

INFANT FEEDING STUDY

Progress Report III

i

During December 1, 1982 - April 30, 1982

Faculty of Public Health, Mahidol University

Bangkok, Thailand

1982

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1. Introduction

The infant Feeding Study in Thailand was started on 1st May 1981 and is scheduled to be completed in December 1982. Two interim progress reports covering the period of May 1 - August 31, 1981 and September 1 - November 30, 1981 were submitted earlier. This is the third progress report covering the period December 1, 1981 - April 30, 1982. This report will include a technical progress report on all phases of the study, namely ethnographic study-phase II, cross-sectional survey and marketing study.

2. Personnel carry out the study.

Principle investigators

1. Debhanom Muangman
2. Somchai Durongdej

Research Associates

3. Subarn Panvisavas
4. Santhai Serrnsri
5. Anek Hirunraks
6. Thavisak Svetsreni
7. Thonglaw Dejthai
8. Valaitip Sacholvijarn
9. Chatkaew Pravahanavin

Secretarial officers

10. Luntarima Trichatworthipong
11. Ratana Sudklay

Junior ethnographers

12. Miss Weraporn Suttana
13. Mr. Thanin Tharnasavoj

3. Technical progress report.

During December 1, 1981 - April 30, 1982, many activities were accomplished in three major study components namely ethnography, infant feeding practices survey, and marketing study, Details of all activities accomplished will be presented below:

3.1 Ethnographic study.

3.1.1 Phase I of the study was completed and the report has already prepared by Mr. Thavesak and his colleagues. In fact, it was completed on April 20, and final discussion was made with Dr.Somchai for his comments and modification. Eventually, this report was sent to the consortium later than it was expected.

3.1.2 A proposal for Phase II of the study was developed. The work plan was the extension of phase I study. Dr.Somchai and Thavesak made the proposal and submitted to the research consortium for comments, suggestion and approval. A revised proposal was sent again in the following week. Many important comments and suggestions were integrated into the original proposal. However, data collection phase II have been completed on May 21, 1982. Mr. Thavesak and two junior ethnographers named above were responsible for gathering data in the field. It was done in the hospitals both governmental and private sectors, drug stores, health centers and clinics.

3.1.3 Further activities

The first draft of report is being prepared by Mr. Thavesak and Dr. Somchai. This report will be sent to the consortium after discussion with Dr. Penny Van Esteric where she is scheduled to visit Bangkok on or about June 26, 1982.

3.2 Cross-Sectional survey

3.2.1 Final revision of the survey instrument.

As it has been stated earlier that findings from ethnographic study phase I were used to develop many content areas to

the survey instrument. This was done by discussion with junior ethnographers and Mr. Thavesak to ensure that all questions were suitable. The survey instrument was revised many times and eventually the final form of questionnaire was approved. In addition to written comments and suggestions by the consortium, several meetings were held with Dr. Baron and Ms. Baker to clarify the question items and integrate consortium's comments to the questionnaire. Their assistances were very grateful in revising the questionnaire. Slow communication for approval of the questionnaire between Thailand team and Research Consortium accounted for some delays in the initiation of field work. The questionnaire was printed and ready to be used in later part of February 1982.

3.2.2 Recruitment of the interviewers.

Interviewers were recruited from graduate students with criteria of selection suggested in the second progress report. There are so many applicants applied and only fifteen applicants were selected. Since there were many applicants, we were able to select (only those who had previous experience in interviewing). Application form and a list of interviewers' names was enclosed in Attachment # 1 and Attachment # 2 respectively for your information.

3.2.3 Training of the interviewers

A training was conducted during February 9-15, 1982. This training session, as previously suggested, included not only lecture and discussion in the class but also exercise in the field. Principal investigators and research Associates were involved in the Training. Furthermore, junior ethnographers were invited to attend the Training session to share their experiences while working in the field before interviewers started their exercises in the field. See Attachment # 3 for program of the training of interviewers. One Public Health Nurse from the health center was also invited to be a resource person to assist the interviewers while they were practicing using the questionnaire both in the class and also in the field.

3.2.4 Selection of the interviewers.

Initial plan was made to select only ten interviewers for the reason that ten set of anthropometric equipment were available. However, at the end of the training session, all the applicants were qualified it is extremely difficult to reject any one them. Therefore, all fifteen interviewers were accepted.

3.2.5 Management of the field survey.

The interviewers were divided into three groups. One group conducted mapping, others listing, identifying eligible households and finally interviewing the eligible households in that order. Field supervisors in the field included Dr. Anek, Miss Chatkaew, and Ms. Valaitip who were responsible for data collection and editing. They had a chance to meet interviewers in the field almost everyday to discuss problems, if any, to ensure the good quality of data gathered. Furthermore, Dr. Somchai made available to answer any inquiries by phone especially confirmation from the respondents for security if they had any doubt in the interviewers.

The supervisors were scheduled to meet every week to discuss progress and problems with Dr. Somchai and Dr. Debhanom. Although the interviewers met with a supervisor on the regular basis in the field, all of them had to attend the meeting at the project operation office every two weeks. In this meeting interviewers had a chance to discuss their problems with Dr. Somchai and Dr. Debhanom and share their experiences in solving problems.

The sample size in this study was approximately 1,500 which allow us to do a close supervision. The quantity of data obtained by the interviewers had to be valid and complete. Therefore, method of supervision included daily questionnaire audit and a field spot check on the daily basis, field supervisors audited all the questionnaire and any incomplete or ambiguous questionnaire had to be

clarified or re-interviewed on the following day. Attachment #4 was a form that interviewers had to record daily their performances and submitted to the supervisors every week. Quality checks were which meant that some of the respondents who were interviewed in the usual way were reinterviewed by a highly trained field supervisors. This was very important especially where fifteen temporary interviewers were engaged. The second interviewer was usually allowed more freedom and could track down a discrepancy, for instance to a simple mistake in recording. It was possible to check on the responses with the aid of observations. When a supervisor reinterviewed mothers, he simply told them that his visit wanted to thank her for cooperation provided to the interviewers.

3.2.6 Mapping.

The interviewers visited the sample blocks and updated the map originally produced by NIDA. (National Institute of Development Administration) in 1974 and numerate all the houses. See example of map of a block made by the interviewers in Attachment # 5.

3.2.7 Identification of eligible households

Having updated the map, interviews went door to door to identify eligible households by listing of all members of the families. This was done by listing card. (Attachment # 6) All the members in the families were counted to avoid any missing member especially children under 12 months of age. Families with children born whether dead or alive after March 1, 1981 was considered to be eligible to be included in the survey. There were 8,796 household listed and 1,454 eligible household identified. See Attachment # 7 for number of household listed and eligible household by block and district. Attachment # 8 showed a comparison of original numbers of households in 1978 and updated households in 1982.

3.2.8 Field survey.

After eligible households were identified, they were interviewed by a questionnaire. It took approximately 45-55 minutes to complete one interview. At the end of the interview, a child was weighted and measured his height. In addition to interviewing 1,454 households 28 households who participated in the ethnographic study were also interviewed. Therefore, a total of 1482, (1454+28) was interviewed. The survey conducted by fifteen interviewers beginning on March 1, 1982 and ended on April 16, 1982.

3.2.9 Editing

As mentioned earlier in this report after a completed questionnaire was submitted to a supervisor every questionnaire was reviewed to ensure that it was correctly completed. This was done on the daily basis and incompleted questionnaire was returned to the interviewers on the following day to clarify or to reinterview the missing question items.

3.2.10 Further activities Dr.Somchai and his colleagues is planning to draft a report of cross sectional survey by reexamining the objectives and hypothesis of the study. The letter from research consortium of May, stated that dummy table will be sent to Mahidol research team to used as a quidance for data processing.

3.3 Marketing study

3.3.1 Secondary research, Dr.Thonglaw, who are responsible for conducting secondary research has already submitted ao TAI the following reports :

1. Product labels
2. Product composition
3. Thailand health profile
4. Food regulation with regard to infant food

3.3.2 A state of industry and retail audits. These components are conducted by DEEMAR, a private marketing firm in Bangkok. A telephone communication with DEEMAR found that the study is underway. However, we have established a relationship with them by regular communication and they will inform us of any progress. I believe that DEEMAR will provide a progress report in a very near future.

3.3.3 Health service infrastructure interview.

When Dr. Solimano came to Bangkok for a short visit during February 13-17, we discussed so many technical aspects and sample to be included in the health service infrastructure interviews was also discussed. Dr. Solimano made many comments and recommendation which were very beneficial for developing a sample to be interviewed. The sample represented different sectors of health can provides which included government hospitals, private hospitals, Bangkok health centers, maternity clinics and polyclinics. The list of the sample was sent to consortium for comments and approval. Dr. Somchai and Dr. Tonglaw made a final revision and has approved for implementation. Attachment # 9 is a sample of the health service infrastructure interviews.

Furthermore, Dr. Thonglaw conducted completely Government interviews which included people who were involved in policy formulation, administration and dissemination. Data from the interviews will be sent to TAI later.

3.3.4 Further activities

It is planned to conclude all the health care provider interviews. Data of which will be stored in a tape to be submitted to TAI and the consortium. However, Dr. Post is scheduled to visit Bangkok on June 12, findings and technical issues are waiting to discuss with him.

3.4 Data processing.

3.4.1 Development of Coding manual, Dr.Somchai and Dr.Anek have already prepared a coding manual. This manual, at present, is in Thai and a translation of this copy into English will be sent to the consortium as soon as possible.

3.4.2 Coding

After field supervisors edited the questionnaire, the second reviews were made again to determine unexpected errors and their consistencies. The procedures for coding include :

1. Review and edit of questionnaire
2. Coding
3. Verifying the coded forms
4. Transferring cods to transfer sheets
5. Punching on IBM Cards

These steps were conducted by well-trained and experienced personnel under close supervision of Dr.Anek. There were 16 persons involved with coding. Each persons was assigned to be responsible for a specific task such as coding on a particular part of the forms. Each questionnaire required 12 IBM cards. By the end of May, all questionnaire have been already coded and data were ready to be entry.

3.4.3 Further activities the following activities are in the process

1. To complete recording data from transfer sheet
2. To edit for logical and consistency check by computer
3. To clean the data
4. To store all cleaned data in magnetic tape
5. To run basic data analysis

It is expected that activity # 5 will be completed by end of June. After the preliminary analysis are printed, data tape will be duplicated for further analysis.

Other Activities

Dr.Somchai, Dr.Baron and Ms.Baker of Population Council in Bangkok met several times and discussed about the proposal for a workshop on alternatives policy to improve infant feeding. Finally a draft of this proposal was submitted to the consortium for consideration.

Attachment # 1

(Application Form for Interviewers)

ประวัติของผู้สมัครขอเข้าทำงานในโครงการวิจัยการใช้แมมมาร์ทาเลี้ยงทารก

ในเขตกรุงเทพมหานคร

คณะสาธารณสุขศาสตร์ มหาวิทยาลัยมหิดล

๒๕๒๔

เขียนที่.....

วันที่..... เดือน..... Date..... พ.ศ.....

๑. ชื่อ (ภาษาไทย)..... Name..... (ภาษาอังกฤษ).....
๒. นามสกุล (ภาษาไทย)..... Surname..... (ภาษาอังกฤษ).....
๓. อายุ.....ปี เกิดเมื่อวันที่..... เดือน..... Birth Date..... พ.ศ.....
๔. นามบิดา..... Father's Name..... มารดา..... Mother's Name..... สามี-ภรรยา.....
๕. ที่อยู่ปัจจุบันของข้าพเจ้า เลขที่..... Address..... ชื่อ..... ถนน.....
อำเภอ..... จังหวัด..... โทรศัพท์.....
๖. ข้าพเจ้าได้ศึกษาวิชาสามัญโรงเรียน..... Education.....
สอบไล่ได้รับประกาศนียบัตรชั้น..... เมื่อ พ.ศ.....
๗. ข้าพเจ้าได้ศึกษาวิชาพิเศษ..... Special Skill.....
สอบไล่ได้รับประกาศนียบัตร..... เมื่อ พ.ศ.....
๘. ได้เคยทำงานที่..... Previous Experiences..... มาแล้ว..... Years.....
ในตำแหน่ง..... Position.....
๙. ชื่อและที่อยู่ของผู้ที่จะติดต่อในกรณีฉุกเฉิน
ชื่อ..... Address of Relatives..... ที่อยู่เลขที่.....
ซอย..... ถนน..... อำเภอ.....
จังหวัด..... โทรศัพท์.....
ลงนาม..... Applicant's Signature..... ผู้สมัคร
- ขอสมัครตำแหน่ง..... Position Applied.....
ได้พิจารณาเห็นสมควรให้ปฏิบัติงานในตำแหน่งดังกล่าวตั้งแต่.....
จนถึง.....
ลงชื่อ..... Signature of Authority.....

Attachment # 2

รายชื่อพนักงานสัมภาษณ์
(Name of Interviewers)

โครงการวิจัยการใช้นมมารดาเลี้ยงทารก ในเขตกรุงเทพมหานคร

พ.ศ. ๒๕๒๕

No.	รายนาม	Names
1	น.ส.เชาวนีย์ สรรพศรี	Miss Chaowanee Sapasri
2	น.ส.สายลม อมะสังเขียร	Miss Saisom Amalustien
3	น.ส.ยุวดี แซ่อึ้ง	Miss Yuwadee Sae Uang
4	น.ส.กานดา คลังพลอย	Miss Kanda Klungploy
5	น.ส.ขนิษฐา พูนผลกุล	Miss Kanidta Poonphonkul
6	น.ส.อุษา วิสุทธิแพทย์	Miss Usa Wisuthipat
7	นายเฉลิมศักดิ์ สุภาพล	Mr. Chalermesak Supapol
8	นายวิรัตน์ เขตชัยภูมิ	Mr. Wirat Chirdchaiyaphum
9	นายชูชีพ ชิวะสุทธิ์	Mr. Chucheap Chewasut
10	นายดุสิต สุจิรารัตน์	Mr. Dusit Sujirarat
11	นายปิยะ พรหมสถิต	Mr. Piya Prohmsatit
12	น.ส.อุไรวรรณ ฆะตารัลย์	Miss Uraiwan Phadawal
13	น.ส.จิรานุช โพธิประสิทธิ์	Miss Jiranud Phoprasit
14	น.ส.ธมยา ว่องเจริญ	Miss Thomya Wongcharoen
15	น.ส.ลาวัณย์ ก.ทิวานิชย์	Miss Lawan Kitiwanit

Attachment # 3

Appendix III

Time table for Training of the Interviewers

Date	Time	Content	Responsible person
9 Feb, 1982	9.00 - 12.00	Overview of the Project	Dr. Debhanom, Somchai
	12.00 - 13.00	Lunch	
	13.00 - 16.00	Interviewing Technique	
10 Feb, 1982	9.00 - 12.00	Discussion of the selected observation from Ethnographic study	Mr. Thavesak, Ms. Valaitip
	12.00 - 13.00	Lunch	
	13.00 - 15.00	Discussion of the Questionnaire	Dr. Somchai, Ms. Valaitip
11 Feb, 1982	9.00 - 12.00	Exercise	Ms. Valaitip, Ms. Chatkae
	12.00 - 13.00	Lunch	
	13.00 - 16.00	Discussion	
12 Feb, 1982	9.00 - 12.00	Administrative Procedure	Dr. Somchai
	12.00 - 13.00	Lunch	
	13.00 - 16.00	Arrangement and discussion of the area selected	
13 Feb, 1982	9.00 - 12.00	General Discussion	Dr. Somchai, Ms. Chatkae Ms. Valaitip
	13.00 - 16.00	Pre-test of questionnaire in the field	
14 Feb, 1982	9.00 - 16.00	Continue	" "
15 Feb, 1982	9.00 - 16.00	Discussion	" "

เขตที่ ๑ คลองสาน

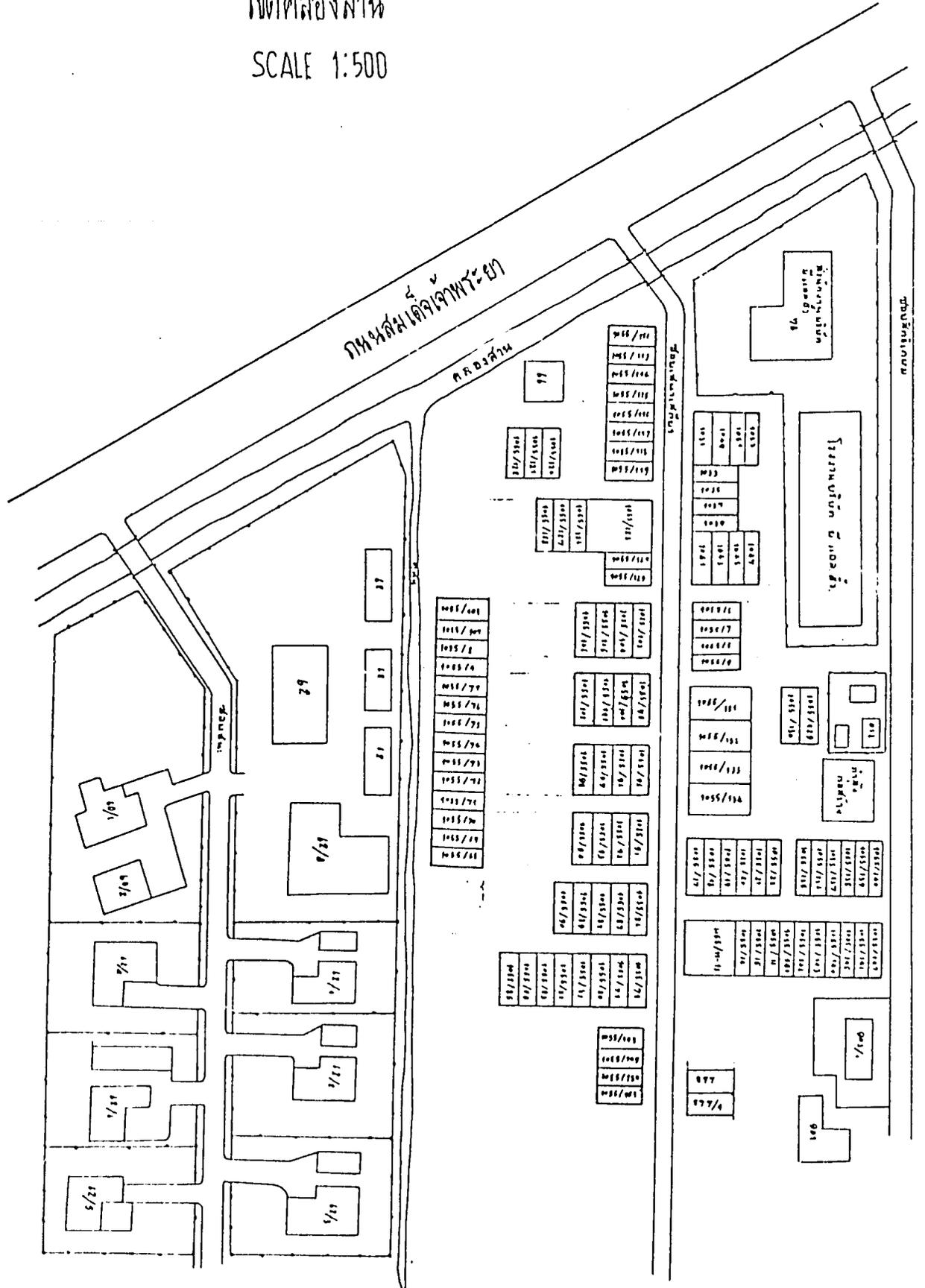
Attachment # 5

บล็อกเลขที่ ๑๔๒

แขวงสามเตาเคาพระยา 2 4331 - 1

เขตคลองสาน

SCALE 1:500





Attachment # 6

โครงการสำรวจการใช้มมารดาเลี้ยงทารกในเขตกรุงเทพมหานคร
คณะสาธารณสุขศาสตร์ มหาวิทยาลัยมหิดล

1. รหัสครัวเรือน 1 ___ 2 ___ 3 ___ 4 ___ 5 ___ 6 ___
2. สัมภาษณ์บ้านเลขที่ ___ ซอย/ตรอก _____ ถนน _____
หมู่ที่ ___ ตำบล _____ เขต _____
ลักษณะของบ้าน _____
3. ชื่อพนักงานสัมภาษณ์ _____ 7 ___ 8 ___ 4. จำนวนบุคคลในครอบครัว _____ 9 ___ 10 ___
5. รายละเอียดของบุคคลในครอบครัว

อายุ (ปี)	จำนวน/เพศ	
	ชาย	หญิง
0 - 1		
1 - 2		
2 - 6		
6 - 15		
15 - 25		

11 ___ 12 ___
13 ___ 14 ___
15 ___ 16 ___
17 ___ 18 ___
19 ___ 20 ___

อายุ (ปี)	จำนวน/เพศ	
	ชาย	หญิง
25 - 35		
35 - 45		
45 - 55		
55 - 60		
60+		

21 ___ 22 ___
23 ___ 24 ___
25 ___ 26 ___
27 ___ 28 ___
29 ___ 30 ___

6. ระดับการศึกษา _____

31 ___ 32 ___

7. อาชีพหลัก/รอง _____

33 ___ 34 ___

8. รายละเอียดเด็กอายุต่ำกว่า 1 ปี

ที่	ชื่อเด็ก	เพศ	อายุ	ชื่อมารดา
1				
2				
3				
4				

35 ___ 36 ___ 37 ___

38 ___ 39 ___ 40 ___

41 ___ 42 ___ 43 ___

44 ___ 45 ___ 46 ___

9. ถ้าไม่มีเด็กอยู่ในขณะนี้ มีใครที่อาศัยอยู่ที่นี้และเคยคลอดลูกในช่วง 12 เดือนที่ผ่านมาหรือไม่

1) มี (ระบุในตารางข้อ 10)

2) ไม่มี (หมดคำถามสำหรับบ้านนี้)

47 ___

10. ถ้ามีเด็กคลอดระหว่าง 12 เดือนที่ผ่านมาให้บันทึกลงในตารางนี้ (ถึงแม้เด็กจะไม่อยู่ในบ้านนี้ก็ตาม)

ที่	ชื่อเด็ก	เพศ	อายุ	ชื่อมารดา	ปัจจุบันเด็กอยู่ที่ไหน
1					
2					
3					

48 ___ 49 ___ 50 ___ 51 ___

52 ___ 53 ___ 54 ___ 55 ___

56 ___ 57 ___ 58 ___ 59 ___

Attachment # 7

Research on Changing Weaning Diet Practices
and infant feeding study

Sample by district and block

DISTRICT	NAME	BLOCK NUMBER	TOTAL HOUSE-HOLD	ELIGIBLE CHILDREN	NOTE
1	Klong San	152	83	8	
		155	195	34	
		158	161	24	
2	Thon Buri	139	212	18	
		142	48	4	
		143	151	30	
		145	86	7	
		149	118	16	
3	Bangkok Yai	171	38	7	
		175	75	6	
4	Bangkok Noi	160	84	6	
		161	124	16	
		165	63	6	
		168	69	8	
		170	129	23	
5	Dusit	50	55	4	
		51	97	20	
		55	152	31	
		57	121	15	
		60	94	28	
		62	75	12	
6	Phra Nakhon	1	87	11	
		3	66	8	
		6	109	21	
7	Pom Prap Sattru Pai	8	50	5	
		11	124	5	

DISTRICT	NAME	BLOCK NUMBER	TOTAL HOUSE-HOLD	ELIGIBLE CHILDREN	NOTE
8	Sampanthawong	22	46	2	
		24	50	1	
9	Pathuawan	13	59	11	
		16	111	5	
		19	119	59	
10	Ban Rak	26	50	1	
		29	45	5	
		31	101	13	
11	Phaya Thai	64	97	5	
		68	106	7	
		69	76	4	
		72	103	9	
		74	169	32	
		77	85	6	
		80	122	20	
12	Huai Khwang	83	396	40	
		85	87	2	
13	Yan Nawa	33	118	7	
		36	132	19	
		38	150	23	
		41	154	17	
		43	124	22	
		46	62	9	
		48	38	3	
14	Rat Burana	195	88	12	
		198	278	80	
15	Nong Khaem	199	98	26	

DISTRICT	NAME	BLOCK NUMBER	TOTAL HOUSE-HOLD	ELIGIBLE CHILDREN	NOTE
16	Phasi Chareon	176	46	12	
		179	85	17	
		182	69	10	
		184	62	19	
17	Taling Chan	193	92	29	
18	Bang Khun Thian	186	96	34	
		189	35	5	
		191	175	39	
19	Bang Khen	110	158	34	
		111	105	8	
		115	131	18	
		119	176	32	
		121	137	4	
		122	222	27	
20	Bang Kapi	123	90	14	
		125	95	3	
		126	74	11	
		131	49	4	
21	Phra Khanong	87	135	37	
		89	76	20	
		92	93	34	
		94	62	11	
		97	124	38	
		99	250	44	
		102	86	16	
		104	86	33	
		107	81	18	
22	Min Buri	135	79	27	
23	Lat Krabang	137	51	24	
24	Nong Chok	133	46	19	
TOTAL		83	8796	1458	

Attachment # 8
 Comparison of Number of Households in 1978
 and Number of Households Updated in 1982

District No.	District Name		Block No.	No. of Household (Original)	No. of Household (up-dated)
	Thai	English			
1	คลองสาน	Klong San	152	129	83
			155	115	195
			158	110	161
2	ธนบุรี	Thon Buri	139	160	212
			142	95	48
			143	104	151
			145	141	86
			149	154	118
3	บางกอกใหญ่	Bangkok Yai	171	69	38
			175	107	75
4	บางกอกน้อย	Bangkok Noi	160	111	84
			161	113	124
			165	112	63
			168	110	69
			170	96	129
5	ดุสิต	Dusit	50	67	55
			51	91	97
			55	116	152
			57	136	121
			60	86	94
			62	97	75
6	พระนคร	Phra Nakhon	1	99	87
			3	107	66
			6	109	109
7	บ่อมปราบศัตรูพ่าย	Pom Prap Sattru Pai	8	105	50
			11	163	124

District No.	District Name		Block No.	No. of Households (Original)	No. of Household (up-dated)
	Thai	English			
8	สัมพันธวงศ์	Sampanthawang	22	112	46
			24	103	50
9	ปทุมวัน	Pathumwan	13	110	59
			16	105	111
			19	96	119
10	บางรัก	Bang Rak	26	73	50
			29	91	45
			31	109	101
11	พญาไท	Phaya Thai	64	107	97
			68	112	106
			69	88	76
			72	107	103
			74	108	169
			77	92	85
			80	89	122
12	ห้วยขวาง	Huai Khwang	83	111	396
			85	101	87
13	ยานนาวา	Yan Nawa	33	106	118
			36	132	132
			48	130	150
			41	122	154
			43	103	124
			46	115	62
			48	88	38
14	ราชบุรีบูรณะ	Rat Burana	195	126	88
			198	102	278
15	หนองแขม	Nong Khaem	199	92	98

District No.	District Name		Block No.	No. of Households (Original)	No. of Household (up-dated)
	Thai	English			
16	ภาชีเจริญ	Phasi Chareon	176	72	46
			179	101	85
			182	99	69
			184	72	62
17	ตลิ่งชัน	Taling Chan	193	38	92
18	บางขุนเทียน	Bang Khun Thian	186	92	96
			189	102	35
			191	118	175
19	บางเขน	Bang Khen	110	119	158
			111	100	105
			115	80	131
			119	84	176
			121	147	137
			122	101	222
20	บางกะปิ	Bang Kapi	123	55	90
			125	128	95
			126	103	74
			131	125	49
21	พระโขนง	Phra Khanong	87	106	135
			89	112	76
			92	121	93
			94	80	62
			97	80	124
			99	106	250
			102	93	86
			104	76	86
			107	109	81
22	มีนบุรี	Min Buri	135	287	79
23	ลาดกระบัง	Lat Krabang	137	71	51
24	หนองจอก	Nong Chok	133	116	46
Total			83	8,725	8,796

Attachment # 9

Sample for interviewing of
Health care providers

Institution	Type of questionnaire used								total
	1	2	3	4	5	6	7	8	
Government Hospitals									
1. Siriraj Hospital	x	x	x	x	x	x	x		7
2. Rajvithi Hospital	x	x	x	x	x	x	x		7
3. Vachira Hospital	x	x	x	x	x	x	x		7
4. Taksin Hospital	x	x	x	x	x	x	x		7
5. Phramongkutklao Hospital	x	x	x	x	x	x	x		7
Private Hospitals									
1. Huacheow Hospital	x	x	x	x	x	x	x		7
2. Krungthep Hospital	x	x	x	x	x	x	x		7
3. Ksungthon Hospital	x	x	x	x	x	x	x		7
4. Decha Hospital	x	x	x	x	x	x	x		7
Municipal Health Center									
1. Center # 23 Siphraya	x					x	x	x	4
2. Center # 4 DinDang	x					x	x	x	4
3. Center # 21 Wat Tarttong	x					x	x	x	4
4. Center # 3 Bangsue	x					x	x	x	4
5. Center # 24 Bangkhen	x					x	x	x	4
6. Center # 30 Bangkoknoi	x					x	x	x	4
7. Center # 29 Chuangnuchanate	x					x	x	x	4
8. Center # 43 Meenburi	x					x	x	x	4
Maternity Clinic									
1. Yosse Hospital	x	x				x			3
2. Bookalo Midwifery Clinic	x	x				x			3
3. Dheves Midwifery Clinic	x	x				x			3
Polyclinic									
1. Taopoon Polyclinic	x					x			2
2. Ngarmwongwarn Polyclinic	x					x			2
Total	22	12	9	9	9	22	17	8	108

1 Director/Head

2 Physicians Head OB-GYN

3 Physician- Head Pediatric

4 Head Nurse - OB-GYN

5 Head Nurse - Pediatrics

6 Nurse/P.H nurses

7 Pharmacist

8 Social Workers