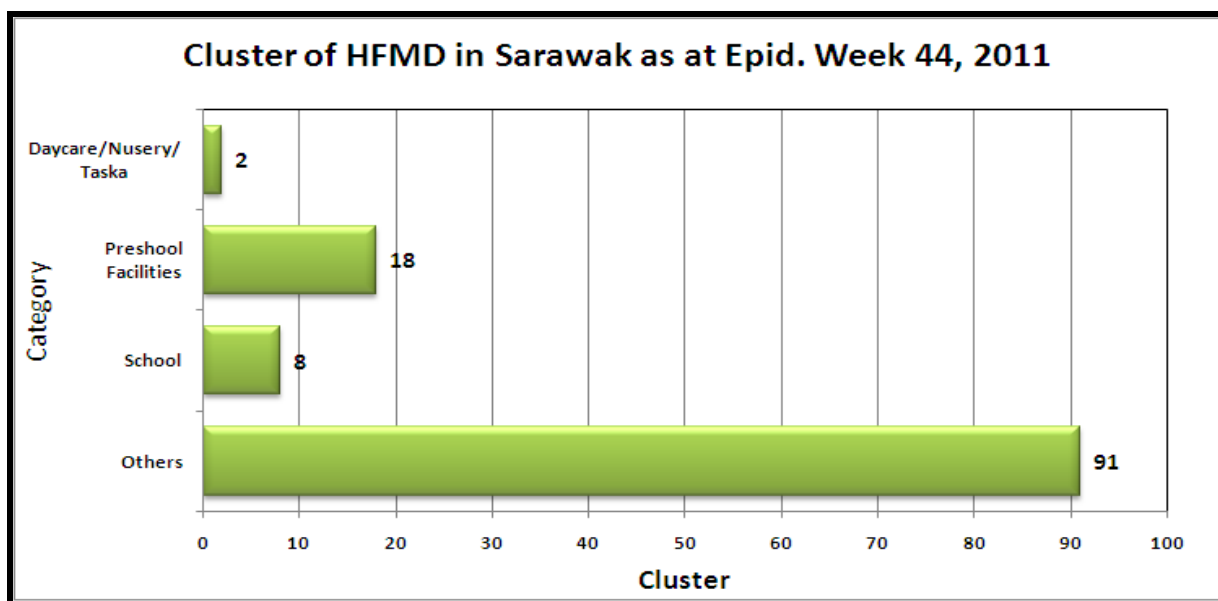
A total of 65 cases were reported in Epid. Week 43, 2011.

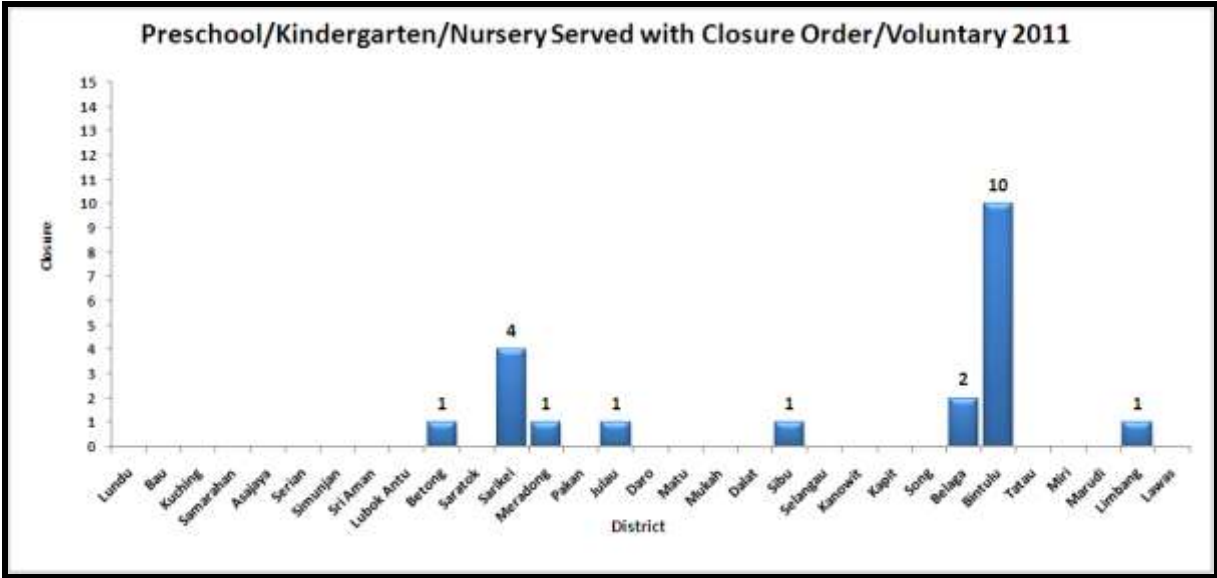
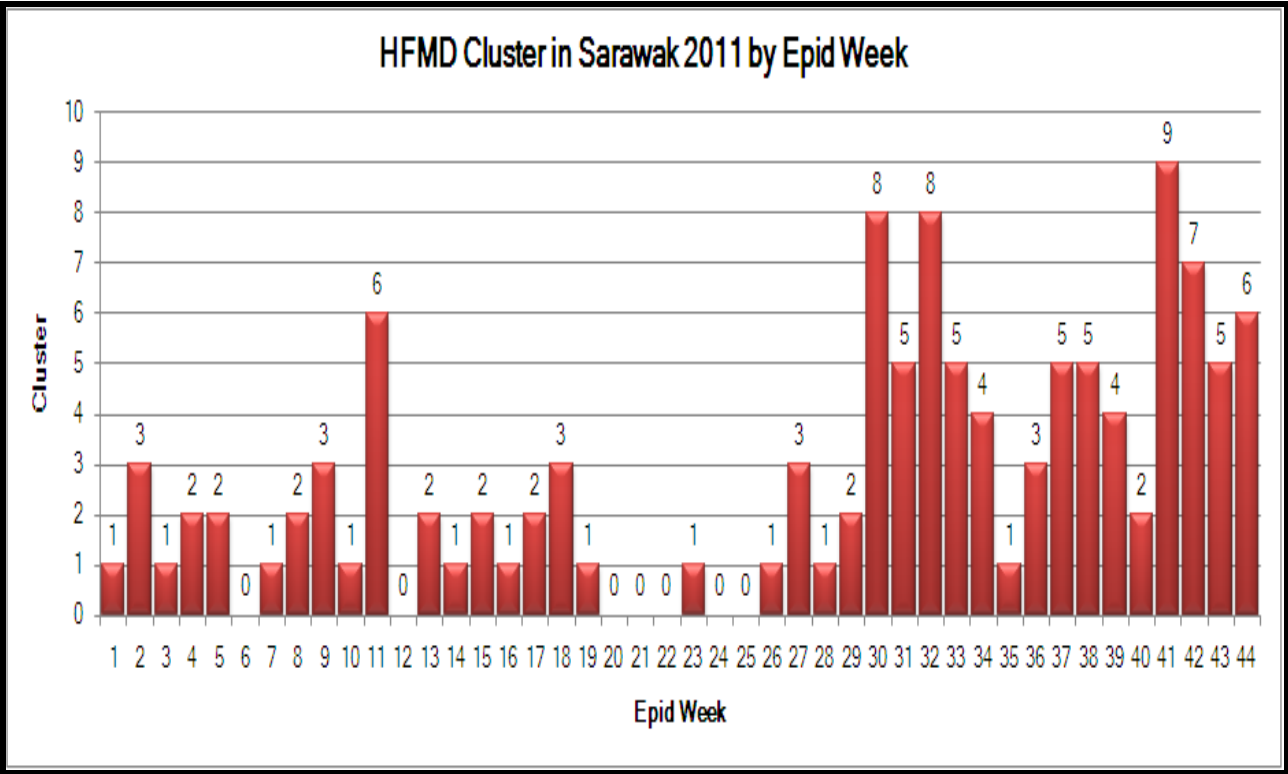
A cumulative total of 2,526 cases reported compared to 4,766 cases during the same period in 2010.

5.2.1. Cumulative HFMD Clusters as of 5th November 2011.

Six HFMD clusters reported in Epid. Week 44, 2011 involved one primary school (Sarikei), two preschool (Julau and Limbang), and three family clusters at Kuching (2) and Julau (1) district.

As at 5th November 2011, a total of 119 clusters reported. Of these, 91 (76.47%) were family cluster, 18 (15.13%) were cluster in preschool facilities, eight (6.72%) were in school and two (1.68%) was in *nursery* or day care centre.





5.3. Notified Leptospirosis cases for Epid. Week 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2011.

District	Case classification (positive)				Total positive leptospirosis	
	Confirmed		Probable		2011	2010
	EW 44/2011	EW 44/2010	EW 44/2011	EW 44/2010		
Bau	0	0	0	0	0	1
Lundu	0	0	0	0	0	0
Kuching	0	0	0	0	29(2)	12
Asajaya	0	0	0	0	3	0
Samarahan	0	0	0	0	5	1
Serian	0	0	0	0	5	2
Simunjan	0	0	0	0	3(1)	1
Sri Aman	0	1	1	0	8	1
Lubok Antu	0	0	0	0	6	3(1)
Betong	0	0	0	0	4(1)	0
Saratok	0	0	0	0	7(1)	0
Sarikei	0	0	0	1	0	1
Meradong	0	0	0	0	0	1
Pakan	0	0	0	0	1	1
Julau	0	0	0	0	0	1
Dalat	0	0	0	0	0	0
Mukah	0	0	0	0	2	1
Daro	0	0	0	0	1(1)	1
Matu	0	0	0	0	0	0
Sibu	0	0	0	0	2	6
Kanowit	0	0	0	0	2	1
Selangau	0	0	0	0	2	0
Song	0	0	0	0	0	2
Kapit	0	0	0	0	9	1
Belaga	0	0	0	0	4(1)	0
Tatau	0	0	0	0	0	0
Bintulu	0	0	0	0	8(2)	6
Miri	0	0	0	0	5	3
Marudi	0	0	0	0	1	2
Limbang	0	0	0	0	2(1)	1
Lawas	0	0	0	0	0	0
Total	0	1	1	1	109(10)	49(1)

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

District indicate source of infection based on patient's recent travelling history (suspected), current place of residence or workplace

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 44, 2011 compared to Epid. Week 44, 2010 and cumulative cases till Epid. Week 44 in 2011.

District	Blood test result				Total positive	
	Positive				2011	2010
	Culture		Serology			
	EW 44/2011	EW 44/2010	EW 44/2011	EW 44/2010		
Bau	0	0	0	0	2	0
Lundu	0	0	0	0	0	0
Kuching	0	0	0	0	6(1)	12(1)
Asajaya	0	0	0	0	0	0
Samarahan	0	0	0	0	0	0
Serian	0	0	0	0	1	1(1)
Simunjan	0	0	0	0	0	0
Sri Aman	0	0	0	0	4	0
Lubok Antu	0	0	0	0	0	0
Betong	0	0	0	0	0	2
Saratok	0	0	0	0	0	1(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	2	3(1)
Daro	0	0	0	0	0	0
Matu	0	0	0	0	0	0
Sibu	0	0	0	0	1	5(1)
Kanowit	0	0	0	0	0	1
Selangau	0	0	0	0	1	6(2)
Song	0	0	0	0	1	7(2)
Kapit	0	0	7	0	60(2)	162(1)
Belaga	0	0	0	0	14(3)	28(1)
Tatau	0	0	0	0	4(1)	14(4)
Bintulu	0	0	0	1	5	49(1)
Miri	0	0	0	0	3(1)	35(1)
Marudi	0	0	0	0	1	7
Limbang	0	0	0	0	0	2
Lawas	0	0	0	0	0	1(1)
Total	0	0	7	1	105(8)	343(18)

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.

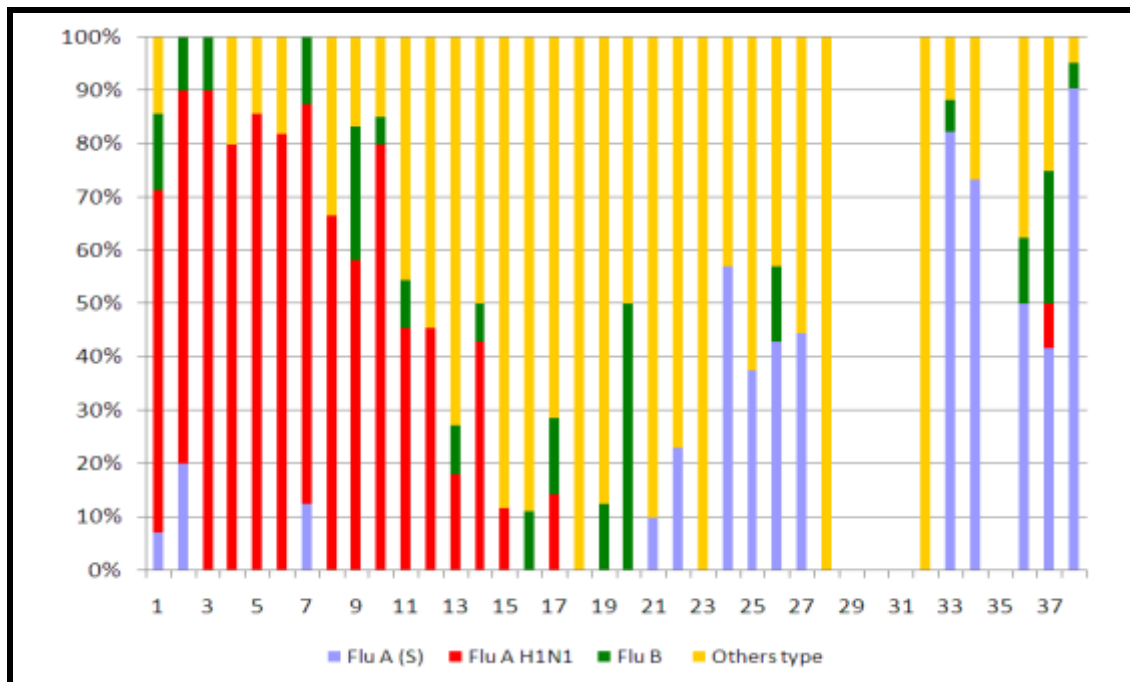
5.4.1. Locality of melioidosis outbreak in Sarawak as at 5th November 2011.

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 37, 2011.



* specimen from Sabah were analysed at IMKAK Kota Kinabalu

In Malaysia, as at Epid Week 37, 2011, a total of 2,194 throat swab specimens were analysed at MKAK Sungai Buloh. Of these, 255 specimens isolated various types of influenza virus i.e. virus Flu A H1N1 (98), Flu A (s) [21], Flu B (20), and other types of virus (116). Other viruses which are under category of others-type: Adenovirus (74), Paramyxovirus (14), RSV (1), Enterovirus (1) and other viruses (26).

6.2. Laboratory Based Surveillance for Measles in Malaysia

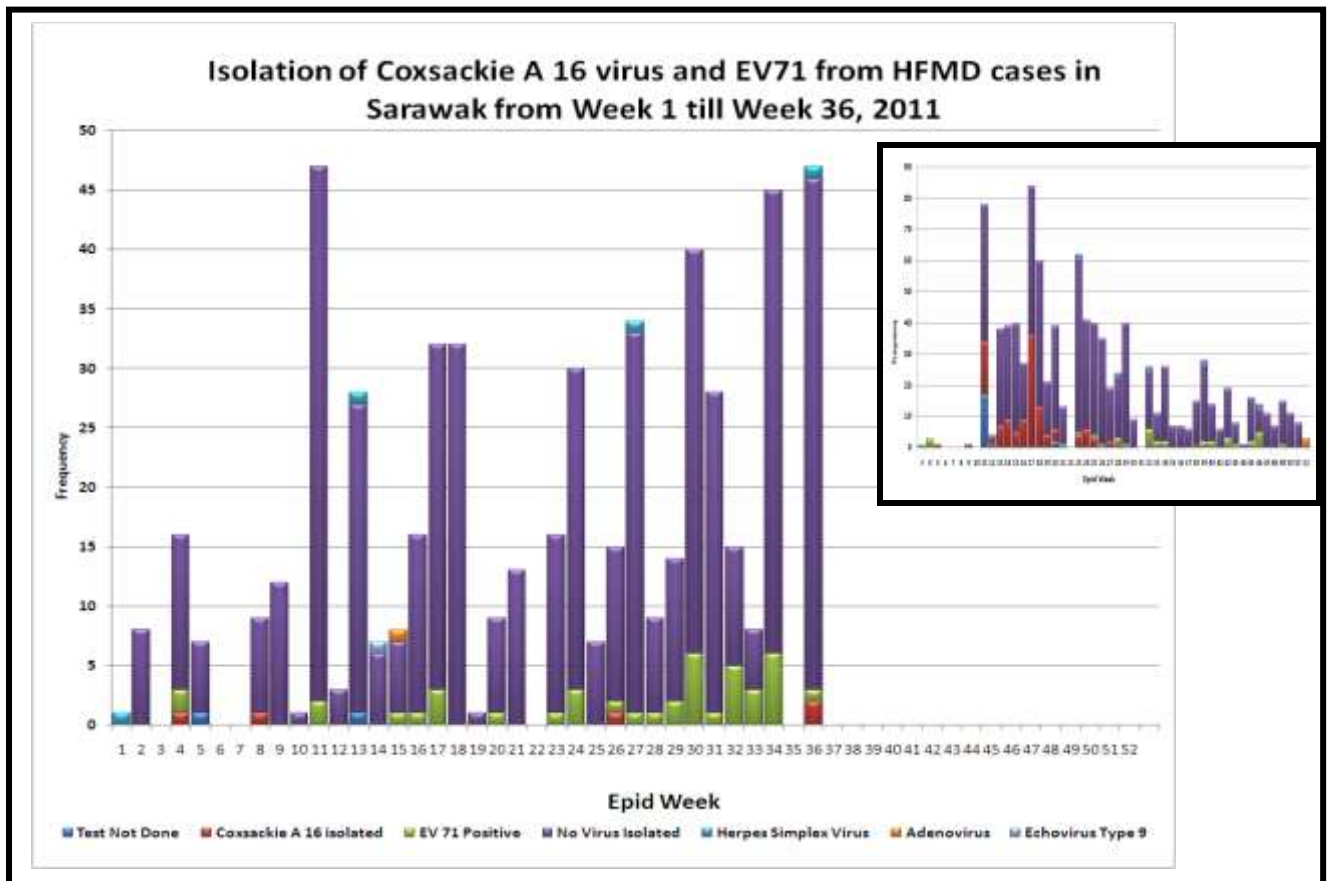
In Malaysia, as at Epid. Week 39, 2011, a total of 3,556 serum specimens for serology test were sent to MKAK Sg. Buloh. Of these, 1,077 were positive for IgM Measles and 298 positive for Rubella.

As at Epid. Week 29, 2011, a total of 1,931 specimens for viral isolation were sent to MKAK Sg. Buloh. Of these, 158 (7.8%) specimens positive for virus isolation: measles (31); rubella (115); herpes simplex virus 1 (2); and adenovirus (4).

As at Epid Week 39, 2011, Sarawak had been sent 205 specimens for serology test. Six specimens positive for measles IgM and 37 positive for rubella IgM.

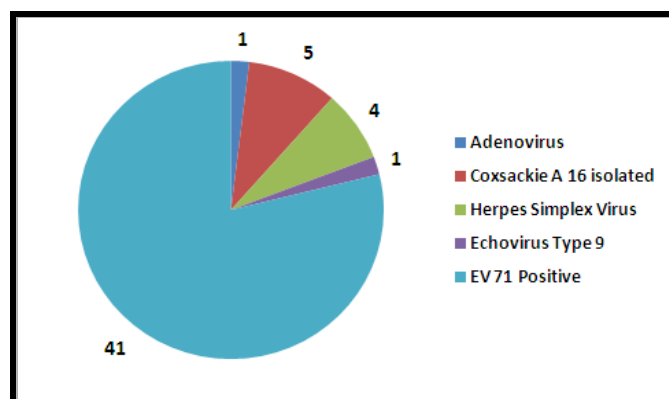
As at Epid. Week 29, 2011, only 12 specimens for measles viral isolation from Sarawak were sent to MKAK Sg. Buloh but so far none were positive.

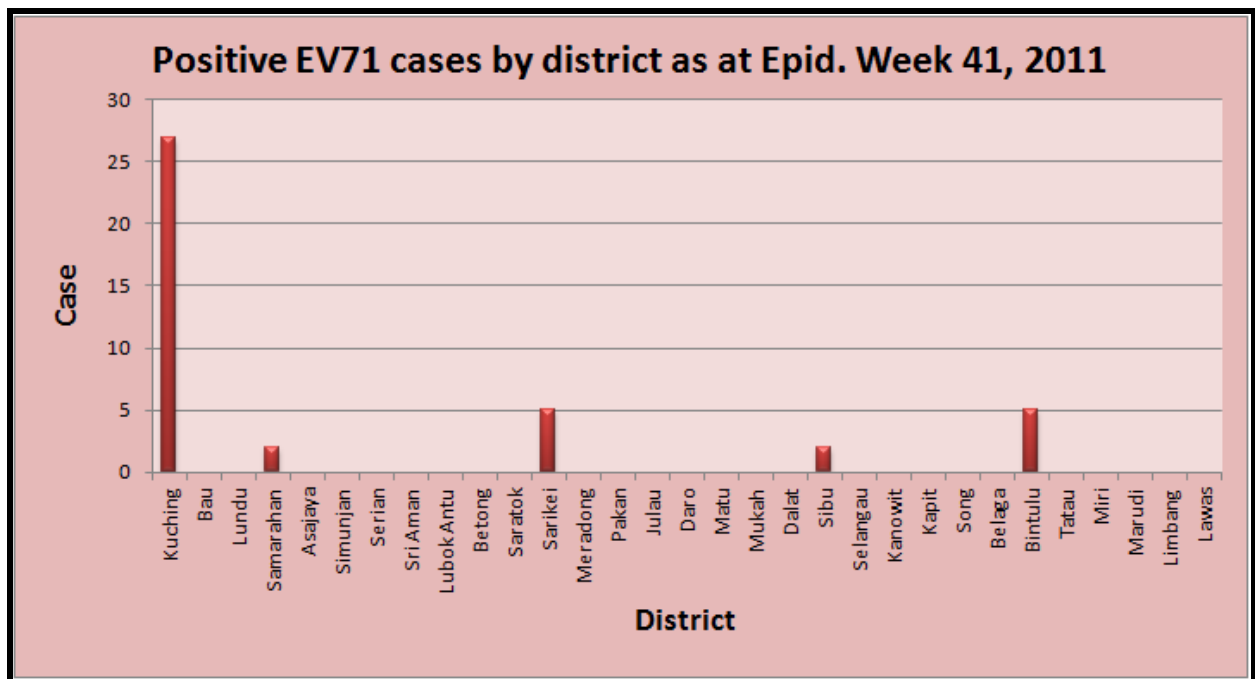
6.3. Laboratory Based Surveillance for HFMD in Sarawak from Epid Week 1 till Epid Week 36, 2011 compared to 2010 (inset).



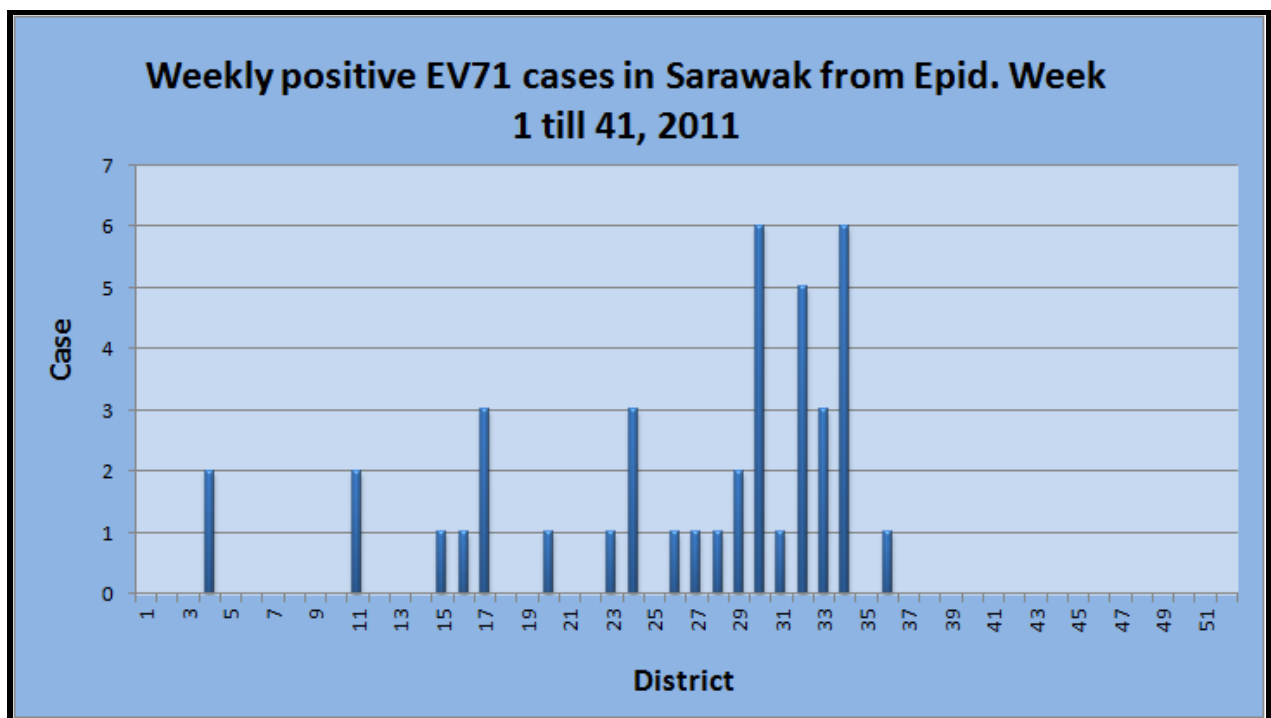
*results from EW 37 onwards are still pending

In Sarawak, as at Epid. Week 36, 2011, a total of 375 specimens were sent to MKAK Sg. Buloh for viral isolation. Of these, 48 specimens isolated viruses: EV71 (41), Coxsackie A16 (5), Herpes Simplex (HSV 1) [4], Adenovirus (1) and Echovirus Type 9 (1).





*results from EW 42 onwards are still pending



*results from EW 42 onwards are still pending

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)

The addresses and contact numbers of the Medical Officer of Health/Divisional Health Officers in Sarawak are listed below (as at 5th November 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
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3	Pegawai Kesihatan Bahagian Kuching Dr. Kamarudin Lajim	Pejabat Kesihatan Bahagian, Bahagian Kuching, Jln Tun Ahmad Zaidi Aduce, 93250 Kuching	dhoshan@yahoo.com.sg kamarudinl@srwk.moh.gov.my	Tel:082 – 238635/257867 Fax:082-414542/250037 Hp:013-8014332
4	Pegawai Kesihatan Bahagian Samarahan Dr. Julaidah Sharip	Pejabat Kesihatan Bahagian, Bahagian Samarahan, Jln Datuk Muhammad Musa, 94300 Kota Samarahan	drjulaidah@yahoo.com	Tel:082-673626 Fax:082-673632 Hp:019-8270869
5	Pegawai Kesihatan Bahagian Sri Aman Dr. Murnihayati Binti Ali	Pejabat Kesihatan Bahagian, Bahagian Sri Aman, Tingkat 3, Wisma Persekutuan, Jln Hospital, 95007 Sri Aman	murnihayati_ali@yahoo.com	Tel:083-332176 Fax:083-322058 Hp:012-5066751
6	Pegawai Kesihatan Bahagian Betong Dr. Jeffery Stephen	Pejabat Kesihatan Bahagian, Bahagian Betong, KM 2 Jln Betong, 95700 Betong	endena90@yahoo.com stjeffery@srwk.moh.gov.my	Tel:083-472116 Fax:083-471870 Hp:019-8584053
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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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 Sarawak Weekly Epid. News are greatly appreciated.