



# Myanmar Polio Newsletter

Volume 7, Issue 4  
October - December 2006

Tel: +95-1- 380040 (CEU)  
Tel: +95-1- 371790 (EPI)  
Tel: +95-1- 726994 (WHO)  
Fax: +95-1- 379008, 380040



Non-Polio AFP Rates  
2005

Non-Polio AFP Rates  
2006 (annualized)

**Table 1: Reported AFP cases against targets by State/Division and classification status of cases with onset in 2005 and 2006 (date as of 15/01/2007)**

State & Division	Population <15 years	Minimum non-polio AFP target	2006 (Onset)								2005					
			Case Classification								Case Classification					
			AFP		Polio			Pending			AFP		Polio		Pending	
AFP Cases	Discarded (Non-polio AFP)	Confirmed Polio	Wild Poliovirus Cases	Compatible	VDPV	Total	>90 Days	AFP Cases	Discarded (Non-polio AFP)	Confirmed Polio	Wild Poliovirus Cases	Compatible	Total	>90 Days		
Ayeyarwady	2654716	53	53	52	0	0	0	0	1	0	34	34	0	0	0	0
Bago East	1102191	22	21	21	0	0	0	0	0	0	14	14	0	0	0	0
Bago West	895691	18	17	17	0	0	0	0	0	0	28	28	0	0	0	0
Chin	188406	4	5	5	0	0	0	0	0	0	2	2	0	0	0	0
Kachin	497207	10	6	5	0	0	0	0	1	0	8	8	0	0	0	0
Kayah	103209	2	3	3	0	0	0	0	0	0	3	3	0	0	0	0
Kayin	590108	12	12	11	0	0	0	0	1	0	11	11	0	0	0	0
Magway	1778969	36	26	25	0	0	0	0	1	0	35	35	0	0	0	0
Mandalay	2652116	53	49	45	0	0	0	1	3	0	42	42	0	0	0	0
Mon	974316	19	23	23	0	0	0	0	0	0	13	13	0	0	0	0
Rakhine	1074576	21	28	25	0	0	0	0	2	1	21	21	0	0	0	0
Sagaing	2066461	41	47	45	0	0	0	0	2	0	43	43	0	0	0	0
Shan East	298619	6	8	8	0	0	0	0	0	0	3	3	0	0	0	0
Shan North	863238	17	22	20	0	0	0	0	2	0	10	10	0	0	0	0
Shan South	736767	15	14	14	0	0	0	0	0	0	8	8	0	0	0	0
Tanintharyi	528779	11	13	13	0	0	0	0	0	0	8	8	0	0	0	0
Yangon	2240009	45	62	60	0	0	0	0	2	0	57	57	0	0	0	0
<b>TOTAL</b>	<b>19245381</b>	<b>385</b>	<b>409</b>	<b>392</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>15</b>	<b>1</b>	<b>340</b>	<b>340</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 2: Selected Performance Indicators by State/Division for cases with onset in 2005 and 2006 (data as of 15/01/2007)**

State & Division	2006 (onset)								2005							
	Surveillance Indicators				% AFP investigated within 48 hrs.	% AFP cases with 60 days Follow-up	% Weekly zero reports received	% Weekly zero reports received on Time	Surveillance Indicators				% AFP investigated within 48 hrs.	% AFP cases with 60 days Follow-up	% Weekly zero reports received	% Weekly zero reports received on Time
	AFP Rates		Specimen						AFP Rates		Specimen					
AFP rate	Non-polio AFP rate	% within 2 spec. within 14 days	% with any specimen	AFP rate	Non-polio AFP rate	% within 2 spec. within 14 days	% with any specimen	AFP rate	Non-polio AFP rate	% within 2 spec. within 14 days	% with any specimen	AFP rate	Non-polio AFP rate	% within 2 spec. within 14 days	% with any specimen	
<b>TARGET</b>	<b>2</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>1</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>
Ayeyarwady	2.00	1.96	92	100	94	92	100	96	1.31	1.31	100	100	91	97	100	99
Bago East	1.91	1.91	100	100	100	88	100	95	1.30	1.30	93	100	100	93	100	96
Bago West	1.90	1.90	88	100	100	87	100	97	3.19	3.19	86	100	100	100	100	98
Chin	2.65	2.65	100	100	100	100	100	83	1.08	1.08	100	100	100	100	100	92
Kachin	1.19	0.99	100	100	100	100	100	85	1.64	1.64	100	100	100	88	100	82
Kayah	2.91	2.91	100	100	100	100	100	90	2.97	2.97	67	100	100	100	100	97
Kayin	2.03	1.86	83	100	100	91	100	100	1.90	1.90	91	100	100	100	100	100
Magway	1.46	1.41	96	100	100	89	100	100	2.01	2.01	97	100	100	100	100	98
Mandalay	1.85	1.70	96	100	98	88	100	97	1.62	1.62	95	100	100	95	100	100
Mon	2.36	2.36	100	100	91	87	100	98	1.36	1.36	92	100	100	100	100	100
Rakhine	2.61	2.33	89	100	96	81	100	75	1.99	1.99	95	100	95	95	100	96
Sagaing	2.27	2.18	100	100	98	68	100	83	2.12	2.12	100	100	100	100	100	88
Shan East	2.68	2.68	100	100	100	88	100	98	1.02	1.02	100	100	100	100	100	93
Shan North	2.55	2.32	100	100	100	100	100	100	1.18	1.18	90	100	100	100	100	96
Shan South	1.90	1.90	100	100	100	71	100	87	1.11	1.11	88	100	100	88	100	86
Tanintharyi	2.46	2.46	100	100	100	100	100	79	1.54	1.54	100	100	88	88	100	85
Yangon	2.77	2.72	90	100	94	92	100	100	2.60	2.60	98	100	82	98	100	100
<b>TOTAL</b>	<b>2.12</b>	<b>2.04</b>	<b>95</b>	<b>100</b>	<b>97</b>	<b>88</b>	<b>100</b>	<b>93</b>	<b>1.80</b>	<b>1.80</b>	<b>96</b>	<b>100</b>	<b>96</b>	<b>97</b>	<b>100</b>	<b>95</b>

**Table 3: AFP cases by month of paralysis onset, last 13 months**

State/ Division	2003 Total AFP	2004 Total AFP	2005 Total AFP	2006 AFP to date	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Ayeyarwady	34	39	34	52	2	5	1	6	0	1	5	5	5	4	14	1	5
Bago East	16	15	14	21	0	0	5	4	0	3	2	2	0	0	1	3	1
Bago West	13	15	28	17	1	2	2	1	0	2	2	2	3	1	0	2	0
Chin	5	2	2	5	0	1	0	1	0	0	0	0	2	0	0	0	1
Kachin	7	6	8	6	1	1	0	0	0	0	0	0	3	0	1	0	1
Kayah	9	2	3	3	1	1	1	0	0	0	0	1	0	0	0	0	0
Kayin	5	7	11	12	0	4	1	0	0	2	0	1	0	1	2	1	0
Magway	24	24	35	26	0	0	1	2	0	4	2	3	3	0	3	6	2
Mandalay	44	37	42	49	1	1	2	3	2	4	3	4	3	3	8	6	10
Mon	11	16	13	23	0	1	0	1	1	0	0	3	4	1	3	5	4
Rakhine	19	20	21	28	1	0	2	4	2	1	0	4	2	1	5	3	4
Sagaing	27	34	43	47	0	3	3	2	0	2	2	3	5	3	8	6	10
Shan East	3	5	3	8	0	1	1	1	0	2	1	0	0	1	1	0	0
Shan North	15	8	10	22	1	1	0	1	0	0	1	0	4	4	6	1	4
Shan South	9	7	8	14	1	1	0	1	0	0	0	1	0	1	3	6	1
Tanintharyi	1	12	8	13	0	0	0	1	1	1	0	1	1	1	1	3	3
Yangon	38	22	57	63	5	8	6	5	4	5	7	3	6	8	6	5	0
<b>TOTAL</b>	<b>291</b>	<b>271</b>	<b>340</b>	<b>409</b>	<b>14</b>	<b>30</b>	<b>25</b>	<b>33</b>	<b>10</b>	<b>27</b>	<b>25</b>	<b>33</b>	<b>41</b>	<b>29</b>	<b>62</b>	<b>48</b>	<b>46</b>

**Table 4: Stool processing and Laboratory performance indicators for cases with onset in 2005 & 2006, data as of 15/01/2007**

	Target	Achievement	
		2005	2006
% Specimens arriving at the Lab within 3 days after being sent	80	98	97
% Specimens arriving in the Lab in good condition	90	100	100
% Specimens with a turn-around time of 28 days or less	80	100	100
% Specimens for which non-polio enterovirus was isolated	10	12	15
% Polio-positive specimens forwarded to Ref Lab within 14 days after isolation	80	100	100

**Table 5: Laboratory Results, as reported by NHL between 1 October 2006 and 31 December 2006**

State/ Division	Township	EPID number	Date Onset	Date Stool sent	Stool Condition	Date Report by NHL	Stool 1 Result	Stool 2 Result
SAGAING	SHWEDO	MMR053106001	23/09/2006	04/10/2006	Good	25/10/2006	NPEV	NPEV
BAGO(WEST)	PAUNGDE	MMR071506003	25/09/2006	02/10/2006	Good	18/10/2006	NPEV	NPEV
AYEYARWADY	DANUBYU	MMR140906004	09/10/2006	18/10/2006	Good	06/11/2006	NPEV	NPEV
TANINTHARYI	MYEIK	MMR060706001	18/10/2006	28/10/2006	Good	20/11/2006	NPEV	NPEV
MANDALAY	MAHLAING	MMR091306001	20/10/2006	29/10/2006	Good	15/11/2006	NPEV	NPEV
MANDALAY	MAHA AUNGMYE	MMR091706001	23/10/2006	28/10/2006	Good	15/11/2006	NPEV	NPEV
SHAN(SOUTH)	HSISENG	MMR130906001	30/10/2006	02/11/2006	Good	27/11/2006	NPEV	NPEV
MAGWAY	GANGAW	MMR080306001	04/11/2006	13/11/2006	Good	29/11/2006	NPEV	NPEV
SAGAING	MAYAUNG	MMR052806001	05/11/2006	13/11/2006	Good	29/11/2006	NPEV	NPEV
SAGAING	MYINMU	MMR052706001	06/11/2006	13/11/2006	Good	11/12/2006	NPEV	NPEV
SHAN(NORTH)	KUTKAI	MMR130406002	27/11/2006	04/12/2006	Good	20/12/2006	NPEV	NPEV
RAKHINE	MANAUNG	MMR111106005	08/12/2006	12/12/2006	Good	12/01/2007	NPEV	NPEV
TANINTHARYI	YEBYU	MMR060806001	16/12/2006	25/12/2006	Good	16/01/2007	NPEV	NPEV
MANDALAY	NGAZUN	MMR093106001	24/12/2006	27/12/2006	Good	16/01/2007	NPEV	NPEV

**N.B. If stool condition is good and laboratory finding is negative, it will not be shown in the table.**

**Table 6: Results of Intra-Typic Differentiation by NIH/Bangkok, 2006**

State/ Division	Township	IDCODE	Onset Date	Stool Condition	Stool 1	Stool 2
AYEYARWADY	LABUTTA	MMR142006001	15/01/2006	Good	NEGATIVE	NEGATIVE
MANDALAY	PYIN OO LWIN(MYAYMO)	MMR091906001	09/04/2006	Good	VDPV	VDPV
KAYIN	HLAING BWE	MMR030606003	12/05/2006	Good	P1(SL)+P3(SL)	NPEV
MANDALAY	KYAUKSE	MMR090106001	01/06/2006	Good	NPEV	P1(SL)
MANDALAY	MYITTHA	MMR092206002	10/07/2006	Good	NEGATIVE	P1(SL)
MON	CHAUNGZON	MMR100306002	18/07/2006	Good	P2(SL)	P2(SL)
SHAN(NORTH)	KYAUKME	MMR130506001	14/08/2006	Good	NEGATIVE	P2(SL)+NPEV
MON	YE	MMR100806002	26/08/2006	Good	P2(SL)	P2(SL)
MANDALAY	PYAWBWE	MMR091106003	29/10/2006	Good	NEGATIVE	P1(SL)
SAGAING	MYINMU	MMR052706002	08/11/2006	Good	P3(SL)	P3(SL)
SHAN(NORTH)	MOMEIK	MMR132706001	10/12/2006	Good	NEGATIVE	NEGATIVE
SAGAING	AYARDAW	MMR053706001	12/12/2006	Good	NEGATIVE	NEGATIVE
SHAN(NORTH)	KYONEGYAN	MMR130706002	25/12/2006	Good	P2(SL)	NEGATIVE

**Note: P1, P2, P3 indicates Polio Serotype 1, 2, 3 respectively; "W" indicates "Wild Virus"; "S" indicates "Sabin (=Vaccine) Virus"**



## MYANMAR MASS MEASLES CAMPAIGN 2007

The WHO/UNICEF Joint Global Plan: Measles mortality reduction and regional elimination: Strategic Plan 2001 - 2005 sets out the four-part strategy to achieve this goal:

1. Provide every child with a dose of measles vaccine by 12 months of age;
2. Give all children from nine months onward a second opportunity for measles immunization, most commonly through measles campaigns;
3. Establish effective, case-based surveillance with laboratory confirmation; and
4. Improve clinical management of cases, including vitamin A supplementation.

The WHO/UNICEF Joint Statement: Global Plan for reducing measles mortality, 2006 - 2010 calls for the universal implementation of this four-part strategy in order to reduce global measles deaths by over 90%.

In Myanmar, progress has been made in implementing all four parts of the strategy. As a result, measles cases and deaths have decreased dramatically. However, even with the reductions achieved, there are still a considerable number of measles cases and measles related deaths annually in Myanmar. To hasten a reduction in measles deaths, the MMC catch-up campaign will target the about 7 million children in the country who are aged 9 months to 5 years. The campaign will take place during 2007 and be conducted in three phases; Phase I in January 2007 and Phase II in March 2007 and the phase III in May 2007. In conjunction with further progress in the other three aspects of the strategy, it is anticipated that successful implementation of this Mass Measles campaign will result in dramatically fewer measles cases/ deaths and that these gains will be sustained.

The 2007 MMC will provide a second opportunity for measles immunization to all children aged 9 months to under 5 years irrespective of their previous immunization against measles. For the MMC to achieve maximum impact, more than 95% coverage must be achieved in all townships, both urban and rural.

**Table 1: Phases of the Mass Measles Campaign**

	Dates	Target Children	States and Divisions
Phase I	14 to 27 Jan 2007	About 1.8 million	Yangon and Mandalay
Phase II	17 to 30 March 2007	About 2.4 million	Kachin, Kayah, Kayin, Mon, Chin, Rakhine, Shan East, Shan North, Shan South, Tanintharyi, and Upper Sagaing
Phase III	14 to 27 May 2007	About 3 million	Ayeyarwady, Bago East, Bago West, Magway and Lower Sagaing

The duration of each phase will be 2 weeks, depending on the township. The number of vaccination teams in any one township will be limited by the number of qualified vaccinators. Each vaccination team should consist of one trained vaccinator and at least 3-4 volunteers. Teams will conduct activities at fixed sites, temporary fixed sites and the elementary schools in the country. Outreach activities will be conducted from fixed sites as necessary. Special teams will be required for markets, transit areas, and hard-to-reach communities.