

**UNIVERSITI TEKNOLOGI MARA**

**RODENT STUDY AT THE MARKET AREA IN  
MAJLIS BANDARAYA IPOH AND RELATION TO  
LEPTOSPIROSIS CASES.**

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**Project paper submitted in partial fulfillment of the  
requirements for the Degree of Bachelor in Environmental  
Health and Safety (Hons.)**

**Faculty of Health Sciences**

**JANUARY 2012**

### Declaration by candidate

Project entitled "Rodent study at the market area in Majlis Bandaraya Ipoh and relation to Leptospirosis cases" is a presentation of my original research work. Wherever contribution of other are involved, every effort is made to indicate this clearly, with due reference to the literature, and acknowledgement to collaborative research and discussions. The project was done under the guidance of Mr. Nasaruddin bin Abd. Rahman as a Project Supervisor and Mdm. Nadiatul Shima as Co- Supervisor. It has been submitted to the faculty of health sciences in partial fulfillment of the requirement for the degree of bachelor in Environmental Health and Safety (Hons).

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740101-14-5641

Date: 5/2 / 2012 .....

## ACKNOWLEDGEMENTS

Alhamdulillah, all praise to Allah for all His blessing and guidance through difficulties and easiness moments in completing this final year project.

First and foremost, I would like to address my deepest appreciation and gratitude to my supervisor, Mr. Nasaruddin Abd Rahman who give guide, supervision and consultations in implementing final year project. Surely the next is to my supervisor, I also like to thanks to my co-supervisor, Mdm. Nadiatul Shima bt. Mohd Shahid for the input and suggestions during report writing.

I would like also like to express my sincere appreciation to Veterinary Officer in Veterinary Research Institute, Dr. Mohd Shafarin Shamsuddin, Dr.Zawida Zahari and Dr. Roseliza Roslee for their consultations and helps. Also no forgotten, to Majlis Bandaraya Ipoh especially Mr. M. Selvam and Mr. Abdul Razak Hussien from Vector Control Unit, MBI.

Speacial thank to Mr. Saszeli Baharudin and Mr. Zulfazli Zakaria as a research assistance who give me advice and guide to do SPSS program report. Most graciously, I would like to thank to my parents, Hj Abdul Wafar bin Hj. Salam and Hjh Madekha bt. Alang Ahmad who support and do'a for my success. To my wife, Rosnonizah bt. Khalid and my children, Putra Fairuz Haziq, Putra Fairuz Harith and Putri Fairuz Huda. You'll my inspiration. Not forget also my employer, MBI especially Mr. Halim bin Saad as a director of my department for understanding, supporting and helping through thick and thin with me in completing this final year project. And to those people who contributed either directly or indirectly. I thank you very much. I hope that through this project, it can give new experience and knowledge which can be useful in the future.

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## **Abstract**

### **RODENT STUDY AT THE MARKET AREA IN MAJLIS BANDARAYA IPOH AND RELATION TO LEPTOSPIROSIS CASES.**

**Introduction :** Rodent infestation is a problem to many urban area and it is endemic, affecting and impacting the quality of life as well as affecting public health by the transmission if infectious diseases. The general objective of this study to determine the rodents species and infestations at wet market in Ipoh city. The basic factor is food, water and harborage. It is mainly due to lack of sanitation especially in the wet market area and support by the load of food supply for rodents. The aging and defective building also mainly in the developing countries wet market provides plentiful harborage and the operational hours normally not 24 hours will contribute to infestations, where rodents not prefer noisy and well lighted environment. The specific objectives to determine the pathogen, rodent index and identify the species of rodents in selected wet markets. Rodents are blooming and take advantages in this environment and when the density of rodent are high the health risk will also be high and unpredictable.

**Methodology:** Location chooses for this study is at the wet market in Ipoh city area. Many type of the market is an old building. Some of the building are demolish and rebuild with new design. Ipoh have a 23 public markets where 20 of it are belong to City Council and other 3 are belong to the private. Only 8 wet markets are chosen 12 traps are located in every station randomly and data will be collected everyday for 6 days at every station. Instruments used in the field sampling are trap, bait, jute sack and chloroform. Sampling size not known yet, because this study is to determine and estimate the size of rodent population in one particular area. For that I'm using rodent index that used by IOWA University. For the identification of rodent, based on the Standard of Rodent Identification of Ministry Health of Malaysia 1992. Get cooperation from Veterinar Research in Ipoh for post mortem and bacterial isolation procedures for Leptospiral analysis.