



## Chapter III

### Research Methodology

#### 3.1 Research Design

This is a quantitative research.

Due to time and fund limitation, the research was based on secondary data from MICS and intends to clarify the sections which are not clear about OVC. Descriptive and analytical study were done by quantitative method.

#### 3.2 Study Area

Northern part has the prevalence rate of OVC as 9.2%. Six provinces in Northern Thailand were selected, namely Chiangmai, Chiangrai, Maehongson, Nan, Payao and Tak.

#### 3.3 Study Population

All 456 OVC aged 0-17 years found in six provinces surveyed by MICS. The total number of 456 have been obtained from summing up the YES or NO answers to the MICS questions as follows: (UNICEF 2006:A51)

For adults age 18-59 yrs:

HL8A. Has....be very sick for at least 3 months during past 12 months?

*Answer: Yes*

For member age 0-17 yrs:

HL9. Is your natural mother alive?

*Answer: No*

HL10A. Has your mother been very sick for at least 3 months in the past 12 months?

*Answer: Yes*

HL11. Is your natural father alive?

*Answer: No*

HL12A. Has your father been very sick for at least 3 months in the past 12 months?

*Answer: Yes*

### **3.4 Sampling Technique**

Secondary data will be used from MICS database.

The Thailand MICS was carried out by a sample survey method that used a stratified two-stage sampling plan. The primary sample units (PSU) consisted of blocks (in municipal areas) or villages (in non-municipal areas). The secondary sample units consisted of collective households systematically drawn from a household listing. The plan is designed to provide estimates of situation indicators for children and women at the national level, for municipal and non-municipal areas, and for four regions: Central (including Bangkok), North, Northeast and South. The household listing is obtained from "The Basic Household Information Survey" conducted every two years by the National Statistical Office (NSO). In the survey, members of each household located in the block/village samples are counted. Data on basic household information from the survey are to be used as the sample frame in various survey projects of the NSO. (UNICEF 2006:A5)

Data from the 2006 Basic Household Information Survey were used as the frame for household samples in the Thailand MICS. Thirty collective household samples per block/village sample were selected in both municipal and non-municipal areas. Field staff then created a listing of Household Samples by adding together all the names of household heads and the addresses. After a household listing was carried out within the selected 30 households in each block/village, a systematic sample of households was drawn. For national-level results, sample data were weighted in accordance with sampling plan. (UNICEF 2006:A5)

In this research, all the available data of 456 OVC from six provinces will be used.

### 3.5 Sample Size

The MICS was conducted at national and provincial levels. Provincial-level report included 1,032 block/village samples (216 in the north). Thirty collective household per block/village samples were selected and a total of 30,960 households were obtained (6,480 in the north).

In this research, all the data of 456 OVC from six provinces will be used.

Table 3.1: Number of Block/Village Sample and Household Samples by Regions (UNICEF 2006:5-6)

Region	Provincial Level Report	
	Block/village samples	Household samples
Bangkok	156	4,680
Central (excl. Bangkok)	156	4,680
North	216	6,480
North East	168	5,040
South	336	10,080
Total	1,032	30,960

Table 3.2: Distribution of 320 OVC in Six Northern Provinces

	Numerator	Denominator	Indicator
	Number of OVC	all children aged 0-17 yrs in the survey	OVC prevalence rate
Chiangmai	59	724	8.1%
Chiangrai	103	823	12.5%
Maehongson	56	887	6.3%
Nan	65	941	6.9%
Payao	95	905	10.5%
Tak	78	815	9.6%
Total	456	5,095	9.0%

### 3.6 Measurement Tool

#### MICS questionnaires

Three sets of questionnaires were used in the survey: 1) a household questionnaire which was used to collect information on all de jure household members, the household, and the dwelling; 2) a women's questionnaire administered in each household to all women aged 15-49 years; and 3) an under-5 questionnaire, administered to mothers or caretakers of all children under 5 living in the household. Each questionnaire included different modules as follows:

#### The Household Questionnaire

- Household Listing
- Education
- Support for Orphans and Vulnerable Children
- Child Labor
- Disability
- Drinking Water and Disposal of Excreta
- Household Characteristics

- Salt Iodization

#### The Questionnaire for Individual Women

- Child Mortality
- Tetanus Toxoid
- Maternal and Newborn health
- Marriage and Union
- Contraception
- HIV/AIDS

#### The Questionnaire for Children Under the Age of 5

- Birth Registration and Early Learning
- Child Development
- Breastfeeding
- Care of Illness
- Immunization
- Anthropometry

This one was administered to mothers or caretakers of children in this age group. In cases where the mother was not listed in the household roster, a primary caretaker for the child was identified and interviewed. (UNICEF 2006:6)

The following questions from the MICS questionnaire are used in the research:

Household questionnaire for all members (UNICEF 2006:A50)

- What is your citizenship?

Household questionnaire for adults age 18-59 yrs (UNICEF 2006:A51)

-Has...been very sick for at least 3 months during past 12 months?

Household questionnaire for member age 5 yrs and above (UNICEF 2006:A52)

-Have you ever attended school or preschool?

-What is the highest level of school attended?

-What is the highest graded completed at that level?

Household questionnaire for member 0-17 yrs (UNICEF 2006:A53-54)

-Over the past 12 months, has any usual member of your household died in the last 12 months?

-Were any of these people between the ages of 18-59?

-Were any of these people seriously ill for 3 of the 12 months before he/she died?

-Is your natural mother alive?

-Does your natural mother live in this household?

-Has your mother been very sick for at least 3 months in the past 12 months?

-Is your natural father alive?

-Does your natural father live in this household?

-Has your father been very sick for at least 3 months in the past 12 months?

-In the last 12 months, has your household received any medical support for....., such as medical care supplies or medicine?

-Has your household received any emotional/psychosocial support, such as companionship, counseling or spiritual issue?

-Has your household received any material support, such as clothing, food or financial

help?

- Has your household received any social support, such as help in household work, training for a caregiver or legal services?
- In the last 12 months, has your household received any educational support, such as allowance, free admission, books/supplies?

Household questionnaire for water and sanitation (UNICEF 2006:A57-58)

- What is the main source of drinking water for member of your household?
- What is the main source of water used by your household for other purposes such as cooking and hand washing?
- How long does it take to go there, get water, and come back?
- Who usually goes to this source to fetch the water for your household?
- Do you treat your water in any way to make it safer to drink?
- What do you usually do to the water to make it safer to drink?
- What kind of toilet facility do members of your household usually use?
- Do you share this toilet facility with other households?
- How many household in total use this toilet facility?

Household questionnaire for household characteristics (UNICEF 2006:A59-60)

- What is the main occupation of household? (Max. income)
- What is the total income per month of all members?
- How many rooms are used for sleeping?
- What is the main material of the dwelling floor?
- What is the main material of the roof?

- What is the main material of the walls?
- Does your household have electricity/radio/television/mobile telephone/non-mobile telephone/refrigerator/computer?
- Does any member of your household own watch/bicycle/motorcycle or scooter/animal drawn-cart/car or truck/boat with motor?

Questionnaire for women age 15-49 yrs (UNICEF 2006:A62)

- What is your age at last birthday?
- Have you ever attended school?
- What is the highest level of school attended?
- What is the highest graded completed at that level?

### **3.7 Data Collection**

The research is based on secondary data collection from MICS and will not conduct any primary data collection.

The following document will be reviewed in order to provide insights in association between various independent variables and OVC's educational and health status.

- Situation report of OVC by UNICEF Thailand office.
- Previous published and unpublished research of OVC in Thailand, regarding policy, intervention and advocacy.



### **3.8 Data Analysis**

The focus was on analysis of the strength of association between various independent variables and OVC's educational and health status. Association between different independent and dependent variables were presented, analyzed and discussed. The data were analyzed by using SPSS 13 program. Pearson's chi-square test was conducted to test the association between the row (independent) and column (dependent) variables. A P-value of less than 0.05 was considered statistically significant. The categorical variables were analyzed by chi-square.

### **3.9 Ethic Consideration**

- Permission will be obtained from UNICEF to use MICS data set.
- The research is based on secondary data set from MICS. All the data is anonymous and cannot refer to any individual person.
- The MICS questionnaire doesn't involve any sensitive questions or have any potential damage to the respondents.