

TABLE OF CONTENT

COVER PAGE.....	i
LETTER OF APPROVAL.....	ii
AUTHENTICITY PAGE.....	iii
PREFACE.....	iv
TABLE OF CONTENTS.....	vii
TABLE LISTS.....	x
FIGURE LISTS.....	xi
ATTACHMENTS LISTS.....	xii
ABSTRACT.....	xiii
CHAPTER I. INTRODUCTION	
1.1. Background.....	1
1.2. Problem Formulation.....	3
1.3. Research Aim.....	3
1.4. Research Benefit.....	3
1.5. Research Authenticity.....	4
CHPATER II. LITERATURE REVIEW	
2.1. Literature Review.....	5
2.1.1. Thyroid Gland.....	5
2.1.2. Thyroid Hormone Syntheses and Regulation.....	5
2.1.3. Thyroid Hormone Function.....	7
2.1.4. Thyroid Gland Disorder.....	8
2.1.5. Hypothyroidism in Elderly.....	9

2.1.5.1. Etiology.....	9
2.1.5.2. Clinical Manifestation.....	11
2.1.5.3. Diagnosis.....	13
2.1.6. Organ System Manifestation.....	14
2.1.6.1. The Skin and Connective Tissue.....	14
2.1.6.2. The Cardiovascular System.....	16
2.1.6.3. The Kidney and Electrolyte Metabolism.....	17
2.1.6.4. The Gastrointestinal Tract.....	19
2.1.6.5. The Blood.....	19
2.1.6.6. The Pituitary.....	20
2.1.6.7. The Adrenal Cortex.....	21
2.1.6.8. The Intermediary Metabolism.....	21
2.1.6.9. The Skeletal System.....	24
2.1.6.10. The Neuromuscular System.....	25
2.1.6.11. Behavioral and Psychiatric.....	27
2.2 Theoretical Framework.....	29
2.3. Conceptual Framework.....	30
2.4. Hypothesis.....	31
CHAPTER III. RESEARCH METODOLOGY	
3.1. Research Design.....	32
3.2. Research Subject.....	32
3.3. Sample Size.....	33
3.4. Research Variable.....	34

3.5. Variable and Operational Definition.....	35
3.6. Research Procedure.....	35
3.6.1. Research Ethic.....	35
3.6.2. Tools and Equipment.....	36
3.6.3. Research Conduction.....	36
3.6.4. Data Collection.....	37
3.7. Research Analysis.....	37
CHAPTER IV. RESULTS AND DISCUSSION	
4.1. Results.....	38
4.1.1. Research Subject Characteristic.....	38
4.1.2. Relation between Thyroid Hormone Status and Hypothyroidism Screening Score.....	41
4.1.3. Factors Affecting Hypothyroidism Screening Test Score..	45
4.2. Discussion.....	49
4.3. Research Limitation.....	55
CHAPTER V. CONCLUSION AND RECOMMENDATION	
5.1. Conclusion.....	56
5.2. Recommendation.....	56

TABLE LISTS

- Table 1. Clinical Manifestation of Hypothyroidism
- Table 2. Variable and Operational Definition
- Table 3. Base Characteristic of Research Subject
- Table 4. Base Characteristic of Research Subject
- Table 5. Descriptive Statistic of TSH level, FT4 level, and Screening Score
- Table 6. Descriptive Statistic of Thyroid Hormone Status and Screening Score
- Table 7. Kruskal Wallis Test Results for Thyroid Hormone Status and Screening Score
- Table 8. Factors Affecting Hypothyroidism Screening Test Score
- Table 9. Linear Regression Test Towards TSH/FT4 Ratio and Screening Score
- Table 10. Kruskal Wallis Test Result for Age
- Table 11. Kruskal Wallis Test Results for Sex
- Table 12. Hypothyroidism Screening Questionnaire Test Result

FIGURE LISTS

Figure 1. Theoretical Framework

Figure 2. Conceptual Framework

Figure 3. Scatter Plot Result for FT4 and Screening Score

Figure 4. Scatter Plot Result for TSH and Screening Score

ATTACHMENT LISTS

Attachment Informed Consent Form

Attachment Subject Personal Information Form

Attachment Hypothyroidism Sign and Symptom Screening List