



# SARAWAK WEEKLY EPID NEWS

Sarawak Health Department

EPID. WEEK 51

16<sup>th</sup> – 22<sup>nd</sup> December 2012

## INFECTIOUS DISEASE/CRISIS HIGHLIGHTS IN SARAWAK

Local update:

Dengue cases still above the outbreak level in the state. See detail in page 15.

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**SARAWAK**  
State Health Department

CPRC (CRISIS PREPAREDNESS AND RESPONSE CENTRE)

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## 2. NEW OUTBREAKS/CLUSTERS

No	Disease	District	Locality	Case (No)	Outbreak declared
1	Dengue	Marudi	BJ Estate, Lg. Jegan	2	21 <sup>st</sup> December 2012

### 3. SUMMARY OF MANDATORY NOTIFIABLE DISEASES REPORTED IN EPID. WEEK 51, 2012

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																											
Bau						1																					
Kuching	1/0					1				3									2					6			1
Samarahan						1																					1
Asajaya																											
Simunjan																											
Serian						1				1			1														
Sri Aman						6													1								
L/ Antu						6							1														
Betong							1						7														
Saratok						1							2														
Sarikei	0/1					1																					
Meradong						1													1								
Pakan						1							3														
Julau						1							4														
Daro																											
Matu										1																	
Dalat													1														
Mukah																								1			
Sibu						2													1								
Kanowit													2						1								
Selangau																											
Song						1							1														
Kapit						6							7														
Belaga						1							4														
Tatau						1							1														
Bintulu	0/3					2																					1
Miri	3/1					3				2									1					23			
Marudi						2																					
Limbang																											
Lawas						2				1																	
TOTAL (Week 51)	4/5	0	0	0	0	41	1	0	0	8	0	0	34	0	0	0	0	0	7	0	0	0	0	30	0	0	3
Total (2012)	159/102	0	0	111	0	1469	37	0	1463	479	13341	44	1516	12	165	0	0	0	271	1	2089	33	0	167	1	0	269
Total (2011)	164/82	0	0	252	0	974	9	0	1323	445	3170	25	1761	37	335	0	0	0	194	1	1707	6	0	137	25	0	186
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	73

\* 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 9<sup>th</sup> December 2010**

## 4. SURVEILLANCE REPORT ON FOOD-WATER BORNE DISEASES

### 4.1. Cumulative cases from Epid Week 1-51, 2012

Division	Food poisoning outbreak	Dysentery		Typhoid & paratyphoid fever		Cholera	Hepatitis A	
		S	C	S	C		S	C
Kuching	11	28	3	16	3	0	0	2
Samarahan	10	12	0	3	1	0	0	0
Sri Aman	3	1	0	1	1	0	0	0
Betong	5	13	5	3	1	0	0	0
Sarikei	6	52	23	32	18	0	0	0
Sibu	5	14	3	4	0	0	0	1
Kapit	4	9	1	11	5	0	0	0
Mukah	4	5	2	6	3	0	0	0
Bintulu	3	26	0	3	1	111	0	0
Miri	15	4	0	0	0	0	0	0
Limbang	3	2	0	1	0	0	0	0
Sarawak	<b>71</b>	<b>170</b>	<b>37</b>	<b>81</b>	<b>33</b>	<b>111</b>	<b>0</b>	<b>3</b>

Note: S = Suspected; C = Confirmed

**Note:**

- Food poisoning outbreak:
  - o Seven (7) were related to Susu 1 Malaysia
  - o Seven were related to mushroom poisoning.
- Typhoid cases:
  - o Seven (7) are *Salmonella paratyphii A*
  - o One (1) is *Salmonella paratyphii B*
  - o Twenty five (25) are *Salmonella typhii*.

### 4.1.2 Waterborne Outbreak in 2012

No	Outbreak	Locality	Date	No of Cases
1	Cholera	Bintulu Division	14/7 - 13/9	111
2	Typhoid	Rh Meru, Sg. Engkabang, Ulu Entaih, Julau	16/8 - 26/9	2
3		Metanic Estate, Belaga	16/10 - 23/11	5
4	Salmonellosis	Nanga Stras, Meradong	31/7 - 31/8	27
5	AGE	No. 40, Blok G, Ladang Sungai KLAD, Beluru, Miri.	7/11 - 9/11	10

## 5. SURVEILLANCE REPORT ON VACCINE PREVENTABLE DISEASES

### 5.1. Total number of Vaccine Preventable Diseases (VPD) by division from Epid Week 1-51, 2012

Division	TYPES OF DISEASES								
	Measles					Rubella	Tetanus	Whooping Cough	
	Suspected (Registered Cases in SM2)	Confirmed			Discard	Lab. Confirmed	C	S	
		Lab. Confirmed	Clinically Confirmed	Epid. Link				S	C
Kuching	118	24	4	10	50	8	1	25	6
Samarahan	30	2	0	1	23	1	0	3	0
Sri Aman	25	3	1	0	16	2	0	0	0
Betong	18	3	0	0	9	1	0	0	0
Sarikei	72	4	0	0	59	0	1	1	0
Sibu	4	2	0	0	2	0	0	10	6
Kapit	37	0	0	0	28	17	0	3	0
Mukah	1	0	0	0	1	0	0	2	0
Bintulu	182	37	3	13	77	28	1	0	0
Miri	211	50	2	0	125	12	0	14	0
Limbang	21	7	0	0	7	0	0	0	0
<b>Sarawak</b>	<b>719</b>	<b>132</b>	<b>10</b>	<b>24</b>	<b>397</b>	<b>69</b>	<b>3</b>	<b>58</b>	<b>12</b>

Note: S = suspected; C = confirmed

#### Case Definition for Measles

Any person with:

Fever and maculopapular rash and; conjunctivitis or cough or coryza

Or

Any person in whom a clinician suspects a measles infection.

*Source: Measles Prevention and Control in Malaysia. Handbook for Healthcare Personnel*

MOH, December 2006

#### Case Classification for Measles :

- Suspected: any person diagnosed as measles by clinician
- Confirmed
  - lab-confirmed – by serology or viral culture
  - epid link – a case that link to a lab confirmed case
  - clinically confirmed – meets clinical case definition with no specimen taken or no epid link.
- Discard :
  - negative IgM measles or
  - positive measles case within 1-6 weeks measles/MMR vaccination

## 5.2. Measles Elimination Programme (MEP) Achievement by Division from Epid. Week 1-51, 2012

Division	No. Of cases	Indicator High Quality Surveillance (>80%)		
		% of Suspected cases Notified within 24 hours	% of suspected cases with adequate Investigation within 48 hours of notification	% of suspected cases with adequate blood specimens
Kuching	118	110 (93.22%)	77 (65.25%)	110 (93.22%)
Samarahan	30	28 (93.33%)	26 (86.67%)	30 (100.00%)
Sri Aman	25	24 (96.00%)	20 (80.00%)	23 (92.00%)
Betong	18	18 (100.00%)	10 (55.56%)	18 (100.00%)
Sarikei	72	72 (100.00%)	52 (72.22%)	71 (98.61%)
Sibu	4	4 (100.00%)	4 (100.00%)	4 (100.00%)
Kapit	37	37 (100.00%)	35 (94.59%)	37 (100.00%)
Mukah	1	1 (100.00%)	1 (100.00%)	1 (100.00%)
Bintulu	182	179 (98.35%)	165 (90.66%)	173 (95.05%)
Miri	211	205 (97.16%)	195 (92.42%)	207 (98.10%)
Limbang	21	21 (100.00%)	20 (95.24%)	21(100.00%)
<b>Sarawak</b>	<b>719</b>	<b>699 (97.22%)</b>	<b>605 (84.14%)</b>	<b>695 (96.66%)</b>

### Strategies for MEP :

- I. Vaccination strategies
  - at least 95% coverage of 1<sup>st</sup> dose MMR at 1 year
  - 2<sup>nd</sup> dose MMR at 7 years
- II. Surveillance strategies: Enhanced surveillance in epidemiology and lab
- III. Laboratory strategies\*:
  - Confirm all suspected case
  - Isolate and analyses wild measles virus
- IV. Response to outbreak \*
- V. Case management
- VI. Training

### Adequate Investigation :

- Investigation within 48 hours of notification
- Include following data : age, sex, date of rash onset, date of specimen collection, vaccination status, date of last vaccination and district.

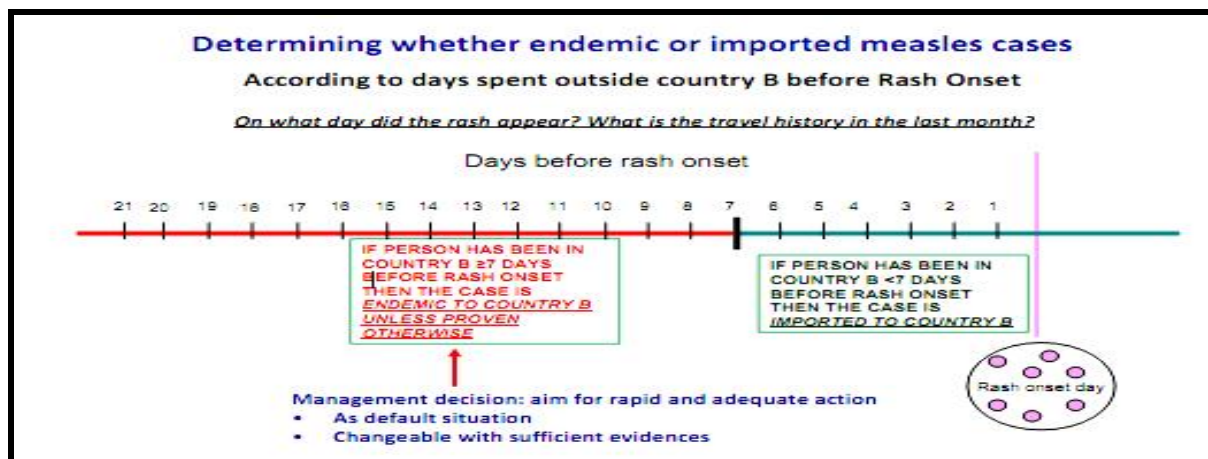
### MCV Vaccination History

- MCV started on 1982
- MCV1 with MMR at 12 month old – July 2002
- MCV2 with MMR at 7 year old – early 2004
- KICK
  - 8 – 15 year old April – September 2004
  - 17 year old – 2005

30 years old – now in 2012

24 years old – now in 2012



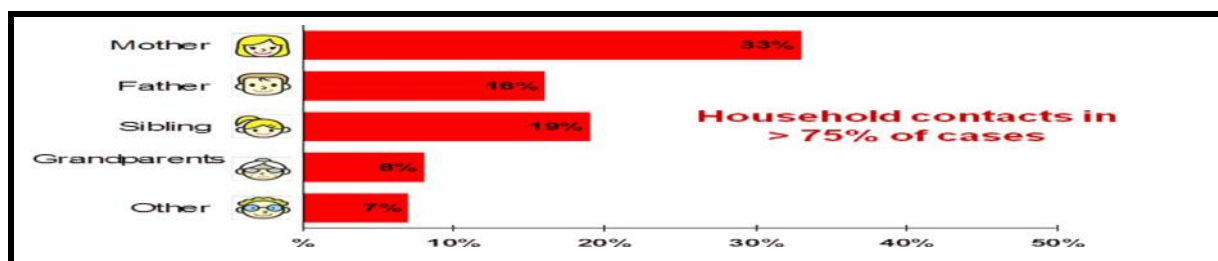


### Clinical Case Definition for Pertussis

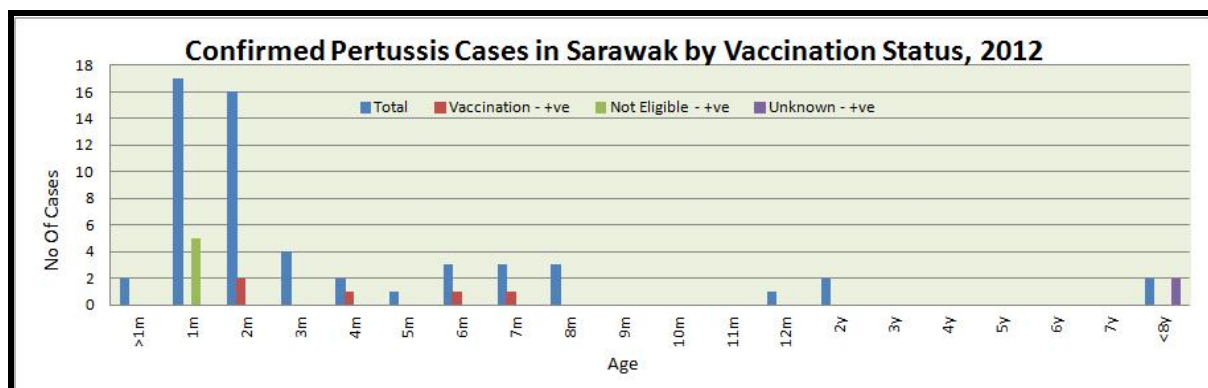
- A person with a cough lasting at least 2 weeks
  - **WITH** at least one of the following:
    - Paroxysms of coughing,
    - Inspiratory "whoop," or
    - Post-tussive vomiting,
  - **AND**
  - without other apparent cause (as reported by a health professional).

(MOH, 2012)

### Who infect infant?



### Confirmed Pertussis Cases In Sarawak By Vaccination Status, 2012



### 5.3 Positive VPD Outbreak in 2012

No	Outbreak	District	Locality	Outbreak Declared	No of Cases
1	Measles	Kuching	SGH, Kuching	23-Apr-12	14
2			Tmn. Duranda, Bt.17 Kuching, Serian	15-May-12	3
3	Rubella	Kapit	SMK. Kapit No.2/SK Sg. Kapit	26-Sep-12	20
4	Measles	Bintulu	Ladang SPI Bintulu	16-Jan-12	12
5			GT Plywood	16-Jan-12	4
6			Rh Alooh, Sg. Seterus	2-Feb-12	5
7			Ladang Bayu Samudera	8-Feb-12	14
8	Rubella		Jaya Front Samalaju	28-May-12	6
9			UPM	1-Aug-12	22
10	Measles	Miri	Pujut Padang Kerbau	15-Jan-12	6
11			Hollystone Kuala Baram	18-Jan-12	4
12			Desa Pujut	24-Feb-12	2
13			Permyjaya Miri	11-Mar-12	2
14			Desa Indah, Permyjaya	21-Jun-12	2
15	Rubella	Marudi	SMK Marudi	6-Oct-12	9
16	Measles	Limbang	Kpg. Bukit Timpas	2-Mar-12	2
17	Pertussis	Sibu	Rh. Seliu Ulu Oya	11-Oct-12	3



## 5.4 Acute Flaccid Paralysis (AFP)

Reported AFP cases in Sarawak, EPID week 1-51, 2012.

Division	Population age < 15	Reported AFP 2011	<sup>1</sup> Expected AFP 2012	Reported AFP 2012	Indicators		
					<sup>2</sup> Adequate stool	Adequate follow up	Discard category
Kuching	238,400	2	2	1	1	1	Discard 1-GBS
Samarahan	79,300	2	1	2	0	2	Non AFP-1
Sri aman	33,300	0	1	0	0	0	0
Betong	43,600	0	1	0	0	0	0
Sibu	97,900	0	1	0	0	0	0
Kapit	37,400	0	1	0	0	0	0
Mukah	30,100	0	1	0	0	0	0
Sarikei	65,000	0	1	1	0	1	Discard 1-1(Demyelination)
Miri	123,500	2	1	2	2	2	Discard 1- 2(GBS & Transverse Myelitis)
Bintulu	75,800	0	1	1	0	1	Non AFP
Limbang	30,400	0	1	0	0	0	0
<b>TOTAL</b>	<b>854.7</b>	<b>6</b>	<b>12</b>	<b>7</b>		<b>7</b>	<b>6</b>

<sup>1</sup>Target Non AFP = 1 case per 100 000 population <15 years old.

### Note :

-Notification period of 14 days from the date of onset : Target >80%

-Investigation within 48 hours of notification : Target >80%

-<sup>2</sup>Collection of two stool specimens within 14 days from the onset of paralysis : Target >80%

### Case Definition of AFP :

Sudden onset of acute paralysis especially in the legs or arms in children less than 15 years old.

## 6. SURVEILLANCE REPORT ON HIV/AIDS AND STI

### 6.1 Notified HIV/AIDS cases for Epid. Week 51, 2012 and cumulative cases from Epid.Week 1 until Epid. Week 51, 2012.

District / Division	2012			
	EW 51		Cumulative	
	HIV	AIDS	HIV	AIDS
Lundu	0	0	2	2
Bau	0	0	2	1
Kuching	1	0	51	27
<b>KUCHING</b>	<b>1</b>	<b>0</b>	<b>55</b>	<b>30</b>
Samarahan	0	0	7	4
Asajaya	0	0	3	1
Simunjan	0	0	3	2
Serian	0	0	6	4
<b>SAMARAHAN</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>11</b>
Sri Aman	0	0	6	2
LubokAntu	0	0	1	0
<b>SRI AMAN</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>2</b>
Betong	0	0	3	0
Saratok	0	0	0	0
<b>BETONG</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
Sarikei	0	1	1	3
Meradong	0	0	1	3
Pakan	0	0	0	0
Julau	0	0	0	0
<b>SARIKEI</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>6</b>
Daro	0	0	3	0
Matu	0	0	0	0
Dalat	0	0	0	0
Mukah	0	0	0	1
<b>MUKAH</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>
Sibu	0	0	15	14
Kanowit	0	0	1	2
Selangau	0	0	0	0
<b>SIBU</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>16</b>
Song	0	0	0	1
Kapit	0	0	2	2
Belaga	0	0	0	0
<b>KAPIT</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>
Tatau	0	0	2	1
Bintulu	0	3	19	17
<b>BINTULU</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>18</b>
Miri	3	1	20	7
Marudi	0	0	2	1
<b>MIRI</b>	<b>3</b>	<b>1</b>	<b>22</b>	<b>8</b>
Limbang	0	0	5	5
Lawas	0	0	4	2
<b>LIMBANG</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>7</b>
<b>Sarawak</b>	<b>4</b>	<b>5</b>	<b>159</b>	<b>102</b>

EW = Epid. Week; Cum. = Cumulative figure

**6.2 Notified Gonorrhoea and Syphilis (all forms) cases for Epid. Week 51, 2012 and Cumulative cases from Epid. Week 1, 2012 until Epid.Week 51, 2012.**

District / Division	Gonorrhoea		Syphilis (all forms)	
	EW 51	Cum.	EW 51	Cum.
Lundu	0	5	0	3
Bau	0	9	0	7
Kuching	3	206	2	78
<b>KUCHING</b>	<b>3</b>	<b>220</b>	<b>2</b>	<b>88</b>
Samarahan	0	34	0	17
Asajaya	0	32	0	9
Simunjan	0	8	0	8
Serian	1	11	0	2
<b>SAMARAHAN</b>	<b>1</b>	<b>85</b>	<b>0</b>	<b>36</b>
Sri Aman	0	5	1	23
Lubok Antu	0	2	0	6
<b>SRI AMAN</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>29</b>
Betong	0	4	0	3
Saratok	0	1	0	7
<b>BETONG</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>10</b>
Sarikei	0	5	0	6
Meradong	0	6	1	6
Pakan	0	1	0	2
Julau	0	1	0	0
<b>SARIKEI</b>	<b>0</b>	<b>13</b>	<b>1</b>	<b>14</b>
Daro	0	6	0	2
Matu	1	9	0	1
Dalat	0	0	0	0
Mukah	0	12	0	4
<b>MUKAH</b>	<b>1</b>	<b>27</b>	<b>0</b>	<b>7</b>
Sibu	0	67	1	46
Kanowit	0	1	1	3
Selangau	0	5	0	1
<b>SIBU</b>	<b>0</b>	<b>73</b>	<b>2</b>	<b>50</b>
Song	0	0	0	0
Kapit	0	2	0	4
Belaga	0	0	0	0
<b>KAPIT</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>4</b>
Tatau	0	0	0	0
Bintulu	0	12	0	11
<b>BINTULU</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>11</b>
Miri	2	20	1	8
Marudi	0	5	0	3
<b>MIRI</b>	<b>2</b>	<b>25</b>	<b>1</b>	<b>11</b>
Limbang	0	7	0	5
Lawas	1	3	0	7
<b>LIMBANG</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>11</b>
<b>Sarawak</b>	<b>8</b>	<b>479</b>	<b>7</b>	<b>271</b>

EW = Epid. Week; Cum. = Cumulative figure

## 7. SURVEILLANCE REPORT ON TUBERCULOSIS (ALL FORMS) AND LEPROSY.

### 7.1 Notified Tuberculosis cases for Epid. Week 50, 2012 compared to Epid. Week 50, 2011 and cumulative cases until Epid. Week 50, 2012.

District / Division	2012		2011		Total
	EW 50	Cum.	EW 50	Cum.	
Lundu	1	38	0	21	22
Bau	0	37	0	40	42
Kuching	0	414	10	347	365
<b>KUCHING</b>	<b>1</b>	<b>489</b>	<b>10</b>	<b>408</b>	<b>429</b>
Samarahan	1	26	2	46	46
Asajaya	2	15	1	28	29
Simunjan	1	38	2	37	37
Serian	0	35	0	57	61
<b>SAMARAHAN</b>	<b>4</b>	<b>114</b>	<b>5</b>	<b>168</b>	<b>173</b>
Sri Aman	0	43	0	57	58
LubokAntu	0	26	3	48	49
<b>SRI AMAN</b>	<b>0</b>	<b>69</b>	<b>3</b>	<b>105</b>	<b>107</b>
Betong	0	55	2	42	43
Saratok	1	56	2	54	55
<b>BETONG</b>	<b>1</b>	<b>111</b>	<b>4</b>	<b>96</b>	<b>98</b>
Sarikei	0	69	0	51	51
Meradong	0	26	1	28	29
Pakan	0	25	2	22	22
Julau	0	19	0	22	22
<b>SARIKEI</b>	<b>0</b>	<b>139</b>	<b>3</b>	<b>123</b>	<b>124</b>
Daro	0	14	0	25	27
Matu	0	1	0	4	4
Dalat	0	8	0	14	14
Mukah	1	58	3	41	44
<b>MUKAH</b>	<b>1</b>	<b>81</b>	<b>3</b>	<b>84</b>	<b>89</b>
Sibu	1	208	0	164	175
Kanowit	2	39	0	38	42
Selangau	0	37	0	30	32
<b>SIBU</b>	<b>3</b>	<b>284</b>	<b>0</b>	<b>232</b>	<b>249</b>
Song	0	11	1	30	23
Kapit	0	61	2	59	60
Belaga	0	47	0	39	40
<b>KAPIT</b>	<b>0</b>	<b>119</b>	<b>3</b>	<b>128</b>	<b>123</b>
Tatau	1	37	2	43	43
Bintulu	3	215	1	181	187
<b>BINTULU</b>	<b>4</b>	<b>252</b>	<b>3</b>	<b>224</b>	<b>230</b>
Miri	18	296	3	300	306
Marudi	0	60	3	60	61
<b>MIRI</b>	<b>18</b>	<b>356</b>	<b>6</b>	<b>360</b>	<b>367</b>
Limbang	1	49	0	42	42
Lawas	0	26	0	24	24
<b>LIMBANG</b>	<b>1</b>	<b>75</b>	<b>0</b>	<b>66</b>	<b>66</b>
<b>Sarawak</b>	<b>33</b>	<b>2089</b>	<b>40</b>	<b>1994</b>	<b>2055</b>

EW = Epid. Week; Cum. = Cumulative figure

### 7.2 Notified Leprosy cases for Epid. Week 50, 2012 compared to Epid. Week 50, 2011 and cumulative cases until Epid. Week 50, 2012.

District / Division	2012		2011		Total
	EW 50	Cum.	EW 50	Cum.	
Lundu	0	0	0	0	0
Bau	0	0	0	0	0
Kuching	0	1	0	1	3
<b>KUCHING</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>
Samarahan	0	0	0	0	0
Asajaya	0	0	0	0	0
Simunjan	0	1	0	0	0
Serian	0	0	0	0	0
<b>SAMARAHAN</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sri Aman	0	1	0	0	0
LubokAntu	0	0	0	0	0
<b>SRI AMAN</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Betong	0	0	0	0	0
Saratok	0	0	0	0	0
<b>BETONG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sarikei	0	0	0	0	0
Meradong	0	0	0	0	0
Pakan	0	3	0	0	0
Julau	0	0	0	0	0
<b>SARIKEI</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Daro	0	0	0	0	0
Matu	0	0	0	0	0
Dalat	0	0	0	0	0
Mukah	0	4	0	0	1
<b>MUKAH</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>
Sibu	0	3	0	1	1
Kanowit	0	0	0	0	0
Selangau	0	1	0	0	0
<b>SIBU</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>
Song	0	0	0	0	0
Kapit	0	0	0	0	0
Belaga	0	4	0	3	6
<b>KAPIT</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>6</b>
Tatau	0	0	0	0	0
Bintulu	0	3	0	1	1
<b>BINTULU</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>
Miri	0	11	0	0	4
Marudi	0	11	0	0	5
<b>MIRI</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>9</b>
Limbang	0	1	0	3	4
Lawas	0	0	0	0	0
<b>LIMBANG</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>Sarawak</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>10</b>	<b>25</b>

### 7.3 Notified Tuberculosis (all forms) Case Classification as on 15<sup>th</sup> December 2012

District / Division	Case classification					
	Positive smear		Negative smear		Extra PTB	
	EW 50	Cum.	EW 50	Cum.	EW 50	Cum.
Lundu	1	28	0	6	0	4
Bau	0	30	0	7	0	0
Kuching	0	244	0	126	0	44
<b>KUCHING</b>	<b>1</b>	<b>302</b>	<b>0</b>	<b>139</b>	<b>0</b>	<b>48</b>
Samarahan	1	21	0	3	0	2
Asajaya	0	7	0	3	2	5
Simunjan	0	30	1	6	0	2
Serian	0	26	0	6	0	3
<b>SAMARAHAN</b>	<b>1</b>	<b>84</b>	<b>1</b>	<b>18</b>	<b>2</b>	<b>12</b>
Sri Aman	0	28	0	10	0	5
LubokAntu	0	23	0	2	0	1
<b>SRI AMAN</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>6</b>
Betong	0	43	0	5	0	7
Saratok	1	43	0	9	0	4
<b>BETONG</b>	<b>1</b>	<b>86</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>11</b>
Sarikei	0	29	0	31	0	9
Meradong	0	15	0	11	0	0
Pakan	0	7	0	14	0	4
Julau	0	8	0	11	0	0
<b>SARIKEI</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>67</b>	<b>0</b>	<b>13</b>
Daro	0	11	0	2	0	1
Matu	0	1	0	0	0	0
Dalat	0	7	0	0	0	1
Mukah	1	46	0	6	0	6
<b>MUKAH</b>	<b>1</b>	<b>65</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>8</b>
Sibu	1	142	0	39	0	27
Kanowit	2	26	0	7	0	6
Selangau	0	20	0	9	0	8
<b>SIBU</b>	<b>3</b>	<b>188</b>	<b>0</b>	<b>55</b>	<b>0</b>	<b>41</b>
Song	0	7	0	3	0	1
Kapit	0	29	0	14	0	18
Belaga	0	25	0	15	0	7
<b>KAPIT</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>26</b>
Tatau	0	20	1	13	0	4
Bintulu	1	91	2	108	0	16
<b>BINTULU</b>	<b>1</b>	<b>111</b>	<b>3</b>	<b>121</b>	<b>0</b>	<b>20</b>
Miri	11	214	6	61	1	21
Marudi	0	40	0	13	0	7
<b>MIRI</b>	<b>11</b>	<b>254</b>	<b>6</b>	<b>74</b>	<b>1</b>	<b>28</b>
Limbang	0	43	0	3	1	3
Lawas	0	17	0	1	0	8
<b>LIMBANG</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>11</b>
<b>Sarawak</b>	<b>19</b>	<b>1321</b>	<b>10</b>	<b>544</b>	<b>4</b>	<b>224</b>

EW = Epid. Week; Cum. = Cumulative figure

#### 7.4 Notified Tuberculosis (all forms) Patient Classification as on 15<sup>th</sup> December 2012.

District / Division	Patient Classification											
	Children		Health care worker				PUSPEN/Prison		Foreigner		Care Centre	
	EW 50	Cum.	*Exposed		*Not exposed		EW 50	Cum.	EW 50	Cum.	EW 50	Cum.
			EW 50	Cum.	EW 50	Cum.						
Lundu	0	1	0	3	0	3	0	0	1	8	0	0
Bau	0	0	0	1	0	1	0	0	0	0	0	0
Kuching	0	4	0	6	0	6	0	1	0	13	0	0
KUCHING	0	5	0	10	0	9	0	1	1	21	0	0
Samarahan	0	0	0	0	0	0	0	0	0	3	0	0
Asajaya	0	0	0	0	0	0	0	0	0	0	0	0
Simunjan	0	0	0	0	0	0	0	0	0	3	0	0
Serian	0	2	0	0	0	0	0	0	0	1	0	0
SAMARAHAN	0	2	0	0	0	0	0	0	0	6	0	0
Sri Aman	0	0	0	0	0	0	0	0	0	2	0	0
LubokAntu	0	1	0	0	0	0	0	0	0	0	0	0
SRI AMAN	0	1	0	0	0	0	0	0	0	2	0	0
Betong	0	1	0	0	0	0	0	0	0	0	0	0
Saratok	0	0	0	0	0	0	0	0	0	0	0	0
BETONG	0	1	0	0	0	0	0	0	0	0	0	0
Sarikei	0	2	0	3	0	3	0	0	0	4	0	0
Meradong	0	2	0	0	0	0	0	0	0	1	0	0
Pakan	0	0	0	0	0	0	0	0	0	0	0	0
Julau	0	0	0	0	0	0	0	0	0	0	0	0
SARIKEI	0	4	0	3	0	3	0	0	0	4	0	0
Daro	0	0	0	0	0	0	0	0	0	2	0	0
Matu	0	0	0	0	0	0	0	0	0	0	0	0
Dalat	0	0	0	1	0	1	0	0	0	0	0	0
Mukah	0	3	0	1	0	1	0	0	0	3	0	0
MUKAH	0	3	0	2	0	2	0	0	0	5	0	0
Sibu	0	11	0	4	0	4	0	1	0	4	0	0
Kanowit	0	0	0	0	0	0	0	0	1	2	0	0
Selangau	0	3	0	0	0	0	0	0	0	3	0	0
SIBU	0	14	0	4	0	4	0	1	1	9	0	0
Song	0	0	0	0	0	0	0	0	0	0	0	0
Kapit	0	10	0	1	0	1	0	0	0	4	0	0
Belaga	0	8	0	1	0	1	0	0	0	4	0	0
KAPIT	0	18	0	2	0	2	0	0	0	8	0	0
Tatau	1	3	0	0	0	0	0	0	0	16	0	0
Bintulu	0	35	0	3	0	3	0	0	2	43	0	0
BINTULU	1	38	0	3	0	3	0	0	2	59	0	0
Miri	0	3	0	2	0	2	0	1	1	27	0	0
Marudi	0	6	0	0	0	0	0	0	0	4	0	0
MIRI	0	9	0	2	0	2	0	1	1	31	0	0
Limbang	0	1	0	0	0	0	0	0	0	1	0	0
Lawas	0	0	0	1	0	1	0	0	0	0	0	0
LIMBANG	0	1	0	1	0	1	0	0	0	1	0	0
Sarawak	1	96	0	27	0	27	0	3	5	145	0	0

EW = Epid. Week; Cum. = Cumulative figure; KKM=Ministry of Health Malaysia

\* Possibility of exposed or not exposed to TB patient

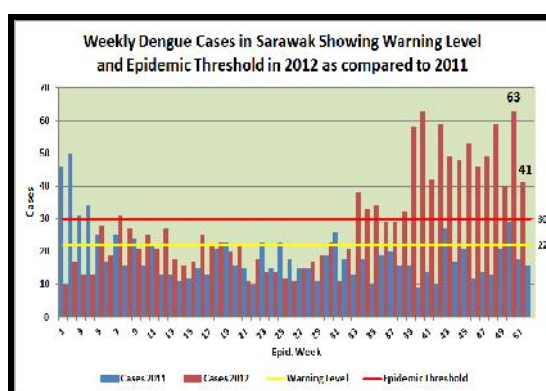
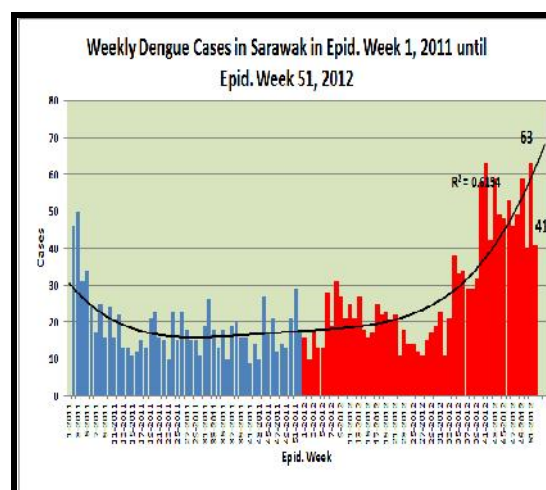
**Figure for TB notified cases are based on registered TB cases in e-Notifikasi system.**



## 8. SURVEILLANCE REPORT ON VECTOR BORNE DISEASES

### 8.1. Notified Dengue cases for Epid. Week 51, 2012 compared to Epid. Week 51, 2011 and cumulative cases until Epid. Week 51, 2012.

District	2012		2011		Total
	EW 51	Cum.	EW 51	Cum.	
Lundu	0	13	0	10	10
Bau	1	39	2	34	36
Kuching	1	160	0	104	106
Samarahan	1	36	0	21	21
Asajaya	0	7	0	4	4
Serian	0	22	0	18	18
Simunjan	1	18	1	18	19
Sri Aman	6	104	3	56	56
Lubok Antu	6	73	0	23	23
Betong	0	65	1	13	13
Saratok	1	35	0	10	11
Sarikei	1	48	2	28	28
Meradong	1	63	1	14	14
Pakan	1	57	0	23	23
Julau	1	48	0	17	17
Daro	0	7	0	6	6
Matu	0	9	0	1	1
Dalat	0	9	0	3	3
Mukah	0	13	0	5	5
Sibu	2	81	1	75	75
Kanowit	0	18	0	31	31
Selangau	0	9	0	10	10
Song	1	29	0	10	10
Kapit	6	87	2	30	32
Belaga	1	39	0	26	27
Tatau	1	36	1	47	47
Bintulu	2	115	1	100	100
Miri	3	124	2	127	134
Marudi	2	44	0	59	59
Limbang	0	28	0	20	20
Lawas	2	33	1	15	15
<b>Sarawak</b>	<b>41</b>	<b>1469</b>	<b>18</b>	<b>958</b>	<b>974</b>

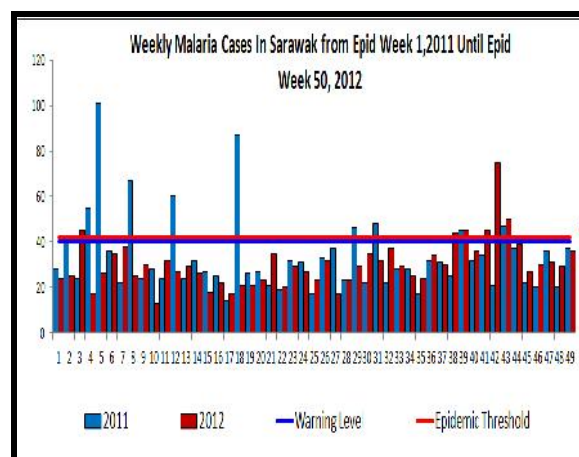
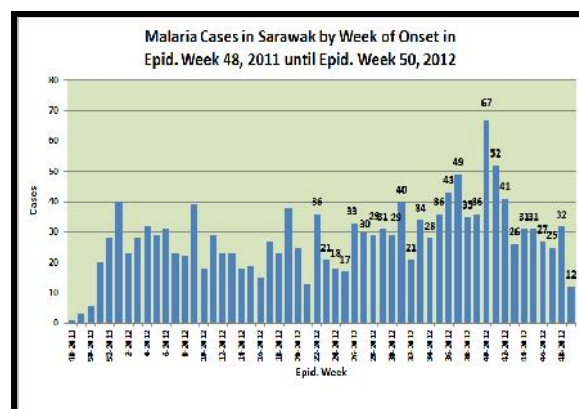
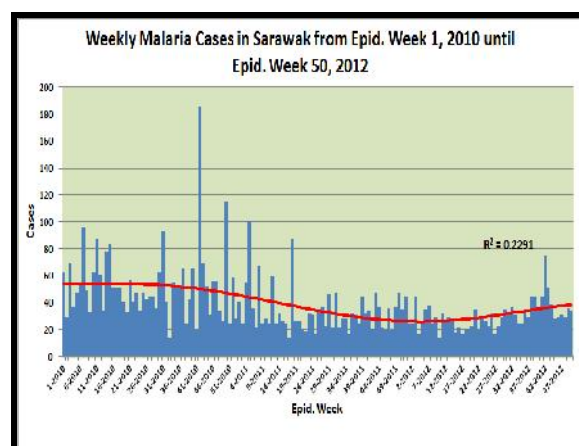


There is one new outbreak locality reported for Epid Week 51, from Marudi district. Three (3) outbreak localities were still active reported from Matu district(1) and Lubok Antu district (2).

EW = Epid. Week; Cum. = Cumulative figure

**8.2. Notified Malaria cases for Epid. Week 50, 2012 compared to Epid. Week 50, 2011 and cumulative cases until Epid. Week 50 in 2012.**

District	2012		2011		Total
	EW 50	Cum.	EW 50	Cum.	
Lundu	0	12	0	31	33
Bau	0	0	1	5	5
Kuching	0	18	0	23	23
Samarahan	0	3	0	3	3
Asajaya	0	0	0	1	1
Serian	0	6	0	21	21
Simunjan	1	9	0	2	2
Sri Aman	0	20	1	16	17
Lubok Antu	1	25	2	24	25
Betong	7	74	2	43	47
Saratok	2	37	0	3	3
Sarikei	0	18	0	16	16
Meradong	0	11	0	9	9
Pakan	3	65	1	28	29
Julau	4	89	1	65	69
Daro	0	6	0	2	2
Matu	0	1	1	2	2
Dalat	1	6	0	9	10
Mukah	0	2	0	2	2
Sibu	0	66	1	45	52
Kanowit	2	73	3	85	89
Selangau	0	38	1	16	16
Song	1	104	2	75	78
Kapit	7	224	6	214	230
Belaga	4	167	5	133	139
Tatau	1	30	0	29	34
Bintulu	0	30	1	39	39
Miri	0	28	1	39	40
Marudi	0	253	17	652	670
Limbang	0	29	1	21	21
Lawas	0	72	0	29	34
<b>Sarawak</b>	<b>34</b>	<b>1516</b>	<b>47</b>	<b>1682</b>	<b>1761</b>



A total of 34 cases were reported on Epid Week 50, 2012. Cumulative cases till Epid Week 50 were 1516 cases. Of the 1516 cases, 253 cases (17%) from Marudi District, 224 cases (15%) from Kapit District and 167 cases (11%) Belaga District.

Notes: 1) EW = Epid. Week; Cum. = cumulative figure; 2) All Malaria cases should be notified within 24 hours (Source: Vector Borne Disease Control Section, Sarawak Health Department)

### 8.2.1. Malaria cases by slide source

Slides source	2012	
	EW 50	Cum.
Passive Case Detection (PCD)	31	1351
Active Case Detection (ACD)	2	118
Investigation slides ( INV)	0	6
Mass Blood Survey (MBS)	0	11
Follow-up	1	30
<b>Total</b>	<b>34</b>	<b>1516</b>

### 8.2.2 Malaria cases by species and case classification

Species	Indigenous	Imported	Relapsed	EW50	Cum. 2012
<i>Plasmodium vivax</i>	3	2	1	6	420
<i>Plasmodium falciparum</i>	0	1	0	1	82
<i>Plasmodium malariae</i>	0	1	0	1	9
<i>Plasmodium knowlesi</i>	25	0	0	25	992
<i>Plasmodium ovale</i>	0	0	0	0	7
<i>Mixed infection</i>	0	0	0	0	6
<b>Total</b>	<b>28</b>	<b>4</b>	<b>1</b>	<b>34</b>	<b>1516</b>

### 8.2.3. The summary of the \*Imported A cases

No.	District reported	Source of infection	Outbreak Locality	Nationality	Age	Gender	Species
1	Kanowit	Indonesia	KKB N. Lesih, Kanowit	Indonesia	36	Female	<i>P. knowlesi</i>
2	Kapit	KKB Rimbunan Hijau Sima International, Afrika	S. Pelajau, R. Madang, Kapit	Malaysian	51	Male	<i>P. malariae</i>
3	Kapit	KKB Bata Sima NInternational, Afrika	Simpang Simon, Jln. S. Kapit, Kapit	Malaysian	44	Male	<i>P. vivax</i>
4	Dalat	Kem Pembalakan Aset Meriah, Kimbe, PNG	Kg. S. Ud Dalat, Dalat	Malaysian	28	Male	<i>P. falciparum</i>
5	Belaga	Selakau, Sambas, Indonesia	Ldg. Sawit Sepakau 1 SOPB, Asap, Belaga	Indonesia	29	Male	<i>P. vivax</i>

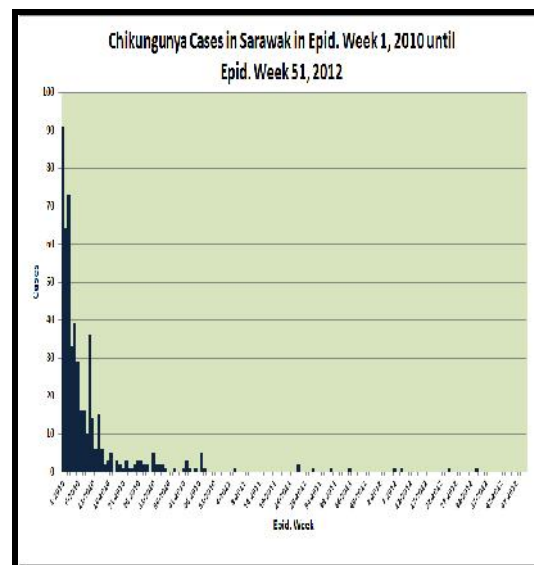
KKB = Kem Kayu Balak (Logging Camp)

**Case Definition Imported A** = Source of infection from other country



**8.3. Notified Chikungunya cases for Epid. Week 51, 2012 compared to Epid. Week 51, 2011 and cumulative cases until Epid. Week 51 in 2012.**

District	2012		2011		Total
	EW 51	Cum.	EW 51	Cum.	
Lundu	0	0	0	0	0
Bau	0	0	0	0	0
Kuching	0	0	0	1	1
Samarahan	0	0	0	0	0
Asajaya	0	1	0	1	1
Serian	0	0	0	1	1
Simunjan	0	0	0	0	0
Sri Aman	0	0	0	0	0
Lubok Antu	0	1	0	0	0
Betong	0	0	0	1	1
Saratok	0	0	0	0	0
Sarikei	0	0	0	0	0
Meradong	0	0	0	0	0
Pakan	0	0	0	0	0
Julau	0	0	0	0	0
Daro	0	0	0	1	1
Matu	0	0	0	0	0
Dalat	0	0	0	0	0
Mukah	0	0	0	0	0
Sibu	0	0	0	0	0
Kanowit	0	0	0	0	0
Selangau	0	0	0	0	0
Song	0	1	0	0	0
Kapit	0	0	0	0	0
Belaga	0	1	0	0	0
Tatau	0	0	0	0	0
Bintulu	0	0	0	0	0
Miri	0	0	0	0	0
Marudi	0	0	0	1	1
Limbang	0	0	0	0	0
Lawas	0	0	0	0	0
<b>Sarawak</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>6</b>



EW = Epid. Week; Cum. = Cumulative figure

#### 8.4. Filariasis

One case of Filariasis was reported in Epid Week 51, 2012. During the same period in 2011, no case was reported. The cumulative case of Filariasis for 2012 is 40 cases.

#### 8.5 Japanese Encephalitis (JE)

No case of Japanese Encephalitis (JE) was reported in Epid Week 51, 2012. During the same period in 2011, no case was reported. The cumulative case of Japanese Encephalitis for 2012 is remained 11 cases.

### 9. SURVEILLANCE REPORT ON OTHER INFECTIOUS DISEASES

#### 9.1. Viral Encephalitis

No case reported. As at 22<sup>nd</sup> December 2012, only one case of Viral Encephalitis reported.

#### 9.2. Viral Hepatitis (all form)

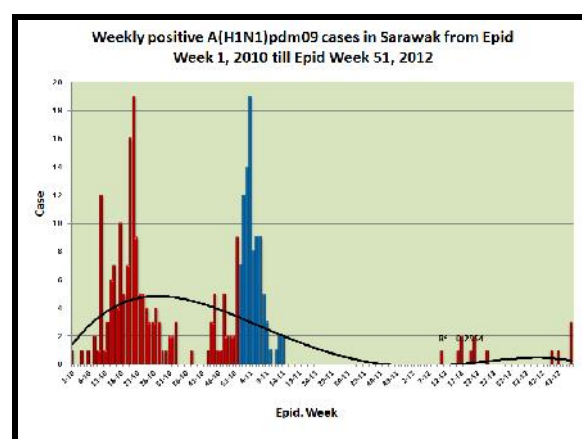
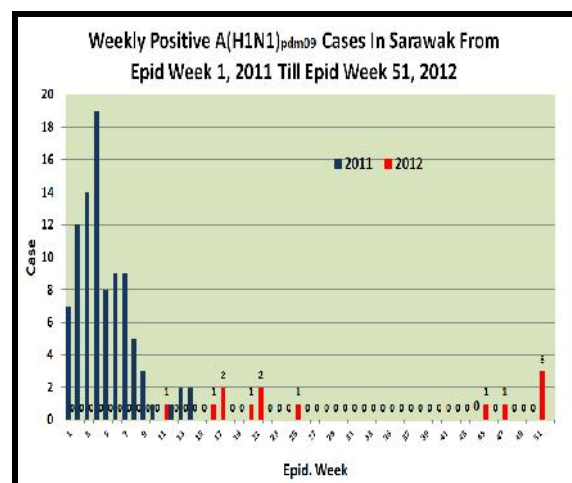
No	Type of Viral Hepatitis	Epid Week 51	Cum. 2012
1	Hepatitis A	0	3
2	Acute Hepatitis B	4	30
3	Chronic Hepatitis B	1	64
4	Acute Hepatitis C	22	38
5	Chronic Hepatitis C	3	32

## 10. EMERGING/RE-EMERGING INFECTIOUS AND ZONOTIC DISEASES

### 10.1. A/H1N1<sub>pdm09</sub>

#### 10.1.1 Positive Pandemic Influenza A/H1N1<sub>pdm09</sub> as for Epid. Week 51, 2012 compared to Epid. Week 51, 2011 and cumulative cases until Epid. Week 51 in 2012.

District	2012		2011		Total
	EW 51	Cum.	EW 51	Cum.	
Lundu	0	0	0	2	2
Bau	0	0	0	0	0
Kuching	3	5	0	51	51
Samarahan	0	0	0	0	0
Simunjan	0	0	0	0	0
Serian	0	0	0	0	0
Sri Aman	0	0	0	0	0
Lubok Antu	0	0	0	0	0
Betong	0	0	0	1	1
Saratok	0	0	0	0	0
Sarikei	0	0	0	0	0
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	0	0	1	1
Kanowit	0	0	0	0	0
Song	0	0	0	0	0
Kapit	0	0	0	0	0
Belaga	0	2	0	2	2
Tatau	0	1	0	0	0
Bintulu	0	5	0	26	26
Miri	0	0	0	6	6
Marudi	0	0	0	0	0
Limbang	0	0	0	2	2
Lawas	0	0	0	1	1
<b>SARAWAK</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>92</b>	<b>92</b>



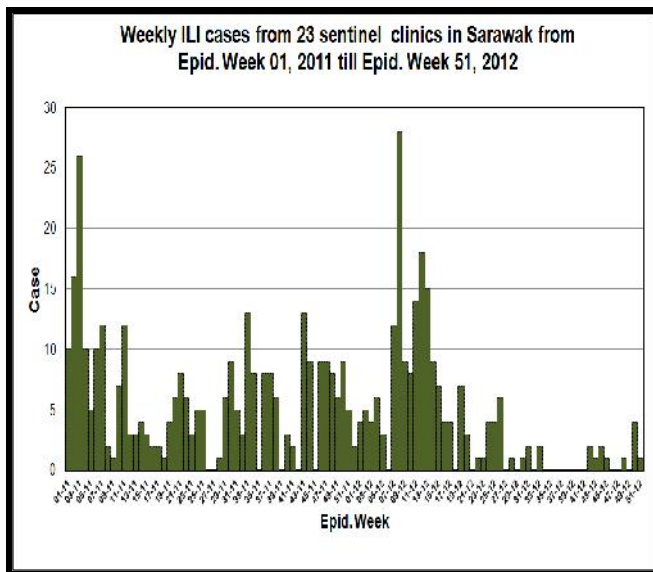
Age Group (Year)	Gender	
	Male	Female
Less Than 1yr	1	1
1-6	4	3
7-12	0	0
13-19	0	0
20-30	0	3
31-40	1	0
41-50	0	0
More than 50 yrs	0	0

*Positive H1N1 Cases by Age Group and Gender*

EW = Epid. Week; Cum. = cumulative figure

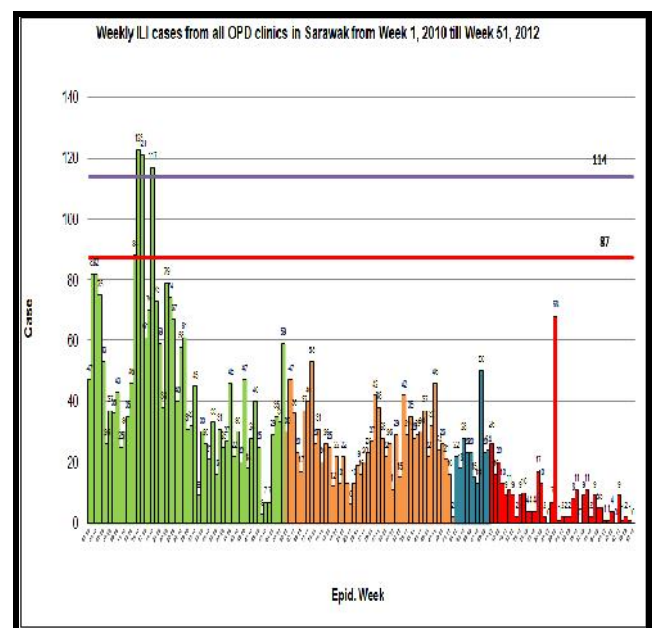
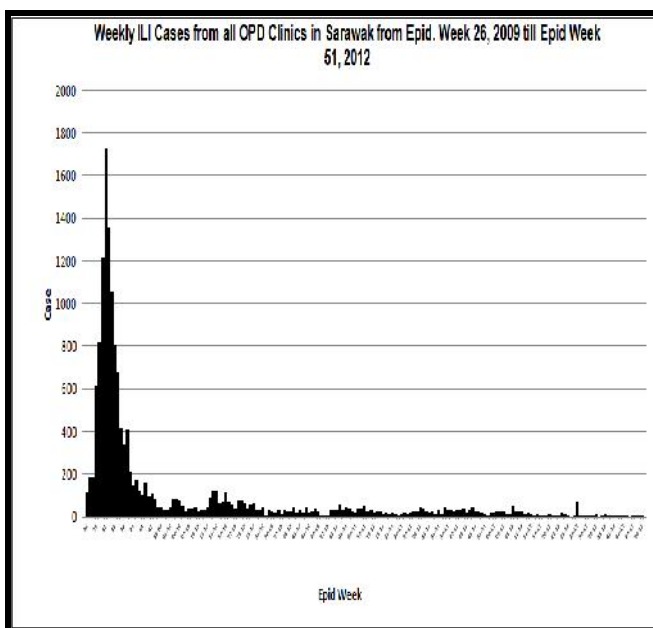


### 10.1.2 Outpatient Influenza-Like Illness (ILI) Surveillance from Epid.Week 1 in 2010 till Epid. Week 51 in 2012.



In Epid. Week 51, 2012, one case of ILI reported from 22 Sentinel clinics and no case from OPD clinics.

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

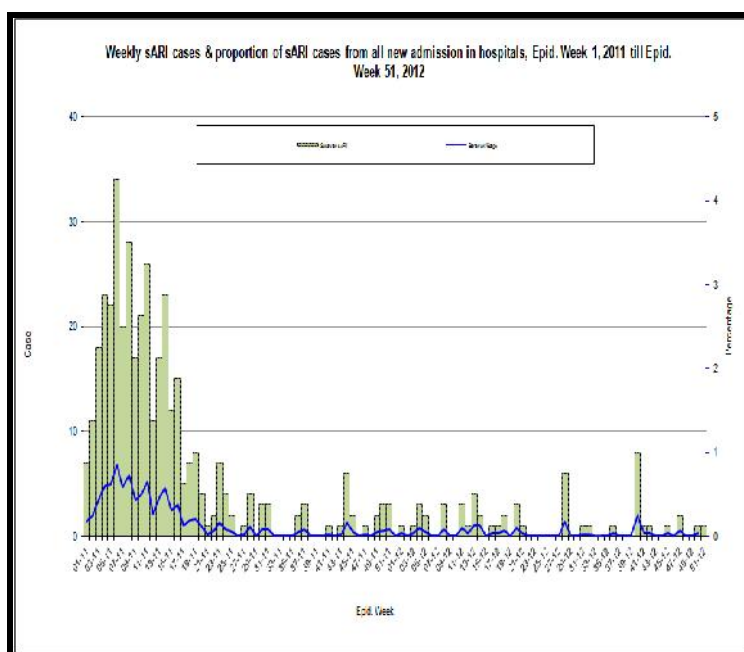


Referring to a letter dated 25 January 2011 from Office of the Deputy Director-General of Health (Public Health), Department of Public Health, Ministry of Health Malaysia about **PEMANTAUAN AKTIVITI A/H1N1pdm09 SECARA BERTERUSAN**, all PKB/PKD must send their daily H1N1 report as well as ILI and sARI surveillance activities to Operations Room, CPRC Unit, CDC Section, Sarawak Health Department **BEFORE 10.00 am every day**.

### 10.1.3. New and Cumulative ILI Clusters as of 22<sup>nd</sup> December 2012.

No ILI cluster reported. The last cluster was on 3<sup>rd</sup> November 2011.

#### 10.1.4. 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)

#### 10.1.5. Weekly Summary Report on sARI Admission in Government Hospitals in Sarawak as on 22<sup>nd</sup> November 2012.

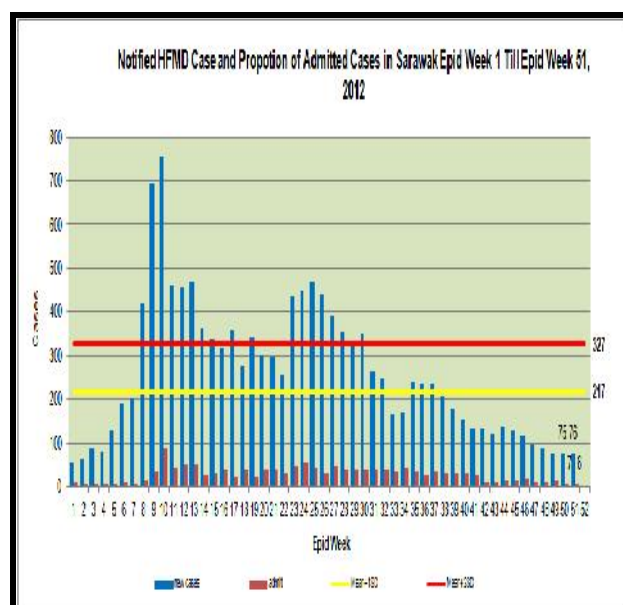
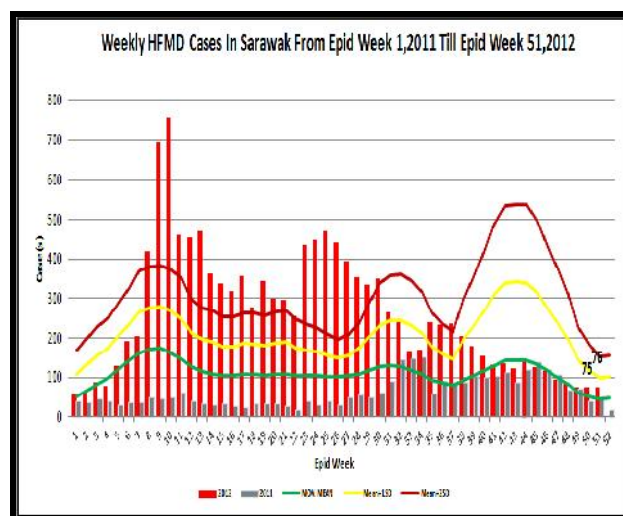
Division	Hospital	New EW 51	Cumulative 2012	No. of Inpatient			No. of Patient on Ventilator	Throat swabs		
				ICU	ISO	Other wards		Positive	Pending	Negative
Kuching	SGH Kuching	1	45	0	0	1	0	1	0	0
	Bau	0	1	0	0	0	0	0	0	0
	Lundu	0	0	0	0	0	0	0	0	0
	RCBM	0	0	0	0	0	0	0	0	0
	Sentosa	0	0	0	0	0	0	0	0	0
Samarahan	Serian	0	0	0	0	0	0	0	0	0
	Simunjan	0	0	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	109	0	0	1	0	0	1	0
Miri	Miri	0	1	0	0	0	0	0	0	0
	Marudi	0	0	0	0	0	0	0	0	0
Limbang	Limbang	0	0	0	0	0	0	0	0	0
	Lawas	0	0	0	0	0	0	0	0	0
Total		2	157	0	0	2	0	1	1	0

EW = Epid. Week; Cum. = Cumulative figure

Two sARI cases were reported in Epid Week 51, 2012 from Sarawak General Hospital, Kuching (1) and Bintulu Hospital (1). The result from SGH, Kuching is positive for H1N1 and from Bintulu is still pending.

**10.2. Notified HFMD (Masterlist) cases for Epid. Week 51, 2012 compared to Epid. Week 51, 2011 and cumulative cases in Epid. Week 51, 2011.**

District / Division	2012		2011		Total
	EW 51	Cum.	EW 51	Cum.	
Lundu	2	258	0	31	31
Bau	4	394	2	149	149
Kuching	24	3897	5	599	602
<b>KUCHING</b>	<b>30</b>	<b>4549</b>	<b>7</b>	<b>779</b>	<b>782</b>
Samarahan	2	695	0	127	127
Asajaya	1	92	0	35	35
Simunjan	1	219	0	19	19
Serian	3	733	2	39	39
<b>SAMARAHAN</b>	<b>7</b>	<b>1739</b>	<b>2</b>	<b>220</b>	<b>220</b>
Sri Aman	1	483	0	97	97
Lubok Antu	2	82	1	18	18
<b>SRI AMAN</b>	<b>3</b>	<b>565</b>	<b>1</b>	<b>115</b>	<b>115</b>
Betong	4	383	1	57	57
Saratok	5	276	0	36	37
<b>BETONG</b>	<b>9</b>	<b>659</b>	<b>1</b>	<b>93</b>	<b>94</b>
Sarikei	2	533	0	187	188
Meradong	5	197	0	73	73
Pakan	0	94	0	7	7
Julau	0	133	0	32	32
<b>SARIKEI</b>	<b>7</b>	<b>957</b>	<b>0</b>	<b>299</b>	<b>300</b>
Daro	0	132	0	7	7
Matu	1	87	0	4	4
Dalat	1	120	0	42	42
Mukah	0	162	0	84	84
<b>MUKAH</b>	<b>2</b>	<b>501</b>	<b>0</b>	<b>137</b>	<b>137</b>
Sibu	8	930	1	149	149
Kanowit	0	47	0	22	22
Selangau	3	42	0	6	6
<b>SIBU</b>	<b>11</b>	<b>1019</b>	<b>1</b>	<b>177</b>	<b>177</b>
Song	0	62	1	12	12
Kapit	1	407	11	64	64
Belaga	0	127	0	55	55
<b>KAPIT</b>	<b>1</b>	<b>596</b>	<b>12</b>	<b>131</b>	<b>131</b>
Tatau	1	102	0	25	25
Bintulu	0	834	11	741	747
<b>BINTULU</b>	<b>1</b>	<b>936</b>	<b>11</b>	<b>766</b>	<b>772</b>
Miri	5	1224	9	318	324
Marudi	0	116	0	49	49
<b>MIRI</b>	<b>5</b>	<b>1340</b>	<b>9</b>	<b>367</b>	<b>373</b>
Limbang	0	452	0	65	65
Lawas	0	104	0	4	4
<b>LIMBANG</b>	<b>0</b>	<b>556</b>	<b>0</b>	<b>69</b>	<b>69</b>
<b>SARAWAK</b>	<b>76</b>	<b>13417</b>	<b>44</b>	<b>3153</b>	<b>3170</b>



EW = Epid. Week; Cum. = Cumulative figure

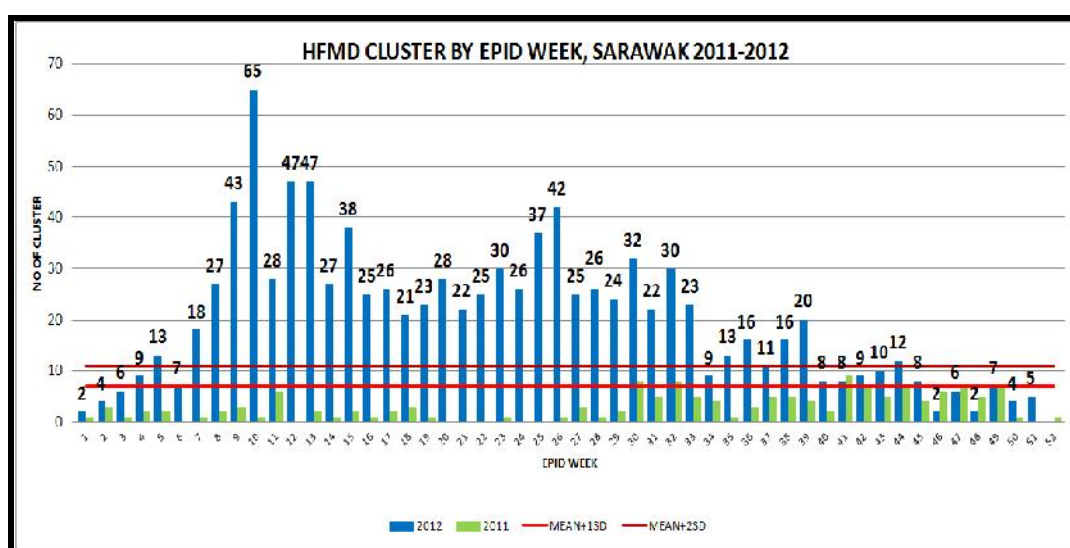


**10.2.1 Comparison of total number of notified HFMD cases and registered HFMD cases in e-Notifikasi system by district as at 22<sup>nd</sup> December 2012.**

District	Masterlist		Registered Case		Back Log	
	EW 51	Total	EW 51	Total	EW 51	Total
Kuching	24	3897	24	3897	0	0
Bau	4	394	4	394	0	0
Lundu	2	258	1	257	1	1
<b>KUCHING</b>	<b>30</b>	<b>4549</b>	<b>29</b>	<b>4548</b>	<b>1</b>	<b>1</b>
Samarahan	2	695	0	659	2	36
Asajaya	1	92	1	96	0	-4
Simunjan	1	219	0	210	1	9
Serian	3	733	3	733	0	0
<b>SAMARAHAN</b>	<b>7</b>	<b>1739</b>	<b>4</b>	<b>1698</b>	<b>3</b>	<b>41</b>
Sri Aman	1	483	0	482	3	1
Lubok Antu	2	82	0	75	1	7
<b>SRI AMAN</b>	<b>3</b>	<b>565</b>	<b>0</b>	<b>557</b>	<b>4</b>	<b>8</b>
Betong	4	383	6	385	-2	-2
Saratok	5	276	7	278	-2	-2
<b>BETONG</b>	<b>9</b>	<b>659</b>	<b>13</b>	<b>663</b>	<b>-4</b>	<b>-4</b>
Sarikei	2	533	0	481	2	52
Meradong	5	197	0	194	5	3
Pakan	0	94	0	89	0	5
Julau	0	133	0	130	0	3
<b>SARIKEI</b>	<b>7</b>	<b>957</b>	<b>0</b>	<b>894</b>	<b>7</b>	<b>63</b>
Daro	0	132	0	128	0	4
Matu	1	87	0	63	1	24
Mukah	0	162	0	162	0	0
Dalat	1	120	0	106	1	14
<b>MUKAH</b>	<b>2</b>	<b>501</b>	<b>0</b>	<b>459</b>	<b>2</b>	<b>42</b>
Sibu	8	930	10	932	-2	-2
Selangau	3	42	3	42	0	0
Kanowit	0	47	0	46	0	1
<b>SIBU</b>	<b>11</b>	<b>1019</b>	<b>13</b>	<b>1020</b>	<b>-2</b>	<b>-1</b>
Kapit	1	407	1	420	0	-13
Song	0	62	0	62	0	0
Belaga	0	127	0	152	0	-25
<b>KAPIT</b>	<b>1</b>	<b>596</b>	<b>1</b>	<b>634</b>	<b>0</b>	<b>-38</b>
Bintulu	0	834	3	911	-3	-77
Tatau	1	102	0	118	1	-16
<b>BINTULU</b>	<b>1</b>	<b>936</b>	<b>3</b>	<b>1029</b>	<b>-2</b>	<b>-93</b>
Miri	5	1224	0	1189	5	35
Marudi	0	116	0	120	0	-4
<b>MIRI</b>	<b>5</b>	<b>1340</b>	<b>0</b>	<b>1309</b>	<b>5</b>	<b>31</b>
Limbang	0	452	0	452	0	0
Lawas	0	104	0	104	0	0
<b>LIMBANG</b>	<b>0</b>	<b>556</b>	<b>0</b>	<b>556</b>	<b>0</b>	<b>0</b>
<b>SARAWAK</b>	<b>76</b>	<b>13417</b>	<b>63</b>	<b>13367</b>	<b>14</b>	<b>50</b>

### 10.2.2. HFMD Clusters and closure

Division	Cluster		Closure	
	EW51	Cum	EW51	Cum
Kuching	3	373	0	59
Samarahan	0	112	0	14
Sri Aman	0	19	0	0
Betong	1	52	0	10
Sarikei	1	121	0	28
Mukah	0	40	0	7
Sibu	0	68	0	0
Kapit	0	31	0	0
Bintulu	0	41	0	8
Miri	0	103	0	2
Limbang	0	80	0	6
<b>Sarawak</b>	<b>5</b>	<b>1040</b>	<b>0</b>	<b>134</b>



Division	Category of HFMD Clusters in 2012				Total
	Family	School	Pre School	Child Care Centre	
Kuching	305	19	34	15	373
Samarahan	97	2	10	3	112
Sri Aman	18	1	0	0	19
Betong	42	1	7	2	52
Sarikei	93	3	17	8	121
Mukah	30	5	5	0	40
Sibu	50	1	12	5	68
Kapit	30	1	0	0	31
Bintulu	32	0	6	3	41
Miri	101	0	1	1	103
Limbang	49	10	18	3	80
<b>Total</b>	<b>847</b>	<b>43</b>	<b>110</b>	<b>40</b>	<b>1040</b>

**10.3. Notified Leptospirosis cases for Epid. Week 51, 2012 compared to Epid. Week 51, 2011 and cumulative cases till Epid.Week 51 in 2012.**

District / Division	Case classification				Total		
	Confirmed		Probable		2012	2011	2010
	EW (51) 2012	EW (51) 2011	EW (51) 2012	EW (51) 2011			
Lundu	0	0	0	1	4	6	0
Rau	0	0	0	0	9 (2)	5 (1)	1
Kuching	0	0	1	2	74 (2)	40 (2)	12
<b>KUCHING</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>87 (4)</b>	<b>51 (3)</b>	<b>13</b>
Samarahan	0	0	1	0	12	3	1
Asajaya	0	0	0	0	0	3	0
Simunjan	0	0	0	1(1)	4	8 (1)	1
Serian	0	0	0	1(1)	4	10 (2)	2
<b>SAMARAHAN</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2(2)</b>	<b>20</b>	<b>24 (3)</b>	<b>4</b>
Sri Aman	0	0	0	0	14	14 (2)	1
Lubok Antu	0	0	0	0	15	11	3 (1)
<b>SRI AMAN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>25 (2)</b>	<b>4 (1)</b>
Betong	0	0	0	0	8	5 (1)	0
Saratok	0	0	0	0	4	6 (1)	0
<b>BETONG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>11 (2)</b>	<b>0</b>
Sarikei	0	0	0	0	6 (1)	1	1
Meradong	0	0	0	0	2	24	1
Pakan	0	0	0	0	4 (1)	3	1
Julau	0	0	0	0	1	0	1
<b>SARIKEI</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13 (2)</b>	<b>28</b>	<b>4</b>
Daro	0	0	0	0	1 (1)	1 (1)	1
Matu	0	0	0	0	0	0	0
Dalat	0	0	0	0	0	0	0
Mukah	0	0	0	0	0	3	1
<b>MUKAH</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4 (1)</b>	<b>2</b>
Sibu	0	0	0	0	2	2	6
Kanowit	0	0	0	0	6 (1)	4	1
Selangau	0	0	0	0	2	3	0
<b>SIBU</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10 (1)</b>	<b>9</b>	<b>7</b>
Song	0	0	0	0	1	1	2
Kapit	0	0	0	1	50	12	1
Belaga	0	0	0	1	4 (1)	7 (1)	0
<b>KAPIT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>55</b>	<b>20 (1)</b>	<b>3</b>
Tatau	0	0	0	0	2	1	0
Dintulu	0	1	1	0	7	10 (2)	6
<b>BINTULU</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>11 (2)</b>	<b>6</b>
Miri	0	0	0	0	10	16 (1)	3
Marudi	0	0	0	0	2	2	2
<b>MIRI</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>18 (1)</b>	<b>5</b>
Limbang	0	0	0	0	21 (1)	2 (1)	1
Lawas	0	0	0	0	0	0	0
<b>LIMBANG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21 (1)</b>	<b>2 (1)</b>	<b>1</b>
<b>SARAWAK</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>7(2)</b>	<b>269 (10)</b>	<b>203 (16)</b>	<b>49 (1)</b>

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 indicates source of infection.

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



### 10.3.1 Locality of Leptospirosis Cluster in Sarawak Epid. Week 1 until Epid. Week 51, 2012

No.	District	Locality	Number of Cases	Outbreak Declared
1	Kuching/Kota Belud	Kem Semenggo/Kem Paradise	13	20/02/2012
2	Limbang	Setuan, Tapak Kajian Pembinaan Empangan Baru	4	22/02/2012
3	Samarahan	Kpg. Entingan, Samarahan	2	08/06/2012
4	Meradong	Ulu Sg. Sebuloh	2	19/06/2012
5	Kuching	Pusat Latihan Polis (PULAPOL), Jalan Puncak Borneo, Kuching	22	20/07/2012
6	Bau	Taman Dayu, Jalan Sebuloh Cina, Bau	2	14/09/2012
7	Kuching	Kem Semenggo (Training at Kampung Serasot, Bau)	3	04/12/2012

#### 10.4. Notified Melioidosis cases for Epid. Week 51, 2011 compared to Epid. Week 51, 2011 and cumulative cases until Epid. Week 51, 2012

District / Division	Case classification				Total		
	Confirmed		Probable		2012	2011	2010
	EW (51) 2012	EW (51) 2011	EW (51) 2012	EW (51) 2011			
Lundu	0	0	0	0	0	0	0
Bau	0	0	0	0	0	1	0
Kuching	0	0	0	0	3	4	12 (1)
<b>KUCHING</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>5</b>	<b>12 (1)</b>
Samarahan	0	0	0	0	1	0	0
Asajaya	0	0	0	0	0	0	0
Simunjan	0	0	0	0	0	0	0
Serian	0	0	0	0	0	2 (1)	1 (1)
<b>SAMARAHAN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>1 (1)</b>
Sri Aman	0	0	0	0	0	3	0
Lubok Antu	0	0	0	0	1	1	0
<b>SRI AMAN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>
Betong	0	0	0	0	0	0	2
Saratok	0	0	0	0	0	0	1 (1)
<b>BETONG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3 (1)</b>
Sarikei	0	0	0	0	0	0	2
Meradong	0	0	0	0	0	0	2
Pakan	0	0	0	0	1	0	0
Julau	0	0	0	0	0	0	2
<b>SARIKEI</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>6</b>
Daro	0	0	0	0	0	0	0
Matu	0	0	0	0	0	0	0
Dalat	0	0	0	0	1	0	1
Mukah	0	0	0	0	1	2	3 (1)
<b>MUKAH</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>4 (1)</b>
Sibu	0	0	0	0	0	1	5 (1)
Kanowit	0	0	0	0	0	1	1
Selangau	0	0	0	0	1 (1)	4	6 (2)
<b>SIBU</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>12 (3)</b>
Song	0	0	0	0	0	1	7 (2)
Kapit	0	0	0	0	28	62 (3)	162 (1)
Belaga	0	0	0	0	0	21 (4)	28 (1)
<b>KAPIT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>84 (7)</b>	<b>197 (4)</b>
Tatau	0	0	0	0	0	4 (1)	14 (4)
Bintulu	0	0	0	0	0	6	49 (1)
<b>BINTULU</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10 (1)</b>	<b>63 (5)</b>
Miri	0	0	0	0	2	7 (2)	31 (1)
Marudi	0	0	0	0	0	1	7
<b>MIRI</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>8 (2)</b>	<b>42 (1)</b>
Limbang	0	0	0	0	0	0	2
Lawas	0	0	0	0	0	0	1 (1)
<b>LIMBANG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3 (1)</b>
<b>SARAWAK</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40 (1)</b>	<b>121 (11)</b>	<b>343 (18)</b>

Note: ( ) Death; EW = Epid. Week  
District indicates source of infection

##### 10.4.1 Melioidosis Death case (Positive) 2012

No.	# District	® Hospital	Age	Race	Gender	Date Of Death	Concurrent Medical Illness	Occupation
1	Selangau	Sibu	48	Iban	Female	09/02/12	DM, HPT & Asthma	Farmer

\* SGH = Sarawak General Hospital

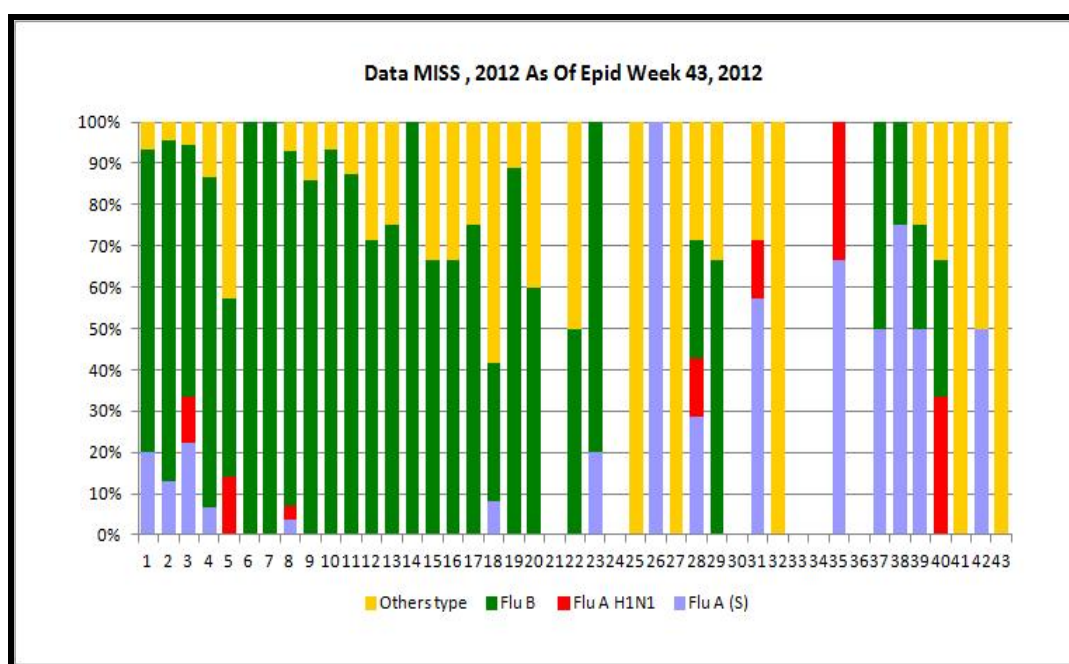
Note

: # District indicate patient's current place of residence or workplace

® Hospital indicate facility where patient admitted

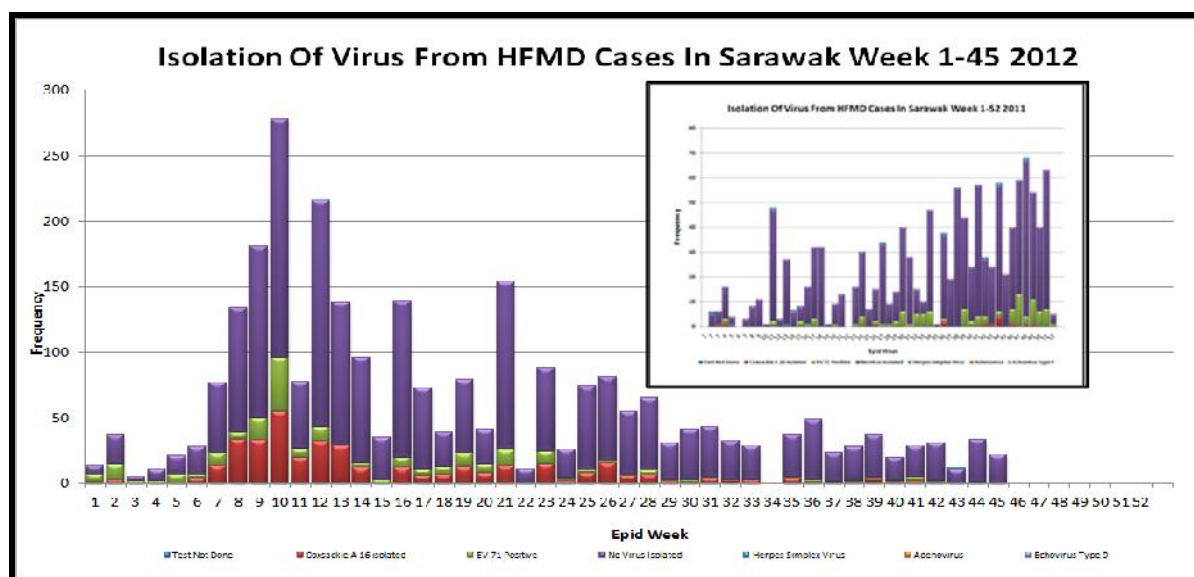
## 11. LABORATORY BASED SURVEILLANCE

### 11.1. Malaysia Influenza Surveillance System (MISS) (not included Sabah\*) from Epid Week 1 till Epid Week 43, 2012.

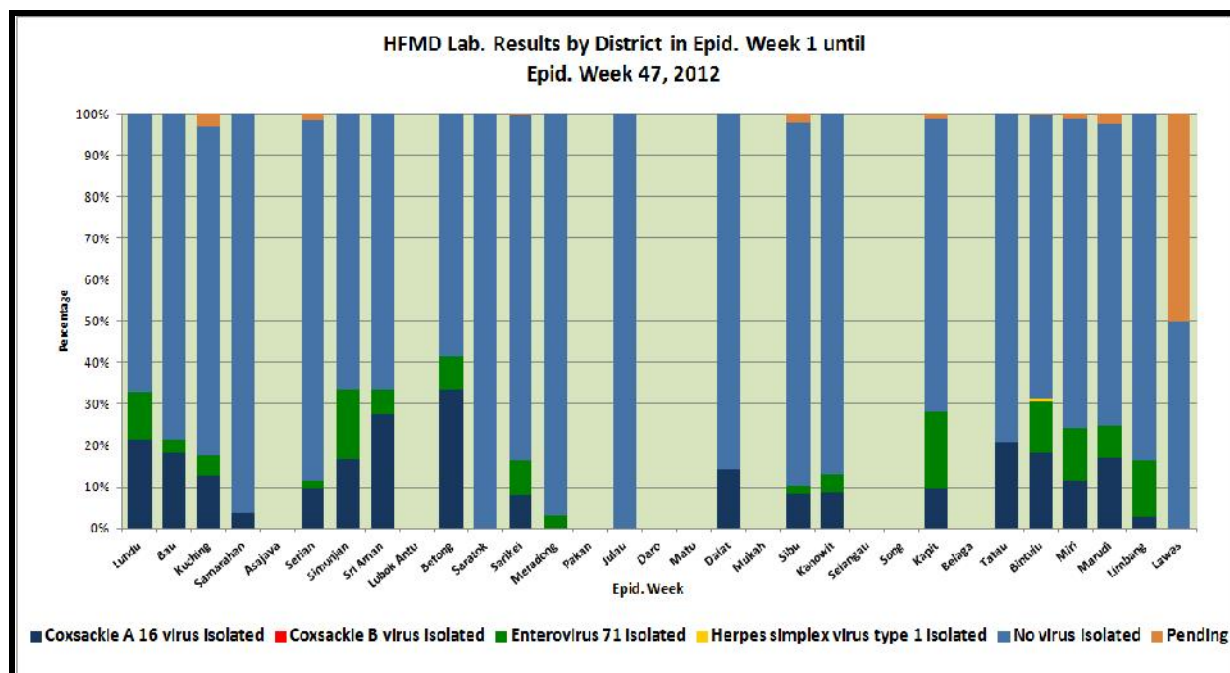


\* specimen from Sabah were analysed at MKAK Kota Kinabalu, Sabah.

### 11.3. Laboratory Based Surveillance HFMD, EW 1- EW 45, 2012 compared to 2011 in Sarawak.



As of 22<sup>nd</sup> December, 2012, 2816 HFMD samples sent to MKAK Sg Buloh. Out of this, 2772 samples with result, 44 still pending and one sample was rejected. A total of 575 (22.2%) virus isolated of which 378 Coxsackie A16 (64.0%), 210 EV 71 (35.5%), one Coxsackie B (0.2%) and two Herpes Simplex Type 1 (0.2%)



## Appendix 1

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 9<sup>th</sup> 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 22<sup>nd</sup> December 2012)

No	Name/Designation	Office Address	E-mail Address	Tel./Fax/Handphone No.
1	Ketua Penolong Pengarah Kanan Dr. Razitasham Binti Safii	Seksyen Kawalan Penyakit Berjangkit Jabatan Kesihatan Negeri Sarawak	razitasham@srwk.moh.gov.my	Tel : 082-473200/277 Fax : 082-443098 Hp : 013-8047635
2	Ketua Penolong Pengarah Dr. Noorzilawati Binti Sahak	Seksyen Kawalan Penyakit Berjangkit Jabatan Kesihatan Negeri Sarawak	drnoorzilawati@gmail.com	Tel : 082-473200/276 Fax : 082-443098 Hp : 014-6999126
3	Pegawai Kesihatan Bahagian Kuching Dr. Kamarudin Lajim	Pejabat Kesihatan Bahagian Kuching, Jalan Tun Ahmad Zaidi Adruce, 93250 Kuching	dhoshan@yahoo.com.sg	Tel : 082-238635/257867 Fax : 082-414542/250037 Hp : 013-8014332
4	Pegawai Epidemiologi Bahagian Kuching Dr. Ruziana Miss	Pejabat Kesihatan Bahagian Kuching, Jalan Tun Ahmad Zaidi Adruce, 93250 Kuching	druzziyan@yahoo.com.my	Tel : 082-238635/257867 Fax : 082-414542/250037 Hp : 019-8356456
5	Pegawai Kesihatan Bahagian Samarahan Dr. Julaidah Sharip	Pejabat Kesihatan Bahagian Samarahan Jalan Datuk Muhammad Musa, 94300 Kota Samarahan	julaidah.s@srwk.moh.gov.my	Tel : 082-673626 Fax : 082-673632 Hp : 019-8270869
6	Pegawai Kesihatan Bahagian Sri Aman Dr. Nor Rafizah Aminah bte Aziz	Pejabat Kesihatan Bahagian Sri Aman Tingkat 3, Wisma Persekutuan, Jalan Hospital, 95007 Sri Aman	rafizah76@gmail.com	Tel : 083-322176 Fax : 083-322058 Hp : 012-2110315
7	Pegawai Kesihatan Bahagian Betong Dr. Jeffery Stephen	Pejabat Kesihatan Bahagian Betong KM 2, Jalan Betong, 95700 Betong	endena90@yahoo.com	Tel : 083-472116 Fax : 083-471870 Hp : 019-8584053
8	Pegawai Kesihatan Bahagian Sarikei Dr. Hasrina Hassan	Pejabat Kesihatan Bahagian Sarikei Tingkat 3, Wisma Persekutuan, 96100 Sarikei	hasrina@srwk.moh.gov.my	Tel : 084-651077 Fax : 084-654088 Hp : 013-3403363
9	Pegawai Kesihatan Bahagian Sibu Dr. Muhamad Rais Abdullah	Pejabat Kesihatan Bahagian Sibu Tingkat 5, Wisma Persekutuan, Persiaran Brooke, 96000 Sibu	mdrais@srwk.moh.gov.my	Tel : 084-315494 Fax : 084-348284 Hp : 019-8196459
10	Pegawai Kesihatan Bahagian Kapit Dr. Ngian Hie Ung	Pejabat Kesihatan Bahagian Kapit Tingkat 3, Wisma Persekutuan, 96800 Kapit	ngianhu@srwk.moh.gov.my	Tel : 084-796404 Fax : 084-332502 Hp : 017-8030839
11	Pegawai Kesihatan Bahagian Mukah Dr. Hj. Osman Hj. Rafaie	Pejabat Kesihatan Bahagian Mukah Jalan Haji Muhammad Pauzi 96400 Mukah	dho_mukah@yahoo.com	Tel : 084-873301 Fax : 084-872963 Hp : 013-8014700
12	Pegawai Epidemiologi Bahagian Mukah Dr. Nik Daliana Bt. Nik Farid	Pejabat Kesihatan Bahagian Mukah Jalan Haji Muhammad Pauzi 96400 Mukah	daliana75@gmail.com	Tel : 084-873301 Fax : 084-872963 Hp : 012-2779250
13	Pegawai Kesihatan Bahagian Bintulu Dr. Azlee Bin Ayub	Pejabat Kesihatan Bahagian Bintulu Jalan Tun Ahmad Zaidi Adruce, 97000 Bintulu	azlee@srwk.moh.gov.my	Tel : 086-317269 Fax : 086-312354 Hp : 016-8625257
14	Pegawai Kesihatan Bahagian Miri Dr. Faizul Mansoor	Pejabat Kesihatan Bahagian Miri Jalan Temenggong Oyong Lawai Jau, 98000 Miri	bmfaizul@srwk.moh.gov.my	Tel : 086-424722 Fax : 086-429987 Hp : 013-8335504
15	Pegawai Epidemiologi Bahagian Miri Dr. Veronica Lugah	Pejabat Kesihatan Bahagian Miri Jalan Temenggong Oyong Lawai Jau, 98000 Miri	verolugah@yahoo.com	Tel : 086-424722 Fax : 086-429987 Hp : 019-6061847
16	Pegawai Kesihatan Bahagian Limbang Dr. Norliza Jusoh	Pejabat Kesihatan Bahagian Limbang Jalan Pandaruan, 98700 Limbang	norlizaj@srwk.moh.gov.my	Tel : 085-211046 Fax : 085-429987 Hp : 019-8163163

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PPKP, STD/AIDS Section

PPKP, TBCLP/LCP Section

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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.