

Other vaccines given for the 30 day period before the onset of symptoms

Name of vaccine	Date of vaccination

### Initial symptoms and clinical findings

Fever (Yes / No / Unknown)

(specify in case of "Yes") Period of fever exceeding 37.5°C \_\_\_\_\_  
Maximum body temperature (°C) \_\_\_\_\_

Paralysis (Yes / No / Unknown)

In case of "Yes":

Date of appearance \_\_\_\_\_

Correlation between paralysis and other clinical findings:

1. paralysis appears without the development of a fever
2. paralysis appears before or after diarrhea
3. an increase in temperature exceeding 37.5°C continues before the onset of paralysis)

Sites of paralysis: Lower extremities: left, right

Upper extremities: left, right

Face: left, right

paralysis of respiratory muscle

Characteristics: 1. Flaccid

2. Spastic

Progress of paralysis: 1. Rapid progress within a few days

2. Gradual and slow progress

3. None

4. Unknown

### Other symptoms:

Headache (Yes / No / Unknown)

Abdominal pain (Yes / No / Unknown)

Sore throat (Yes / No / Unknown)

Extremity pain (Yes / No / Unknown)

Spasm (Yes / No / Unknown)

Abnormal sweating (Yes / No / Unknown)

Nausea (Yes / No / Unknown)

Vomiting (Yes / No / Unknown)

Diarrhea (Yes / No / Unknown)

Pharyngeal reddening (Yes / No / Unknown)

**Conjunctivitis (Yes / No / Unknown)**

Exanthem (Yes / No / Unknown)

in case of "Yes" (1. Urticaria-like; 2. Measly; 3. Rubella-like; 4. Scarlatinoid; 5. Other)

Reflexes: Tendon reflex of paralyzed extremity

(1. Increase; 2. Normal; 3. Decrease; 4. Disappearance)

Babinski's reflex (Yes / No / Unknown)

Kernig's sign (Yes / No / Unknown)      Stiff neck (Yes / No / Unknown)

Dysesthesia (Yes / No / Unknown)

Dyschezia and urinary disorder (Yes / No / Unknown)

### In case of "Yes"

(1. Urinary retention; 2. Urinary incontinence; 3. Constipation; 4. Fecal incontinence)

Disorder of consciousness (Yes / No / Unknown)

In case of "Yes" (1. Apathy; 2. Somnolence; 3. Indistinct consciousness; 4. Drowsiness)

#### Clinical findings:

Examination of cerebrospinal fluid (Yes / No)

In case of "Yes":

Date of collection \_\_\_\_\_ (clinical day)

(The day of onset of fever is defined as the first clinical day. In feverless cases, the day of onset of paralysis is defined as the first clinical day.)

(1. Watery clear; 2. Sunlight fine particles; 3. Ground glasslike; 4. Clouded with blood;  
5. (4+1) xanthochromia)

Cell count (1.  $\leq 5/\text{mm}^3$ ; 2.  $6 - 10/\text{mm}^3$ ; 3.  $11 - 50/\text{mm}^3$ ; 4.  $51 - 100/\text{mm}^3$ ;  
5.  $101 - 500/\text{mm}^3$ ; 6.  $\geq 501/\text{mm}^3$ )

Protein (Pandy - ± + II N.A - ± + II)

(1.  $\leq 40$  mg/dl; 2. 41 - 100 mg/dl; 3. 101 - 200 mg/dl; 4.  $\geq 201$  mg/dl)

Sugar (mg/dl)

## Patient's surroundings

If diseases which are probably related to the disease in question are detected around the patient, the details should be explained.

## **Investigational Record of Patients with Poliomyelitis-like Diseases II**

(Follow-up investigation)

Name of Medical Care Facility \_\_\_\_\_

Department \_\_\_\_\_

Name of Physician \_\_\_\_\_ Tel \_\_\_\_\_

Patient's Initials \_\_\_\_\_ (male/female) Date of Birth \_\_\_\_\_

Address (name of prefecture only) \_\_\_\_\_ Date of Onset \_\_\_\_\_

Notification Yes No

Notification of Transference Yes No

Follow-up investigation of other clinical courses (Date of evaluation \_\_\_\_\_)

Remaining paralysis (Yes / No)

In case of "Yes"

Site of residual paralysis

- [1. Right upper extremity; 2. Left upper extremity; 3. Right lower extremity;
- 4. Left lower extremity; 5. Others (        )]

Differences between the residual paralyses, right and left (Yes / No)

Muscular atrophy (Yes / No)

In case of "Yes"

Site of Muscular Atrophy

- [1. Right upper extremity; 2. Left upper extremity; 3. Right lower extremity;
- 4. Left lower extremity; 5. Others (        )]

Differences between the residual muscular atrophy, right and left (Yes / No)

Clinical course and prognosis:

Date of evaluation (        ) (clinical day        )

- (1. Within 2 months; 2. 2 -12 months; 3. More than one year)

Outcome (1. Completely healed; 2. Sequela (1. Mild; 2. Moderate; 3. Serious); 3. Death;

- 4. Transference (the name of disease:        )

In case of death:

Date of death \_\_\_\_\_ (clinical day \_\_\_\_\_)

Cause of death \_\_\_\_\_

Autopsy (Yes / No)

Name of the institute where autopsy was held \_\_\_\_\_

Name of the physician in charge of autopsy \_\_\_\_\_

Pathological diagnosis:

\_\_\_\_\_

**Isolation of virus**

Name of laboratory \_\_\_\_\_ Name of clinical technologist \_\_\_\_\_

Specimen	Date of collection (clinical day)	Date of receipt of specimen	Result of isolation,			Cells used for isolation	Isolated virus	Classification of types (wild type, vaccine type)
			Date of report	Date of final judgment	positive / negative			
	( )				positive / negative			
	( )				positive / negative			
	( )				positive / negative			
	( )				positive / negative			
	( )				positive / negative			

**Serological examination**

Name of laboratory \_\_\_\_\_ Name of clinical technologist \_\_\_\_\_

Date of blood collection (clinical day)	Neutralizing antibody		
	I	II	III
( )			
( )			
( )			
( )			
( )			

Other findings contributing to the diagnosis:

**Final diagnosis:**

Date of final diagnosis \_\_\_\_\_

Name of the physician in charge of making the final diagnosis \_\_\_\_\_

**Clinical evaluation:**

I. Cases of poliomyelitis:

1. Spinal type; 2. Landry's paralysis type; 3. Bulbar/pons type;
4. Bulbar/pons type + Spinal type; 5. Bulbar/pons type + Landry's paralysis type;
6. Meningeal/ encephalitis type; 7. Meningeal/encephalitis type + Spinal type;
8. Meningeal/ encephalitis type + Landry's paralysis type

## II. Cases of diseases other than poliomyelitis:

1. Guillain-Barré syndrome (including acute axon type); 2. Acute non-polio myelitis;
  3. Acute viral myositis; 4. Acute infantile paralysis; 5. Acute encephalomyelitis;
  6. Injection paralysis; 7. Acute myelitis/arthritis;
  8. Postepileptic paralysis (Todd's paralysis)

### III. Others

( )

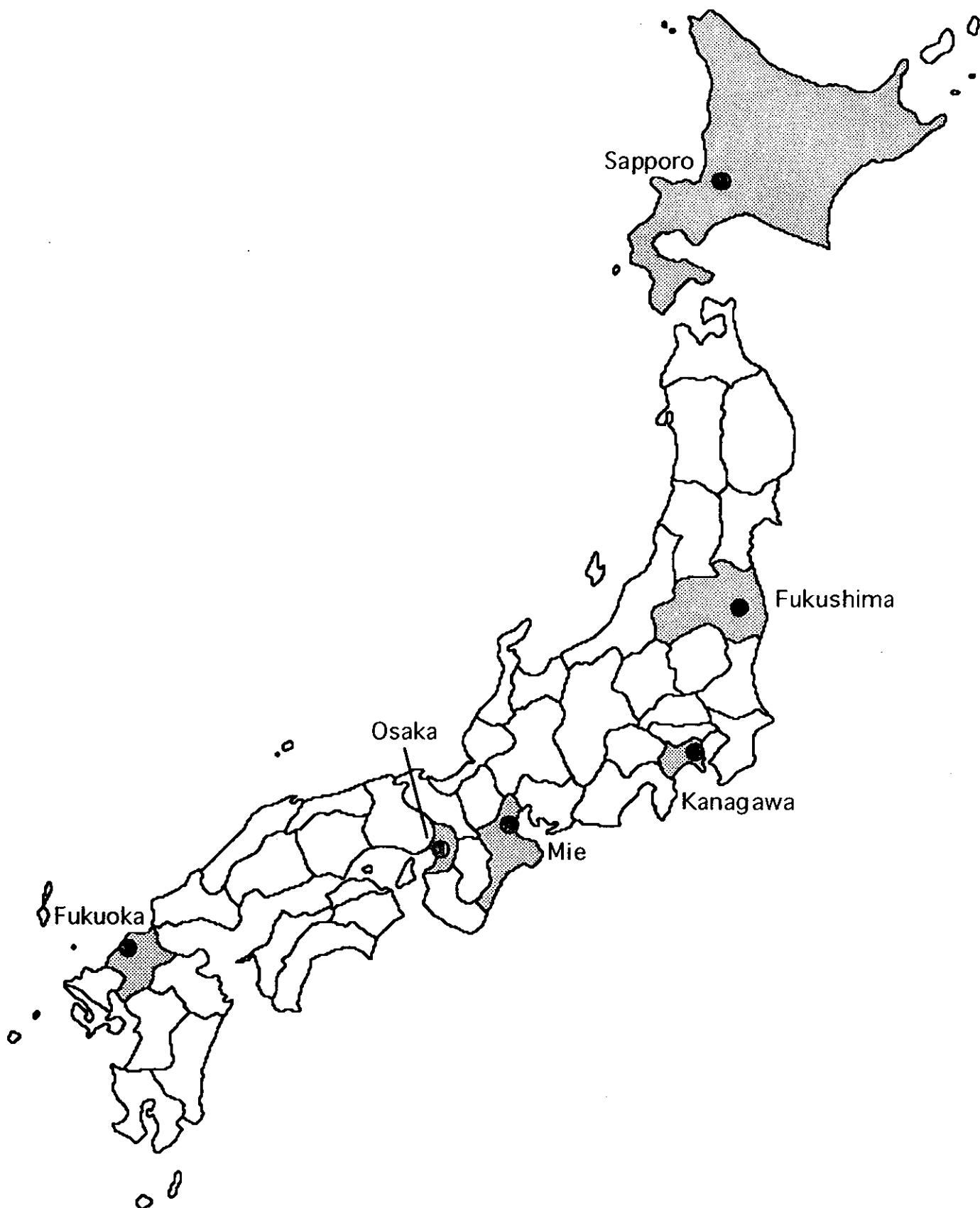
### Etiology

1. Poliovirus ( I, II, III ): 2. Echovirus: 3. Coxsackie virus ( ),  
4. Others ( ); 5. Unknown; 6. Incapacity

## Remarks

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## Annex 2-3



## **Annex 2-4**

### **List of doctors conducted in supplementary AFP surveillance**

(1) Dr. Shunzo Chiba

Department of Pediatrics  
Sapporo Medical College

Dr. Takehiro Togashi

Department of Pediatrics  
Sapporo City Hospital

Dr. Harumi Sawada

Hokkaido Institute of Public Health

(2) Dr. Teiji Yamamoto

Department of Neurology  
Fukushima Prefectural Medical University

Dr. Hitoshi Suzuki

Department of Pediatrics  
Fukushima Prefectural Medical University

Dr. Sayoko Suzuki

Fukushima Institute for Public Health and Environmental Science

(3) Dr. Tatsuo Kato

Department of Pediatrics  
St. Marianna Medical University

Dr. Yuzo Noguchi

Yokohama City Institute of Health

(4) Dr. Akira Kamiya

National Mie Hospital

Dr. Tetsuo Yoneyama

Department of Virology II  
National Institute of Infectious Diseases

(5) Dr. Shintaro Okada  
Department of Pediatrics  
Osaka University School of Medicine

Dr. Kousuke Haruki  
Osaka City Institute of Public Health and Environmental Sciences

(6) Dr. Koji Ueda  
Department of  
Seinan Jogakuin University

Dr. Katsumi Chijiwa  
Fukuoka Institute of Health and Environmental Sciences

(1) Dr. Shunzo Chiba  
Department of Pediatrics  
Sapporo Medical College

Dr. Takehiro Togashi  
Department of Pediatrics  
Sapporo City Hospital

Dr. Harumi Sawada  
Hokkaido Institute of Public Health

(2) Dr. Teiji Yamamoto  
Department of Neurology  
Fukushima Prefectural Medical University

Dr. Hitoshi Suzuki  
Department of Pediatrics  
Fukushima Prefectural Medical University

Dr. Sayoko Suzuki  
Fukushima Institute for Public Health and Environmental Science

(3) Dr. Tatsuo Kato  
Department of Pediatrics  
St. Marianna Medical University

Dr. Yuzo Noguchi  
Yokohama City Institute of Health

(4) Dr. Akira Kamiya  
National Mie Hospital

Dr. Tetsuo Yoneyama  
Laboratory of Enteroviruses  
Department of Virology II  
NIID

(5) Dr. Shintaro Okada  
Department of Pediatrics  
Osaka University School of Medicine

Dr. Kousuke Haruki  
Osaka City Institute of Public Health and Environmental Sciences

(6) Dr. Koji Ueda  
Department of  
Seinan Jogakuin University

Dr. Katsumi Chijiwa  
Fukuoka Institute of Health and Environmental Sciences

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以降 P.136–154 は図書/雑誌に掲載された論文となりますので、下記の「資料」をご参照ください。

「資料」

**Antigenic and biochemical characterization of poliovirus type 1 isolates of non-vaccine origin.**

Hara M, Hagiwara A, Yoneyama T, Saito Y, Shimojo H.

Microbiol Immunol. 1983;27(12):1057–65.

**Characterization of a wild poliovirus type 3 isolated Japan in 1993.**

Yoneyama T, Fujiwara T, Yokota Y, Takemika Y, Hagiwara A.

Jpn J Med Sci Biol. 1995 Feb;48(1):61–70.

## Annex 6-1

### List of prefectural and municipal public health institutes

Prefecture /city	Institute
Hokkaido P.	Hokkaido Institute of Public Health
Sapporo C.	Sapporo City Institute of Public Health
Hakodate C.	Hakodate City Institute of Public Health
	Research
Aomori P.	Aomori Prefectural Institute of Public Health
Iwate P.	Iwate Prefectural Institute of Public Health
Miyagi P.	Miyagi Prefectural Institute of Public Health and Environment
Sendai C.	Sendai Municipal Institute of Public Health
Akita P.	Akita Prefectural Institute of Public Health
Yamagata P.	Yamagata Prefectural Institute of Public Health
Fukushima P.	Fukushima Institute of Health
Ibaraki P.	Ibaraki Prefectural Institute of Health
Tochigi P.	Tochigi Prefectural Institute of Public Health and Environmental Science
Gunma P.	Gunma Prefectural Institute of Public Health and Environmental Sciences
Saitama P.	Saitama Institute of Public Health
Chiba P.	Public Health Laboratory of Chiba Prefecture
Chiba C.	Chiba City Institute of Health
Tokyo M.	Tokyo Metropolitan Research Laboratory of Public Health
Kanagawa P.	Kanagawa Prefectural Public Health Laboratory
Yokohama C.	Yokohama City Institute of Health
Kawasaki C.	Public Health Research Institute of The City of Kawasaki
Yokosuka C.	Yokosuka City Institute of Public Health
Niigata P.	Niigata Prefectural Research Laboratory for Health and Environment
Niigata C.	Niigata City Institute of Public Health
Toyama P.	Toyama Institute of Health
Ishikawa P.	Ishikawa Research Laboratory for Public Health and Environment
Fukui P.	Fukui Prefectural Institute of Public Health
Yamanashi P.	Yamanashi Institute for Public Health
Nagano P.	Nagano Research Institute for Health and Pollution
Gifu P.	Gifu Prefectural Health and Environmental Research Center
Gifu C.	Hygienic Laboratory of Gifu City
Shizuoka P.	Shizuoka Prefectural Institute of Public Health and Environmental Science
Shizuoka C.	Shizuoka City Institute of Public Health
Hamamatsu C.	Hamamatsu City Institute of Public Health
Aichi P.	Aichi Prefectural Institute of Public Health
Nagoya C.	Nagoya City Health Research Institute
Mie P.	Mie Institute of Public Health

Kyoto P.	Kyoto Prefectural Institute of Hygienic and Environmental Sciences
Kyoto C.	Kyoto City Institute of Health and Environmental Sciences
Osaka P.	Osaka Prefectural Institute of Public Health
Osaka C.	Osaka City Institute of Public Health and Environmental Sciences
Sakai C.	Sakai City Institute of Public Health
Hyogo P.	Public Health Institute of Hyogo Prefecture
Kobe C.	Public Health Research Institute of Kobe City
Himeji C.	Himeji City Research Institute of Public Health
Amagasaki C.	Amagasaki City Institute of Public Health
Nara P.	Nara Prefectural Institute of Public Health
Wakayama P.	Wakayama Prefectural Research Center of Environment and Public Health
Wakayama C.	Wakayama City Institute of Public Health
Tottori P.	Tottori Prefectural Public Health Laboratory
Shimane P.	Shimane Prefectural Institute of Public Health and Environmental Science
Okayama P.	Okayama Prefectural Institute for Environmental Science and Public Health
Hiroshima P.	Hiroshima Prefectural Health and Environmental Center
Hiroshima C.	Hiroshima City Institute of Public Health
Yamaguchi P.	Yamaguchi Prefectural Research Institute of Health
Tokushima P.	Tokushima Prefectural Institute of Public Health and Environmental Sciences
Kagawa P.	Kagawa Prefectural Institute of Public Health
Ehime P.	Ehime Prefectural Institute of Public Health
Kochi P.	Public Health Institute of Kochi Prefecture
Fukuoka P.	Fukuoka Institute of Health and Environmental Sciences
Fukuoka C.	Fukuoka City Institute of Public Health
Kitakyushu C.	Kitakyushu City Institute of Environmental Sciences
Saga P.	Saga Prefectural Institute of Public Health
Nagasaki P.	Nagasaki Prefectural Institute of Public Health and Environmental Science
Nagasaki C.	Nagasaki Municipal Public Health and Environment Laboratory
Kumamoto P.	Kumamoto Prefectural Institute of Public Health and Environmental Science
Kumamoto C.	Kumamoto City Environmental Research Institute
Oita P.	Oita Prefectural Institute of Health and Environment
Miyazaki P.	Miyazaki Prefectural Institute for Public Health and Environment
Kagoshima P.	Kagoshima Prefectural Institute of Public Health
Okinawa P.	Okinawa Prefectural Institute of Health and Environment
P. : Prefecture	C. : City      M. :Metropolitan

## Annex 6-2

### Investigational Report of Patients with Poliomyelitis-like Diseases

Local hygiene institute code			Name of person in charge		
Name of patient (initials)		Sex	M / F	Date of birth	
Diagnosis				Date of onset	
History of vaccination					
Date of collection of fecal specimen	(1)		(2)		
Cells used for isolation					
Cells used for identification					
Laboratory results					
Samples other than fecal specimen					
Laboratory results					

### Annex 6-3

Patient ID number	Age	Sex	Vaccine history	Date of onset	Diagnosis	Materials	Virus isolated	Location
AFP-98-1	1Y	M	1998/04/07	1998/04/11	Transient paralysis	Throat swab + Feces	Sabin II	Nagoya, Aichi
AFP-98-2	36Y	M	None	1998/06/01	Poliomyelitis	Feces	Sabin I	Asahikawa, Hokkaido
AFP-98-3	8Y	M	Not clean	1998/10/17	GBS <sup>a</sup>	Feces + Spinal fluid	Negative	Obihiro, Hokkaido
AFP-98-4	2Y	M	1997/05/12 (2 <sup>nd</sup> )	1998/10/17	Transient paralysis	-	Coxsackie Virus B2	Sapporo, Hokkaido
AFP-98-5	2Y	M	1996/10/? <sup>a</sup> (1 <sup>st</sup> ) 1997/10/28 (2 <sup>nd</sup> )	1998/11/08	Poliomyelitis	Feces	Sabin III	Kyoto, Kyoto
AFP-98-6	9Y	M	1989/04/11 (1 <sup>st</sup> ) 1989/10/20 (2 <sup>nd</sup> )	1998/09/02	Periodic paralysis	Feces	Negative	Gifu
AFP-98-7	2Y	M	Not clean	1998/12/15	Todd paralysis	Feces	Negative	Hokkaido
AFP-99-1	13Y	M	1988/04/17 (2 <sup>nd</sup> )	1999/04/05	GBS <sup>a</sup>	Feces	Negative	Saitama
AFP-99-2	3Y	M	(2 times)	1999/02/15	GBS <sup>a</sup>	Spinal fluid	Negative	Yokkaichi, Mie
AFP-00-1	1Y1M	M	1999/10/20 (1 <sup>st</sup> ) 2000/04/11 (2 <sup>nd</sup> )	2000/05/03	Aseptic meningitis	Feces	Negative	Fukuoka
AFP-00-2	37M	M	Not clear	2000/05/23	Poliomyelitis	Feces	Sabin III	Miyazaki

a: Guillain Barré syndrome

## Annex 6-5

#	Patient No.	Age	Sex	Date of Hospitalization	Date of Discharge	Diagnosis	Vaccination	Residual Paralysis
1	H-1	6Y	M	1998/07/07	1998/07/26	GBS	2	-
2	-2	4Y4M	M	1998/07/22	1998/08/31	GBS	2	-
3	-3	9Y2M	M	1998/08/18	1998/09/14	GBS	2	-
4	-4	3Y7M	M	1998/10/21	1998/11/30	AFP (left upper)	2	+
5	-5	7Y11M	M	1998/10/30	1998/11/03	Viral myositis	2	-
6	-6	10Y5M	F	1998/11/30	1998/12/03	GBS	2	-
7	-7	2Y7M	M	1998/12/16	1999/01/06	Post convulsion paralysis	0	+
8	-8	8Y8M	F	1998/12/16	1999/01/20	AFP (upper)	2	+
9	F-1	6Y2M	F	1998/04/09	1998/05/09	Transverse myelitis	2	-
10	-2	4Y11M	M	1998/07/02	1998/07/20	GBS	2	-
11	-3	6Y4M	M	1998/09/22	-	GBS	2	+
12	-4	12Y	M	1998/09/25	1998/10/06	Acute myelitis	2	-
13	-5	2Y7M	M	1998/11/30	-	GBS	2	-
14	K-1	12Y6M	F	?	?	GBS	2	-
15	M-1	5Y	M	1997/09/27	1998/01/16	GBS	2	-
16	-2	11Y	F	19998/01/12	1998/07/12	ADEM	2	-
17	-3	6M	M	1998/04/10	1998/04/10	Encephalitis	0	+
18	O-1	6Y4M	M	1998/04/21	1998/05/09	Bell's palsy	2	-
19	-2	3Y1M	M	1998/07/23	1998/07/24	Todd's palsy	0	-
20	-3	5Y3M	M	1997/10/28	1998/01/14	Spinal tumor	+	dead
21	-4	6Y11M	M	1997/11/25	1998/01/14	GBS	+	-
22	-5	12Y3M	M	1998/01/05	1998/02/13	ADEM	+	-
23	-6	1Y2M	M	1998/04/04	1998/05/14	ADEM	+	-
24	-7	10Y	F	1998/02/17	1998/03/31	Cerebrovascular disease	0	-

25	-8	4Y	F	1998/03/04	1998/03/21	Cerebrovascular disease	0	+
26	-9	3Y	F	1998/03/18	1998/06/11	GBS	2	-
27	-10	10Y	F	1998/03/23	1998/04/08	GBS	2	-
28	-11	3Y	M	1998/12/22	-	Transient paralysis	1	-
29	-12	9Y1M	F	1997/08/20	1998/02/28	GBS	2	+
30	-13	5Y1M	F	1998/09/10	1998/10/23	Monoradiculitis	2	+
31	-14	10Y8M	M	1998/06/01	1998/06/04	GBS	2	-
32	-15	7Y	F	1998/06/01	1998/06/16	Arteria spinalis Anterior syndrome	2	-
33	-16	2Y1M	F	1998/09/16	1998/10/09	GBS	2	-
34	-17	4Y	M	1998/12/23	1999/01/20	GBS	2	-
35	-18	12Y9M	M	1998/11/16	-	GBS	4	-
36	-19	4Y3M	F	1998/10/15	1998/10/19	Transverse myelitis	2	+
37	Fu-1	12Y	M	1998/03/04	1998/03/24	GBS	2	-
38	-2	14Y	M	1998/03/31	1998/04/20	GBS	2	-
39	-3	15Y	M	1998/04/09	1998/11/10	GBS	2	+
40	-4	10M	M	1998/04/25	1998/06/10	Myopathy	0	+
41	-5	4Y8M	F	1998/05/07	1998/07/08	Transverse myelitis	2	+
42	-6	1Y9M	F	0998/06/01	1998/06/25	GBS	2	-
43	-7	5Y	M	1998/06/23	1998/06/26	Transient muscular incompetence	?	-
44	-8	4M	M	1998/08/03	-	Spinal tumor	?	+
45	-9	2Y11M	M	1998/12/01	1998/12/17	GBS	2	-
46	-10	3Y8M	M	1998/12/30	-	Recurrent hemiparesis	2	-

## Annex 6-6

### Line listing of compatible AFP cases

Year: 1999.1 ~ 2000.3

### ANNEX 6-6

#	ID Number	Name	Age	Date of onset	Stool Specimens			Clinical Final Diagnosis	Residual Paralysis	
					#	Date Collected	Virus Isolation	OPV	Diagnosis at Hospitalization	
1	H-1		1.8	99.1.18	2	1/19, 1/22	(-)	1	-	GBS + ADEM
2	-2		14	99.3.31	0		NT	2	-	GBS
3	-3		0.9	99.7.8	2	7/9, 7/10	(-)	1	-	Todd
4	-4		11	99.9.3	2	9/13, 9/14	(-)	2	-	Myositis
5	-5		14	99.12.2	0		NT	2	-	GBS
6	-6		9	00.1.7	2	1/13, 1/14	(+)	1		Transverse myelitis
7	F-1	KK	3.2	99.4.20				1	GBS	GBS
8	-2	MW	4.6	99.4.21				2	GBS	GBS
9	-3	YM	14	99.7.5	2	7/7, 7/8	(-)	2	GBS	GBS
10	-4	KR	3.5	99.9.4	2	9/13, 9/14	(-)	2	GBS	GBS
11	-5	YS	1.2	99.11.11	0			2	GBS	GBS
12	-6	KN	1.3	99.8.30	2	8/31, 9/1	Cox B2	0	AFP	Acute cellulitis
13	K-1		2.6	00.2.18	2	3/7, 3/8	(-)		GBS	GBS
14	-2		1.9	00.3.25	2	3/30, 4/3	(-)		GBS	GBS
15	-3		2.4	99.10.21	0			2	GBS	GBS
16	M-1		3.5	99.2.15 (CSF)	3/3	(-)	2	GBS	GBS	
17	O-1	SK	11	99.4.10	2	5/8, 5/9	(-)			Fisher syndrome
18	-2	KK	7.11	99.5.6	2	7/8, 7/9	(-)	2		GBS
19	-3	TK	2.3	99.5.21	2	5/22, 5/27	(-)	1		Drug induced paralysis
20	-4	IS	4.11	99.6.3	2	6/30, 6/30	(-)	2		ADEM

Notes: Outcome variables Polio, polio-compatible, discarded, pending