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Complementary Nursing Issue and Updates in 2015

STIKES Hang Tuah Surabaya June, 6th 2015

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GREETING FROM COMMITTEE PRESIDENT

On behalf of the commite it is very special honour to be your host in the first International nursing conference, which proides especially to student with an opportunity to share their ideas througt their selected paper on the theme " Complementary Nursing Issues and Updates in 2015

The Conference brings together academicians, practitioners, researcher as much as 200 participants from different provinces in Indonesia and different countries such as Malaysia, Japan and Republic of Tiongkok. So by gathering and interacting each of attendes here, I do believe that the fruit of this conference will contribute surely to nursing.

Finally, I congratulate those whose selected papers are included in the International proceeding, and I also would like to thank to the attendance keynote spaker, expertise, the committee and to all the participants.

<u>Ns. Puji Hastuti, M.Kep</u> Committee President

CONGRATULATORY MESSAGE

It is a great honor for me to extend this opportunity to welcome all of you to International Nursing Conference 2015. This conference is organized by STIKES Hang Tuah Surabaya with a theme "*Complementary nursing Issues and Updates in 2015*". This is the first time for STIKES Hang TuahSurabaya to hold an International nursing Conference, and I do believe we may have other conferences that contribute to the development of nursing sciences.

This conference is timely and relevant in light of challenges we are facing in the next years ahead. It is to be noted that the ASEAN Economic Community will be due on the December 31st, 2015, allowing seven professions including nursing practitioners to work and practice across ASEAN countries, although further preparations under Mutual Recognition Arrangements (MRA) are still required.

On behalf of the institution STIKES Hang Tuah Surabaya, I would like to express my highest appreciation to the committee, who organized this International Nursing Conference 2015. It is my pleasure to warmly welcome all of you to this event, and also cordially welcome all overseas speakers to share their knowledge and experiences to all participants.

Eventually, I am confident that with the preparation and cooperation of all participants, the presence of distinguished guest speakers, the first international Nursing conference 2015 will be of great success.

Please enjoy your stay in Surabaya and wish you a wonderful time and valuable experiences from this event. Once again, It is our sincere thanks to all of you for taking time to join us.

Thank you.

<u>Wiwiek Liestyaningrum, M.Kep</u> The Head of STIKES Hang Tuah Surabaya

TABLE OF CONTENTS

No	Title	Page
	Speaker Topic	
1 2	Recovery-Oriented Nursing for People With Mental illness Policy and Implementation of Complementary Nursing (Indonesian Nurse's Perspective)	1 14
3 4	The Prospective of Complementary Nursing in Malaysia Chinesse Medicine	22 23
	Participant Topic	
5	Autogenic relaxation self efficacy in patients with Cervical Cancer	25
6	Effectiveness of goverment strategy in efforts to accelerate the of maternal and infant mortality rates	32
7	The effects of benson meditation to reduce anxiety level of premenstrual syndrome in felame adolescence	42
8	The effectivennes of cross cradle hold breasfeeding position against episiotomy pain of post-partum mothers	48
9	The competency of midwives in early detection and treatment of high risk of pregnant women to reduce maternal mortality	58
10	The relationship between intelligence quotient (IQ) with social personal development pre-school children	68
11	The effect 4s's technique to physiological and behavioral responses on newborn	75
12	RFPP method for recovery of the nutritional status of children with malnutrition and poor nutritional status: a literature review	83
13	The relationship of parenting styles and the achievement of developmental tasks of toddler	93
14	Effect of early mobization pain, blood pressure and pulse client after operation sectio caesaria	103
15	Efficacy and safety of homeopathic medicines as a complementary and alternative medicine: a literature review	111
16	Islamic nursing process in fulfilling immobilized patient' spritual need (prayer)	119
17	The efficacy of red betel leaves boiled water on blood glucose levels in healthy people	128
18	Transcutaneous electrical nerve stimulation as complementary therapy on pain management acute colic renal	137
19	The effect of foot massage on ABI'S patients with Type 2 Diabetes Mellitus	143
20	The effect of consumption lamtoro (<i>leucaena leucocephala</i>) to decrease blood glucose levels of Diabetes Mellitus patient	150
21	The effect therapyof listening al-qur'an; surah ar-rahman and deep breathing exercise (DBE) on pain in patient abdominal surgery.	159
22	Achivement of suctioning competence though peer learning	166

23	The levels of blood glucose and blood cholesterol before and after aerobic exercise in patients with diabetes mellitus	181
24	1	193
24 25	Improving visual health (myopia) with "vision therapy" The effectiveness if guided imagery relation to meet the needs	195 198
23	The effectivennes if guided imagery relaxion to meet the needs	198
26	of sleep in patien with post laparomy	204
26	The techniques of deep breathing relaxation and auditory	204
~-	distraction to reduce level of pain	
27	The effect diaphragma breathing exercise for decreasing of	212
	asphyxiate to patient with COPD	
28	The effects of counseling in improving perception among risk of	221
	HIV/AIDS	
29	Effectivennes of aplication of health education formed audio	229
	AIDS in community health center (PUSKESMAS)	
30	The effect of brain gym on the ability to remember the lesson of	239
	social science	
31	The difference of insomnia in the elderly before and after	253
	keroncong music therapy	
32	The effect of given aromatherapy rose to descrease streess levels	263
52	on early adolescent (12-15 years old)	203
33	Improving the empowerment of mother larvae observer through	273
55	education and training approach based on health promotion model	215
24	• • • •	201
34	Effect of warm water foot soak's to decrease Hypertention on	281
25	elderly	200
35	Effect of mixed water lime and soy sauce in the healing cough of	288
	toddler	• • •
36	The relationship caring nurse with patient satisfaction PHC	297
	Hospital in Surabaya	
37	Bipolar disorder in young adults: culture as etiology and basic	304
	intervention (a literature review)	
38	The effectiveness of brain gym exercise to improve learning	309
	concentration of students	
39	The relationship between the incidence of acute respiratory tract	313
	infection (arti) and nutritional status among toddler in	
	krembangan surabaya	
40	Design of interactive multimedia based learning media at adult	318
	about cardiopulmonary resuscitation of one by stander	
41	The correlation between clinical guidance competence with	328
	clinical skill attaiment of candidate nursing students	020
42	The effectivity of deep breathing toward pain during radial artery	
72	catheterization among coronary heart disease (CHD) patients in	336
	"hk" hospital jakarta	
12		240
43	Making learning video pediatric basic life support by camtasia	342
A A	studio base on powerpoint	0.47
44	Walking and watching movies to decrease the rate of depression	347
4 -	in elderly	251
45	The rapeutic touch as a complementary therapy for healing	354
	nursing	

46	The influence of consume nanaku rice with blood sugar level	361
47	among patients with diabetes mellitus the influence of avocado leaves to decrease blood pressure in elderly with hypertension	371
48	The effect of feeding rules programme toward body weight changing among children in playgroups ponorogo	379
49	The effectivity of bubble continuous positive airway pressure (CPAP) among neonates with severe respiratory distress	383
50	syndrome (RDS) in dr.ramelan navy hospital surabaya The relationship between obstetric conditions and the incidence of preterm labor in dr.ramelan navyhospital surabaya	394
51	Counseling improving self-esteem and acceptance on the client with type 2 diabetes mellitus	408
52	The efficacy of blood glucose control for reduce ulcer foot degrees among patients with diabetes mellitus	419
53	Instrument program of mental health disorder early detection for health cadres and society in pekalongan regency	428
54	Family social support on patient with hypertension	438
55	The predictive factors influence of breast feeding self-efficacy among breast feeding mothers	446
56	The relationship between gestational age and asphyxia among newborn baby	453
57	Analysis of the factors hyperglycemia to patients of diabetes mellitus already taking oral hypoglycemia drugs (OHD)	461
58	Relations of activities mother, vaccine availability and the activity officer with polio immunization completeness four in children of working area Health Centers Mekar Kendari City	474
59	Risk factors of cardiovascular desease	484
60	Stress management relationship with a teenager learning motivation XI IPS the SMA Antartika Sidoarjo	492
61	The effect of recite qur'an on quality of sleep among elderly in elderly health center (posyandu lansia) matahari senja	498
62	Effect of interpersonal communication, supervision and trust on performance instructor clinic hospital nursing students region province lampung	506
63	The effects of career development system, justice, and responsibility for quality of lecturer's service in health polytechnic tanjungkarang lampung 2013.	517

THE RELATIONSHIP BETWEEN GESTATIONAL AGE AND ASPHYXIA AMONG NEWBORN BABY

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ABSTRACT

Asphyxia is a condition in which a newborn baby can not breathe spontaneously and regularly soon after birth. One of the factors contributing to the incidence of neonatal asphyxia was gestational age. The purpose of this study is to determine the relationship between gestational age and asphyxia in newborns baby. This study design was correlational with cross sectional approach. Population was the mother who gave birth to a normal 107 respondents with a total sampling technique. Data obtained by observation and analyzed by Spearman correlation test. The results showed that the incidence of asphyxia in premature infants as much as 65% and in infants at term 35.29%. Statistical test results showed that p-value 0.038 < (α =0.05), which is mean there is a significant relationship between gestational age and the incidence of asphyxia among newborn baby. Maternal gestational age associated with the occurrence of asphyxia. Asphyxia can occur in premature infants and at normal term.

Keywords: Asphyxia, newborn baby, gestational age

Introduction

Today, the health of mothers and children is still not optimal. One indicator used is the number of infant mortality. In several studies on the world stage, including in Indonesia, showed that the mortality rate of mothers and newborns is still quite high. Based on Ani Yudhoyono stated that in Indonesia Infant Rate Mortality (IMR) is still relatively high at 35 per 1,000 live births, or about 175,000 infants die each year (Maryunani & Nurhayati, 2008). This can affect the acceleration of the achievement of objectives International agreements' Millennium Development Goals

(MDGs "). One of the causes of neonatal mortality is asphyxia.

Asphyxia in newborns is a condition in which a baby can not breathe spontaneously and regularly soon after birth (Muktar, 2002). One of the factors contributing to the incidence of neonatal asphyxia was gestational age. Complications of this asphyxia was the cause of death in neonates. According to WHO every year about 3% (3.6 million) of 120 million births asphyxiated and nearly 1 million babies who have the death experienced of this asphyxia. Newborn mortality rate in Indonesia is caused by asphyxia is 30% after prematurity (DHO Profile Prop. Jatim, 2009). Referring to these

problems, it is necessary to study to determine whether there is a relationship between gestational age and asphyxia in newborns. The hypotheses in this study is there is a relationship between gestational age mother and asphyxia in newborns. The purpose of this study was to analyze the relationship of age gestation and asphyxia in newborns.

Literature Review

Pregnancy is a natural process that preceded the meeting ovum and sperm is called fertilization, followed by implantation until the fetus can grow and be born (Khosim, 2008). The period ranging gestation from ovulation until labor occurs during the 280 days (40 weeks) and no more than 300 days (43 weeks). Childbirth is the process of spending the products of conception have been quite a month through the vagina or through another way to help (Manuaba, 2002: 157).

By age pregnancy, labor is divided into five, namely abortion, immature birth, premature, mature (at term) and post-mature. Abortion is the interruption of a pregnancy before the fetus is able to live, with a gestational age > 22 weeks and the weight > baby's 500 grams. Immature birth is occurring at the expense of fetal gestational age between 22-28 weeks with the baby's weight between 500 grams - 999 grams. Premature labor is labor in gestational age 29-36 weeks with the baby's weight between 1000-2500 grams. Mature labor (at term) is delivery on the gestational age 37-40 weeks with the baby's weight> 2500 grams. Post mature delivery is a delivery that exceeds the expected time (Nugroho.T, 2010).

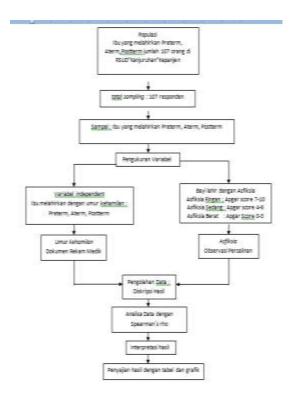
Babies who are born with a gestational age of less or more, usually potential for the occurrence of asphyxia. Infants with gestational age less than 37 weeks, weighing less than 2500 grams, is a major cause of neonatal death because the baby has an infection of central nerve system, asphyxia, birth trauma and intra ventricular hemorrhage. While pregnancy is overdue (over 42 weeks), will have the potential for post-term pregnancy complications, namely: oligo hydramnion, intrauterine aspiration, and fetal distress. Criteria of asphyxia are : (1) No asphyxia (Normal) if the value of Apgar score (AS) 7 - 10. Babies cry immediately after birth (2-3)seconds). (2) Asphyxia medium if the value of Apgar score 4 - 6. The condition where the baby's skin color blue because the circulation is less satisfactory, the baby needs to do intensive suctioning, more and giving oxygen to the cannula 1-2 liter/ min. 3. severe asphyxia Apgar score score 0 - 3. The baby's condition is very serious, baby limp, the heart muscle is weak and not breathing. Require active resuscitation and oxygen delivery is controlled by granting O_2 and intermittent positive pressure through the endo-tracheal tube (Sulistyorini, 2010).

Methods

The design of this research is correlational with cross sectional approach. The study was conducted to analyze the relationship between gestational age with asphyxia in newborns. Population is the mother who gave birth normally in accordance with gestational age, both in pregnancy at term, pre-term and post-term, a number of 107 people. Samples are all mothers who gave birth normally taken in total (total sampling). The independent variable was the gestational age and the dependent variable was asphyxia in newborns. Independent and dependent variables assessed simultaneously at any one time.

The operational definition of this study are as follows: Gestational age is a period ranging conception until the baby is born, count the first day of the last menstrual period (LMP). Newborn asphyxia is a condition where the baby can not breathe spontaneously and regularly after birth, measured soon bv APGAR scores in the first minute and five minutes of the second. Observations carried out on mothers who give birth normally by age pregnancy and babies born. Do occur asphyxia or not. Gestational age data obtained from the patient's status documents (secondary data), while the data asphyxia done by direct observation, assisted by nurses who have been trained. Observation result set as follows: No asphyxia, asphyxia moderate and severe asphyxia. Figure 1 shows the framework of the research.

Figure 1 The research framework



The data were analyzed using univariate and bivariate. Univariate conducted to assess the gestational age of the mother and infant asphyxia. Gestation, are classified into three categories: gestational age pre-term (<37 mgg), term (37-42 mgg) and post-term (> 42 mgg). Asphyxia in newborns, classified into mild asphyxia or asphyxia (AS 7-10), moderate asphyxia (AS 4-6) and severe asphyxia (AS 0-3). analysis conducted to Bivariate analyze the relationship between gestational age with asphyxia. Analysis using the Spearman Rank test, with significance level of 95%. If $Pv < \alpha$ (0.05), then Ho is rejected, which means that there is a relationship between gestational age with asphyxia in newborns.

Results and Discussion

The study results are described in two groups, including the general data of respondents and specific data. The following general data characteristics of respondents, including age of the respondents (maternal), education and the status of the mother's pregnancy, which may be associated with the occurrence of asphyxia in newborns.

 Characteristics of the respondent (mother) based on age. The age of respondents ranged from 21 to 40 years, and most are at the age of 21-30 years (53%), as in Figure 2.

_	Age mo	ther	
	5; 5%	12, 11%	
	3;		< 21 th
3 L%	L%		21 - 30 th
	57; 53%	31 - 40 th	
		00/0	> 40 th

Figure 2 Characteristics of the Respondent based on age mother

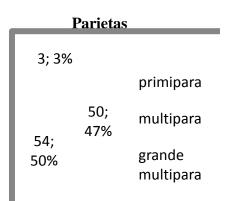
2. Characteristics of the respondent (mother) based on Education Education respondents, varying from elementary to college, and most are junior some 36%, as in figure 3

	Mother	Education	level
--	--------	-----------	-------

31;	33;	SD
29%	31%	SMP
3	9;	SMA
36	5%	PT

Figur 3 Characteristic Mother Education Level

 Characteristics of the respondent (mother) based on Pregnancy Status
Based on the status of the pregnancy, it is known that most respondents pregnancy status is multiparous (50%), next is primiparous (47%), as in figure 4.



Figur 4 Characteristic of Pregnancy Status

The results of data analysis related to gestational age and the occurrence of asphyxia in newborns.

1. Age Pregnancy. Gestational age mothers who were respondents ranged from 24 mg of gestation up to 43 mg, which are classified into three, namely pregnancy preterm, term and post-term, as in figure 5.

Based on Figure 5 can be seen that most babies are born at term (at term), which amounted to 79, 43% (85 respondents).

Ge	Gestational Age							
2; 2	%							
	20; 19%	premature aterm						
85; 79%		postterm						

Figure 5 Category Age Pregnancy Mother 2. Asphyxia in Newborn By Age Pregnancy based on the gestational age of all babies are born and pregnancy by age group, can be seen Table 1 and table 2.

Based on table 1, it is known that quite a lot of infants with gestational age at term asphyxiated, amounting to 28.03% include moderate asphyxia were 21.49% and 6.54% severe asphyxia.

This is caused by the condition of women who experience fatigue and suffered complications while the second stage of labor.

Age Asphyxia Categories								
Pregnanc y		evere ohyxia	Moderate Asphyxia		Mild / Non Asphyxia		Total Labor	%
	f	%	f	%	f	%		
Pre mature	5	4,67	8	7,48	7	6,55	20	18,70
At term	7	6,55	23	21,49	55	51,40	85	79,43
Post term	0	0	1	0,93	1	0,93	2	1,87
Total	12	11,22	32	29,90	63	58,88	107	100

Table 1 Distribution of asphyxia by age pregnancy

	Table 2 Distribution	of asphyxia	by gestational	l age group
--	----------------------	-------------	----------------	-------------

Age		Α						
Pregnancy	Severe Asphyxia		Moderate Asphyxia		Mild / Non Asphyxia		Total Labor	%
	f	%	f	%	f	%		
Pre mature	5	25	8	40	7	35	20	100
At term	7	8	23	27	55	65	85	100
Post term	0	0	1	50	1	50	2	100

Based on Table 2 is known that the gestational age group, the highest incidence of asphyxia in premature group, which amounted to 65% included severe asphyxia were 25% and moderate asphyxia were 40%.

3. Analysis of Relationship between Age Pregnancy with Asphyxia Newborn

Based on the analysis of statistical tests obtained that p-value $(0.038) < \alpha$ (0.05) which means that Ho is rejected. These results indicate that there is a significant relationship between

gestational age with asphyxia in newborns. Based on the analysis get r = 0.201 which means the strength of the relationship between gestational age with asphyxia is low. Results of the analysis are shown in Table 3.

Table 3 Results Analysis of Relationship between Age Pregnancy with asphyxia on Newborn

Variable	n	r	pv	Conclusion
Gestational				Pv (0,038)< α (0,05)
Age	107	0,201	0,038	Conclusion: Ho is rejected
Asphyxia				(there is a relationship between
				gestational age with asphyxia)

Discussion

Based on this research, it is known that maternal age is the most productive group (21-30 years). All mothers perform normal deliveries with gestational age are most at-term. With such conditions, should the mother group, not having babies born with asphyxia. In fact, quite a lot of pregnant women at-term, give birth to the baby's condition asphyxia.

Based on the age of the mother, it is not in accordance with the theory that the age of the mother during pregnancy, should be above 17 years and less than 45 years. This theory explains that pregnant women of reproductive age can prevent complications, because there has been a physical organ maturation and better prepared than the mother whose age is too young or too old. Mothers with age too young, reproductive organs not ready to accept the pregnancy, while mothers with age too old, they were not able to give birth well as the function and quality of organs that have been declined.

Based on the age group of the mother's pregnancy, it is known that the percentage of babies born with asphyxia is more common in premature infants (65%). Asphyxia in babies born prematurely due to whole organs have not been formed and functioned perfectly. This is consistent with the theory that the baby is premature, the entire organ has not been formed and functioning perfectly. especially in the respiratory system, because of the lack of production of surfactant in the lungs. Pulmonary surfactant serves to increase the surface tension of the alveoli, and prevent the collapse of the alveoli. Presence of a surfactant, will get cavities or spece between molecular and alveolar surface, thus reducing surface tension. Another theory explains that babies born preterm (<37 weeks), weighing less than 2500 grams, is the leading cause of infant mortality due to infections of the central nerve asphyxia, and intra system, ventricular hemorrhage.

Based on the analysis of the relationship between gestational age with asphyxia known that, there was a significant relationship between maternal gestational age with the occurrence of asphyxia. Asphyxia can occur in all age groups pregnancy, premature pregnancy, atterm and post-mature. Asphyxia can

gestational occur at any age Premature group, the potential for the occurrence of asphyxia more often than the other groups. Percentage of asphyxia in premature babies group 65%, then the baby postmature 50% and the last group of infants at term 35%. This shows the tendency that the younger gestational age were more potential for the occurrence of asphyxia than mature age. Asphyxia in premature infants caused by lack of maturation of the respiratory organs of the baby, while the baby at term and post-term, asphyxia occurs as a complication of several things including pregnancy complications, prolonged labor due to a large baby, the baby swallows amniotic fluid, the trauma of birth, or the mother experiencing physical illness such as heart disease. asthma. diabetes mellitus, and so forth. Women giving birth complications prolonged labor, usually experience severe fatigue, marked by contractions of the uterus weakens and flatulence. In the harsh conditions, fetal distress can occur even fetal death in utero.

the analysis of In the relationship between gestational age asphyxia known that with the relationship is weak with r = 0.21. In the analysis of the relationship between gestational age with the occurrence of asphyxia, it is known that the association was weak with r = 0.21. This relationship are positilf and have a weak connection strength. This occurs because of asphyxia caused not only by a factor of gestation mother, but also many other risk factors that can cause asphyxia. Other risk factors which may cause asphyxia include: Childbirth difficult (breech, twins, shoulder dystocia, vacuum extraction, forceps), amniotic fluid turbid, Congenital malformations, abnormal fetal heart rate, abnormal bleeding (placenta praevia or placenta solutio), prolonged labor or obstructed, Pre eclampsia and eclampsia, infections or heat illness during labor, marked by an increase in temperature> 38° C which can lead to direct infection of the fetus in the womb, and the mother suffered from severe infection (malaria or TORCH).

Conclussion and Recomendation

Maternal gestational age associated with the occurrence of asphyxia. Asphyxia can occur in premature infants, at term dan postterm. In premature infants asphyxia more than a baby at term. Asphyxia can occur in all age groups pregnancy, premature pregnancy, atterm and post-mature. Asphyxia can gestational occur at any age Premature group, the potential for the occurrence of asphyxia more often than the other groups. The results shows, there is tendency that the younger gestational age were more potential for the occurrence of asphyxia than mature age.

Recommendations from this research are:

- 1. All nurses need to raise awareness of the occurrence of asphyxia in newborns of all age groups childbirth. The procedure the handling remains of newborns need to be adhered to by all nurses and implement them consistently.
- 2. For institutions (hospitals), need to set strict policies related to the handling of newborns through the development of management standards newborns, supervision, and provision of adequate facilities.

3. For society, especially mothers, need regular visits to health workers who are competent. This is important because not only premature babies who can suffer asphyxia, but also baby at term and post-term.

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