

TABLE OF CONTENT

TITTLE PAGE.....	i
APPROVAL PAGE	ii
STATEMENT PAGE	iii
FOREWORD	iv
TABLE OF CONTENT	vi
ABSTRACT	1
CHAPTER I INTRODUCTION	2
A. Background	2
B. Problem Focus.....	4
C. Research Purpose	4
D. Research Benefits.....	4
CHAPTER II LITERATURE REVIEW.....	5
A. Theoretical Basis.....	5
1. Anatomy	5
2. Atrial Septal Defect	6
3. 3D Printing	7
B. Theoretical Framework	11
C. Conceptual Framework	11
D. Hypothesis.....	11
CHAPTER III RESEARCH METHODOLOGY	13
A. Research Design.....	13
B. Variables	13
C. Operational Definition of Variables.....	14
D. Subjects	14
E. Research Setting.....	15
F. Materials and Instrument.....	16
G. Study Plan	16
H. Data Analysis Method.....	17
I. Ethical Consideration	17
CHAPTER IV RESULT AND DISCUSSION	18
A. Result	18
B. Discussion	31

1. Comparison of online and offline anatomy learning experience.....	31
2. Comparison of 3D printed model to traditional learning aid.	33
3. Improvements to the 3D printed model.....	36
4. Future implementation of the 3D printed model	37
CHAPTER V.....	39
CONCLUSION & SUGGESTION.....	39
A. Conclusion	39
B. Suggestion.....	39
REFERENCES.....	41
ATTACHMENT.....	43