



**HISTOLOGICAL EFFECT OF COUNTERFEITED COSMETICS ON
THE SELECTED ORGANS OF *Mus musculus* (ALBINO MICE)
USING TOPICAL ADMINISTRATION**

An Undergraduate Research Presented to the
Faculty of the Biological Sciences Department
College of Science and Computer Studies
De La Salle University - Dasmariñas
Dasmariñas City

In Partial Fulfillment of the Requirements
for the Degree of Bachelor of Science Major in Human Biology

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March 2014



ABSTRACT

The study determined the histological effect of counterfeited cosmetics on the kidney, liver and skin of albino mice using topical administration for 90 days. This research followed a Randomized Complete Block Design (RCBD) using the limiting dose (1000 mg/kg body weight). There were three treatments used, T0 (negative control), T1 (Genuine cosmetics), T2 (Counterfeited cosmetics) and tween80 was used as a vehicle. Histology observation on the liver, kidney and skin of the albino mice were done using a photomicroscope and analyzed using toupView. The results shows that microscopic changes was more prominent in kidney, followed by liver and skin of treated mice. Pathological alterations in kidney, liver and skin were more prominent in counterfeited cosmetics than genuine cosmetics, thus it is recommended not to use counterfeited cosmetics due to its high or beyond accepted levels of toxic heavy metals. Excessive and prolong use of genuine cosmetics is also not advisable as toxic heavy metals accumulate in body tissues over time that could result to deleterious effects in the organs.

Keywords: Pathology, Histological effect, liver, kidney, skin, Counterfieted cosmetics, Genuine cosmetic, *Mus musculus*, *Heavy metals*.



Acknowledgement

First of all, the researchers are grateful to The Almighty God for guiding and letting them finish this research successfully.

They wish to express sincere thanks to Ms. Hazel Anne Tabo, their adviser, for the immense knowledge, patience, time, motivation, advices and guidance that benefited them in the completion and success of this study;

They are extremely grateful and indebted to their panels, Dr. Rubie M. Causaren, Dr. Arnold B. Fonollera and Dr. Janet Macawile, for their expertise, sincere and valuable guidance in writing this thesis;

Their sincere thanks also goes to Dr. Johnny A, Ching, Dean of College of Science and Computer Studies, for helping them all throughout the writing process of this thesis;aper.

To all Laboratory Technicians, for providing them with all necessary facilities in the accomplishment of this study;

They also take this opportunity to extend sincere thanks to Baja and Januto family for the help and unceasing encouragement and support;

Immeasurable appreciation and deepest gratitude for the help and guidance are extended to the people who, in one way or another, contributed in making this thesis possible.



TABLE OF CONTENTS

| | |
|---|----|
| Title Page | 1 |
| Abstract | 2 |
| Approval Sheet | 3 |
| Acknowledgement | 4 |
| Table of Contents | 5 |
| | |
| CHAPTER 1 INTRODUCTION | |
| 1.1 Background of the Study | 7 |
| 1.2 Conceptual Framework | 9 |
| 1.3 Statement of the problem | 9 |
| 1.4 Hypothesis | 10 |
| 1.5 Scope and Limitations | 10 |
| 1.6 Significance of the Study | 11 |
| 1.7 Definition of Terms | 12 |
| | |
| CHAPTER 2 REVIEW OF RELATED LITERATURE | |
| 2.1 Conceptual Literature | 14 |
| 2.2 Related Studies | 23 |



| | | |
|-------------|---|-----|
| CHAPTER 3 | METHODOLOGY | |
| 3.1 | Research Design | 26 |
| 3.2 | Research Setting | 26 |
| 3.3 | Research Procedure | 27 |
| 3.4 | Data Gathering and Statistical Analysis | 30 |
| CHAPTER 4 | RESULTS AND DISCUSSION | 32 |
| CHAPTER 5 | CONCLUSION AND RECOMMENDATIONS | |
| 5.1 | Conclusion | 57 |
| 5.2 | Recommendation | 58 |
| REFERENCES | | 59 |
| APPENDICES | | |
| APPENDIX A: | Standard Procedure | 64 |
| APPENDIX B: | Randomized Complete Block Design | 68 |
| APPENDIX C: | Proper Handling of Albino mice | 69 |
| APPENDIX D: | Dosage Calculations | 72 |
| APPENDIX E: | Statistical Tools | 73 |
| APPENDIX F: | Photodocumentation | 103 |
| APPENDIX G: | Letters | 104 |
| APPENDIX H: | Curriculum Vitae | 110 |