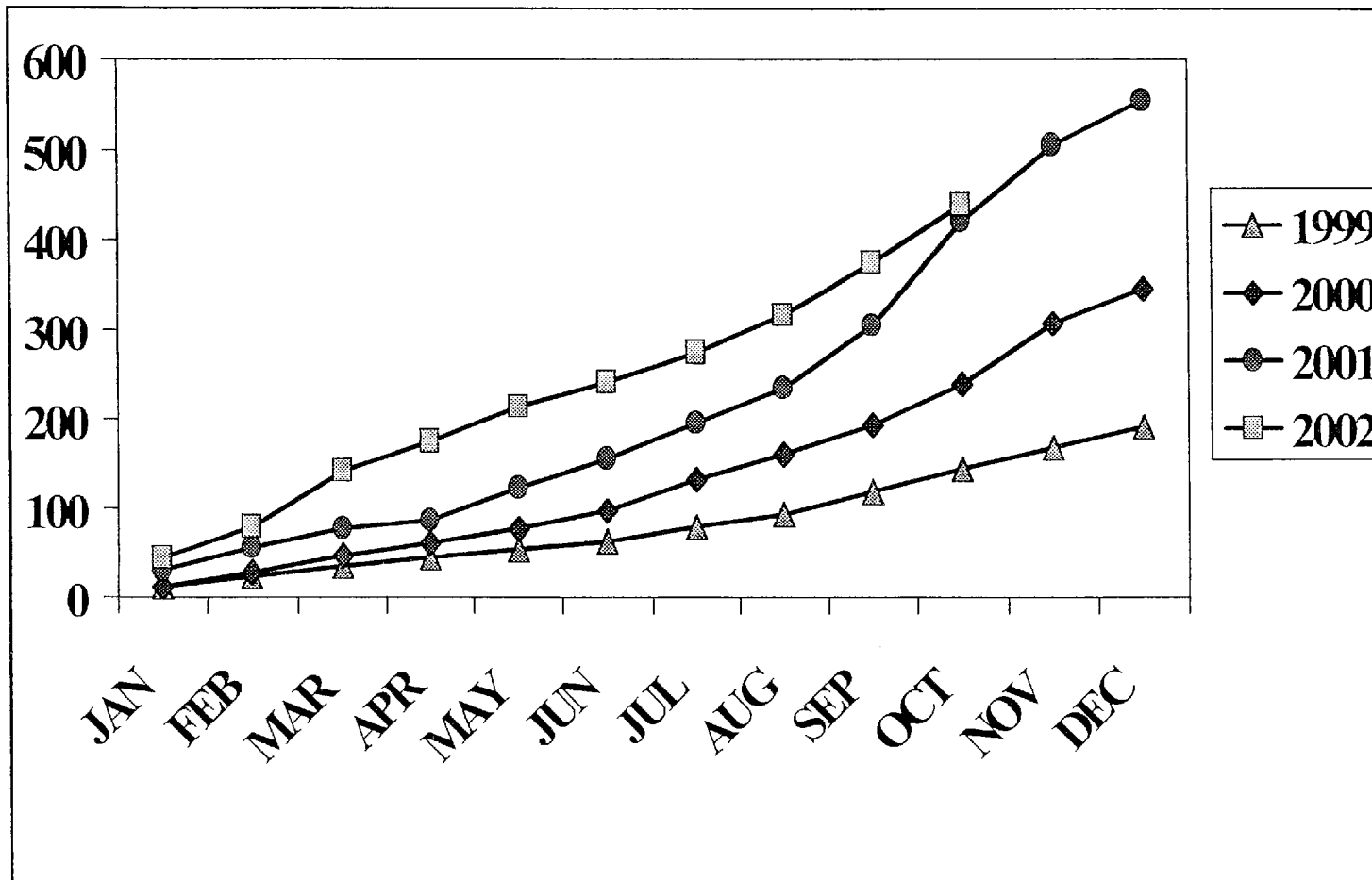


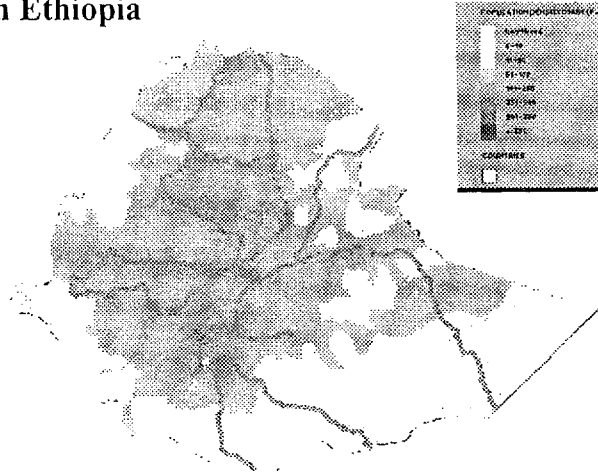
SURVEILLANCE IN ETHIOPIA

30 NOVEMBER 2002

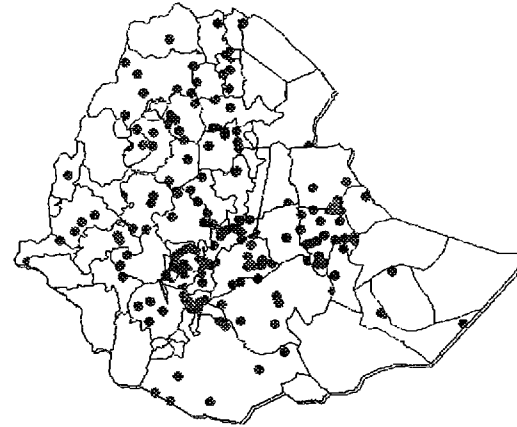
AFP TREND IN ETHIOPIA: 1999 - 2002



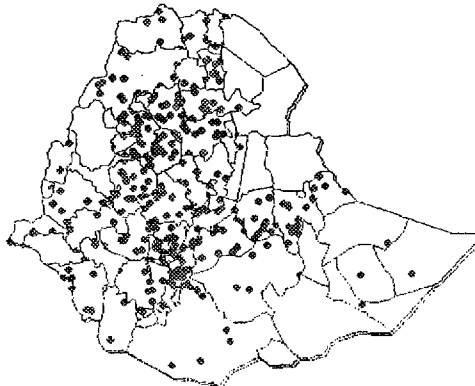
Population Density (Persons/per Sq Km) in Ethiopia



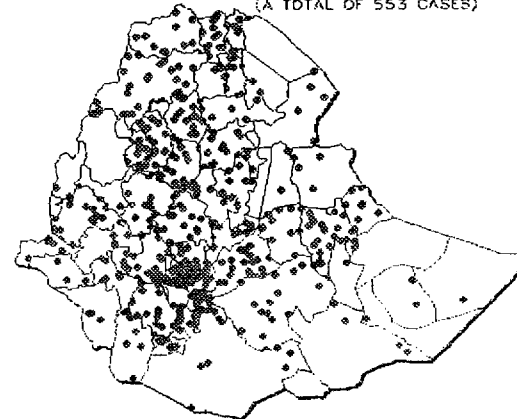
TOTAL AFP CASES REPORTED IN 1999: ETHIOPIA (A TOTAL OF 189 AFP CASES)



TOTAL AFP CASES REPORTED IN 2000: ETHIOPIA (A TOTAL OF 348 CASES)



TOTAL AFP CASES REPORTED: 2001 (A TOTAL OF 553 CASES)

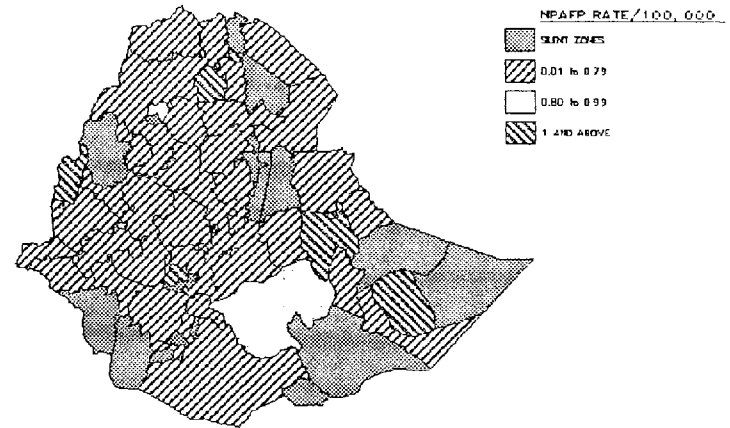


Total AFP Cases Reported: Nov. 30, 2002
(A total of 461 Cases)

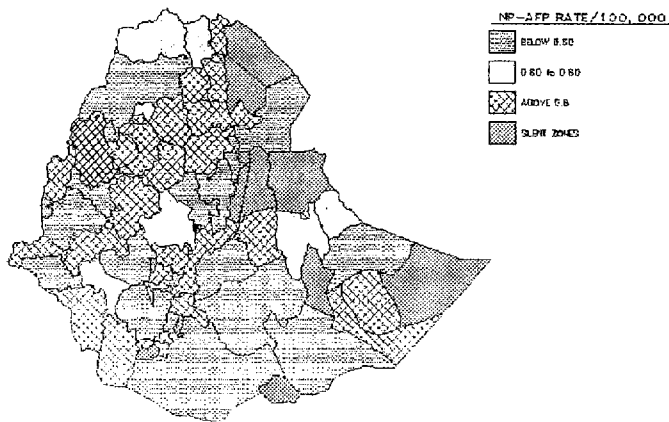


NP AFP Rates /1999 – 2001/

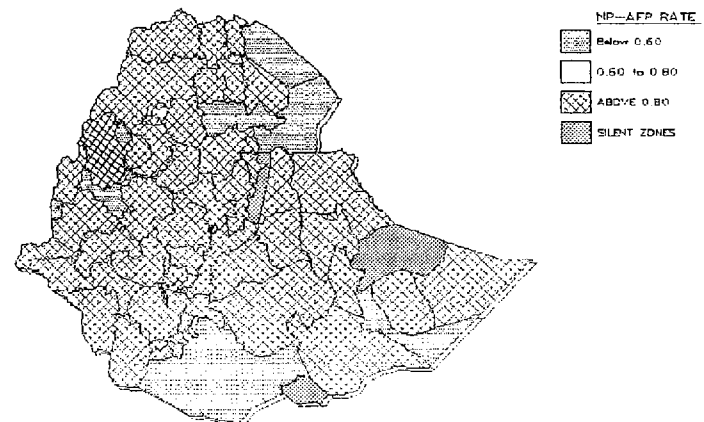
ANNUALIZED NON POLIO AFP RATE BY ZONE: 1999
(NP-AFP=0.26 AT NATIONAL LEVEL)



NON-POLIO AFP RATE AS OF DECEMBER 2000
(NP-AFP RATE AT NATIONAL LEVEL IS 0.7)

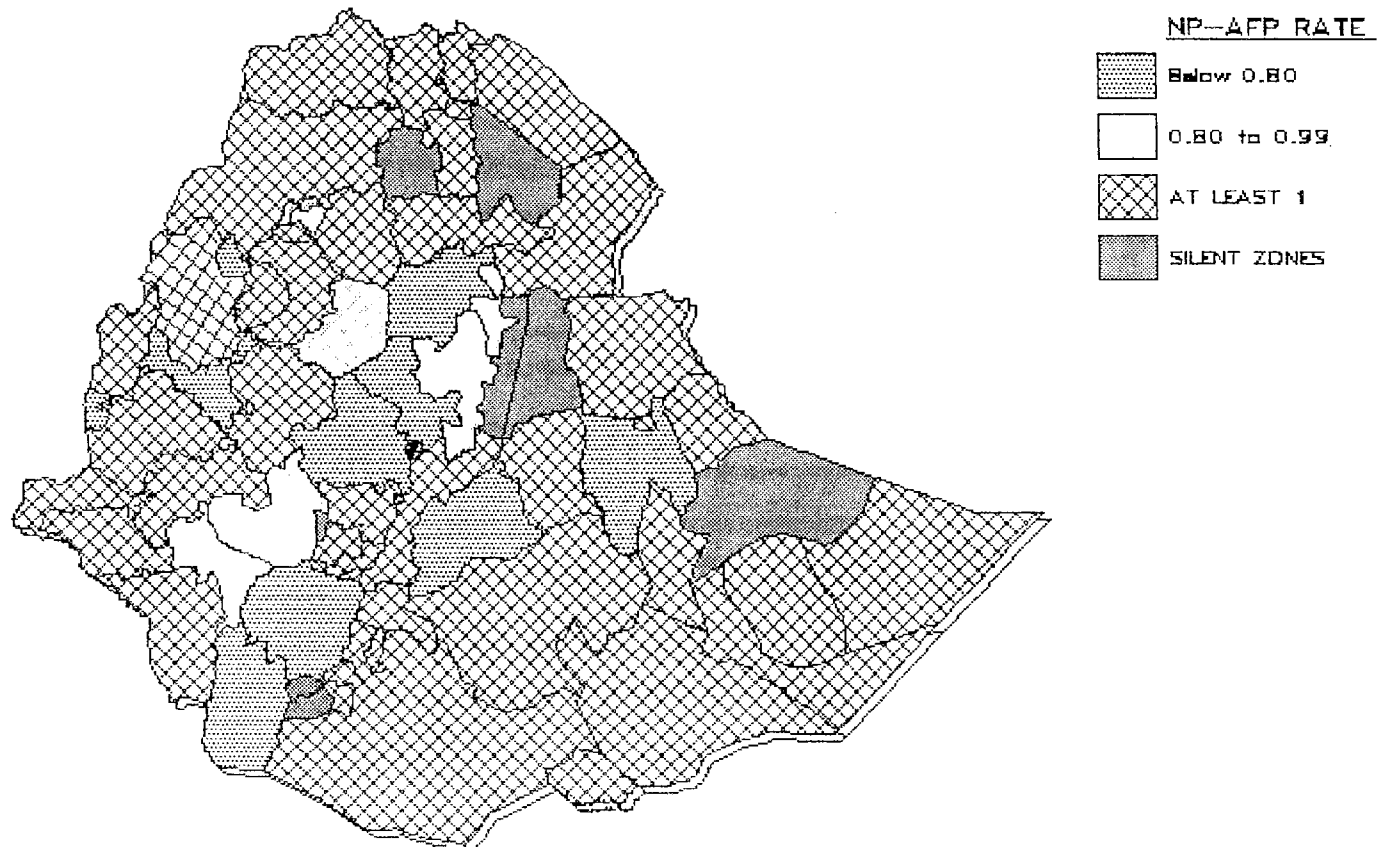


Non Polio AFP Rate by Zone: 2001
(AT NATIONAL LEVEL NP-AFP RATE IS 1.74)



Non Polio AFP Rate by Zone: Nov.30, 2002

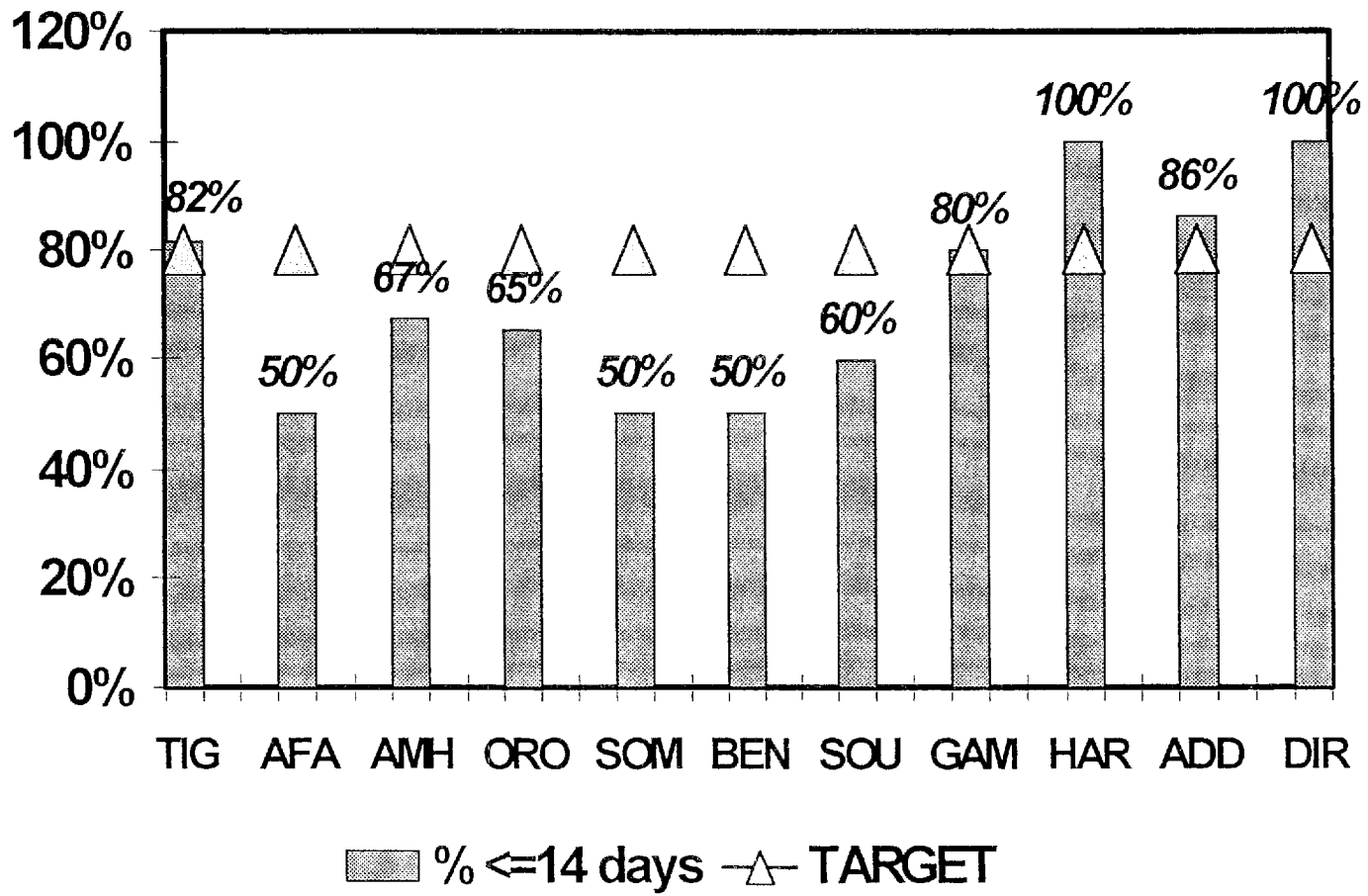
(NP-AFP Rate = 1.54)



AFP Cases With 2 Stool Specimens and
Within 14 Days of Onset: Nov. 30, 2002
(301 cases – 67%)

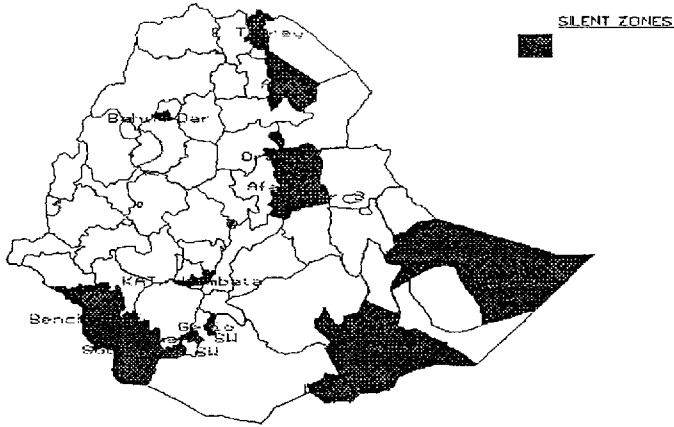


**% OF AFP CASES WITH 2 STOOL SPECIMENS AND
WITHIN 14 DAYS BY REGION NOVEMBER 30, 2002**

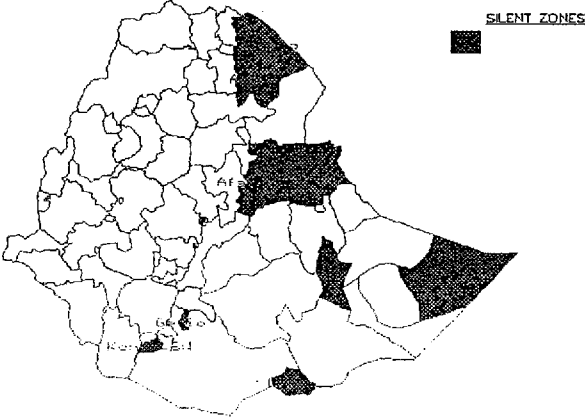


Silent Zones /1999 – 2001/

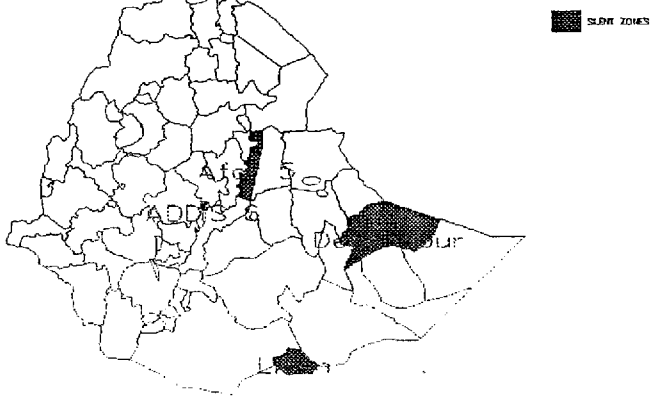
SILENT ZONES IN 1999
(A TOTAL OF 17 ZONES)



SILENT ZONES IN ETHIOPIA: 2000
(A TOTAL OF 10 ZONES)

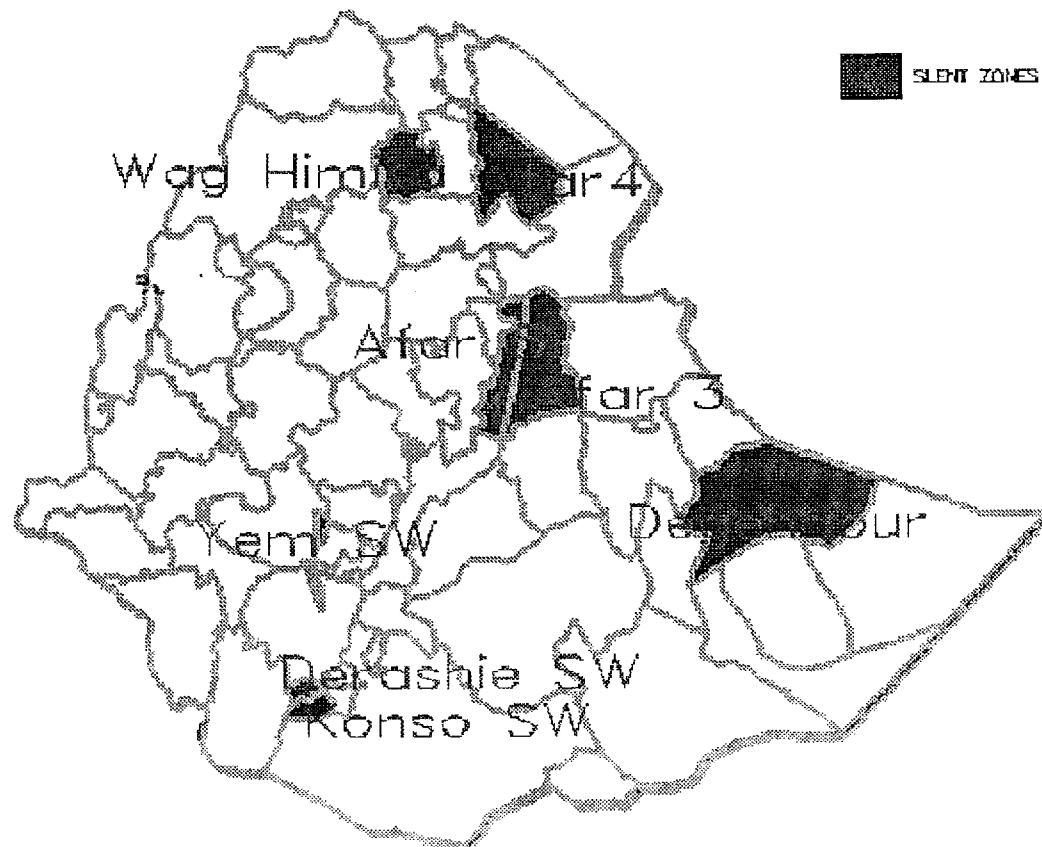


SILENT ZONES IN ETHIOPIA: 2001
(A TOTAL OF 4 ZONES)



Silent Zones in Ethiopia: Nov.30, 2002

(8 Silent Zones)

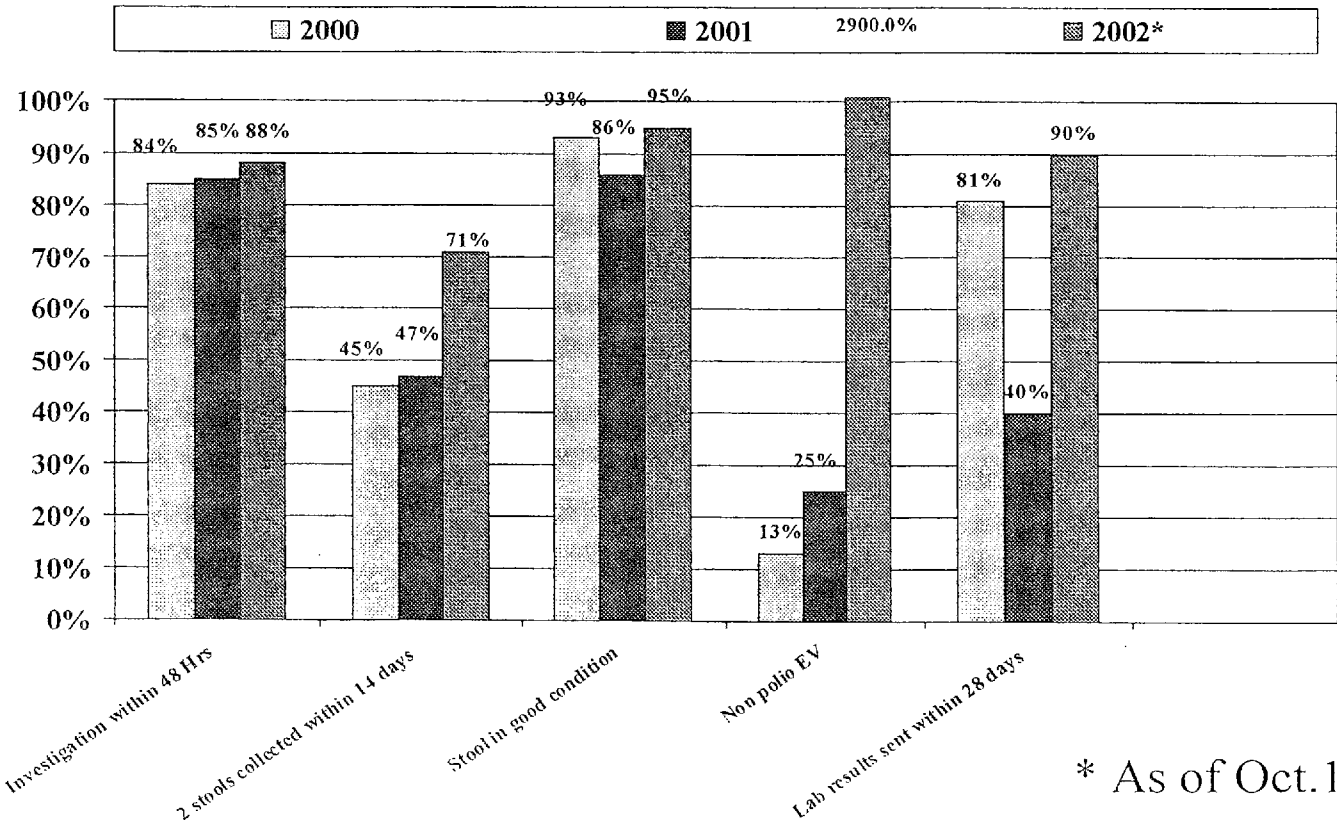


Status of AFP Indicators, Ethiopia

SN	Parameter	Target	1998	1999	2000	2001	2002*
1	Non Polio AFP rate in children <15 yrs		0.3	0.28	0.7	1.7	1.54
2	Proportion of AFP cases with 2 stool specimens						
	collected within 14 days of onset of paralysis	80%	12%	23%	45%	47%	67%
3	Proportion of districts making monthly reports						
	including zero reports	100%	N.A	75%	73%	72%	70%
4	Proportion of AFP cases investigated within						
	2 days of notification	80%	91%	94%	84%	85%	88%
5	Proportion of stool specimens arriving at						
	national level within 3 days being sent	80%	56%	94%	99%	96%	95%
6	Proportion of stool specimens arriving at						
	the lab in good condition	90%	84%	64%	93%	86%	96%
7	Proportion of stool specimens from which						
	non polio enterovirus was isolated	10%	11%	19%	13%	25%	25%
8	Proportion of stool specimens for which lab						
	results were sent within 28 days of receipt	80%	4%	49%	81%	40%	90%

* The data for 2002 is Until November 30, 2002 and the NP-AFP Rate is annualized.

Comparison of AEP Indicators 2000-2002 - Ethiopia

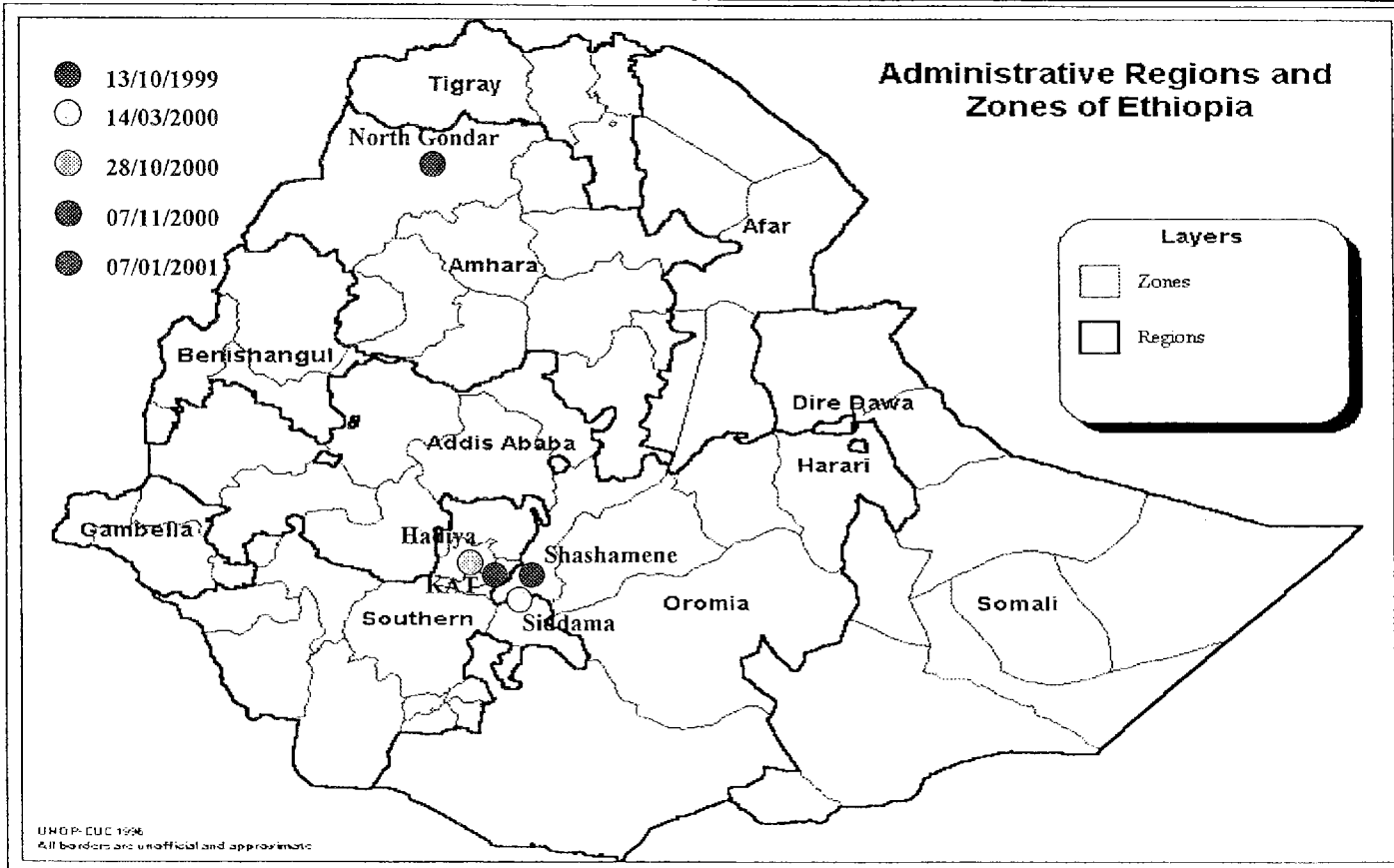


* As of Oct.11

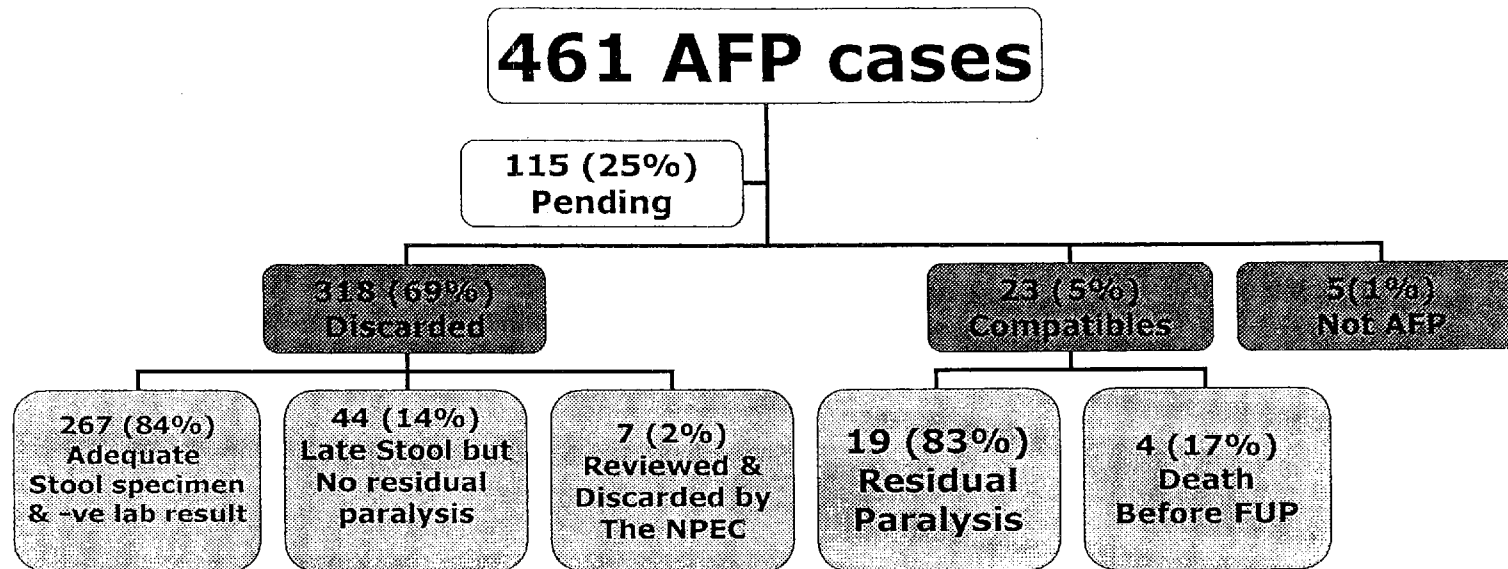
Polio Compatible Cases in 2001, Ethiopia



Wild Polio Virus Isolates (all Type 1), 1999-2001, Ethiopia



AFP Cases Classification as of Nov. 30, 2002



Weak Performing Zones: Nov.30, 2002

Region	Zone	Observation
ORO	ESH	42% of reported cases are with late stool
	ARS	NP-AFP Rate is 0.67 87% of reported cases are with late stool
SOM	JIJ	40% of reported cases are with late stool
	FIK	50% of reported cases are with late stool
	LIB	All reported AFP cases are with late stool
	KEB	All reported AFP cases are with late stool
	DEG	SILENT ZONE

Weak Performing Zones: Nov.30, 2002

Region	Zone	Observation
AMH	ORO	50% of reported cases are with late stool
	WAG	Silent Zone
SOU	HAD	67% of reported cases are with late stool
	KEF	62% of reported cases are with late stool
	GUR	47% of reported cases are with late stool
	SOU	NP-AFP Rate is 0.55 All reported cases are with late stool
	DER	SILENT ZONE
	KON	SILENT ZONE
	YEM	SILENT ZONE

Weak Performing Zones: Nov.30, 2002 (cont'd)

Region	Zone	Observation
AFA	AF1	67% of AFP cases are with late stool
	AF3	Silent zone
	AF4	Silent zone
	AF5	Silent zone
ADD	AD1	Annualized NP-AFP Rate is 0.36

AFP cases Reported During 2002 1st NIDs

- 89 AFP cases reported during 1st round NIDs
- Only 40% of the cases are adequate
- Causes for reduction of adequate stool specimens by 4%
 - 71% before NIDs
 - 67% after NIDs
- Strict supervision of AFP cases should be done during 2nd round of NIDs.

CLASSIFICATION OF REPORTED AFP CASES BY REGION, ETHIOPIA: DECEMBER 2002

REGIONS	EXPECTED AFP CASES	REPORTED AFP CASES	ANNUALIZED AFP RATE	CASE CLASSIFICATION			ANNUALIZED Non POLIO AFP RATE	% STOOL WITHIN 14 DAYS	SILENT ZONES
				PENDING	DISCARDED*	COMPATIBLE			
TIGRAY	20	64	3.34	6	55	3	3.18	81%	0
AFAR	6	8	1.39	0	7	1	1.22	50%	3
AMHARA	80	98	1.28	27	68	3	1.24	68%	1
OROMIA	110	141	1.34	42	95	4	1.30	65%	0
SOMALI	18	38	2.20	14	23	1	2.14	50%	1
BENSHANGUL	2	6	3.13	2	4	0	3.13	50%	0
SNNPR	61	85	1.45	22	53	10	1.28	61%	3
GAMBELLA	2	6	3.13	2	4	0	3.13	67%	0
HARARI	1	1	1.04	0	1	0	1.04	100%	0
ADDIS ABABA	12	31	2.70	5	25	1	2.61	84%	0
DIRE DAWA	1	4	4.17	1	3	0	4.17	100%	0
NATIONAL	313	482	1.61	121	338	23	1.53	67%	8

* 3 cases from Bale zone, 1 case from W Gojjam, and 1 case from E Wellega zone found to be not an AFP and classified as Discarded.
 Annualized NP-AFP RATE = ((PENDING+DISCARDED)/EXPECTED AFP CASES)*(12/n), where n is the current month

Reported AFP cases and silent districts, Ethiopia
December 1, 2002

Region	District code	Expected AFP for year 02	Reported AFP cases	PENDING	CLASSIFICATION		ANNUALIZED AFP RATE	ANNUALIZED NPAPF RATE	CASES W14DAYS	
					DISCARDED	COMPATIBLE				
ADDIS ABABA	ETH-ADD-ADD1	3	1	0	1		0.35	0.35	1	
	ETH-ADD-ADD2	1	9	1	7	1	9.39	8.35	6	
	ETH-ADD-ADD3	2	4	1	3		2.09	2.09	4	
	ETH-ADD-ADD4	4	10	1	9	0	2.61	2.61	9	
	ETH-ADD-ADD5	1	5	2	3		5.22	5.22	4	
	ETH-ADD-ADD6	1	2	0	2		2.09	2.09	2	
	TOTAL		12	31	5	25	1	2.70	2.61	26
OROMIA	ETH-ORO-ARS	13	9	5	4		0.72	0.72	1	
	ETH-ORO-BAL	7	10	1	9	0	1.49	1.49	6	
	ETH-ORO-BOR	8	14	3	11		1.83	1.83	9	
	ETH-ORO-EHA	10	15	10	5	0	1.57	1.57	9	
	ETH-ORO-ESH	11	12	2	10	0	1.14	1.14	7	
	ETH-ORO-EWE	7	19	4	15	0	2.83	2.83	18	
	ETH-ORO-ILL	5	13	3	9	1	2.71	2.50	9	
	ETH-ORO-JIM	12	9	0	8	1	0.78	0.70	8	
	ETH-ORO-NSO	7	4	0	4		0.60	0.60	3	
	ETH-ORO-WHA	7	8	3	5		1.19	1.19	5	
	ETH-ORO-WSH	14	12	5	6	1	0.89	0.82	6	
	ETH-ORO-WWE	9	16	6	9	1	1.86	1.74	11	
	TOTAL		110	141	42	95	4	1.34	1.30	92
	SOMALI	ETH-SOM-AFD	2	5	4	1		2.61	2.61	1
ETH-SOM-DEG		1	0				0.00	0.00		
ETH-SOM-FIK		2	2	1	1		1.04	1.04	1	
ETH-SOM-GOD		1	3	1	2		3.13	3.13	2	
ETH-SOML-JIJ		6	15	4	10	1	2.61	2.43	9	
ETH-SOM-KEB		1	1	0	1		1.04	1.04	0	
ETH-SOM-LIB		2	4	2	2	0	2.09	2.09	0	
ETH-SOM-SHN		2	7	1	6	0	3.65	3.65	6	
ETH-SOM-WAR		1	1	1			1.04	1.04		
TOTAL		18	38	14	23	1	2.20	2.14	19	

Region	District code	Expected AFP for year 02	Reported AFP cases	PENDING	CLASSIFICATION		ANNUALIZED AFP RATE	ANNUALIZED NPAFP RATE	CASES W14DAYS	
					DISCARDED	COMPATIBLE				
BENISHANGUL	ETH-BEN-ASO	1	3	0	3		3.13	3.13	2	
	ETH-BEN-TON	0	0							
	ETH-BEN-KEM	0	1	1					0	
	ETH-BEN-MET	1	2	1	1		2.09	2.09	1	
	ETH-BEN-PAW	0	0							
	TOTAL		2	6	2	4	0	3.13	3.13	3
SNNPR	ETH-SOU-BEN	2	4	1	3		2.09	2.09	3	
	ETH-SOU-GED	3	4	0	4		1.39	1.39	4	
	ETH-SOU-GUR	9	24	2	18	4	2.78	2.32	15	
	ETH-SOU-HAD	5	9	3	6	0	1.88	1.88	3	
	ETH-SOU-KAT	4	7	4	3		1.83	1.83	4	
	ETH-SOU-KEF	4	9	5	2	2	2.35	1.83	4	
	ETH-SOU-NOR	15	10	1	7	2	0.70	0.56	7	
	ETH-SOU-SID	12	13	3	8	2	1.13	0.96	9	
	ETH-SOU-SOU	2	1	1			0.52	0.52	0	
	ETH-SOU-AMA	1	3	2	1		3.13	3.13	2	
	ETH-SOU-BUJ	1	1	0	1		1.04	1.04	1	
	ETH-SOU-DER	1	0				0.00	0.00		
	ETH-SOU-KON	1	0				0.00	0.00		
	ETH-SOU-YEM	1	0				0.00	0.00		
	TOTAL		61	85	22	53	10	1.45	1.28	52
	AMHARA	ETH-AMH-AGE	5	9	2	6	1	1.88	1.67	7
ETH-AMH-EGJ		10	10	1	8	1	1.04	0.94	7	
ETH-AMH-NGN		12	14	2	12	0	1.22	1.22	11	
ETH-AMH-NSA		9	9	4	5	0	1.04	1.04	7	
ETH-AMH-NWO		7	8	1	7		1.19	1.19	7	
ETH-AMH-ORO		3	3	1	2		1.04	1.04	2	
ETH-AMH-SGN		10	14	6	7	1	1.46	1.36	9	
ETH-AMH-SWO		12	9	2	7	0	0.78	0.78	5	
ETH-AMH-WAG		1	0				0.00	0.00		
ETH-AMH-WGJ		10	20	8	12	0	2.09	2.09	11	
ETH-AMH-BAH		1	2	0	2		2.09	2.09	1	

	TOTAL	80	98	27	68	3	1.28	1.24	67
Region	District code	Expected AFP for year 02	Reported AFP cases	PENDING	CLASSIFICATION		ANNUALIZED AFP RATE	ANNUALIZED NP/AFP RATE	CASES W14DAYS
					DISCARDED	COMPATIBLE			
TIGRAY	ETH-TIG-CTI	5	18	2	16		3.76	3.76	17
	ETH-TIG-ETI	4	15	1	13	1	3.91	3.65	11
	ETH-TIG-STI	5	12	0	10	2	2.50	2.09	10
	ETH-TIG-WTI	4	14	3	11		3.65	3.65	9
	ETH-TIG-MEK	2	5	0	5		2.61	2.61	5
	TOTAL	20	64	6	55	3	3.34	3.18	52
AFAR	ETH-AFA-AF1	2	6	0	5	1	3.13	2.61	2
	ETH-AFA-AF2	1	2	0	2		2.09	2.09	2
	ETH-AFA-AF3	1	0				0.00	0.00	
	ETH-AFA-AF4	1	0				0.00	0.00	
	ETH-AFA-AF5	1	0				0.00	0.00	
	TOTAL	6	8	0	7	1	1.39	1.22	4
GAMBELLA	ETH-GAM-GA1	1	3	1	2		3.13	3.13	2
	ETH-GAM-GA2	1	3	1	2		3.13	3.13	2
	TOTAL	2	6	2	4	0	3.13	3.13	4
HARARI	ETH-HAR-HAR	1	1	0	1		1.04	1.04	1
DIRA DAWA	ETH-DIR-DIR	1	4	1	3		4.17	4.17	4
NATIONAL LEVEL		313	482	121	338	23	1.61	1.53	324

Silent zones are shaded

Status of AFP Indicators, Ethiopia

SN	Parameter	Target	1998	1999	2000	2001	2002*
1	Non Polio AFP rate in children <15 yrs		0.3	0.28	0.7	1.7	1.54
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	including zero reports	100%	N.A	75%	73%	72%	70%
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	2 days of notification	80%	91%	94%	84%	85%	88%
5	Proportion of stool specimens arriving at						
	national level within 3 days being sent	80%	56%	94%	99%	96%	95%
6	Proportion of stool specimens arriving at						
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7	Proportion of stool specimens from which						
	non polio enterovirus was isolated	10%	11%	19%	13%	25%	25%
8	Proportion of stool specimens for which lab						
	results were sent within 28 days of receipt	80%	4%	49%	81%	40%	90%

** The data for 2002 is Until November 30, 2002 and the NP-AFP Rate is annualized.*

REPORTED AFP CASES BY SELECTED VARIABLES: DECEMBER 2002

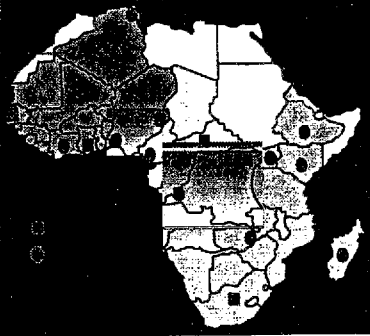
EPID	Name	DOB	AGE (YR)	AGE (Month)	DONSET	FEVER ON	PROGRS3D	ASYMMETRY	DOSES	DATE 1ST STOOL COLLECTED	DATE 2ND STOOL COLLECTED	STOOL DURATION (DSTCOLL2-DONSET)	STOOL CONDITION	P1	P2	P3	NPENT	DFUP	FUP	CLASS	OVER DUE
ETH-ORO-ESH-02-087	GENO HUSSEN	15/03/95			15/03/02	2	2	1	1	19/03/02	20/03/02	5	1	2	2	2	1			3	
ETH-ORO-ESH-02-106	EPHREM NEGUSGA	18/05/00			13/03/02	2	2	2	5	01/04/02	02/04/02	20	1	2	2	2	1	21/05/02	2	3	
ETH-ORO-ESH-02-110	DERARTU DEGEFA	19/11/01			11/03/02	1	1	1	1	03/04/02	04/04/02	24	1	2	2	2	2	14/06/02	2	3	
ETH-ORO-ESH-02-115	HAMID HUSSENA			10	19/03/02	1	1	1	4	03/04/02	04/04/02	16	1	2	2	2	1	03/07/02	2	3	
ETH-ORO-ESH-02-123	GEBETA ADEM		1	6	18/03/02	1	1	1	99	05/04/02	06/04/02	19	1	2	2	2	2	02/07/02	2	3	
ETH-ORO-ESH-02-236	BALDA ABAYE	12/08/00			25/06/02	2	1	1	99	07/07/02	08/07/02	13	1	2	2	2	2			3	
ETH-ORO-ESH-02-242	YONAS ANBESE	10/10/91			10/07/02	1	1	1	4	11/07/02	12/07/02	2	1	2	2	2	2			3	
ETH-ORO-ESH-02-280	ABDULAHAB JEMAL		1	9	16/08/02	1	2	2	99	20/08/02	21/08/02	5	1	2	2	2	1			3	
ETH-ORO-ESH-02-322	MEKONNEN ALEMAYEHU	15/09/92			15/09/02	2	1	1	1	24/09/02	25/09/02	10	1	2	2	2	2			3	
ETH-ORO-ESH-02-341	WAKJIRA GODANA		1		28/09/02	2	1	1	3	07/10/02	08/10/02	10	1	2	2	2	2			3	
ETH-ORO-ESH-02-380	NESREDIN BUSER	10/02/00			16/10/02	1	1	1	3	28/10/02	29/10/02	13	1	1	2	1	2				
ETH-ORO-ESH-02-398	ABDULFETA LANAND	18/06/02			24/09/02	1	1	2	0	30/10/02	31/10/02	37	1	2	2	2	2				80

6 . Polio Eradication and National Polio Laboratory 1997~2002, EHNRI

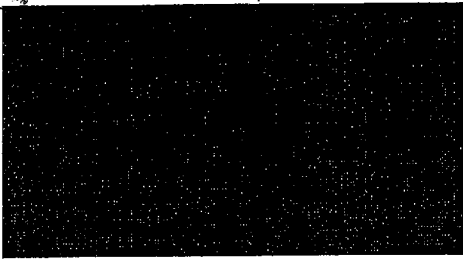
POLIO ERADICATION
and
National Polio Laboratory

1997-2002
By Berhane Beyene
June 27-28/2002

WHO-AFRO POLIO LABORATORY NETWORK



What is polio?



irreversible

Poliovirus

3 related enteroviruses

- +Type 1: most typically causes outbreaks most likely to cause paralysis
- +Type 2: easiest to eradicate
- +Type 3: often last to be eradicated
- ◆excreted intermittently for ~1 month
- ◆highest titres at paralysis & subsequent 2 weeks



Surveillance for Global Polio Eradication

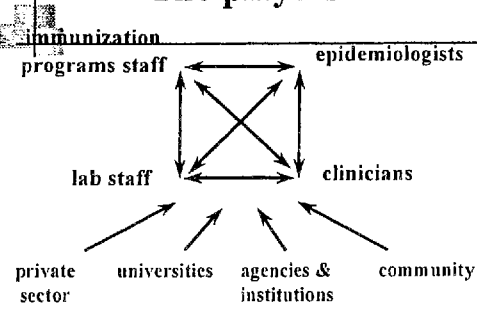
1) Objectives:

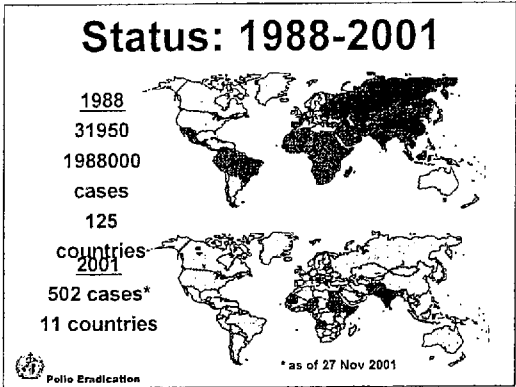
- show the absence of wild polioviruses.
- show that surveillance meets the level needed for certification.

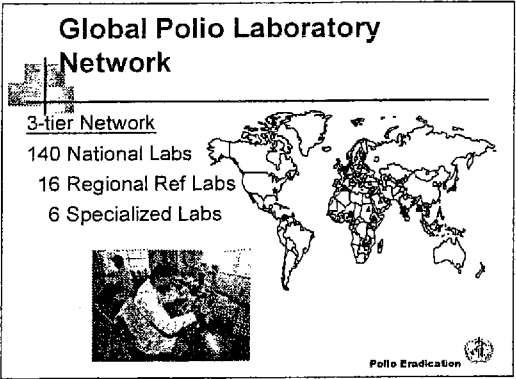
2) Strategy:

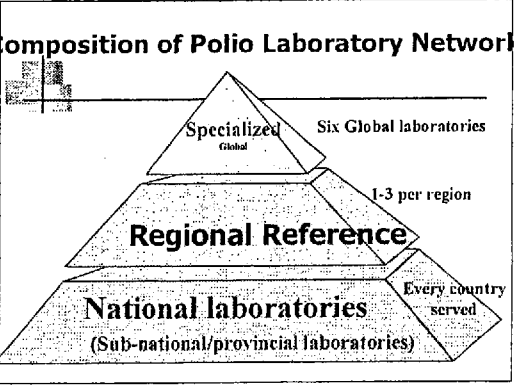
- report and investigate all cases of acute flaccid paralysis(AFP)


The players











 **ROLE OF POLIO LABORATORY**

- Enterovirus Isolation and Identification by serotype
- Referral of poliovirus isolates to RRL
- Reporting results
- Coordination with EPI case investigators
- Coordination and implementation of containment activities.

 **LABORATORY TECHNOLOGY**

- TISSUE CULTURE
- RD CELL LINE
- L-20B CELL LINE
- TIME CONSUMING
- SOPHISTICATED
- EXPENSIVE

 **Staff Situation**

- 1 SCIENTIFIC STAFF ----HEAD
- 1 SCIENTIFIC STAFF--DATA MANAGER
- 4 LABORATORY TECHNICIANS
- 1 LAB ASSISTANT
- 1 LAB ATTENDANT



TRAINING

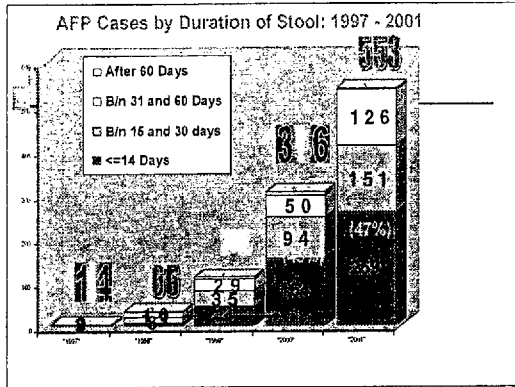
- CENTERS FOR DISEASES CONTROL AND PREVENTION ,ATLANTA,U.S.A--1
- NOGOUCHI MEMORIAL RESEARCH INSTITUTE,GHANA,ACCRA-----2
- NATIONAL INSTITUTE OF VIROLOGY JOHANNESBURG,SOUTH AFRICA---2
- NATIONAL INSTITUTE OF INFECTIOUS DISEASES,TOKYO, JAPAN----3

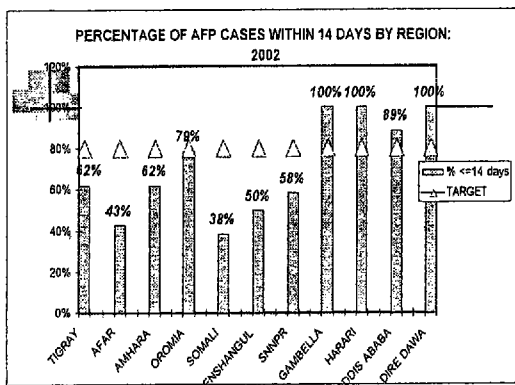


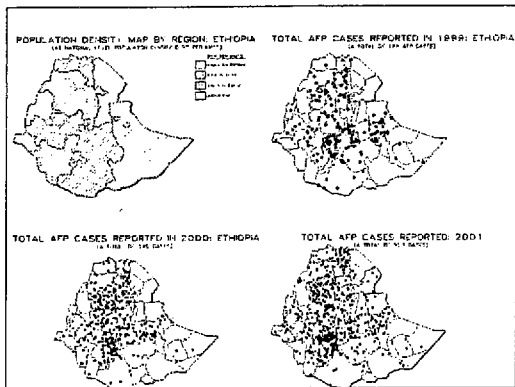
Accreditation

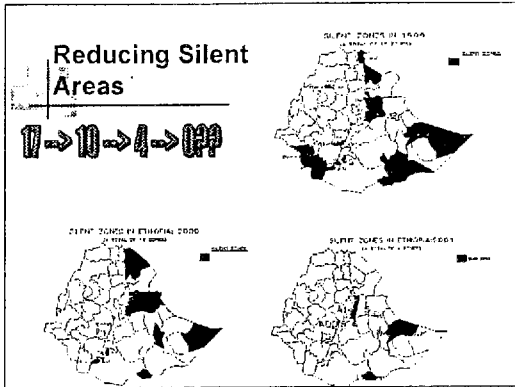
- Accreditation achieved in May 2001
- Proficiency panel test score improved
 - In 2000 - 80%
 - In 2001 - 100%
- Pre -Accreditation Visit was done in April 2002
- Accreditation Visit scheduled for July

S/N	Indicator	Target	1998	1999	2000	2001	2002
1	Non Polio AFP rate in children <15 yrs		0.3	0.28	0.7	1.6	1.3
2	Proportion of AFP cases with 2 stool specimens collected within 14 days of onset of paralysis	80%	12%	25%	48%	47%	76%
3	Proportion of districts making monthly reports including zero reports	100%	N.A.	76%	73%	72%	77%
4	Proportion of AFP cases investigated within 2 days of notification	80%	81%	84%	84%	86%	85%
5	Proportion of stool specimens arriving at national level within 3 days being sent	80%	86%	90%	89%	88%	84%
6	Proportion of stool specimens arriving at the lab in good condition	80%	64%	64%	81%	86%	80%
7	Proportion of stool specimens from which non polio enterovirus was isolated	10%	11%	19%	13%	26%	29%
8	Proportion of stool specimens for which lab results were sent within 28 days of receipt	80%	4%	48%	81%	41%	88%
* The data for 2002 is upto March 31, 2002 and the NPV AFP Rate is anticipated.							





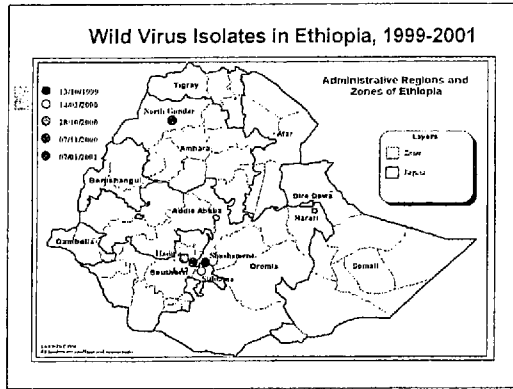




Laboratory Findings

Year	AFP Cases reported	No Stool Processed	No of Wild Poliovirus Isolates			No of Sabin Isolates			NPEV
			W1	W2	W3	S1	S2	S3 Sabin Mixture	
1997	14	9	0	0	0	0	0	0	0
1998	66	65	0	0	0	1	1	1	3
1999	189	208	1	0	0	3	2	1	12
2000	344	623	3	0	0	14	8	15	133
2001	553	1648	1	0	0	46	26	47	51

- ### 2002
- 200 stool specimen/100 AFP Cases
 - 72% Cases within 14 days
 - 90% Result within 28 days
 - Only 2 Polio Isolates
 - 19% NPEV Isolated
 - 17 Cases not vaccinated
 - 35 AFP cases unknown vaccination
 - 10 AFP Cases with Bad condition



**WILD POLIOVIRUS IN ETHIOPIA
1999 - 2001**

EPID	AGE (SEX)	ONSET	INTERVAL TO INVESTIG'N	VAX'N STATUS	VIRUS TYPE	FUP
ORO-ESH-99-079	11/12 (F)	10/13/99	18 DAYS	NO OPV	P1	R
SOU-SID-00-026	1 1/2 (F)	3/14/00	20 DAYS	NO OPV	P1	R
SOU-HAD-00-204	4 1/2 (F)	10/28/00	13 DAYS	3 DOSES	P1	R
AMH-NGN-00-217	12 (M)	11/7/00	11 DAYS	UNKNOWN	P1	NR
SOU-KAT-01-006	2 8/12 (F)	1/8/01	15 DAYS	2DOSES	P1	R

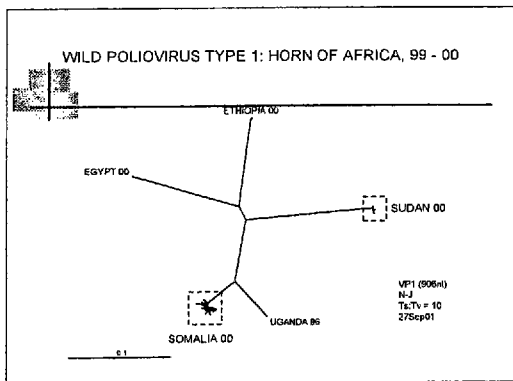
ROUTINE IMMUNIZATION

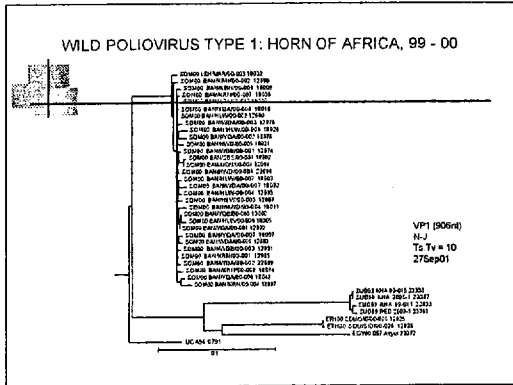
Shashamane Woreda OPV₃ routine (1991 Eth. Cal.) = 53%

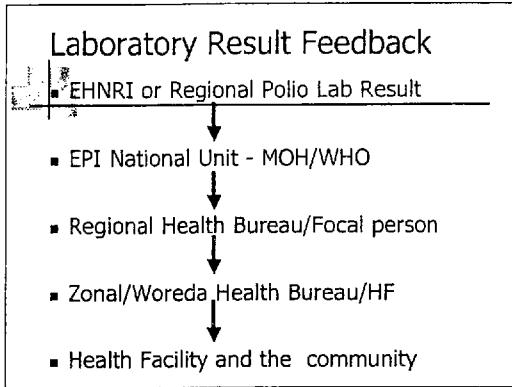
- Sidama zuria Woreda OPV₃ routine (1991 Eth Cal) = 56%
- Sire woreda, Hadya zone OPV₃ routine (1992 Eth Cal) = 59%
- Chilga woreda OPV₃ routine (1992 Eth Cal) = 50.4%
- Kedida Gamela Woreda OPV₃ (1993) = 21%

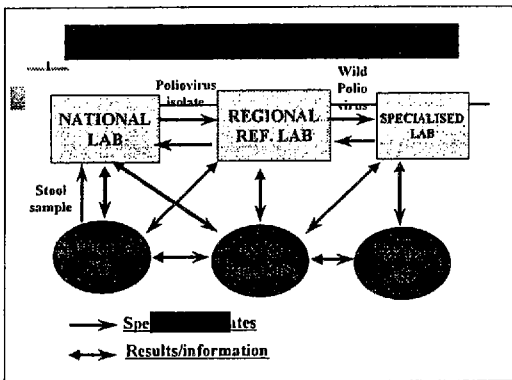
Wild Poliovirus Circulation:
Horn of Africa, 99 – 00 (1)

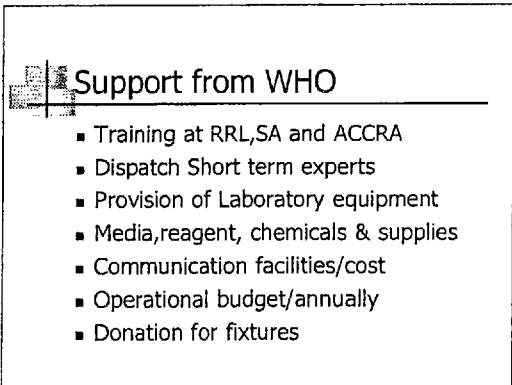
- PV1 and PV3 are endemic to Horn
- Four major independent PV1 reservoirs identified
 - Somalia
 - Ethiopia
 - Sudan
 - Egypt
















Support from Rotary International

- Provision of basic lab equipments
- One Big Generator/175kva



Support from JICA

- Construction of the new building
- 3 Lab personnel trained in Japan
- Provided new Land cruiser Vehicle
- Sponsored sensitization training at three sites in Amhara region
- Dispatched long/short term experts



Networking

- Meeting with WHO/MOH Surveillance officers Quarterly
- Assistance on Data Management from WHO/ EPI on weekly basis
- Useful exchange of ideas during AFRO meetings,during accreditation and assessment visits
- Article on EHNRI/EPI /JICA news letter.

	OTHER ACTIVITIES
<ul style="list-style-type: none"> ■ ATTENDANCE AT THE ICC MEETINGS ■ MEMBER OF NATIONAL POLIO EXPERT COMMITTEE ■ QUARTERLY /Annually SURVEILLANCE REVIEW MEETINGS ■ PATICIPATION ON AFP SENSITIZATION TRAINING AT REGIONAL LEVEL ■ MEASLES LAB ESTABLISHMENT 	

	PROBLEMS AND ACTION
<ul style="list-style-type: none"> ■ GENERATOR-----ROTARY CLUB ■ TRAINING-----JICA/WHO ■ TRANSPORT-----JICA ■ COMMUNICATION----EHNRI/WHO ■ MOTIVATION-----WHO/EHNRI 	

	2002/2003 PLAN
<ul style="list-style-type: none"> ■ MAINTAIN ACCREDITATION ■ TRAINING LAB PERSONNEL/SKILL UPDATE/QUALITY ASSURANCE ■ IMPROVE INTERNAL QUALITY CONTROL ■ IMPROVE COMMUNICATION ■ IMPROVE PREVENTIVE MAINTAINANCE 	



Acknowledgment

- EHNRI/MANAGEMENT
- WHO EPI,AFRO AND HQ
- JICA
- ROTARY INTERNATIONAL
- CDC,Atlanta,USA


7. M/M of 10 October 2002 (PDM Version 1 を含む)

MINUTES OF MEETINGS
BETWEEN
JAPAN INTERNATIONAL COOPERATION AGENCY
AND
THE AUTHORITIES CONCERNED OF
THE GOVERNMENT OF THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA ON
JAPANESE TECHNICAL COOPERATION FOR
THE LABORATORY SUPPORT FOR POLIO ERADICATION
(LAST POLIO)PROJECT


Mr. Yoshinori EBATA, Resident Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") Ethiopia Office held a series of discussions with the Ethiopian authorities concerned about activities of the Laboratory Support for Polio Eradication (Last Polio) Project (hereinafter referred to as "the Project").

As a result of the discussions, the both sides agreed upon the matters referred to in the document attached hereto.

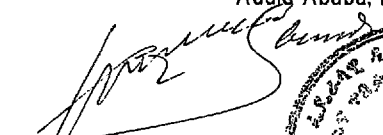
10 October 2002,
Addis Ababa, Ethiopia




Mr. Yoshinori EBATA
Resident Representative
Japan International Cooperation Agency in
The Federal Democratic Republic of
Ethiopia

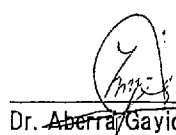

HAILEMICHAEL KINFU
Head
Bilateral Cooperation Department

Witnessed by:
Mr. Hailemichael Kinfu
Head, Bilateral Cooperation Department,
Ministry of Finance and Economic
Development (MoFED),
The Federal Democratic Republic of
Ethiopia




Dr. Birma Azene
Head, Planning and Project Department,
Ministry of Health,
The Federal Democratic Republic of Ethiopia





Dr. Aberra Gayid
Director,
Ethiopian Health and Nutrition Research
Institute (EHNRI),
The Federal Democratic Republic of Ethiopia

ABERRA GAYID (Dr.)
DIRECTOR



THE ATTACHED DOCUMENT

1.Summary

The Project started on 12 April, 2001 with a three-year cooperation period for the purpose of strengthening the function of the National Polio Laboratory, at the Ethiopian Health and Nutrition Research Institute("EHNRI").

In accordance with R/D and The Tentative Schedule of Implementation dated 12 April 2001, the both sides reviewed the achievement of the activities, and plan with respect to the future implementation of the Project.

Based upon the common recognition of the present status of the Project, both sides confirmed the continuous cooperation between the Japanese and Ethiopian governments for further progress of the Project.

2.Project Design Matrix

Project Design Matrix (hereinafter referred to as "PDM") was discussed and defined as described in Annex1. The both sides agreed that PDM would be basis for management and evaluation of the Project.

3.Master Plan

The Master Plan, which was defined as Annex I in the R/D, was discussed and revised as described in Annex 2, with consideration for the analysis of circumstances and progress of the Project and changes in circumstances.

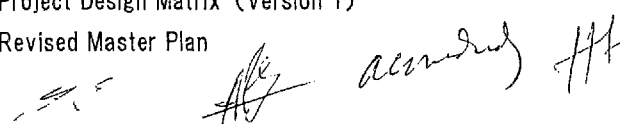
4.Mid-term Evaluation

Mid-term evaluation will be carried out by means of analysis of Project records, interviewing with the personnel concerned with the Project in December of 2002. Five characteristics of evaluation were proposed by Development Aid Committee of Organization for Economic Cooperation and Development in 1991.

(1)Effectiveness(2)Impact(3)Efficiency(4)Relevance(5)Sustainability

ANNEX 1 Project Design Matrix (Version 1)

ANNEX 2 Revised Master Plan

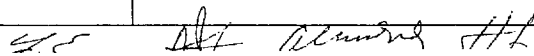
Handwritten signatures and initials, including a signature that appears to be 'Ali' and another that appears to be 'acm' followed by 'H'.

Project Design Matrix (PDM) : The Laboratory Support for Polio Eradication at EHNRI in Ethiopia (Ver.1)

Duration : April 12, 2001 - April 11, 2004

Target Group : Polio Laboratory at Ethiopian Health and Nutrition Research Institute

NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INDICATORS	MEANS OF VERIFICATIONS	IMPORTANT ASSUMPTIONS
OVERALL GOAL Wild polioviruses are eliminated in Ethiopia	Wild polioviruses will not be isolated for three or more years under adequate poliovirus surveillance	1 The inspection result report of the polio laboratory of EHNRI 2 Information on epidemiologic of WHO and UNICEF	<ul style="list-style-type: none"> The national health policy of the government remains unchanged regarding primary health care
PROJECT PURPOSE Polio laboratory at EHNRI can always obtain approval of WHO (AFRO) as a NRL	1 The NRL is accredited by WHO annually 2 The laboratory staff are well trained for isolation and identification of polioviruses by the end of 2003	1 The examination for proficiency by WHO 2 The evaluation report about the technology and capability of C/P by the experts	<ul style="list-style-type: none"> The budget of Ethiopian government to polio laboratory dose not decrease Staff members are stable and fulltime Dispute with neighboring country does not occur
OUTPUTS 1-1 Building of a new polio laboratory is completed 1-2 Function of polio laboratory is improved 2 Information exchange / cooperation activities with EHNRI and MOH are strengthened	1-1 Building of a new polio laboratory will be completed by October, 2002 1-2 NRL meets the WHO's requirements as described in 1) - 6) below 1) The results are reported by the laboratory on at least 80% of AFP specimens within 28 days of receipt 2) Virological tests are performed on at least 150 stool specimens annually 3) The accuracy of test result among all virus isolate is at least 90% 4) At least 80% of poliovirus isolates from AFP cases forwarded to the RRL for ITD within 14days of obtaining typing result 5) The score on the most recent WHO approved proficiency test is at least 80% 6) The score from the annual on-site review of laboratory operating procedures and practices is at least 80% 7) NPEV isolation rate from all stool specimens is at least 10% 2 The staff meeting between EHNRI and MOH is held bimonthly	1-1 Record of a construction progress situation for polio laboratory 1-2 The result of NRL by WHO 2 Activity record by the project	
ACTIVITIES 1-1 Construction and functional expansion of polio laboratory 1-2 Technical promotion of isolation and typing to the laboratory staff 2-1 Training to the focal person 2-2 Quick feed back of laboratory information	INPUTS		<ul style="list-style-type: none"> Trained c/p continue their work at polio laboratory Local cost bearing by Ethiopian Government is sufficient Cooperation from the other service of the EHNRI is obtained. <p style="text-align: center;">PRECONDITIONS</p> <ul style="list-style-type: none"> Support from Ethiopian and Japanese government on the finance and the man power is obtained No disaster, epidemic disease occur
	Japanese side <ul style="list-style-type: none"> Long term experts: <ol style="list-style-type: none"> Team leader Coordinator Short term experts: <ol style="list-style-type: none"> Virologist Engineer for laboratory equipment Other necessary experts on request Supply of equipment Equipment for polio laboratory Counterpart training Supply of facilities (Physical infrastructure expenses) Building of a new polio laboratory 	Ethiopian side <ul style="list-style-type: none"> Counterparts <ol style="list-style-type: none"> Director Deputy Director Polio laboratory scientist Polio laboratory technician Medical engineer Others Supply of facilities <ol style="list-style-type: none"> Project office (20 m²) Existing polio laboratory (110 m²) Local cost 	



ANNEX II

REVISED MASTER PLAN

1.OVERALL GOAL

Wild polioviruses are eliminated in Ethiopia

2.PROJECT PURPOSE

Polio Laboratory at EHNRI can always obtain approval of WHO(AFRO)as a NRL

3.OUTPUTS

1-1 Building of a new polio laboratory is completed

1-2 Function of polio laboratory is improved

2. Information exchange / cooperation activities with EHNRI and MOH are strengthened

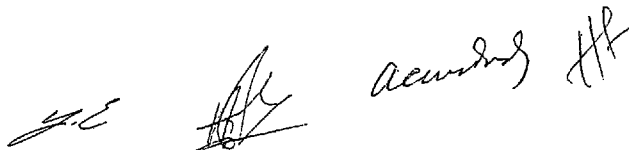
4.ACTIVITIES OF THE PROJECT

1-1 Construction and functional expansion of polio laboratory

1-2 Technical promotion of isolation and typing to the laboratory staff

2-1.Training to the focal person

2-2 Quick feed back of laboratory information

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