HEALTH PERCEPTION AND BLOOD LEAD LEVELS AMONG AUTO-MECHANICS IN IMUS CITY, CAVITE

Undergraduate Thesis
Submitted to the Faculty of the
College of Nursing
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree
Bachelor of Science in Medical Technology



Health perception and blood lead levels among auto-mechanics in Imus City, Cavite 615.9 F85 2018 T-7789

KRISTEL MAE B. FRAGO
KATRINA NICOLE P. MANIAGO
MERHELLA AMOR S. MENDOZA
October 2018

ABSTRACT

FRAGO, KRISTEL MAE B., MANIAGO, KATRINA NICOLE P., MENDOZA, MERHELLA AMOR S. Health Perception and Blood Lead Levels Among Automechanics in Imus City, Cavite. Undergraduate Thesis. Bachelor of Science in Medical Technology. Cavite State University, Indang, Cavite. October 2018. Adviser: Dr. Annie M. Ramos.

The study entitled "Health Perception and Blood Lead Levels among Auto mechanics in Imus, City Cavite" was conducted from May 2018 to September 2018. Generally, the study aimed to determine the relationship between the health perception form and the baseline information of blood lead levels of selected participants from Hayag Motors, Brgy. Malagasang II-B, Imus City, Cavite.

The procedure of the study started from the distribution and completion of title approval from Cavite State University and certification from the Ethics Review Board of Cavite State University, distribution of letters of consent and selection of participating clients, selection of the laboratory diagnostic center, making of health perception form and pre-testing among the participants, preparation of research materials, extraction of blood among selected clients, the blood collected were sent at the selected laboratory, Hi-Precision Diagnostics Laboratory at Central Mall, Dasmariñas City, Cavite followed by the, statistical treatment of data using the Pearson Correlation Test and Spearman correlation coefficient test.

The study also shows that the blood lead levels of auto-mechanics were normal or within the reference range provided by the HP Diagnostics. Furthermore, the Pearson correlation coefficient with age had no significant relationship with blood lead levels, length of exposure was significant with the blood lead levels, the signs and symptoms

had no correlation with blood lead levels, and health awareness does not have a significant relationship with blood lead levels.

The study concluded that the health perception of the respondents about lead toxicity in terms of age with the mean age of 40 they were slightly aware about lead toxicity, the length of occupation has significant relationship with blood lead levels, the respondents were slightly aware of their health status, health awareness, and health practices but these had no significant relationship about lead.

The study also revealed that the results of blood lead test were normal or below toxic levels and that the relationship between the health perception form and blood lead levels was significant only in the length of exposure thereby concluding that as the length of exposure increases, blood lead level also increases.

The future researchers may also gather more respondents who have different occupations that are most exposed to lead. They may also employ interventions on the quantitative measurement of their data and consider equal numbers of respondents per age. Lastly, the researchers can improve the study by not only employing baseline information but also considering other laboratory tests like blood chemistry tests and using also of urine as a specimen for lead testing to lead to more precise results.

TABLE OF CONTENTS

	Page
BIOGRAPHICAL DATA	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	vi
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF APPENDICES	ix
INTRODUCTION	1
Statement of the Problem	. 2
Objectives of the Study	3
Significance of the Study	. 3
Time and Place of the Study	4
Scope and Limitation of the Study	5
Definition of Terms	. 5
Conceptual Framework of the Study	7
REVIEW OF RELATED LITERATURE	. 8
METHODOLOGY	. 30
Research Désign	. 30
Sampling Technique	30
Distribution and completion of title approval from Cavite State University and Certification from the Ethics Review Board of Cavite State University.	31

	Distribution of Letters of Consent and Selection of Participating Clients 31
	Selection of the Laboratory Diagnostic Center
	Making of Health Assessment Form and the Validation of Pre-Testing 32
	Preparation of Research Materials
	Blood Extraction 33
	Blood Processing
	Statistical Treatment of Data
	Flowchart for Research Procedure
RESU	LTS AND DISCUSSION
	Combined Scores of the Age of the Auto-Mechanics
	Combined scores of the Length of Occupation of the Auto-Mechanics 38
	Combined scores for the Health Status Assessment: Hypertension of Auto-mechanics
	Combined scores for the Health Status Assessment: Joint and Muscle Pain of auto-mechanics
	Combined scores for the Health Status Assessment: Difficulties with Memory or Concentration of auto-mechanics
*	Combined scores for the Health Status Assessment: Headache of auto-mechanics
	Combined scores for the Health Status Assessment: Abdominal Pain of auto-mechanics
	Combined scores for the Health Status Assessment: Mood Swings of auto-mechanics
7	Signs and Symptoms for Lead Toxicity according to their Rank
	Health Awareness Perception: Adequate Knowledge on Lead among auto-mechanics

	Health Awareness Perception: Adequate Knowledge on the Toxic Effects of Lead among auto-mechanics	
	Health Awareness Perception: Adequate Knowledge about the Protection Against the Toxic Effects of Lead among auto-mechanics53	
	Health Practices Perception: Wearing of Face Mask among auto-mechanics	
	Health Practices Perception: Wearing of Cloth/Rubber Gloves among auto-mechanics	5
	Health Practices Perception: Washing of Hands among auto-mechanics	6
	Health Practices Perception: Having Medical Check-ups among auto-mechanics	8
	Scoring and Interpretation of Health Awareness and Health Practices Perception of Auto-Mechanics	0
	Blood Lead Levels Among auto-mechanics of Hayag Motors62	
	Correlation and Interpretation Between Age and Blood Lead Level of Auto-Mechanics	-
	Correlation and Interpretation Between Length Of Exposure and Blood Lead Level of Auto-Mechanics	5
	Correlation Between Blood Lead Levels and Signs and Symptoms of Illness	
	Correlation Between Health Awareness and Blood Lead Level of Auto-Mechanics	
	Correlation Between Health Practices Against Exposure and Blood Lead Level of Auto-Mechanics	
SUMM	ARY, CONCLUSION, AND RECOMMENDATIONS	
	Summary	
	Conclusion	
	Recommendation	

REFERENCES	
APPENDICES	77