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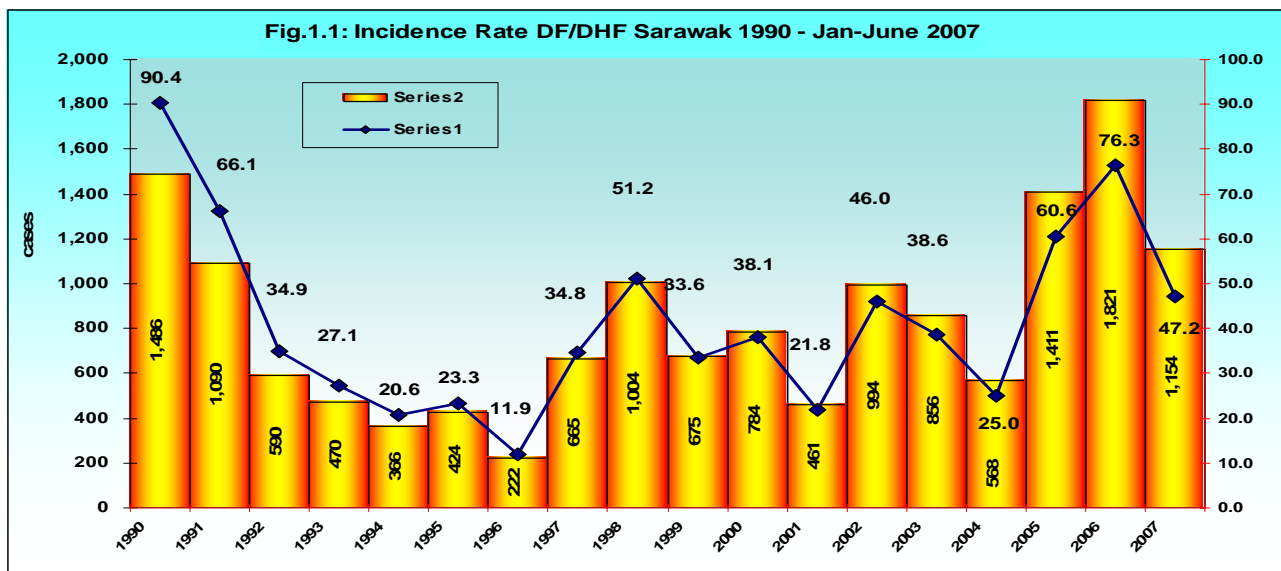
SARAWAK STATE HEALTH DEPARTMENT EPIDEMIOLOGICAL NEWS

VOLUME 15/FOLIO 7/JUNE, 2007
2007, 25TH YEAR

Dengue Fever and Dengue Haemorrhagic Fever (DF/DHF)

1.1 Incidences of Dengue Fever and Dengue Haemorrhagic Fever (DF/DHF)

The major DF/DHF outbreaks in 1990 and 1991 recorded the incidence rates of 90.4 and 60.1 per 100,000 populations respectively. However the situation was under control in 1992 to 1996 with reported cases from 222 to 590 per year. The Dengue re-emerge in 1998 when a total of 1,004 cases were reported. Situation worsened in 2005 with 1,411 cases reported with five deaths. With incidence rate 60.6. In 2006 1,821 cases were reported with six deaths with 76.3 incidence rate. (Figure 1.1) This increase due to a few minor outbreaks and a major outbreak in Sibul, Miri, Sarikei and Kuching.



In 2007, a total of 1,154 clinical cases reported with 208 serologically confirmed DF/DHF cases reported in 2006 as compared to 914 clinical cases and 312 serologically confirmed cases last year in the same period. This shows an increase of 26.25% of clinical and reduction of 33.33% of serologically confirmed cases respectively. (Table 1.2.a).

Table 1.2.a: Distribution Of Dengue Cases In Sarawak By Division.

Division	2006			2007		
	Clinical	Confirm	% +VE	Clinical	Confirm	% +VE
KUCHING	277	116	41.88	373	109	29.22
SRI AMAN	30	9	30.00	37	4	10.81
SIBU	44	8	18.18	150	3	2.00
MIRI	119	51	42.86	76	27	35.53
LIMBANG	18	0	0.00	26	0	0.00
SARIKEI	275	112	40.73	108	23	21.30
KAPIT	25	2	8.00	74	0	0.00
SAMARAHAN	32	5	15.63	92	14	15.22
BINTULU	52	3	5.77	130	18	33.07
MUKAH	12	1	8.33	38	1	33.07
BETONG	30	5	16.67	47	9	19.15
SARAWAK	914	312	34.14	1151	208	18.07

A total of 167 cases out of 1151 cases occurred within the outbreak localities. Kuching Division reported the highest cases from the outbreak which accounted for 79 cases, followed by Samarahan with 23 cases, Sibiu 18 cases, Mukah 17 cases, Bintulu 16 cases, Betong 10 cases and 2 each from Limbang and Kapit. No outbreak reported Sri Aman, Limbang and Sarikei. (Table 1.2.b).

Table 1.2.b DF/DHF cases associated with outbreak locality Sarawak 2007.

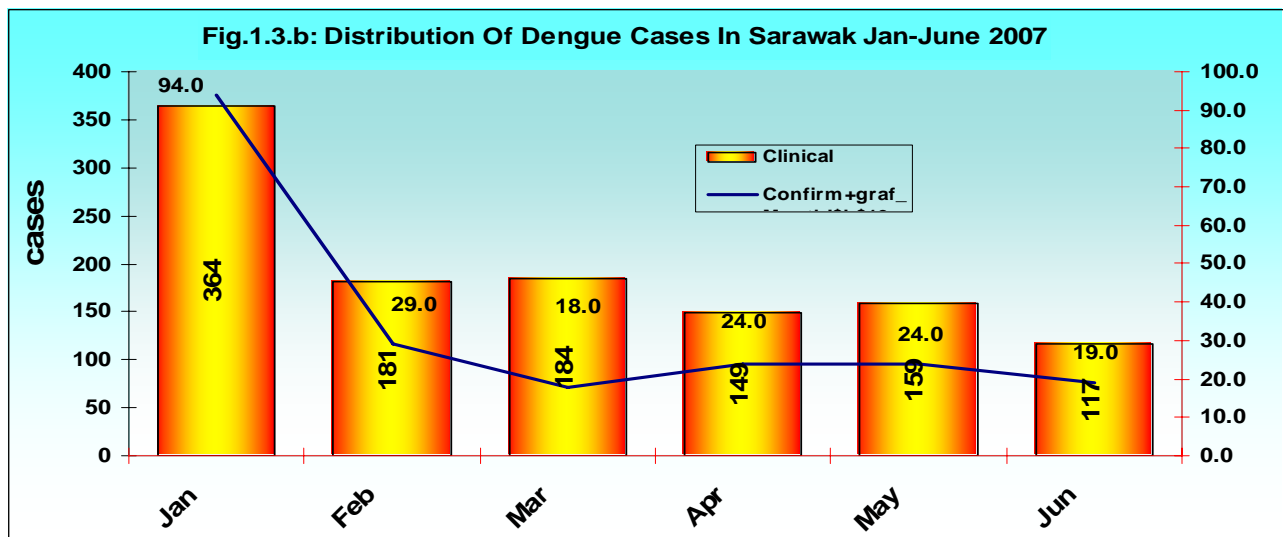
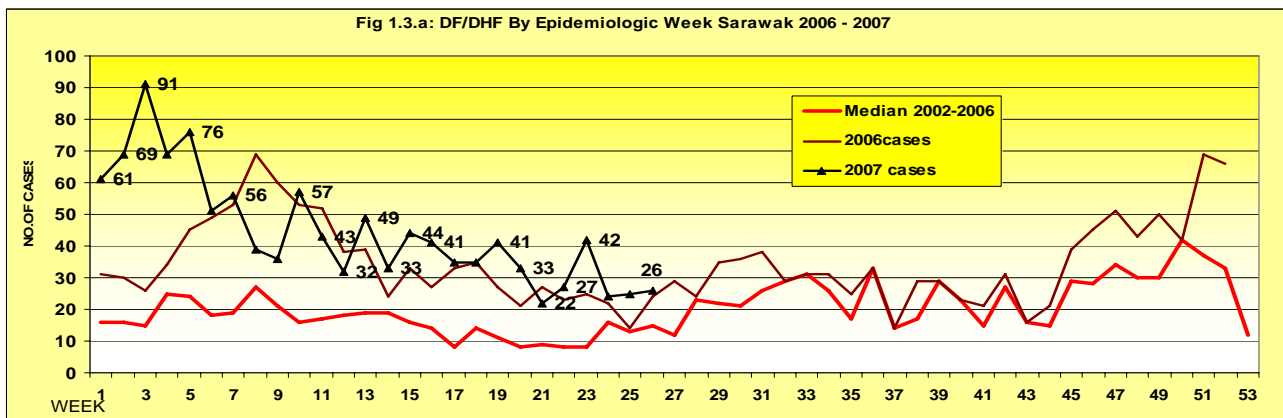
Division	DF/DHF	No Of Cases from the outbreak localities	% Cases from the outbreak localities
KUCHING	373	79	21.18
SRI AMAN	37	0	0.00
SIBU	150	18	12.00
MIRI	76	2	2.63
LIMBANG	26	0	0.00
SARIKEI	108	0	0.00
KAPIT	74	2	2.70
SAMARAHAN	92	23	25.00
BINTULU	130	16	12.31
MUKAH	38	17	44.74
BETONG	47	10	21.28
SARAWAK	1151	167	14.51

1.2.1 Dengue Deaths

No death was reported due to dengue fever/dengue haemorrhagic fever reported in 2007.

1.3.0 Distribution of DF/DHF by epidemiological week

The incidence of DF/DHF was higher in early part of the year epid week 3 reported (91) due to overflow of cases from the previous year. Cases started to be under controlled in epid week 8. The DF/DHF re-emerge at epid week 10 and under controlled in epid week 12 and re-emerge at epid week 19 and continued until the end of May 2007 and under control by week 24 (almost same as last year). Generally the worst affected month was on Jan to March 2007. (Figure 1.3.a and Figure 1.3.b)

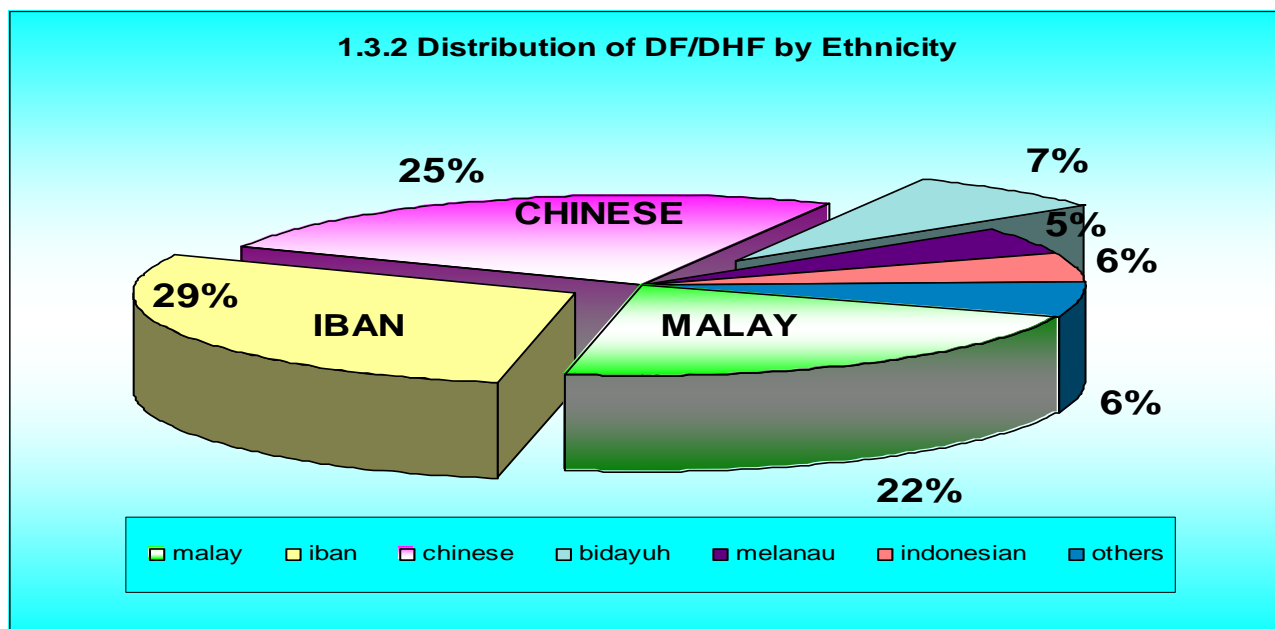


1.3.1 Urban/Rural Distribution of DF/DHF

Most cases reported were from urban areas which accounted for 64.3%. The same situation also observed in 2006. This is usual situation as DF/DHF is an urban disease. However, Sri Aman, Limbang, Kapit, Mukah and Betong reported more rural cases even though the number of cases is small.

1.3.2 Distribution of DF/DHF by Ethnicity

Cases among Iban constituted 29.02% of DF/DHF cases while those amongst Chinese constituted of 25.12%. Malay constituted of 22.35%, Bidayuh constituted of 7.45% and others constituted 16.06%. (Table 1.3.2). The same situation is also observed in previous year.



1.3.3 Distribution of DF/DHF by Age group

Cases among those above 20 years age group constituted 71.75% of DF/DHF cases, while those who were 15-19 years old was 12.21%, 10-14 years of age was 7.62%, followed by 5-9-years of age was 4.60% and 0-4-years 3.81%. Similar proportion of cases among the age groups was shown last year.

1.4.0 Distribution of DF/DHF by gender

In 2007, the most affected group was male with 716 cases (62.04%) and female with 438 cases (37.96%). The male to female ratio was 1.6:1.

1.4.1 Serology test

For the year 2007, a total of 1154 clinical cases were reported, of which 208 cases (73.49%) were serological positive and 75(26.51%) were tested negative for recent Dengue infection using IGM ELISA technique. About 75.47% (871) of whole clinical cases had no serological investigation done.

1.5.1 Dengue Outbreak

Outbreak of Dengue is defined as occurrence of more than one case of dengue (base on date of onset) within 14 days in the same locality. Locality is defined as an area within a radius of 400 meters of the residence / work place / school of infected person.

In 2007 outbreaks were reported from 42 localities; 32 localities reported 2-5 cases per outbreak and 6 localities reported 6-10 cases per outbreak, 4 localities reported more than 11-40 cases per outbreak. So far this year, major outbreak for the state occurred Kuching district; Kpg.Tabuan Melayu and Kpg.Tabuan Hilir and in Bintulu district in Kpg.Sebean Besar Jepak.

DISTRICTS	AIDS	Cholera	Dengue Fever	Dengue H. Fever	Dysentery	Food Poisoning	Gonorrhoea	Hand, Foot & Mouth	Leprosy	Malaria	Whooping Cough	Measles	Syphilis, Congenital	Syphilis (All Forms)	Tuberculosis (All forms)	Typhoid & Paratyphoid Fever	Typhus, Scrub	Hepatitis A	Hepatitis B	Hepatitis C	Other Hepatitis	Viral Encephalitis	TOTAL
Lundu	0	0	1	0	0	0	0	8	0	3	0	0	0	1	0	0	0	0	0	0	0	0	13
Bau	0	0	1	0	0	0	0	33	0	1	0	0	0	0	4	0	0	0	0	0	0	0	39
Kuching	0	0	21	0	4	4	2	108	0	3	0	0	0	12	18	0	0	0	6	4	0	0	182
Samarahan	0	0	7	0	0	0	1	31	0	1	0	0	0	0	12	0	0	0	0	0	0	0	52
Serian	0	0	3	0	3	0	1	16	1	6	0	0	0	0	6	0	0	0	0	0	0	0	36
Simunjan	0	0	0	0	0	0	0	16	0	0	0	0	0	1	1	0	0	0	0	0	0	0	18
Sri Aman	0	0	0	0	0	6	0	71	0	0	0	0	0	2	6	0	0	0	0	0	0	0	85
L/ Antu	0	0	4	0	0	0	0	18	0	0	0	0	0	1	5	0	0	0	0	0	0	0	28
Betong	0	0	3	0	0	0	0	11	0	0	0	0	0	0	4	0	0	0	0	0	0	0	18
Saratok	0	0	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
Sarikei	0	0	3	0	0	0	1	4	0	1	0	0	0	0	1	0	0	0	1	0	0	0	11
Julau/Pakan	0	0	2	0	2	0	0	2	0	1	0	0	0	1	1/1	0	0	0	0	0	0	0	10
Meradong	0	0	1	0	0	0	0	10	0	0	0	0	0	1	1	0	0	0	0	0	0	0	13
Daro	0	0	6	0	0	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	12
Sibu/S'gau	0	0	9	0	0	0	0	46	0	12	0	0	0	0	7/3	0	0	0	0	0	0	1	78
Kanowit	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	6
Mukah	0	0	0	0	0	0	0	13	0	0	0	0	0	0	5	0	0	0	1	0	0	0	19
Dalat	0	0	2	0	0	0	0	5	0	2	0	0	0	0	2	0	0	0	0	0	0	0	11
Kapit	0	0	4	0	0	0	0	25	0	17	0	0	0	0	6	1	0	0	0	0	0	0	53
Song	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Belaga	0	0	0	0	0	0	0	1	0	0	0	0	0	1	4	0	0	0	0	0	0	0	6
Bintulu	0	0	0	0	0	0	10	80	0	0	0	0	0	1	10	0	0	0	0	0	0	0	101
Tatau	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	0	0	0	0	0	0	0	7
Miri	0	0	2	0	2	0	5	82	0	2	0	4	0	8	13	0	0	0	0	0	0	0	118
Marudi	0	0	3	0	0	0	1	22	0	0	0	0	0	0	7	0	0	0	0	0	0	0	33
Limbang	0	0	0	0	0	0	3	2	0	5	0	1	0	0	3	0	0	0	0	0	0	0	14
Lawas	0	0	0	0	0	0	0	0	0	3	0	2	0	0	2	0	0	0	0	0	0	0	7
TOTAL	0	0	74	0	11	10	24	614	1	57	0	7	0	29	135	2	0	0	8	4	0	1	977

ICD CODE	DISEASES	Median 2002-2006	Month Ending		Cumulative Total	
			30/06/2006	30/06/2007	2006(Annual)	2007
B20 - B24	HIV/AIDS (Death)	0	1	0	114/69(1)(20)	6
A57	Chancroid	0	0	0	0	0
A00.9	Cholera	0	0	0	0	0
A90	Dengue Fever	37	76	79	1799	1115
A91	Dengue Haemorrhagic Fever	1	0	0	22	22
A36.0-A36.9	Diphtheria	0	0	0	0	0
A06.0,A09	Dysentery All Types	9	9	10	86	74
A05,T61-T62	Food Poisoning	19	6	10	187	355
A54.0-A54.9	Gonococcal Infections(All Forms)	46	31	24	383	206
A54.3	Ophthalmia Neonatorum	0	0	0	0	0
A30.9	Leprosy	0	0	1	16	5
B54	Malaria	97	78	60	1371	342
B05	Measles	7	7	7	182	58
A20	Plague	0	0	0	0	0
A80.9	Poliomyelitis, acute	0	0	0	0	0
A82	Rabies	0	0	0	0	0
A68	Relapsing Fever	0	0	0	0	0
A50	Congenital Syphilis	0	0	0	0	1
A51-A53	Syphilis(All forms)	33	26	29	296	162
A33	Tetanus Neonatorum	0	0	0	2	0
A35	Tetanus (adults)	0	0	0	2	2
A16-A19	Tuberculosis(All forms)	113	149	135	1632	680
A01	Typhoid and Paratyphoid fevers	1	1	2	14	15
A75	Typhus, epidemic	0	0	0	0	0
A75.2	Typhus, flea-borne	0	0	0	8	0
A75.3	Typhus, scrub	0	0	0	0	3
A83,A84,A85,A86	Viral Encephalitis	2	4	1	35	12
B15.0-B15.9	Viral Hepatitis A	0	0	0	2	0
B16.0 - B 16.9	Viral Hepatitis B	5	3	8	34	56
B 18.2	Viral Hepatitis C	0	0	4	5	23
B19.0 - B19.9	Viral Hepatitis (unspecified)	0	0	0	1	3
A37	Whooping cough	0	0	0	8	0
A95	Yellow Fever	0	0	0	0	0

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