

Final Report

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Name : Mizuki Inazumi

Job Classification : Filariasis Control

Name of Host Organization : Ministry of Health

Work Place : Filariasis Control Unit

Duration of Assignment : April 2002 - June 2004

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Mizuki Inazumi

Japan Overseas Cooperation Volunteer (JOCV)

Final Report

1. INTRODUCTION

I've been working with the Filariasis Control Unit, Ministry of Health for the past two years as a JOCV (Japan Overseas Cooperation Volunteers). Samoa is one of the endemic countries with Lymphatic Filariasis, and it is participating in the Pacific programme for the Elimination of Lymphatic Filariasis (PacELF).

At first, the Ministry of Health made a request for my assistance with data analysis using the computer and also to work with the Filariasis team. I was involved with all the activities of the Filariasis programme and assisted in conducting them. It was very hard for our team to practice along the PacELF programme because of the lack of quality and also the quantity of staff. This meant there was only a few staff who had experience and knowledge of Lymphatic Filariasis. However, our team has been improving during the two years.

This is the final report of my two years contract.

2. ACTIVITIES

I assisted in conducting all the activities of the Filariasis team. We had a blood survey and a Mass Drug Administration (MDA) every year.

For the blood survey, I helped the team with the preparation, field work and data analysis. For MDA, I was involved with planning, packing the drugs, drug distribution and data analysis.

(1) Blood survey

The blood survey in 2002 was the midtern evaluation after three rounds of MDA of the PacELF programme. The purpose was to assess the impact of MDA.

We had some problems during this survey.

First, ICT test cards were changed from the previous year, so the quality of the card was also changed. The new ICT test cards had to be read ten minutes after dropping the blood to be accurate, as negative results would turn positive after several hours. For first few villages which were tested both before I joined and after, the cards were not read after ten minutes. Some of them were read at about ten minutes after sample was taken but others were read after several hours, or after returning to office (sometimes next day). As a result, we were not sure of the exact results.

Secondly, many failed test cards from which we could not see exact results, were found.

The reasons were as follows: (i) not enough blood was taken and applied to test

cards. (ii) too much blood was dropped onto the test cards. (iii) It would also have failed if blood wasn't dropped on the exact part of the test card.

The third problem was registration and numbering of ICT test cards and slides. These were inaccurate because of misnumbering. Blood surveys were usually held at a main fale in the village where the Filariasis team was staying. Most of the villagers came up to the fale to be tested. On the other hand, some of the team members went on home visits in the evenings to find people who had not yet been tested. For the home visit activities, they took pieces paper for registration. Sometimes they copied the information to the main registration book but sometimes they did not do that and they just kept the papers with the book. When they copied the paper, they renumbered to register in the main book. However, they did not renumber ICT test cards and slides. This caused confusion with results.

I discovered these problems and tried to solve them with our team.

For the first and second problems, we checked again on how to use ICT test cards with Dr. Ichimori who is the PacELF team leader when she visited Samoa in May 2002. After that I explained the exact directions on how to use ICT test cards to all the staff again, so as to avoid any failures. Nevertheless, we found a few failed tests. Those failed cases were not included in the results.

For the third problem, I suggested that we should put numbers on the registration book and slides before we went to the village to avoid misnumbering and extra work. To avoid any mix up with equipment, I suggested putting all equipment in order on the table in the field. The practice had been to put them randomly on the table. I also recommended that we copy all the registration papers from the home visit to the main registration book and renumber all the ICT test cards and slides from the home visit before we left the village.

As a result, there was much improvement in the performance of the survey and the number of failed tests was reduced.

During the blood survey in 2003, these problems were cleared but the team members were changed from the previous blood survey. I had to explain the procedures carefully again to both the new team members and also to the former members to make sure of the correct proprocedure. There is a permanent staff Mr. Lalomilo Maiava in our team. He is experienced with blood surveys and has good techniques for taking blood. Some of our staff had a few experiences, but not enough to perform in the field. All staff with the exception of Lalomilo, were not accustomed to this job. They were taught about Lymphatic Filariasis by Dr. Ichimori and Dr. Kimura who is a consultant of the Filariasis project, and who visited Samoa through the auspices of WHO. The training for taking blood was done by Lalomilo.

This survey was smaller than the previous one. It was a sentinel survey for 881 samples from 6 villages. It was not so difficult to perform, but there were some

problems which were different from the previous survey. Some villages had surveys going for several years in order to assess the changes in the prevalence rate of microfilaria. This was very important for this elimination project. However, one of these villages refused to be tested. We were aware that it was very troublesome for them, so we did not force them to comply. We had to select another village from the sentinel villages. We then had to explain carefully to the village people about the survey, as we would be continuing this sentinel survey for a further few years.

Consequently, we finished the survey successfully, and I entered all the data into the computer. I was supposed to train staff on how to operate a computer, but our computer for the training programme was out of order to carry out the training programme when I was planning to train them, and so we did not have enough time for the additional training.

(2) Mass Drug Administration(MDA)

The 4th MDA of 5 rounds planned by PacELF was held in 2002. For the preparation I asked YAZAKI Samoa, a Japanese company to give us boxes for packing drugs. Since our staff had experience with MDAs before, they organized the distribution in the same way as the previous one, and I assisted them. It was not successful. The treated coverage was the lowest of the 4 rounds of MDA which were carried out previously. I guess the reason why it failed was because the preparation was not properly done and there was no clear cooperation with other sections, such as community nurses, district health centers, health promotion and women's committees. I contributed to the project by entering data and with the results.

The MDA held in 2003 was the last one of 5 rounds. Samoa is the first country to complete 5 rounds of MDA programming by PacELF. Dr.Kimura came to Samoa to assist in preparation of this MDA. I made lists for every village and district to ensure how many drugs and registration books they needed according to Dr. Kimura's suggestions. That was very helpful and effective, not only for the packing and distribution of drugs, but also for analysis and follow up. A workshop was held by Dr. Kimura for community nurses and the Filariasis team. He lectured about the details of Lymphatic Filariasis and MDAs. We also had workshops at each health district for drug distributors, such as women's committee and village mayors. We explained about PacELF programme and the registration books. We worked closely with the district nurses. They cooperated with us very well. The people responsible for every book were listed according to the nurse's information. The list assisted us in cllecting the books from the villages. It was easy to pursue the books which had not been returned according to the list. When books were returned to the filariasis office, the team calculated each book, and I entered all the information from the books into the computer. Then I made a table of the summary, and updated it daily.

The table was displayed on the wall and the books which were not returned were marked. The follow up activity was conducted efficiently using this information and the list of the treatment coverage for each village at that time. Follow up of 5th MDA should be done well this time. However, because of the outbreak of rubella, and the problems of Cyclone Heta, community nurses became very busy and people were a bit ansettled. We could not make good progress after the cyclone at the beginning of this year. Nevertheless, the filariasis team made an effort to treat more than 80% of the whole population in each village. As a result, the final coverage of treatment was achieved to 80% in the whole country. As pregnant women, babies under two years of age, old people over eighty years, and very sick people need not be treated, the treatment coverage for the eligible population must be more than 90%. Since the filariasis team worked very hard for the preparations, distribution, follow up and calculation, this 5th MDA should be finished with improved results.

(3) Final evaluation survey

Filariasis team is carrying out the final evaluation survey to assess the effect of MDA. It is planted from May to November 2004. This is a very tight schedule. Therefore, the preparation is very important. I asked JICA to assist for two coolers which are used for packing and hand carrying in the field. We already done the trial survey at four villages and got some feedback from them. The method of this survey is different from previous surveys. The significant differences are as follows:

- (i) The samples must be randomly selected in strict order.
- (ii) The interviews about the overall MDA, clinical history, family history and treatment history need to be done at registration, as well as the general information for everyone.
- (iii) The KAP study must be done on 20 people, who are over 14 years of age in each village.

Owing to this extra work to be done, we were somewhat confused in the field and as a result some materials were short. However, these problems will not occur if the preparations are done properly. The team has already recognized this possibility and so they have already packed the equipment for Savaii. In order to avoid misnumbering and confusion between the two teams, the ID number should be entered to the registration forms in advance. I have already done this for Tuasivi and Fagamalo districts. I have showed the staff how to do this. The numbers to be used in each village are for 1-200. However, extra forms should be packed in case there are failed tests. I have also taught some of the staff how to enter data into the computer, as I have already made the database for entering the results. Instructions are as follows:

(i) The file name is "entering data" in the folder of "FES 2004" listed in "My

Documents".

- (ii) The list of villages is also in that folder.
- (iii) Check the ID code for each village.
- (iv) When data entry is completed, chose "Save as" from the File, enter "ID code" and "the name of the village" for the filename and save.
- (v) Do not just save.
- (vi) Save on some other disks as there is a possibility of damage sometimes and data will be lost.
- (vii) Floppy disks are easy to be damaged because of humidity.
- (viii) Save on other hard disks if possible and please remember that saving information on floppy disks is just a temporary measure.

I completed the Data Book for 2002-2003. All the data of blood survey and MDA is included. I also made the book for 5^{th} MDA. It shows the process of 5^{th} MDA with photographs.

The mission of PacELF programme is very difficult to carry out for the fialariasis team. The team, however, is improved very well in these two years. There is no plan to send a JOCV from JICA after me. I am sure that they can carry out their tasks by themselves with assistance from PacELF. I expect that the team will accomplish their tasks and eliminate LF from Samoa.

Thank you very much for your kind assistance for my activities and also for my life in Samoa. Fa'afetai tele lava & Ia fa'amanuia atu o le Atua.

Village list for Final Evaluation Survey 2004

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23		D4	Leulumoega 2		atuilagi		87		87	
24		D5	Leulumoega 2		anono Uta		1256		200	
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72	L		Safotu 1	Avao		217	200	
73	L:		Safotu 1	Saleia		281 280	200	
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75	M		afotu 2	Paia		173	173	
76	M:		afotu 2	Lefagaoali		314	200	
77	M ²		afotu 2	Letui	'	462	200	
78	M		afotu 2	Samauga		278	200	
79	N1		ataua	Sataua		295		Alternative
80	N2		ataua	Tufutafoe		786	200	
81	N3		ataua	Falelima		337	200	
82	N4		ataua	Vaotupua		424	200	
83	N5		itaua	Utuloa		187 35	187	
84	01		alalo	Siutu		661		Alternative
85	02		alalo	Foaluga			200	
86	03	Fo	alalo	Sagone		574 791	200	
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2004 BLOOD SURVEY FOR FINAL EVALUATION SAMOA Health District:

## Samoa Filariasis KAP Survey

1.1 In your opinion, what is filariasis?  (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER)  1			Registration ID#_
DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER	1.1 In your oninion what is	filariacie?	
I disease   3			COPE 10 MINERAL 12 TOMBER
2 □ parasite 2 □ big bg / arm 3 □ Disg seroum 9 □ Don't know 9 □ Other  1.2 How do you get filariasis?  (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 □ Biste of a mosquito 2 □ Connate with someone who has it / person to person 3 □ Poor hygiene 7 □ Custom / cultural practice 9 □ □ Other  1.3 In your opinion, how can we prevent the spread of filariasis? (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 □ Take medicine 2 □ Avoid people who have it 3 □ Use mosquito net 7 □ Custom / cultural practice 9 □ □ Don't know 9 □ □ Other  2.1 Do you think filariasis is a problem in Samoa? 1 □ Yes 2 □ No OT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 □ Nothing 2 □ Avoid people who have it 3 □ Data well 3 □ Data well 3 □ Data well 5 □ Don't know 9 □ Don't know 0 □ Don	l 🗆 disease		COFF AS THEY ANSWER)
2 Disk leg / sam 9 Don't know 99 Other  1.2 How do you get fillariasis?  (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER)  1 Difte of a mosquito 2 O'Connect with someone who has it / person to person 3 Door hygiene 6 Genetic / family history 9 Don't know 99 Dother  1.3 In your opinion, how can we prevent the spread of fillariasis?  (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 Date mosquito net 1 Date mosquito net 2 David people who have it 3 Doe mosquito net 4 Drinking dirty water 5 Deore mutrition 4 Droper mutrition / eat well 6 Dother mosquito control method 9 Don't know 99 Dother  2.1 Do you think fillariasis is a problem in Samoa? 1 DYes 2 DNO 8 DNOT SEAD THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 DNothing 2 David people who have it 3 Data well 3 Data well 4 Dise mosquito control method 6 Dother mosquito control method 9 Don't know 99 Dother  2.2 What do you do to avoid getting fillariasis?  (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 DNothing 2 David people who have it 3 Data well 3 Data well 4 Dise mosquito control method 8 Dractice good hygiene 99 Dother  3.1 Have you ever taken the fillariasis pills? 1 DYes 2 DNO (skip to question 3.3) 9 Don't remember (skip to 3.3) 3.11 If yes, have you taken the pills every year for the last 5 years? 1 DYes (check NA for 3.3) 2 DNO 9 Don't remember 3.2 Why have you taken the fillariasis pills? (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 DI don't want to get the disease 2 DBecause someone told me to 4 Dfoir my family 99 Dother  3.3 Why have you not taken the fillariasis pills? (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 DI don't have the disease 2 DBecause someone told me to 4 Dfoir my family 99 Dother  3.3 Why have you not taken the fillariasis pills? (DO NOT READ THE LIST BELOW, CHECK OFF AS THEY ANSWER) 1 DI don't have the disease 2 DBecause someone told me to 4 Dfoir my family 99 Dother 4 Dfoir think it is a problem in Samoa 7 DAfnaid the pills would make me sick			
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			8 🗆 NA
99 Other			

### Samoa Filariasis KAP Survey

	1	Registration ID #
A 1 In your opinion where do -	F 1.	V-C
4.1 In your opinion, where do m		
(DO NOT READ THE LIST BELOW 1	, CHECK OFF AS TH	· · · · · · · · · · · · · · · · · · ·
2  dirty water		4 ☐ eggs in water 5 ☐ swamps / marshes / lakes
2 (1 - 14 - 4		6 🗆 plants / trees
9 🛘 Don't know		o a plants / trees
99 🗆 Other		
4.2 Do you feel mosquitoes are a	health problem	n in Samoa?
l □ Yes	2 □ No	8 □ Not sure
A 3 How often de magazite es hit	a **a** 9	
4.3 How often do mosquitoes bit	•	0.7.1
l 🛘 Rarely / never	2 🗆 Sometimes	3 □ always / often
4.4 When do mosquitoes bite you	19	
1 Daytime 2 After dark/ni		Doth winds and days of the state of the stat
10 Daytinio 20 Aitei daik/iii	gnuine 5 Lie	3 oth night and day 9 □ Don't know
4.5 Where are you when you not	ica haing hit hy	mosanitoes?
1 🗆 inside at home	3 0 outside at hon	
· 2 🗆 inside at work	4 0 outside at wor	
8 🛘 don't remember	99 🗆 other	
•	<del></del>	
4.6 What do you do to avoid getti	ng bit by mosc	juitoes?
(DO NOT READ THE LIST BELOW,		
1 Use mosquito coils		5 🛘 sleep under a bed net
2 ☐ Screens on windows		6 ☐ kill with insect spray
3 🛘 Insect repellant		7  AC inside the house
4 D Clean up containers / trash around house		8 ☐ Pour fuel in puddles / marsh
9 ☐ Stay inside		10 □ burn trash / make smoke
11 □ Nothing 99 □ Other		
99 Li Ottlei		
5.1 Do you store rainwater?		
1 □ Yes describe storage container		
	Plastic bucket? Covere	ed? Outside? Etc)
5.11 If yes, why do you keep rain	wotor?	· ·
(DO NOT READ THE LIST B		AS THEY ANSWER)
I Cooking		4 Cleaning dishes / utensils
2 🛮 Laundry		5 🗆 Toilet
3 □ Bathing		6 □ Animals / livestock

.6.1 Is there anything that you would like to know about filariasis or mosquitoes?