




Myanmar Polio Newsletter

Volume 7, Issue 3
July - September 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 15/10/2006)

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)	Confirmed Polio	Wild Poliovirus	Compatible	VDPV	Total	>90 Days	AFP Cases	Discarded (Non-polio)	Confirmed Polio	Wild Poliovirus	Compatible	Total	>90 Days	
Ayeyarwady	2654716	53	33	32	0	0	0	0	1	0	34	34	0	0	0	0	0	
Bago East	1102191	22	16	16	0	0	0	0	0	0	14	14	0	0	0	0	0	
Bago West	895691	18	15	14	0	0	0	0	1	0	28	28	0	0	0	0	0	
Chin	188406	4	4	4	0	0	0	0	0	0	2	2	0	0	0	0	0	
Kachin	497207	10	4	4	0	0	0	0	0	0	8	8	0	0	0	0	0	
Kayah	103209	2	3	3	0	0	0	0	0	0	3	3	0	0	0	0	0	
Kayin	590108	12	9	9	0	0	0	0	0	0	11	11	0	0	0	0	0	
Magway	1778969	36	15	14	0	0	0	0	1	0	35	35	0	0	0	0	0	
Mandalay	2652116	53	25	21	0	0	0	1	3	0	42	42	0	0	0	0	0	
Mon	974316	19	11	9	0	0	0	0	2	0	13	13	0	0	0	0	0	
Rakhine	1074576	21	15	15	0	0	0	0	0	0	21	21	0	0	0	0	0	
Sagaing	2066461	41	23	21	0	0	0	0	2	0	43	43	0	0	0	0	0	
Shan East	298619	6	7	6	0	0	0	0	1	0	3	3	0	0	0	0	0	
Shan North	863238	17	11	6	0	0	0	0	5	0	10	10	0	0	0	0	0	
Shan South	736767	15	4	3	0	0	0	0	1	0	8	8	0	0	0	0	0	
Tanintharyi	528779	11	6	5	0	0	0	0	1	0	8	8	0	0	0	0	0	
Yangon	2240009	45	51	46	0	0	0	0	5	0	57	57	0	0	0	0	0	
TOTAL	19245381	385	252	228	0	0	0	1	23	0	340	340	0	0	0	0	0	

Table 2: Selected Performance Indicators by State/Division for cases with onset in 2005 and 2006 (data as of 15/10/2006)

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
	Annualized 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				
TARGET		2	80		80	80	80		1	80		80	80	80	80	
Ayeyarwady	1.66	1.61	97	100	91	92	100	96	1.31	1.31	100	100	91	97	100	99
Bago East	1.94	1.94	100	100	100	88	100	98	1.30	1.30	93	100	100	93	100	96
Bago West	2.23	2.08	87	100	100	91	100	98	3.19	3.19	86	100	100	100	100	98
Chin	2.83	2.83	100	100	100	100	100	88	1.08	1.08	100	100	100	100	100	92
Kachin	1.07	1.07	100	100	100	100	100	85	1.64	1.64	100	100	100	88	100	82
Kayah	3.88	3.88	100	100	100	100	100	90	2.97	2.97	67	100	100	100	100	97
Kayin	2.03	2.03	89	100	100	88	100	100	1.90	1.90	91	100	100	100	100	100
Magway	1.12	1.05	93	100	100	83	100	100	2.01	2.01	97	100	100	100	100	98
Mandalay	1.26	1.06	96	100	96	100	100	93	1.62	1.62	95	100	100	95	100	100
Mon	1.51	1.23	100	100	91	83	100	100	1.36	1.36	92	100	100	100	100	100
Rakhine	1.86	1.86	100	100	93	69	100	81	1.99	1.99	95	100	95	95	100	96
Sagaing	1.48	1.35	100	100	100	87	100	93	2.12	2.12	100	100	100	100	100	88
Shan East	3.13	2.68	100	100	100	100	100	100	1.02	1.02	100	100	100	100	100	93
Shan North	1.70	0.93	100	100	100	100	100	97	1.18	1.18	90	100	100	100	100	96
Shan South	0.72	0.54	100	100	100	100	100	91	1.11	1.11	88	100	100	88	100	86
Tanintharyi	1.51	1.26	100	100	100	75	100	81	1.54	1.54	100	100	88	88	100	85
Yangon	3.04	2.74	96	100	94	89	100	100	2.60	2.60	98	100	82	98	100	100
TOTAL	1.75	1.58	97	100	96	89	100	94	1.80	1.80	96	100	96	97	100	95

State/Division	2004 Total AFP	2005 Total AFP	2006 AFP to date	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06
Ayeyarwady	39	34	32	7	4	1	2	5	1	6	0	1	5	5	5	4
Bago East	15	14	16	4	1	0	0	0	5	4	0	3	2	2	0	0
Bago West	15	28	15	12	4	2	1	2	2	1	0	2	2	2	3	1
Chin	2	2	4	0	0	0	0	1	0	1	0	0	0	0	2	0
Kachin	6	8	4	1	0	0	1	1	0	0	0	0	0	0	3	0
Kayah	2	3	3	0	1	0	1	1	1	0	0	0	0	1	0	0
Kayin	7	11	9	1	1	1	0	4	1	0	0	2	0	1	0	1
Magway	24	35	15	6	5	3	0	0	1	2	0	4	2	3	3	0
Mandalay	37	42	25	16	5	5	1	1	2	3	2	4	3	4	3	3
Mon	16	13	11	1	3	1	0	1	0	1	1	0	0	3	4	1
Rakhine	20	21	15	7	4	6	1	0	2	4	2	1	0	4	2	0
Sagaing	34	43	23	7	7	4	0	3	3	2	0	2	2	3	5	3
Shan East	5	3	7	1	1	0	0	1	1	1	0	2	1	0	0	1
Shan North	8	10	11	2	1	3	1	1	0	1	0	0	1	0	4	4
Shan South	7	8	4	0	1	1	1	1	0	1	0	0	0	1	0	1
Tanintharyi	12	8	6	2	1	1	0	0	0	1	1	1	0	1	1	1
Yangon	22	57	52	14	7	11	5	8	6	5	4	5	7	3	6	8
Total	271	340	252	81	46	39	14	30	25	33	10	27	25	33	41	28

	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	19
% Polio-positive specimens forwarded to Ref Lab within 14 days after isolation	80	100	100

State/ Division	Township	EPID number	Date Onset	Date Stool sent	Stool Condition	Date Report by NHL	Stool 1 Result	Stool 2 Result
A YEYARWADY	KYONEPYAW	MMR 140306003	28/06/2006	07/07/2006	Good	24/07/2006	NPEV	NPEV
YANGON	KYAUKTAN	MMR 123206002	30/06/2006	17/07/2006	Good	03/08/2006	NPEV	NPEV
SAGAING	KATHA	MMR 050406001	04/07/2006	10/07/2006	Good	27/07/2006	NPEV	NPEV
SHAN(SOUTH)	YWANGAN	MMR 134306001	23/07/2006	01/08/2006	Good	21/08/2006	NPEV	NPEV
MANDALAY	TAT KON	MMR 090806001	26/07/2006	01/08/2006	Good	16/08/2006	NPEV	NPEV
MON	KYAUKMARAW	MMR 100206002	10/08/2006	13/08/2006	Good	28/08/2006	NPEV	NPEV
RAKHINE	MYEBON	MMR 11206001	11/08/2006	18/08/2006	Good	06/09/2006	NPEV	NPEV
SHAN(NORTH)	KYAUKME	MMR 130506001	14/08/2006	20/08/2006	Good	06/09/2006	NEGATIVE	P2(SL)+NPEV
SAGAING	WETLET	MMR 053406001	15/08/2006	17/08/2006	Good	11/09/2006	NPEV	NPEV
BAGO(WEST)	MINH LA - BAGO	MMR 071706001	20/08/2006	25/08/2006	Good	14/09/2006	NPEV	NPEV
BAGO(WEST)	MONYO	MMR 071806003	21/08/2006	25/08/2006	Good	14/09/2006	NPEV	NPEV
SHAN(NORTH)	MUSE	MMR 134106001	21/08/2006	02/09/2006	Good	27/09/2006	NEGATIVE	NPEV
SHAN(NORTH)	LASHIO	MMR 134806003	30/08/2006	04/09/2006	Good	20/09/2006	NEGATIVE	NPEV
KAYIN	HPA-AN	MMR 030506003	02/09/2006	10/09/2006	Good	25/09/2006	NEGATIVE	NPEV
YANGON	KAWHMU	MMR 123106002	21/09/2006	26/09/2006	Good	11/10/2006	NPEV	NPEV

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

State/ Division	Township	ID CODE	Onset Date	Stool Condition	Stool 1	Stool 2
A YEYARWADY	LABUTTA	MMR 142006001	15/01/2006	Good	NEGATIVE	NEGATIVE
MANDALAY	PYIN OOLWIN(MYAYMO)	MMR 091906001	09/04/2006	Good	OTHERS-VDPV	OTHERS-VDPV
KAYIN	HLAING BWE	MMR 030606003	12/05/2006	Good	P1(SL)+P3(SL)	NPEV
MANDALAY	KYAUKSE	MMR 090106001	01/06/2006	Good	NPEV	P1-ITD
MANDALAY	MYITTHA	MMR 092206002	10/07/2006	Good	NEGATIVE	P1(SL)
MON	CHAUNGZON	MMR 100306002	18/07/2006	Good	P2(SL)	P2(SL)
SHAN(NORTH)	KYAUKME	MMR 130506001	14/08/2006	Good	NEGATIVE	P2(SL)+NPEV
MON	YE	MMR 100806002	26/08/2006	Good	P2-ITD	P2-ITD

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

Table 7: Other Vaccine Preventable Diseases & AEFI for the month of July to September 2006

State/ Division	Measles																AEFI										
	NNT case (death)				NNT case Investigation				Diphtheria Case (deaths)				Pertussis Case (deaths)				Cases				Total Cases				Old	New	Total
	Old		New		Total		Old		New		Total		Old		New		Total		Old		New		Total				
	Old	New	Total	Old	New	Total	Old	New	Total	Old	New	Total	Old	New	Total	Old	New	Total	Old	New	Total	Old	New	Total			
Ayeyarwaddy	0	2(1)	2(1)	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bago(East)	2(0)	2(0)	4(0)	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bago(West)	0	1(1)	1(1)	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Chin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kachin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kayah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kayin	3(0)	1(1)	4(0)	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Magway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mandalay	5(3)	6(1)	11(4)	5	6	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rakhine	3(3)	1(0)	4(3)	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sagaing	1(1)	1(0)	2(1)	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Shan(East)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Shan(North)	1(0)	0	1(0)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Shan(South)	0	2(0)	2(0)	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tanintharyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yangon	1(1)	0	1(1)	1	0	1	2(0)	0	2(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	16(8)	16(3)	32(11)	16	16	32	2(0)	0	2(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Remarks: Old ➤ Cumulative cases for the previous months
New ➤ New cases for the current month

CASE DEFINITION

ACUTE FLACCID PARALYSIS: Any child under 15 years old, with flaccid or floppy paralysis of sudden onset.

VACCINE DERIVED POLIOVIRUS (VDPV): A live, attenuated strain of the virus contained in the Oral Polio Vaccine which has mutated and reverted to a neurotropic form, capable of causing Vaccine-associated paralytic polio (VAPP). VDPVs differ from the parental Sabin Strains at 1 to 15% of VP1 nucleotides.

MEASLES: Any person in whom a clinician suspects measles infection, or
MEASLES: Any person with fever and maculopapular rash (i.e. non-vesicular) and cough, coryza (i.e. runny nose) or conjunctivitis (i.e. red eyes).

MEASLES OUTBREAK: Occurrence of more than 5 cases of measles in a village (a ward in a municipal area) within a period of one week.

AEFI: A medical incident that takes place after an immunization, causes concern, and is believed to be caused by immunization.

NEONATAL TETANUS

Suspected case: Any neonatal death between 3 and 28 days of age in which the cause of death is unknown; or
Any neonate reported as having suffered from neonatal tetanus between 3 and 28 days of age and not investigated.

Confirmed case: Any neonate with normal ability to suck and during the first 2 days of life and
- who, between 3 and 28 days of age, cannot suck normally and
- becomes stiff or has spasms (i.e. jerking of the muscles)

DIPHTHERIA: An illness characterized by laryngitis or pharyngitis or tonsillitis, and an adherent membrane of the tonsils, pharynx and/or nose.

PERTUSSIS (Whooping cough): A case diagnosed as pertussis by a physician or a person with a cough lasting at least two weeks with at least one of the following symptoms:
- Paroxysms (i.e. fits) of coughing.
- Inspiratory whooping.
- Post-tussive vomiting (i.e. vomiting immediately after coughing) without other apparent cause.

MEASLES IMMUNIZATION IN MYANMAR

All over the world about (1.7) millions deaths. Cases are caused by vaccine preventable childhood diseases and out of it (50-60) % of is caused by measles.

There are about (30-40) million of measles cases all over the world in the year 2000 with more than (800,000) cases of deaths.

So it is necessary to reduce the number of cases of measles as well as the mortality rate. Myanmar has planned to give measles second dose to all the areas of country in phase wise manner.

Global Targets

2000- Millennium Development Goals

Measles reduce by two third, between 1990 and 2015, in under- five mortality rate.

2002- United Nation General Assembly Special Section/Fit for Children

Reduce measles deaths by 50% by 2005 compared to 1999 levels.

2003- WHA Measles Resolution

Endorses MDG and UNGASS goals

Endorses WHO/ UNICEF comprehensive strategy

National Objectives

95% reduction of measles deaths.

90% reduction of measles death.

National Strategies in line with global Strategies

Strategy (1)

◆ Providing the first dose of measles vaccine to all children of (9) months of age in routine Immunization.

Strategy (2)

◆ Ensuring that all children have a second opportunity for measles vaccination.

- Catch up

- Follow up campaign 3-5 yearly

- Routine second dose at 18 months - 24 months

◆ Myanmar has immunized 1 million children of 9 months- 59 months age in 1995 and 1997.

◆ Again in 2002- 2004, Myanmar has immunized 5,387,720 (9months -5years) : coverage 88%.

Strategy (3)

◆ Strengthening measles surveillance and measles laboratory.

◆ Monitoring the epidemiology of the disease by integrated disease surveillance system. (AFP, NNT, MSL)

◆ The expanded RSO network will continue to function through 2007 at least, proving improved outbreak investigation data on distribution and vaccination status of cases and case fatalities.

◆ Strengthening laboratory services for cases and outbreak.

Strategy (4)

Improve measles case management

Measles case management

◆ In line with guideline on integrated management of maternal and childhood illnesses. (IMMCI)

◆ Includes Vitamins A supplementation of cases.

◆ Includes post-partum Vitamin A supplementation.