The Influence of Exclusive Milk Water to The Event of Acute Breathing Infection in Artificial Infants in 6-12 Months

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Abstract

Objectives: Detemination of this study was to determine the effect of exclusive breastfeeding on the incidence of ARI in infants aged 6-12 months in the RAB RSUD dr. Soekardjo Tasikmalaya City in 2014. This type of research is case control. The power of the relationship of exclusive (independent) breastfeeding to ARI events. The population in study were infants aged 6 to 12 months who v ere in the RSAB of Tasikmalaya City Hospital. Acute Respiratory Infection (ARI) is a disease that many children experience children and is the most common cause of death in de eloping countries. WHO (2003) estimates that around 4 million of the 15 million children under 5 years of age die from ARI each year and as many as two-thirds of these deaths occur in infants. As many as 40% - 60% of the number of visits to the Puskesmas is ARL The purpose of this study was to determine the effect of exclusive breastfeeding on the incidence of ARI in infants aged 6-12 months in the RAB RSUD dr. Soekardjo Tasikmalaya City in 2014. This type of research is case control. The power of the relationship of exclusive (independent) breastfeeding to ARI e ents. The population in lesson were infants aged 6 to 12 months who were in the RSAB of

Tasikmalaya City hosspital. Statistical test results obtained p alue <0.05 means that there is a significant influence between exclusi e breastfeeding with the incidence of obesity. OR value of 32,738. (95% CI: 11 951-89 684) means that infants aged 6-12 months who are not given exclusive breastfeeding are 32.738 times more to have an Akl event than the Non-ARI group. Of 9 th extraneous dtermination analyzed only 4 variable have statistical significance. which a P value <0.05 Le. (1) mother's education (2) economic status (3) nutritional status, (4) house ventilation. As a precautionary measure it is hoped that the community can, work together to create an environment and healthy li ing behaviors (not smoking indoors, exclusi e breastfeeding for toddlers, habit of opening windows in the morning and afternoon and keeping a distance from toddlers when suffering ARJ both in the family and community

Keywords: Malnutrition in Toddlers, breastfeeding, Feeding, care for underweight children.

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INTRODUCTION

Uppeer Respiratory tract Infection (URI) is a disease that is often experienced children and is the most common cause of death in developing countries. WHO (2003) estimates that around 4 million of the 15 million children under 5 years of age die from ARI each year and as many as tv o• thirds of these deaths occur in infants. As many as 40% -

60% of the number of visits to the Puskesmas is ARI. The purpose of this study was to determine the effect of exclusive breastfeeding on the incidence of ARI in infants aged 6-12 months in the RAB RSUD dr, Soekardjo Tasikmalaya City in 2014. This type of research is case control, To see the strength of the relationship of exclusive

(independent) breastfeeding to ARI events. The population in this

study were infants aged 6 to 12 months who were the RSAB of Tasikmalaya City Hospital. Acute Respiratory Infection (ARI) is disease that many children experience and is the most common cause of death in developing countries. WHO (2003) estimates that around 4 million of the 15 million children under 5 years of age die from ARI each year and as many as two of these deaths occur in infants. Each child is estimated to experience 3-6 episodes of ARI each year. As many as 40% - 60% of the number of visits to the Puskesmas is ARI

Breast milk contains all the nutrients and fluids needed meet all nutritional and fluid needs in the first six months of life. Breast milk contains

protective substances or immune substances.

Immune substances in breast milk can protect babies from diarrhea or diarrhea infectious diseases colds and allergic diseases. coughs Infants who are exclusively breastfed be healthy and rarely will to babies who are not compared exclusively breastfed. Based on the results of the Basic Health Research in 2007 report (RISKESDAS) prevalence of ARI in Indonesia, as 25 .5% with the highest around prevalence occurring in two-year infants(> 35%). The number of children under five with ARI in Indonesia in 2011 was five out of 1 000 children, that means 150 000 children die for year or as many as 12,500 children per month or 416 cases a day or 17 children per hour or one fifth of a fifth of a minute. The concluded that the prevalence of ARI sufferers in Indonesia is 9.4% (MOH 2012). The incidence of AR in West Java province reached 24. 73%. The number of ARI sufferers in West Java in 2012, as estimated at 20 687 cases.

According to the head of the Wasdal section of the Bandung District Health Office the Bandung District ranks highest for ARI prevalence. It is estimated that ARI cases suffered by children under five in Bandung Regency as many as 320 thousand infants out of a total population of 3.2 million people each year. In 2010, the Bandung District Health Office received 21 929 cases of Ispa cases from the Puskesmas, with two deaths. Whereas in 2011 there were 22,371 cases with two deaths, in 2012 there, ere I 83 640 cases and in 2013 there w ere 144 366 cases. Based on 2009 data taken from the Tasikmalaya city health office the results showed that the number of children under five, went to the puskesmas in the Tasikmalaya area suffered from ISPA. Especially in Kawalu puskesmas as many as 890 people Cilembang many as 699 people Tawang as many as 508 people. The purpose of this

study was to determine the effect of breastfeeding 3901sooo

Text inclusive of the incidence of ARI in infants aged 6-12 months in RSUD Dr. Soekarjo in 2014. The results of this study are expected to pro ide information to the public and mothers in particular about the benefits of exclusive breastfeeding in preventing ARJ events in infants aged 6-12 months.

ARI (Acute Respiratory Infection). The term ISPA which stands for Acute Respiratory Infection was introduced in 1984 after being discussed at the ISPA National Workshop in Cipanas. This term is the equi alent of the British term Accute Respiratory Infections abbre1Ded as ARI. The term ARI includes three elements namely infection respiratory and acute with th1 following definitions;a. Infection is the entry of germs or microorganisms into the human body and multiply so as to cause symptoms of the disease. b. The respiratory tract is an organ from the nose to the alveoli and their adnexal organs such as the sinuses, middle ear cavity pleura ARI anatomically includes the upper respiratory tract respiratory tract (including lung tissue) ant, dnexal organs of the respiratory tract. c. Acute infection is an infection

that lasts up to 14 days. Limit .2 Signs

and Symptoms According to these erity ARI can be divided into three groups, among others: mild ARI not pneumonia ARI pneumonia and ARI pneumonia. Especially for infants under two months only known to severe ARI and mild ARI (no ARI). Limitation of severe ARI for infants less than two months is when the frequency of breathing is fast (60 x *I* min or more) or the presence of a strong chest wan traction. The symptoms of ARI include the following:

a. Symptoms of mild ARI

A child is diagnosed with mild ARI if symptoms are found as follows:

- 1) Cough
- Shortness is a hoarse child when making a sound (for example when talking or crying).
- 3) Colds, namely mucus or snot out of the nose.
- 4) Heat or fe er, body temperature more than 370 C or if the child's forehead is touched with the back of his hand feels hot

b. Symptoms of moderate ARI

A child is declared suffering from moderate ARI if symptoms of mild ARI are accompanied by the following symptoms;

- 1) Breathing more than 50x *I* minute in children aged. less than 1 year or more than 40x *I* minute in children one year or more.
- 2) Temperature more than 390 C.
- 3) Red throat.

- 4) Spots appear on the skin resembling measles.
- 5) Ear pain or pus from the ear hole.
- 6) Breathing sounds like snoring.
- 7) Breathing sounds squeaking.
- c. Severe ARI symptoms A child is diagnosed with severe ARI if there are mild or moderate ARI symptoms with one or more of the following symptoms;
 - 1) Blue lips or skin.
 - 2) The nostrils are flattened (wide enough) when breathing.
 - Children are not aware or decreased consciousness ...
 - 4) Breathing sounds snoring and the child looks nervous.
 - Respiration sounds shrink and the child looks nervous.
 - Between ribs pulled in . hen breathing.
 - Fast pulse more than 60 times I minute or not palpable.
 - 8) Red throat.

Severe ARI patients must be treated in a hospital or health center because they need to be treated with special equipment such as oxygen and infusion (MOH RI, 2002).

2.3 Pre ention of ARJ

Nutrition and environmental conditions are important for the pre, ention of ARI. Some things to remember to prevent ARI are:

- a. Promote child immunity with immunization.
- Maintain personal and environmental cleanliness.
- c. Preventing children related to ARI patients.
- d. Make sure the child has good nutrition. Businesses that can be done so that the baby has good nutrition include: giving ASI until the age of two years, providing solid food according to age, providing food that contains nutrition weighing the baby regularly e ery month to the Integrated Service Post (Posyandu) and health checks (MOH RI, 2002).

2.4 Exclusi e breastfeeding

Exclusive astfeeding is that babies are only given breast milk until the age of six. onths without the addition of other liquids such as formula milk, oranges, honey, tea and water and without ter. additional food such as bananas milk porridge biscuits, rice porridge rice and team (Kristiyansari 2009).

Breast milk is the first and food for babies. Breast milk contains carbohydrates in the form of lactose. Breast milk fat contains polyunsaturated fatty acids (polyunsaturated fatty acids). The main protein is a type of lactalbumin that is easily

1 tested. Breast milk contains many vitamins and minerals. Breast milk also contains anti-infectious substances (Sidi, 2004).

Colostrum is the first fluid secreted by the breast glands from day 1 to day 3.

Colostrum is yellowish thick and somewhat sticky. Colostrum contains high levels of protein especially globulin and antibody so that it can pro : e protection to infants against infection until the age of 6 months (Kristiyansari 2009). The benefits of exclusive breastfeeding for infants are numerous including the composition and volume of breast milk sufficient for growth development until the age of 6 months. Breast milk is easy to digest because it contains high levels of nutrients needed infants aged 0 - 6 months. Breastfeeding is a means establish a loving relationship between mother and child. Exclusive breastfeeding will increase endurance so that babies are not susceptible to disease (Sidi, 2004) Infants who are exclusively breastfed will be healthier and rarely sick compared to babies who are not exclusively breastfed (MOH RI,2001). 14 day s to show the acute process.

MATERIAL AND METHOD

This research was conducted at the RSUD dr. Soekarjo 2015. This type of research used is explanatory namely explaining the research relationship between research variables and testing hypotheses that have been formulated previously (Mahfoedz et al 2005). The research design is Cross Sectional where data concerning independent variables and dependent or effect or risk variables, will be collected at the same time (Notoatmodio, 2005). Population The amount in this study were infants aged 6-12 months at the RSUD dr. Soekarjo 2015 as many as 106 babies. Respondents are from the respondents sample. Determination of the sample simple random sampling (simple random sampling) ie population has the same opportunity to be used as a research sample 2006). Primary (Sugiyono collection is done by interview. Primary data consist of respondent characteristics and exclusive breastfeeding data. Respondent characteristics include age, education and occupation. Secondary data were taken from medical records ofRSUD dr.

Soekarjo 2015, the ISPA incident

data. The analysis of this study uses a simple logistic regression statistical test to determine the effect of one independent ariable on one dependent variable than has a nominal scale with two categories (Sabri L and Priyo S. 2008).

RESULTS

Characteristics of Respondents Age

The age of respondents is mostly in the age group 21-35 years that is 87 respondents (82.1 %) and at least aged> 35 years are 5 respondents (4. 7%). The most age included in the group of healthy reproductive age means a good time for a woman to conceive and give birth. At the age of 20-35 years a woman can still raise and care for children to the maximum. Women who give birth at a healthy reproductive age are expected to still to breastfeed their be able babies optimally. (see table I). Education Most respondents' education completed junior high I MTs by 42 respondents (39.6%) and at least not graduated from elementary school b) 3 respondents (2. 8%). Some people in the Wedarijaksa. Community Health Center in Pati Regency have fulfiUed the 9-year education program, but health awareness is still lacking. Education alone is not enough to improve healthy living behvior including exclusive breastfeeding, but it still needs to be supported by other factors namely the

and motivation of know ledge respondents ingiing exclusive breastfeeding to their babies (see table 1). Occupation Most respondents did not work as many as 74 respondents (69.8%) end at least worked as many as 4 respondents farmers (3.8%). Most respondents do not work because they take care of household needs and prepare e evrything for their children and husband at home. Who did not work mostly did not give exclusive breastfeeding to their babies because in the first 3 days after gi ing birth breastfeeding did not come out adequately. Therefore some of them give formula milk, but after milk comes out they give only breast milk (see table 1).

Exclusive breastfeedig Most did not give exclusive respondents breastfeeding to their babies, namely 85 respondents (89.2%) and only 21 respondents (19.8%) in the Wedarijaksa II Puskesmas Work Area in Pati District_ ere given exclusive breastfeeding (see table 1). Previous research conducted by Utomo (2008) in Kesambi Village, Mejobo Subdistrict, Kudus Regency revealed that as many as exclusively breastfed babies 17.9%. The benefits of giving a very large exclusive breastfeeding has not motivated many mothers to give exclusive breastfeeding to their babies Some reasons that cause mothers not to give exclusive breastfeeding to their

babies include assume that breast milk is inadequate, mothers work outside the home assume formuua milk is better and more practical than breast milk as well as fears the body of the mother becoming fat (Sulistiyoningsih 2011). ARI event ARI event The results showed that as many as 55 babies (55.7%) had ever had ARI. Infants who ha e been exposed to ARI are greater than those who ha e never had ARI (see table 1). This figure according WHO estimates (2003) which states as many as 40% -60% of the number of visits at the health center is ISPA diseas (http://vfl klinik**GJ**o.id).

Characteristics of respondents in the Working Area of Wedarijaksa II Health Center Pati Pati in 2009, can be seen in full in table 1. Occurrence of ARI and Exclusive Breastfeeding

The results showed that infants with exclusive breastfeeding who Were exposed to ARI were 14 infants (66. 7%) while those who were not exposed to ARI were 7 infants (33.3%). In the group of infants without exclusive breastfeeding who Were exposed to ARI as many as 52 babies (61.2%) while those , ho were not exposed to ARI were 33 infants (38.8%). Exclusive breastfeeding

DISCUSSION

Statistical test results, is simple lotic regression showed that there was an

effect of exclusive breastfeeding with the incidence of ARJ in infants in the workin area of Pati District Wedarijaksa II Public Health Center (p alue = 0.025) hile the pre alence ratio of 0 317 means that infants who were not exclusively eastfed had a risk chance of 32% occur ARI compared to

babies who get exlusive breastfeeding. The results of this study are in accordance with t them) that breast milk is needed for baby's health. Breast milk is the best food for babies. Breast milk is nee for baby's health and optimally supports the groi th and development of the baby. The baby who is exclusively breastfed v ill get aH the excess milk and his nutritional needs are maximally fulfilled so that he v m be healthier more resistant to infections, not susceptible to allergies and less sick ulistiyoningsih, 2011). The results of this study are the same as the results of a fonducted by Ariefudin et al (2009) about the relationship of exclusive breastfeeding to the incidence of acute respiratory infections (ISPA) in infants. months in Posyandu Tegal Timur Subdistrict, Tegal City, which shows a significant relationship between exclusive breastfeeding for the incidence acute respiratory infections in infants 0-12months

p value = 0.000 (p < 0.05).

CONCLUSION

Infants in the RAB RSU dr Soekardjo Kota Tasikmalaya who received exlusive breastfeeding were 19.8%. There is an e breeding on the effect of exclusi incidence of ARI in infants in the Working Area of Wedarijaksa II Pati Regency (p value= Puskesmas 0.025; pre alence ratio 0.317 counseling about always to give exclusive breastfeeding and its benefits to mothers especially during pregnancy and after delivery.

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