# SCIENTIFIC PAPER

# PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL BANYUWANGI

2022



ARRANGED BY:

Citra Amalia Ardhani

2019.01.006

DIPLOMA THREE OF NURSING
BANYUWANGI INSTITUTE OF HEALTH SCIENCES

2022

### SCIENTIFIC PAPER

# PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL BANYUWANGI

2022

To Obtain an Associate's Degree in Nursing (Amd.Kep) in Diploma Three of Nursing

Study Program at Banyuwangi Institute of Health sciences



ARRANGED BY:

Citra Amalia Ardhani 2019.01.006

DIPLOMA THREE OF NURSING
BANYUWANGI INSTITUTE OF HEALTH SCIENCES

2022

### STATEMENT SHEET

The undersigned below:

Name : Citra Amalia Ardhani

NIM : 2019.01.006

Institution: Banyuwangi Institute of Health Sciences

Stating that this Scientific Writing entitled "PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL BANYUWANGI 2022" is not someone else's research either partially or in its entirety, except in the form of quotations that have been mentioned the source. Thus this statement letter 1 made truthfully – true and if this statement is not true, 1 am willing to get penalty.

Banyuwangi, 04 - August 2022

Citra Amalia Ardhani

NIM. 2019.01.006

# STATEMENT OF PUBLICATION APPOVAL FOR ACADEMIC PURPOSES

The undersigned below:

Name : Citra Amalia Ardhani

NIM : 2019.01.006

Institution: Banyuwangi Institute of Health Sciences

Stating that this Scientific Writing entitled "PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL BANYUWANGI 2022" is not someone else's research either partially or in its entirety, except in the form of quotations that have been mentioned the source. Thus this statement letter I made truthfully – true and if this statement is not true, I am willing to get penalty.

Banyuwangi, 04 - August 2022

Citra Amalia Ardhani NIM. 2019.01.006

# STATEMENT OF ORIGINALITY

I hereby declare that this is originally my Scientific Paper, and I do not do plagiarism activities in writing this Scientific Paperentifled

"PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS
WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY
ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL
BANYUWANGI 2022"

If one day I am proven to do plagiarism activities, then I will take full responsibility and accept the consequences

This I make this statement with truth

Banyuwangi, August 2022

Statement maker

Citra Amatia Ardhani 2019,01,006

# APPROVAL SHEET

The Scientific Paperentitled:

Pediatric Nursing Care on Low Birth Weight (LBW) Clients with Hypothermia

Nursing Problem in the Perinatology Room of Blambangan

Regional Public Hospital Banyuwangi 2022

Citra Amalia Ardhani

2019.01.006

A Scientific Paper has been approved

On August 2022

By:

The First Advisor

Atik Pramesti W, S.Kep.Ns, M.Kep NIDN, 0730018504

The Second Advisor

Fany Anitarini S.Kep.Ns., M.Kep NIDN, 0712098506

A 111/15. 07 12090500

The Head of Diploma Three of Nursing Study Program

NIDN, 0730018504

# RATIFICATION OF THE EXAMINER

The scientific paper proposal entitled:

Nursing Childhood in LBW Clients with Hypothermic Nursing Problems in the Perinatologi Room of Blambangan Regional Public Hospital Banyuwangi 2022

# Submitted by:

# CITRA AMALIA ARDHANI 2019.01.006

Has been accepted by the examiner's team of the Diploma three of Nursing Study Program at Banyuwangi Institute of Health Sciences

In August,

2022

### EXAMINERS TEAM

The 1st Examiner : Ns. Sholihin., M.Kep

The 2nd Examiner : Ns. Fransiska Erna D., M.Kep

The 3rd Examiner : Ns. Atik Pramesti W., M.Kep

The Chairman of

Banyuwangi Institute of Health Sciences

DR. IL SOEKARDJO

NUPN: 9907159603

# MOTTO

# Never depend on other people

The most important thing is never depend on other people because at the end of the day, only we exist for ourselves. So while we are still young, energetic, and given the opportunity by Allah SWT, we must try to do any activities such as this research that you do yourself without the help of others. Thank yourself. Tell the world that you can, you are healthy, and dare to try new things and in the end you will enjoy the results.

### PREFACE

In the name of Allah, the beneficent and merciful. All praise is mere to the Mightiest Allah SWT, the lord of the worlds, for the gracious mercy and the tremendous blessing that enables me to accomplish this scientific paper. This Scientific Paperentitled Pediatric Nursing Care on Low Birth Weight (LBW) Clients with Hypothermia Nursing Problem in the Perinatology Room of Blambangan Regional Public Hospital Banyuwangi 2021 is submitted to fulfill one of the requirements in accomplishing the Diploma III of Nursing degree at STIKES Banyuwangi. Many persons have generously suggested improving this scientific paper. First of all the writer would like to express her sincere gratitude and respect to:

- DR. H. Soekardjo, as a chairman of STIKES Banyuwangi who has provided the opportunity, facilities to participate in and complete the education of the diploma three in nursing study program STIKES Banyuwangi.
- Al Amin, S.Kep, Ns. M.Kes who has provided opportunities, facilities, and smooth the author in studying at Diploma Three of Nursing Study Program at Banyuwangi Institute of Health Sciences.
- Atik Pramesti W, S.Kep., Ns., M.Kep as the head of Diploma III in Nursing Study Program who has given us the opportunity and encouragement to complete lectures.
- 4. The first advisor and the third Examiner, Atik Pramesti W, S.Kep., Ns., M.Kep who is patient, kind, and caring who has provided support, took the time to help, provide advice and guide the author so that this thesis can be completed. A lot of help and input that she gave, to make the writer rise again, all the advice and knowledge she gave, I will remember to practice. Thank You a lot, Mrs. Atik Wish you all the best in everything.
- The second advisor, Fany Anîtarini S.Kep.Ns., M.Kep is a mentor who always inspires motivation, guidance, reinforcement, and inspiration in doing this scientific paper.

- Muhammad Nashir, M.Pd, Roudlotun Nurul Laili, M.Pd, and Ns. Rima Ambarwati, S.Kep as English Lecturers who have provided motivation and solutions in preparing the thesis.
- The first and second examiners, who have tested, corrected, provided suggestions to the author so that the Scientific Papercan be completed.
- 8. All lecturers and staffs of the Diploma Three in Nursing program Study at Banyuwangi Institute of Health Sciences who has given a lot of knowledge and understanding in increasing knowledge in the field of nursing.
- 9. Two amazingly simple people, a really great mom and dad who always unceasingly provide support to Citra, both morally and materially which is of course not limited, and not reciprocated. How lucky to have a father and mother in Citra's life, perfect and flawless to have a mother and father. They always pray for their eldest child to always be smoothed out and ber affairs are made easy, hopefully the step by step drawings are always in the pleasure of Allah SWT. Long live my parents.
- 10. Selviana, Hotim, Zukhrifah, Nora, Graceila, Galuh, Riska and other friends. I cannot mention them one by one because too many friends helped me at that time, friends who really belp may your kindness be rewarded by the Almighty.
- 11. Fellow Student of the Banyuwangi Institute of Health Sciences from diploma three of nursing. I do not bave to mention your names one by one, right? It is enough to remember each other without liaving to look at each other, let our memories during college be engraved beautifully in the album of memories, and our bearts. Thank you for the memories you created during college. I wish us all success, my friends.

I hope this Scientific Paper is useful especially to increase scientific knowledge about LBW with hypothermia especially in overcoming hypothermia. May Allah SWT repay all the kiudness that has provided the opportunity, support, and assistance in completing the process of completing this scientific paper.

### PREFACE

In the name of Allah, the Most Gracious and Merciful. All praise is due to Allah SWT, the Lord of the worlds, for the extraordinary mercy and grace so that I can complete this scientific paper. The scientific paper, entitled Nursing Care of Children in Low Birth Weight (LBW) Clients with Nursing Problems with Hypothermia in the Perinatology Room of Blambangan Hospital Banyuwangi in 2021 was submitted to fulfill one of the requirements in completing Diploma III Nursing education at STIKES Banyuwangi. There are so many things that often happen, so that it makes my sense of enthusiasm for myself increase even more. I want to thank:

- Mobammad Ashabul Kahfi is a friend in senior high school. Thank you for helping to compile thesiss in the English version. Not only that, thank you for creating a WhatsApp Group namely Komplotan which is a silent but crowded in reality. Thank you also to the friends who were in it, namely Mellyn and Astrid. I love you and I'm grateful to have you all.
- Doraemon is a secret name of my friend. She is my best friend. She understands my feelings the most and shares experiences together. Thank you very much.
- 3. Do not forget to thank yourself. Thank you for surviving, even though circumstances have to force it. In the future, hopefully to become a better person, must be stronger. The most importantly love yourself, Remember! "Because loving yourself is hard, that is why we are here to help you love yourself" -(방탄소년단)
- 4. BTS (방탄소년단), thank you for being in my life. Have created a song with a meaning that makes me very happy. With the presence of 7 handsome men and make me excited in living my days. I always remember the words from

- one of your songs "keep your way, even if today is your last day, carry on something, get rid of your weakness!" -No More Dream
- 5. "Do not think too hard ok? And do your hest so you do not regret it later! I am here to support you!" 박지민
- 6. "When things get heavy, look at the people who love you! You will get energy from them" 정허석
- 7. "You can cry but not to give up" -전정국
- 8. "Everything goes bad when you think negatively. When you think positive, everything will get hetter" 김석진
- 9. "You were horn to be real, not to be perfect" 민윤기
- 10. "It's okay! This is enough and amazing! Rub your head and tell yourself that you've worked hard!" -김남준
- H. "You are the only person who can create your future" 김태형

### ABSTRACT

# PEDIATRIC NURSING CARE ON LOW BIRTH WEIGHT (LBW) CLIENTS WITH HYPOTHERMIA NURSING PROBLEM IN THE PERINATOLOGY ROOM OF BLAMBANGAN REGIONAL PUBLIC HOSPITAL BANYUWANGI

# 2022

### By: CITRA AMALIA ARDHANI

Background: Premature low birth weight bahies are bahies horn at gestational age less than 37 weeks and weighing under 2500 grams. The nursing problem for hypothermia is an involuntary decrease in core body temperature to < 35°C (or 95°F). This study aimed to provide nursing care for premature LBW infants includes assessment, diagnosis, intervention, implementation and evaluation of nursing.

Methods: The report writing used a case study with nursing process approach including assessment, diagnosis, intervention, implementation and evaluation of nursing and documentation.

Results: In 1<sup>st</sup> client was 4 nursing diagnoses namely hypothermia, nutritional deficit, ineffective hreathing pattern, and the risk of glucose level instability was resolved on May 26, 2022 after nursing care actions were carried out for 4x24 hours. While on 2nd client was 2 nursing diagnoses namely hypothermia and nutritional deficit, it was resolved on 28 May 2022 after nursing care actions were carried out for 3x24 hours.

Conclusion: Providing nursing care to LBW infants with hypothermia requires cooperation from both health workers and family because it is necessary for the success of nursing care for LBW infants. Starting from the assessment, determining nursing diagnoses, plans, actions and evaluations on 1st and 2nd client were in accordance with the specified theory, one of which is providing therapeutic communication actions that can encourage families to he more cooperative.

Keywords: Premature and Hypothermic Low Birth Weight Babies (LBW).

# TABLE OF CONTENTS

SCIENTI	FIC PAPER	Î
SCIENTI	FIC PAPER	ii.
-	ENT SHEET	
	ENT OF PUBLICATION APPOVAL	
	IENT OF ORIGINALITY	
	AL SHEET	
	ATION OF THE EXAMINER	
	E	
	E	
	CTx	
	DF CONTENTSx	
	TABLE xi	
LIST OF	AWEIGHTREVIATION	КX
LIST OF	APPENDIXESx	хi
CHAPTE	R 1 PRELIMINARY	. 1
1.1	Background	1
1.2	Limitation of Problem.	5
1.3	Problem Formulation	5
1.4	Purpose	5
1.4.1	General Purpose	5
1.4.2	Special Purpose	5
1.5	The Benefits of Writing	6
1.5.1	Theoretical Benefits	6
1.5.2	Practical Benefits	6
CHAPTE	R 2 LITERATURE REVIEW	8
2.1	Growth and Development Concept.	8

2.1.1	Definition of Growth and Development	8	
2.1,2	Stages of Child Development	8	
2.1.3	Aspects of Growth and Development	9	
2.1.4	Characteristics of Growth and Development	<b>1</b> 0	
2.2	Basic Concepts of Low Birth Weight Babies	12	
2.2.1	Definition of LBW	12	
2.2.2	Etiology	12	
2.2.3	Classification	15	
2.2.4	Pathophysiology	16	
2.2.5	Web of Caution WEIGHTLR	19	
2.2.6	Clinical Manifestations	20	
2.2.7	Complications	21	
2.2.8	Management	22	
2.2.9 \$	2.2.9 Supporting investigation		
2.3	Hypothermia Concept	26	
2.3.1	Definition Hypothermia	26	
2.3.2	Mechanism of Heat Loss	27	
2.3.3	Cause	27	
2.3.4	Relevant Factors	28	
2.3.5	Major Signs and Symptoms	28	
2.3.6	Minor Signs and Symptoms	29	
2.3.7	Related Clinical Conditions	29	
2.3.8	Expected results	30	
220	T	20	

	2.3.10	Medical Diagnosis
	2.4	Kangaroo Mother Care (KMC) Concept31
	2.4.1	Definition Kangaroo Mother Care (KMC)31
	2.4.2	Benefit of Kangaroo Mother Care (KMC)
	2.4.3	Kangaroo Mother Care Equipment and Supplies33
	2.4.4	Technique of Kangaroo Mother Care (KMC)
	2.4.5	Method Component Kangaroo Mother Care (KMC)34
	2.5	Concept of Nursing Care35
	2.5.1	Assessment
	2.5.2	Nursing Diagnosis
	2.5.3	Nursing Intervention
	2.5.4	Implementation
	2.5.5	Evaluation
CI	HAPTE	R 3 RESEARCH METHODS 61
	3.1	Research Design61
	3.2	Limitation Of Terms61
	3.3	Participants62
	3.4	Location And Time Of Research
	3.5	Data Collection
	3.6	Data Authenticity Test64
	3.7	Data Analysis64

	3.8	Research Ethics	65
RI	ESULT	AND DISCUSSION	69
	<b>4</b> .1	Result	69
	4.1.1	Location Description	69
	4,1,2	Assessment	71
	4.1.3	Data Analysis	78
	4.1.4	Nursing Diagnosis	81
	4.1.5	Intervention	82
	NURS	ING DIAGNOSIS (Goals, Outcome Criteria)	82
	NURS	ING DIAGNOSIS (Purpose, Result Criteria)	84
	4.1.6	Implementation	86
	4.1.7	Evaluation	98
	4.2	Discussion	104
	4.2.1	Assessment	.104
	4.2.2	Nursing Diagnosis	. 107
	4.2.3	Intervention	. 110
	4.2.4	Implementation	. 111
	4.2.5	Evaluation	.113
Cl	нарте	R 5	115
C	DNCLU	ISION AND SUGGESTION	115
	5.1.	Conclusion	. 115
	5.1.1.	Assessment	. 115
	5.1.2.	Nursing Diagnosis	.116
	512	Interportion	117

REFERENCES		121	
	5.2.	Suggestion	119
	5.1.5.	Evaluation	. 118
	5.1.4.	Implementation	. 118

# LIST OF TABLE

Table 2.1 APGAR Score (Heryani, 2019)	39
Table 2.2 Intervention of Nursing PPNI (2018)	47

# LIST OF AWEIGHTREVIATION

LBW : Low Birth Weight

WHO : World Health Organization

IMR : Infant Mortality Rate

IUGR : Intrauterine Growth Retardation

KMC : Kangaroo Mother Care

HIV : Human Immune Deficiency Virus

AIDS : Acquired Immune Deficiency Virus

TORCH: Toxoplasma, Rubella, Cytomegalovirus and Herpes

Kg : Kilogram

C : Celsius

F : Fahrenheit

Ht : Hematocrit

Hb : Hemoglobin

Na : Natrium

Cl : Chloride

IM : Intra Muscular

APGAR : Appearance, Pulse Rate, Grimace, Activity, and Respiration.

O<sub>2</sub> : Oxygen

# LIST OF APPENDIXES

Appendix 1 Matrix of Research	123
Appendix 2 Letter of Approval for Title Submission	124
Appendix 3 Application for Cover Letter to the Research Site	125
Appendix 4 Initial Data Collection Permit Recommendation Letter	I 26
Appendix 5 Consultation Sheet	127
Appendix 6 Application Sheet Respondent	133
Appendix 7 Sheet Become a Respondent	134
Appendix 8 Member Checking Papper	140
Appendix 9 Information Passes Ethical Review	141
Appendix 10 Data retrieval permit sheet	142
Appendix 11 List of students doing research	143
Appendix 12 Documentation	I 4 <b>4</b>
Appendix 13 Perinatology Nursing Care	146