



**Strawberry Drink Type Giving Effect Pass Through Additional Meals To The Nutrient Status Diarrhea And Acute Respiratory Infection Stunted Children In Kenagarian (Area) Of Muaro Pati Kapur IX Subdistrict**

**Rince Alfia Fadri, Salvia, SriKembaryanti Putri, Linda Gusrini Fadri**  
**Agricultural Polytechnic State Of Payakumbuh**  
**Email: rince.alfia@yahoo.co.id**

**INTRODUCTION**

The High Number Of Stunted Children (Around 25% To 45%) Is About Nutrient Problem In Indonesia And Diarrhea Tragedy Also Acute Respiratory Infection. It Had Been Done A Research To Analyze The Effect Of Strawberry Drink Type Giving As Functional Drinking Water To The Children Of Aged 1 - 5 Years Old In Kenagarian (Area) Muaro Pati, Kapur IX Subdistrict.

The Purpose Of This Research Was To Analyze Strawberry Drink Type To The Nutrient Status, Diarrhea Tragedy And Also Acute Respiratory Infection To The Stunted Children.

**METHODE**

An Experiment Research Had Done For 120 Days By Pre-Post Test Research Of 90 Stunted Children Divided To A Group Of Treatment And Control Group. The Weight Measured By Digital Scale With 0,01g Accuracy And The Height Measured By Microtoise With 0,1 Cm Accuracy. Meal Intake Using 2x24 Hours Of Recall System. Recall Done At The Beginning, Middle And At The End Of Research. Acute Respiratory Infection And Diarrhea Tragedy To Be Asked Every Day. The mean intake of strawberry drink type reached 150 ml / day containing  $1,6 \times 10^9$  CFU BAL / g. Energy and protein intake were above 100%. There was significant increase z-score H/A in experiment group ( $p=0,000$ ) at the end of study, which did not in control group ( $p>0,05$ ). However, there was a significant decreased in z-score W/H in the experiment group ( $p=0,000$ ) which did not in control group ( $p>0,05$ ). The Data Analyzed Using Shapiro-Wilk, Pairing-Test And Anova.

**RESULT**

The Result Described The Descent Of Diarrhea And Acute Respiratory Infection Tragedy To The Both Of Group That More Stand Out To The Experiment Group. Adding Strawberry Drink Type To The Additional Meals To Increase Linear Growth And Descent Diarrhea Also Acute Respiratory Infection Tragedy To The Stunted Children At The Aged Of 1 - 4 Years Old. It Is A Good Decision Strawberry Drink Type Presented As Additional Meals For Children Every Day

**Table 1. Respondent Characteristics**

Parameter	Average of treatment group	Average of control group	P value
Age (years)	36,4 ± 3,81	36,8 ± 3,68	0,231
Height (cm)	85,46 ± 5,71	85,2 ± 6,04	0,888
The percentage of children with diarrhea	15,3 ± 10,81	16,3 ± 10,31	0,850
Percentage of children with acute respiratory infection	10,0 ± 10	10,0 ± 10	0,850
Energy consumption (kcal)	823,7 ± 410,4	812,3 ± 410,2	0,94
Protein consumption (g)	45,6 ± 5,88	46,8 ± 6,78	0,851
Weight (kg)	12,1 ± 1	12,1 ± 1	0,777

**Table 2. The value of total energy consumption percentage and total protein consumption percentage, group of treatment and group of control according to measuring time and group of research**

Variable	Group	Initial average	Final average	P value
Total Energy consumption (%)	Treatment group	102,1 ± 23,48	118,5 ± 21,48	0,000 ***
	Control group	112,4 ± 21,81	119,2 ± 21,4	0,238 ***
	P value	0,000	0,000	
Total Protein consumption (%)	Treatment group	112,3 ± 21,81	120,1 ± 26,11	0,000 ***
	Control group	112,1 ± 21,81	117,8 ± 22,81	0,362
	P value	1,327	1,361	

**Table 3. Score experiment of Score Z of Height/Agn and Weight/Height group of treatment and Group of Control of children aged 1- 4 years according to measuring time**

Variable	Group	Initial average	Final Average of research	P value
Score Z Height/Agn	Treatment	-2,213 ± 0,57	1,471 ± 0,55	0,000 ***
	Control	-2,212 ± 0,48	-2,291 ± 0,48	0,484
	P value	0,000	0,000	
Score Z Weight/Height	Treatment	-0,181 ± 0,93	-0,797 ± 0,83	0,000 ***
	Control	-0,2054 ± 1,20	-0,212 ± 0,97	0,362
	P value	0,755	0,021	

**Table 4. Variable (?) Experiment Changing Average at the end of research between the group of treatment and the group of control**

Parameter	Treatment group	Control Group	P value
Total Energy Consumption (kcal)	13,1 ± 27,12	24,1 ± 24,76	4,210
Total Protein Consumption (g)	23,9 ± 45,42	3,3 ± 33,97	0,048 **
Energy Intake (kcal)	0,7 ± 0,72	1,00 ± 0,74	0,242
Change in Weight	0,78 ± 1,03	1,30 ± 1,03	0,897
Score Z Height/Agn	0,7 ± 0,27	0,33 ± 0,28	0,002 **
Score Z Weight/Height	3,6 ± 0,42	0,36 ± 0,69	0,000 **



*Handwritten signature*