This research is a qualitative one, the objective of which was to study the behaviors of water consumption of children under the age of five, as well as the beliefs of mothers with respect to arsenic poisoning and water consumption by children under the age of five. The study was conducted in a community in Nakorn Si Thammarat Province. The sample groups subjected to the study were two groups of mothers whose children were under the age of Live. The first group were mothers whose children suffered from arsenic poisoning. The second group were mothers whose children did not suffer from arsenic poisoning. Three months' time was spent for the collection of date in the community through survey, document research, community Participatory observation an in-depth interviewing. The study revealed that the mothers of both sample groups, i.e., the group whose children suffered

## ABSTRACT

Mothers' Beliefs Concerning Water Consumption and Arsenic Poisoning of Children under 5 Years of Age :

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A Community Study in

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arsenic poisoning and the group whose children did not

in respect to arsenic poisoning, had an incorrect belief in respect to arsenic poisoning. That is, they believed at it was caused by sources of ore-washing water with a nusely muddy color and with a rusty odor. Patients fering from this sickness would develop a condition of stripedness, with dark dots over the body, which

out taking their children to receive medical treatment, the only prevention was not to allow children to go to y in densely muddy water in the areas of old mine water wires. In addition, with respect to their belief about ter sources, the mothers preferred consuming water from wires of clear and odorless water, which the survey

wealed had a high content of arsenic.

Although both groups of mothers shared the same lief regarding water sources, some children were found have received no arsenic at all. This is due to the lidren's different living places. That is, areas on untain ridges would have a lower content of vironmental arsenic than lowland areas between untains, thus accounting for the difference in the lidren's consumption of food and water. In addition to

The direct factors are consumption of water ulterated and contaminated with aresenic in the forms of inking water and ice.

foregoing, factors giving rise to the sickness were

The indirect factors are consumption of water used cooking soups, breast-feeding, and the consumption of cooked green vegetables. It was found that in the linary tradition of southerners, the consumption of getables with soups would result in the body receiving

water is a way to prevent blood from accumulating in back. It is also felt to restore the uterus to its size. These account for the presence of arsenic peration and contamination in the mother's milk.

mothers Regarding rain water consumption, cerred consuming well water because of its tastiness a feeling of satiation that it gives and also becuase task of storing rain water belongs to housewives. ever, there is also belief that if after childbirth a micris exposed to rain water, she would get a malignant which could kill her. It is this fear that keeps mers from storing rain water for consumption. In tion, washing water jars must be done every two days to them clean enough to be used for storing water for comption. Formerly, jars used by mothers were of small but with the government supplying every family with jars, women are unable to get into these jars to them because there is a belief about a disgrace to heads(males). So this task must fall to men. But men do not have enough slack time, the task of ing water in jars does not meet with success, no how many jars the government may invest money to So long as the local residents' beliefs and their rement with respect to storing rain water remain ged, the use of rain water instead of well water will never take place in the community.

Recommendations for solving arsenic poisoning in uren are divided into 4 levels as follows.

The individual level is to educate mothers in a series about arsenic poisoning in children in a correct. and one consistent with the cultures of the unity.

The family level is to stage campaigns and establish an understanding with family heads and senior family members with respect to storing rain water for the purpose of drinking and cooking.

The community level is to provide knowledge that will give rise to awareness of the problem of arsenic poisoning in children and methods of preventing. This may come in the form of controlling ice production or the sale of foods in which water from water sources with a high arsenic content is used.

The state level is 1) to promote incomes and the cultivation of substitute cash crops that are used for food, including an integrated market system, 2) to study and research about the condition of the health of the people in Ronphiboon District and nearby districts and 3) to proclaim this area to be an environment revival zone by making a white paper for submission to high-level administrators of the relevant agencies.