

The Effect of Giving Lime Soy Sauce on Reducing the Intensity of Non-Pneumonia Coughs in Pre-School Children at PMB Anik Susilawati Sidodadi Gedangan Malang

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ABSTRACT

The population in this study were all pre-school children with coughs not pneumonia who were examined at PMB Atik Susilawati during April - May 2023 in Sidodadi village, Gedangan, Malang. Results: Wilcoxon Signed Test analysis obtained a Sym Sig 2 value 0.000 <0.05 in meaning that $P < 0.05$, so the hypothesis (H_a) in this study is accepted where it exists. Conclusion: there is a significant effect between before and after the treatment of giving lime soy sauce to pre-school children.

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1. INTRODUCTION

One of the diseases that most often gives cough symptoms is Acute Respiratory Infection. Acute Respiratory Infection is also often on the list of the 10 most common illnesses in hospitals. Acute Respiratory Infection is one of the infectious diseases that often occurs and is susceptible to children. To relieve coughs in toddlers, apart from chemical medicines, parents are now also switching to using ingredients available directly from nature, as one example is lime. To relieve coughs in toddlers, apart from using chemical medicines, parents are now also switching to using ingredients that are available directly from nature, for example lime.

2. METHOD

The scope of this research covers the fields of pharmacology and dermatology. The location of this research will be at SMA Negeri 2 Bayang Pesisir Selatan. The time of the study was carried out in April 2021. This type of research used an experimental study with a pre-test and post-test control group design. The sampling method used in this research is stratified random sampling. The sample required in this study is 20 samples.

3. RESULTS AND DISCUSSION

Based on the results of research and discussion regarding the effect of giving lime soy sauce on non-pneumonia coughs in pre-school children, it can be concluded as follows:

1. Respondents consisted of respondents aged 2 - 4 years, namely 18 respondents (55%), 9 respondents (27%) aged 0 - 2 years, 6 respondents (18%).

Table 1. Frequency Distribution of Respondent Characteristics Based on Age

Karakteristik	F	Prosentase (%)
Usia (bulan)		
0 - 2	9	27
2 - 4	18	55
4 - ≤6	6	18
Total	33	100

2. Before being given lime soy sauce treatment, 21 respondents (63%) had the criteria for frequent coughs, 9 respondents (10%) had the criteria Rarely and 3 respondents (10%) had the criteria always

Table 2. Frequency of cough intensity values before treatment

Kriteria	Frekuensi (F)	Presentase (%)
Selalu	3	10
Sering	21	63
Jarang	9	27
Tidak	0	0
Total	33	100

3. After being given lime soy sauce treatment, there were 22 respondents (67%) who had the criteria for frequent coughs, 9 respondents (27%) had the criteria not, 3 respondents (10%) had the criteria often and 3 respondents (10%) had the criteria always.

Table 3. Frequency of cough intensity values after treatment

Kriteria	Frekuensi (F)	Presentase (%)
Selalu	1	3
Sering	1	3
Jarang	22	67
Tidak	9	27
Total	33	100

4. Giving lime soy sauce has an effect on non-pneumonia coughs in pre-school children at PMB Anik Susilowati Sidodadi Gendengan Malang with the Wilcoxon Sign Rank test results with a value of $\text{asympt.sig.}(2\text{-tailed}) = 0.000$ which is less than >0.05 .

Table 4. Wilcoxon Signed Ranks Test Analysis Results

<i>Test Statistics^a</i>	
<i>Post test – Pre test</i>	
<i>Z</i>	<i>-5.019^b</i>
<i>Asymp.Sig.(2-tailed)</i>	<i>.000</i>

a. Wilcoxon Signed Ranks Test

b. Based on negative rangks

4. CONCLUSION

Giving lime soy sauce has an effect on non-pneumonia coughs in pre-school children at PMB Anik Susilowati Sidodadi Gendengan Malang with the Wilcoxon Sign Rank test results with a value of $\text{asympt.sig.}(2\text{-tailed}) = 0.000$ which is less than >0.05 .

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