

The Effect Of Giving *Virgin Coconut Oil (Vco)* On Diaper Rash In Babies At Uptd Puskesmas Sindang Jaya, Tangerang District, 2023

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ABSTRACT

Background: Diaper rash is a rash that causes inflammation in the affected area by diaper that is That thigh , butt And area anus, cause candida infection . This disease is a common skin disease in babies and children when diapers are always wet and rarely changed. To determine the effect of giving *Virgin Coconut Oil (VCO)* on diaper rash.

Method: This research uses quantitative research methods using a pre-experimental method with a One Group Pretest-posttest approach, One Group approach. The population in this study was all mothers with babies who were willing to be respondents at the UPTD Sindang Jaya Community Health Center, totaling 32 people. **Results :** Based on paired sample test results , it is known that the mean before And after in give treatment is 0.281 with mark standard deviation ,457. found _ mark t count 3,483 so mark outside the reception area Ho is rejected and Ha is accepted. From the results of the *Paired Simple T-Test*, values were also obtained significance that is ,002 (<0.05). Matter This show There is difference rash diaper before and after given *Virginia Coconuts Oil (VCO)*. It means There is influence *Virginia Coconuts Oil (VCO)* against rashes diaper.

Conclusion: This research shows that there is a good effect of giving *Virgin Coconut Oil (VCO)* to babies who experience diaper rash.

Keywords: Baby, Diaper Rash, Oil coconut pure.

1. INTRODUCTION

Based on data from the World Health Organization (WHO) in 2012, the prevalence of irritated skin (rashes) in babies is quite high, namely 25% of 6,840,507,000 . Babies born all over the world suffer from skin irritation due to wearing diapers. The highest numbers were found at the age of 6-12 months.(Tri Irfanti et al., n.d.)

In the United States there are approximately one million outpatient visits by infants and children with diaper rash every year. Research in England found that 25% of 12,000 babies aged 1 month (4 weeks) experienced rashes diaper. The areas affected are usually the genital area, thigh creases and buttocks(297-Article Text-528-2-10-20201224 (2), n.d.)

In Indonesia, according to statistics from the Pediatric Dermatology Division, Children's Skin Polyclinic, Cipto Mangunkusumo Hospital, Jakarta in 2005-2009, one in three babies or toddlers experienced diaper rash. The incidence of diaper rash reaches 7-35%, affecting boys and girls ,The incidence of diaper rash in the Perinatology Special Services Unit (UPK) at the referral hospital in Jakarta reached 26.3%, with mild diaper rash 10.5%, moderate diaper rash 6.3% and diaper rash in treated BBL ≥ 8 days will die 4 times higher than BBL treated < 8 days. UPK Perinatology Referral Hospital in Jakarta is a special service unit that provides health services to neonates, especially those at high risk. Data obtained from the Sindang Jaya Public Health Center, Tangerang Regency, showed that 32 mothers had babies who used diapers and had diaper rash.(Ilmiah Keperawatan Orthopedi et al., 2019)

Diaper rash is a skin problem in babies which is characterized by the appearance of red spots on the skin. Baby's skin is still sensitive because its function is still developing, especially at the level of the epidermis or outermost layer of skin. This part provides natural skin protection against the environment.

Disposable diapers can cause allergies in babies because they contain certain chemicals that cause skin disorders. The most common skin disorder in babies is diaper rash. Diaper rash on baby's skin is characterized by a red rash on the baby's skin covered by the diaper. Most diaper rash occurs on the buttocks or waist. Diaper rash will get worse if there is friction between the baby's skin and the diaper.

Diaper rash is a rash that causes inflammation in the areas affected by diapers, namely the thighs, buttocks and anal area, causing candida infection. This disease is a common skin disease that occurs in babies and children when diapers are always wet and rarely changed. Diaper rash most often occurs in babies with itching, discomfort, causing changes in sleep patterns, causing concern for parents. Altered and inefficient sleep puts brain metabolism at its peak, affecting a child's emotional and cognitive recovery. Non-pharmacological management is an alternative that can be offered to parents for the treatment of diaper rash in babies.(Kampus et al., 2022)

2. METHODS

In this research, researchers used quantitative research methods using pre-experimental methods with a One Group Pretest-Posttest, Population approach Which in use in study This is all Mother Which have baby samples taken from the population itself amount to 32 sample, the test results used by the researcher *paired sample T test* obtained a calculated t value of 3.483 , so the value outside the reception area Ho was rejected and Ha was accepted. From the results of the *Paired Simple T-Test*, a *significance value* was also obtained, namely .002 (<0.05). So that Ho was rejected and Ha was accept

3. RESULT

Table 1. Degree of Diaper Rash Before Given *Virgin Coconut Oil (VCO)*

Degree of Rash	Frequency n	Percentage %
Mild redness	11	34.4
Moderate Redness Without Existence	17	53.1
Spots Accompanied by Blisters Severe redness accompanied by festering pustules	4	12.5
Amount	32	100

Source: *Primary Data, 2023*

The research results can be seen in the table that the percentage of rash degree before being given VCO was 17 respondents (53.1%) who experienced moderate rash and 11 respondents (34.4%) who experienced mild rash . as many as 4 respondents (12.5%)

Table 2 Degree of Diaper Rash After Giving *Virgin Coconut Oil* (VCO)

Degree of Rash	Frequency N	Percentage %
No Diaper Rash	7	21.9
Mild redness	6	18.8
Moderate Redness Without Spots Accompanied by Blisters	15	46.9
Severe redness accompanied by festering pustules	4	12.5
Amount	32	100

Source: *Primary Data, 2023*

Percentage of the degree of rash after being given VCO, some respondents who experienced a moderate degree of rash were 15 respondents (46.9%) and those who did not experience a degree of rash were 7 respondents (21.9%) and those who experienced a mild degree of rash were 6 respondents (18.8%). % and 4 respondents (12.5%) experienced severe rashes

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Paired Sample Test Results: The Effect of *Virgin Coconut Oil* (VCO) on Diaper Rash in Babies**

	Mean	Std. Deviation	Q	df	Sig. (2-tailed)
Pair 1 Before being given VCO - After being given VCO,	.281	.457	3.483	31	.002

Based on table 4.2, it is known that the mean before and after treatment is .281 with a standard deviation value of .457. In the *paired sample T test results*, the calculated t value was 3.483, so the value outside the acceptance area Ho was rejected and Ha was accepted. From the results of the *Paired Simple T-Test*, a significance value was also obtained, namely .002 (<0.05). So Ho is rejected and Ha is accepted. This shows that there is a difference in diaper rash before and after being given *Virgin Coconut Oil* (VCO). This means that *Virgin Coconut Oil* (VCO) has an effect on diaper rash.

4. DISCUSSION

Diaper rash before giving virgin coconut oil to determine the degree of rash

Based on data obtained by researchers using interview techniques with the baby's parents and observation, in Sindang Jaya the results of research on the degree of rash before being given VCO showed that the percentage of respondents who experienced a moderate degree of rash was 17 respondents (53.1%) and those who experienced a degree of rash 11 respondents (34.4%) experienced mild rash and 4 respondents (12.5%) experienced a severe rash.

This is in line with research conducted by Which show that part big respondents Which 5 people (45.5%) of the 11 respondents experienced diaper rash after being given VCO with mild results, and conversely 6 people experienced diaper rash before being given VCO with moderate results. (54.5%).

Based on results observation, respondents more Lots experience rash medium and light diapers. From the results of observations, researchers concluded that there is a problem with why diaper rash occurs in babies, the mother's lack of knowledge about the causes of diaper rash, the tendency to make mistakes in using the wrong diaper can disrupt the health of the baby's skin. Wrong use of diapers that exceed capacity diaper, No clean butt And tool genitalia after BAK or Defecate before putting on a new diaper, wearing diapers frequently and tightly so that air doesn't enter makes the skin moist and this situation makes it easier for bacteria to grow and cause rashes diapers (Sari, et al.2022)

Diaper rash after being given virgin coconut oil on the degree of rash

Based on data obtained by researchers using interview techniques with the baby's parents and observation, in Sindang Jaya the results of research on the degree of rash after being given

VCO showed that the percentage of respondents who experienced a moderate degree of rash was 15 respondents (46.9%) and those who did not experience a degree of rash. 7 respondents (21.9%) had a rash and 6 respondents (18.8%) experienced a mild rash and 4 respondents (12.5%) experienced a severe rash.(Putri et al., n.d.)

Based on the results of observations of diaper rash in babies, the majority experienced a decrease in the degree of diaper rash after being given *Virgin Coconut Oil*. The mother gives *Virgin Coconut Oil* after bathing, after the baby's body is dry, especially the buttocks, stomach, thighs and genitals, then the mother applies *Virgin Coconut Oil* to the area that has diaper rash. However, not all mothers immediately change their baby's diaper when the baby's diaper is full of urine and feces. Mother still allows it diaper baby a number of minute before replace diaper Which new. Some mothers also use antiseptic soap to reduce the occurrence of diaper rash in babies. It is proven that the majority of babies who experience diaper rash experience a decrease bunch And symptom rash diaper after given *Virginia Coconuts Oil*. Giving *Virgin Coconut Oil* to babies is done after the baby has finished bathing and after the part of the body where diaper rash occurs dry(Sari et al., 2022)

This is in accordance with research conducted where the average diaper rash before being given *Virgin Coconut Oil* showed a score of 8.64 (SD=3.95) with the lowest score being 2 and the highest being. The diaper rash score after being given *Virgin Coconut Oil* increased, this can be seen from the diaper rash score which changed to 2.36% from before. 8.64%. From results study show that happen decline after giving *Virgin Coconut Oil*, this means that there is an effect of giving *Virgin Coconut Oil* on diaper rash baby.

Virginia Coconuts Oil can used For maintenance skin Because Also have The antiaging effect of *Virgin Coconut Oil* is made using low heating techniques high so content vitamin E And enzyme enzyme Which there is inside it No damaged(Simon Matakena & Sylfia Sairdama, 2022) If used correctly and regularly, it will help remove dead skin cells and replace them with new skin cells(Sriwijaya et al., 2015)

The Effect of Giving *Virgin Coconut Oil* on Diaper Rash in Babies

In accordance with research conducted by Hj, Faizah (2018) , olive oil was administered to

the degree of diaper rash. The intervention carried out in this study was the administration of olive oil twice a day in the morning and evening for 3 days. showed that there was an effect of reducing the degree of diaper rash with the values obtained ($P = .035 < 0.05$) skin is thin, these babies are more susceptible to irritation, allergies and algae. One of the most common skin problems in babies is diaper rash. Diaper acne is inflammation or infection of the skin in the diaper rash area, such as the thighs and buttocks . Diaper rash is an inflammatory skin disease that occurs in babies in swaddled areas. Especially around the stomach, genitals , groin and buttocks. Factors that play a role in causing diaper rash are: wet skin from urine and feces, constantly dirty diapers, blocked or wrapped conditions. In his research Average size rash diaper before use VCO average 3cm, with point Lowest 2cm and the highest 10 cm. (Sadinah et al, n.d)

5. CONCLUSION

There were 17 babies who experienced grade 2 diaper rash before giving *Virgin Coconuts Oil* (VCO) with big percentage 53.1% , characteristics condition The degree of diaper rash after giving *Virgin Coconut Oil* (VCO) from 32 (100%) respondents, there were 15 babies who experienced grade 2 diaper rash with a percentage of 46.9%. There was an effect of giving *Virgin Coconut Oil* (VCO) on diaper rash in babies at the Sindang Jaya Community Health Center, Tangerang Regency with a *P value* (0.02).

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