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JUTAPORN JINDASAWAD : DISCRIMINATE MODEL ON OCCUPATIONAL HEARING LOSS IN TEXTILE INDUSTRIAL WORKERS IN CHONBURI PROVINCE.
THESIS ADVISORS : JUNYA PATTARAARCHACHAI, Sc.D., THAVATCHAI VORAPONGSATHORN, Ph.D., SRIRAT LORMPHONGS, M.Sc. 107 p. ISBN 974-664-879-9

Occupational hearing loss was the major problem of textile industrial workers. If they knew their hearing level, they could protect themselves. The present study constructed a model for discriminating occupational hearing loss in textile industrial workers and analyze the factors that influenced discrimination of hearing loss in textile industrial worker in Chonburi province. The data were gathered from the textile industrial worker in Chonburi province by measuring hearing thresholds of workers between April 1 to July 31, 2000. Sixty workers were chosen for the hearing loss group and one hundred and twenty five workers were the control group.

The result revealed that a discriminate model for a hearing loss between 500 to 2000 Hz. was

$$Z = -10.9059 + 0.2434\,(\text{age}) + 2.7256\,(\text{noise intensity}) + 2.4334(\text{not use hearing protection}) + 1.8287(\text{occasionally use hearing protection})$$

when $Z \geq 0$ we will classify in hearing loss group

$Z < 0$ we will classify in hearing normal group

The factors which influenced discrimination in workers were age, noise intensity and hearing protection. This model can predict the hearing level of textile industrial workers, trend of hearing loss and find the strategies in protection of hearing.