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HONGSIRI PIYAYODILOKCHAI : DEVELOPMENT OF LEAD POISONING MONITORING INFORMATION SYSTEM, MINISTRY OF PUBLIC HEALTH, THAILAND. THESIS ADVISORS : CHALERMCHAI CHAIKITTIPORN, Dr.P.H. WILAWAN JUENGPRASERT, M.D.,M.Sc.(PH) SRITIDA KAJORNPREEDANON, B.Sc.,M.S. SAIJAI PINIJVECHAKARN, B.Sc.,M.Sc. 169 p. ISBN 974-622-030-4

This thesis reports on the process of developing a computer software application to facilitate the management of lead poisoning monitoring data in the Division of Occupational Health, Department of Health, Ministry Of Public Health. In the division, the conventional system of collecting data manually on individual factory in any area caused staff members to record information in many different file books. Staff members spent a great deal of time recording and retrieving information which administrator requested. This process was time consuming, repetitive, redundant and difficult to analyse and synthesize for practical use.

The research project is aimed at increasing the effectiveness and efficiency of work in this division by using microcomputer-based information technology. To solve lead poisoning data management problems, the researcher created a software program using database management features in Access 2.0, which apply a graphic user interface running on Microsoft Windows 3.11 Operating System. This application was developed and tested using a hypothetical yet realistic database of lead poisoning data of factory.

The result of this study reveals that the Lead Poisoning Monitoring System program provides rapid access to complete factory records thereby reducing need to retrieve data manually from file books. The program can also provide associated information in summarized report formats. Moreover, the program can serve as a foundation for developing further necessary information technology applications for this division.