

TABLE OF CONTENTS

| | |
|--|------|
| TITLE PAGE | i |
| APPROVAL PAGE | ii |
| PLAGIARISM FREE STATEMENT | iii |
| ACKNOWLEDGEMENT | iv |
| TABLE OF CONTENTS | v |
| LIST OF FIGURES | vii |
| LIST OF TABLES | viii |
| LIST OF ABBREVIATIONS | ix |
| ABSTRACT | 1 |
| INTISARI | 2 |
| CHAPTER I | 3 |
| A. Study Background | 3 |
| B. Research Question | 6 |
| C. Study Objective | 6 |
| D. Research Benefits | 6 |
| E. Study Authenticity | 7 |
| CHAPTER II | 12 |
| A. Literature Review | 12 |
| 1. Overview of the anatomy and histology of respiratory system | 12 |
| 2. Overview of blood gas exchange physiology | 13 |
| 3. Alveolar-arterial oxygen pressure difference (AaDO ₂) | 16 |
| 4. Lactate level | 19 |
| 5. COVID-19 | 23 |
| 6. COVID-19 Mortality | 27 |
| B. Theoretical Framework | 30 |
| C. Conceptual Framework | 30 |
| D. Hypothesis | 31 |
| CHAPTER III | 32 |
| A. Study Type and Design | 32 |
| B. Study Time and Setting | 33 |
| C. Study Instruments | 33 |

| | |
|--|----|
| D. Study Sampling | 33 |
| 1. Study population | 33 |
| 2. Study sample | 33 |
| 3. Sampling method | 34 |
| E. Study Variable | 34 |
| F. Operational Definition | 36 |
| G. Data Analysis | 43 |
| H. Research Framework | 44 |
| I. Ethical Consideration | 44 |
| CHAPTER IV RESULT AND DISCUSSION | 45 |
| A. Descriptive analysis | 45 |
| B. Bivariate analysis | 46 |
| C. Multivariate analysis | 50 |
| D. Power analysis | 51 |
| E. Discussion | 52 |
| F. Study limitation | 55 |
| CHAPTER V CONCLUSION AND SUGGESTION | 56 |
| A. Conclusion | 56 |
| B. Suggestion | 56 |
| REFERENCES | 57 |