

**Thesis Title**                      Hearing Capacity and Noise Hazard Preventive Behaviors Among  
Workers in Sugar Refinery Factory

**Author**                                Mrs. Supaporn Tarnpeam

**Degree**                                Master of Nursing Science (Occupational Health Nursing)

**Thesis Advisory Committee**

Associate Professor Dr. Chawapornpan	Chanprasit	Chairperson
Lecturer Wanpen	Songkham	Member

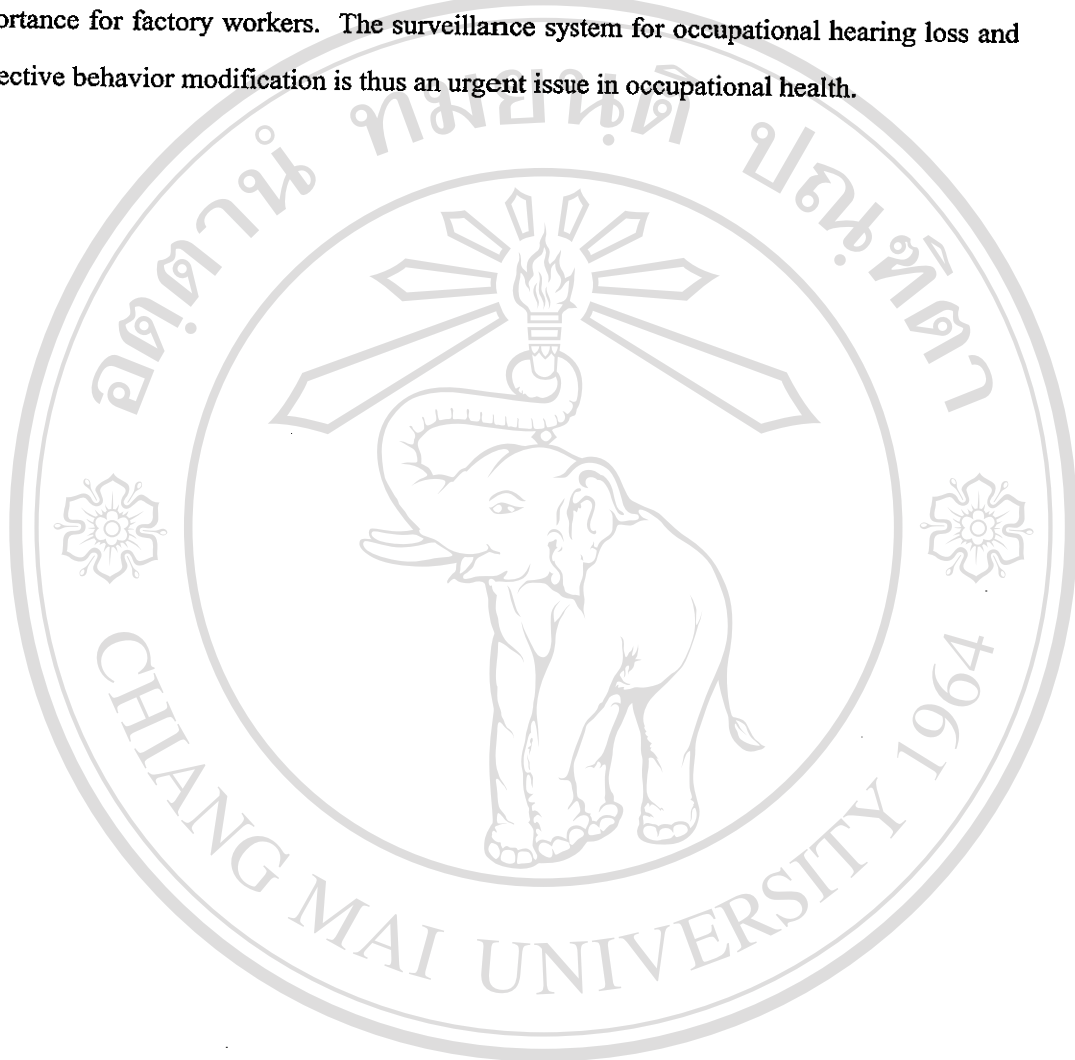
### ABSTRACT

Noise in working environment is a significant occupational health hazard and contributes to hearing loss among workers. This descriptive correlational study was designed to examine hearing capacity, noise hazard preventive behaviors, and relationship between noise hazard preventive and hearing capacity among sugar refinery factory workers at production line, Kamphaengphet Province. The study sample comprised 201 employees. Data collection was undertaken during August to September, 2006, adopting an audiometer and a questionnaire, developed by the researcher based on a literature review. The content validity of the questionnaire was confirmed by the panel of experts and the value of content validity index was 0.93. The reliability value of the questionnaire was at an acceptable level (0.73-0.89). Data analysis was performed using descriptive statistics and Point Biserial correlation.

The study results revealed that 42.30 percent of the study sample had hearing capacity for surveillance and 34.32 percent had abnormal hearing capacity. Concerning noise hazard preventive behaviors, it was found that the total aspect of such behaviors among workers was at a moderate level (74.62%). Regarding each aspect of noise hazard protective behaviors; hearing protective device use, avoiding loud noise, and receiving hearing capacity assessment, was at a

moderate level (61-80% of the workers). In addition, noise hazard protective behavior was found to be negatively significant associated with hearing capacity ( $r = -.304, p < .01$ ).

The results of this study indicated that protection of occupational hearing loss is of great importance for factory workers. The surveillance system for occupational hearing loss and noise protective behavior modification is thus an urgent issue in occupational health.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University  
All rights reserved