



## TABLE OF CONTENTS

COVER.....	i
APPROVAL .....	ii
TABLE OF CONTENTS .....	iii
TABLE OF FIGURES .....	vii
LIST OF TABLES .....	viii
TABLE OF ABBREVIATIONS.....	ix
STATEMENT OF AUTHENTICITY .....	xii
FOREWORD AND ACKNOWLEDGMENT .....	xiii
ABSTRACT.....	xiv
INTRODUCTION .....	1
A.    Background .....	1
B.    Formulation of Problems .....	6
C.    Objectives of Research.....	6
D.    Benefit of Research .....	7
E.    Originality of Research.....	7
CHAPTER II LITERATURE REVIEW .....	9
A.    Literature Review .....	9
Dengue Viral Infection .....	9
Dengue Control Strategy .....	10
National Program of Pemberantasan Sarang Nyamuk (PSN).....	14
Pandemic of Corona Virus Disease-19 (COVID-19).....	18
B.    Theoretical Framework .....	21



C. Conceptual Framework .....	23
D. Research Questions .....	23
CHAPTER III. RESEARCH METHOD .....	24
A. Type and Design of Research .....	24
B. Research Settings and Time .....	24
C. Research Subjects.....	29
Population .....	29
Sample Size.....	29
Sampling Method.....	29
D. Identification of Research Variables.....	31
E. Operational Definition of Variables .....	32
F. Data Collection and Research Instrument.....	33
G. Data Analysis .....	33
H. Research Ethics .....	34
I. Research Limitation .....	34
J. Research Process .....	35
K. Research Team .....	37
CHAPTER IV. RESEARCH RESULT AND DISCUSSION .....	38
A. Research Result .....	38
Respondent Characteristic .....	38
Implementation of Dengue Control Program .....	41
Surveillance System.....	41
Vector Control Strategies.....	43

Dengue Working Group.....	45
Dengue Control Program Plan .....	47
Implementation of PSN Program.....	47
Health Promotion and Education .....	47
Larvae Monitoring .....	49
Facilitation Strategies.....	54
Participant Responsiveness .....	56
Community Practice.....	59
Regular Report of Angka Bebas Jentik (ABJ).....	61
The COVID-19 Pandemic in Bantul District.....	63
Early responsiveness .....	64
Stigma .....	65
Recent responsiveness.....	66
Dengue Control Program during the Pandemic .....	67
PSN Implementation in Pandemic.....	68
Education Delivery and Health Promotion .....	68
Facilitation Strategies and Larvae Monitoring.....	68
Participant responsiveness .....	69
Community practice .....	71
ABJ Report during the Pandemic .....	72
B. Discussion .....	78
Pandemic Impacts to the Dengue Control and PSN .....	78
Alteration on the Dengue Control Strategies during the Pandemic.....	79



Changes of PSN Implementation during the Pandemic.....	81
CONCLUSION AND RECOMMENDATION .....	86
A. Conclusion .....	86
B. Recommendation.....	87
REFERENCES .....	88
APPENDIX.....	95



UNIVERSITAS  
GADJAH MADA

The Fidelity in Implementing Dengue Vector Control on Pemberantasan Sarang Nyamuk (PSN)  
Program  
during Corona Virus Disease-19 (COVID-19) Pandemic in Bantul District  
HILMA Kholida A, Prof. dr. Adi Utarini, M.Sc, MPH, Ph.D; dr. Riris Andono Ahmad, MPH, Ph.D  
Universitas Gadjah Mada, 2021 | Diunduh dari <http://etd.repository.ugm.ac.id/>

## TABLE OF FIGURES

Figure 1. Incidence rate of Dengue in Indonesia, 1967 to 2018 .....	2
Figure 2. Absolute number mortality and Dengue fatality rate, 1968 to 2018.....	2
Figure 3. Hierarchy of Jumantik.....	16
Figure 4. The distribution of larvae index on ABJ in Bantul 2019 .....	18
Figure 5. Theoretical framework adopted from implementation fidelity .....	22
Figure 6. Conceptual framework.....	23
Figure 7. Absolute number of Dengue cases and mortality 2018 in DIY .....	25
Figure 8. Map of Administrative area of Bantul District.....	25
Figure 9. Distribution of Dengue cases in Bantul District in 2019 .....	26
Figure 10. The absolute number of Dengue in Bantul from 2016 to 2020 .....	27
Figure 11. Dengue case in the sub-districts of Bantul in 2018-2020.....	27
Figure 12. The absolute number of Dengue cases in Sewon Sub-district .....	28
Figure 13. The example of Jumantik form .....	51
Figure 14. The example of 1R1J .....	54
Figure 15. ABJ report pathway in Bantul District .....	63
Figure 16. The ABJ of Bantul District from 2017 to 2020 .....	73
Figure 17. The ABJ from 2018 to 2020 in the sub-districts of Bantul District .....	74
Figure 18. Comparison ABJ of Puskesmas Sewon 1 and 2, 2017 to 2020 .....	74
Figure 19. Comparison ABJ of Pendowoharjo and Panggungharjo, 2019 to 2020.....	75



UNIVERSITAS  
GADJAH MADA

The Fidelity in Implementing Dengue Vector Control on Pemberantasan Sarang Nyamuk (PSN)

Program

during Corona Virus Disease-19 (COVID-19) Pandemic in Bantul District

HILMA KHOLIDA A, Prof. dr. Adi Utarini, M.Sc, MPH, Ph.D; dr. Riris Andono Ahmad, MPH, Ph.D

Universitas Gadjah Mada, 2021 | Diunduh dari <http://etd.repository.ugm.ac.id/>

## LIST OF TABLES

Table 1. Qualification for fumigation as Dengue vector control .....	15
Table 2. Detail of participants in the study.....	30
Table 3. Operational Definition of Variables .....	32
Table 4. Research team's summary profile .....	37
Table 5. Characteristic of the Respondent.....	39
Table 6. The identified changes of Dengue control and PSN during the pandemic.....	76



## TABLE OF ABBREVIATIONS

1R1J	<i>1 (satu) Rumah 1 (satu) Jumantik</i>
3M plus action	<i>Mengubur, Menguras, dan Mendaur-ulang plus</i>
ABJ	<i>Angka Bebas Jentik</i>
Adinda	<i>Anak-anak Peduli Demam Berdarah</i>
ALT	Alanine Aminotransferase
AST	Aspartate Aminotransaminase
BI	Breteau Index
BUN	Blood Urea Nitrogen
CFR	Case Fatality Rate
CI	Container Index
COVID-19	Corona Virus Disease-19
DBM4K	<i>Desa Bebas 4 Masalah kesehatan</i>
DBD	<i>Demam Berdarah Dengue</i>
DFEP	Dengue Fever Eradication Program
DENV1	Dengue Virus type 1
DENV2	Dengue Virus type 2
DENV3	Dengue Virus type 3
DENV4	Dengue Virus type 4
DENV5	Dengue Virus type 5
DHF	Dengue Hemorrhagic Fever
DSS	Dengue Shock Syndrome
EI	Epidemiology Investigation