

# Mapping Community Potential in Stunting Prevention in Sumberputih Village

## ABSTRACT

**Purpose:** This study aims to map stunting prevention behavior in the Sumberputih Village community, Malang Regency.

**Methods:** This research was conducted in Sumberputih Village, Wajak District, Malang Regency, East Java, with 3 lecturers and 5 students from the implementation team. With this activity, it is hoped that the community can prevent and increase knowledge about stunting in Sumberputih Village. This study uses cluster analysis for mapping community in preventing stunting.

**Results:** The number of clusters in the Bringin Village community grouping is divided into two parts, that are people care enough about stunting prevention and people that care less about stunting prevention. The sample in this study was determined using purposive sampling with used is 75 respondents, of which there are 47 people who are members of cluster 1 (people care about stunting prevention) and there are 28 people who are included in cluster 2 (people who don't care about stunting prevention).

**Originality:** The novelty of this research is the mapping of stunting prevention behavior in the Sumberputih village community, Malang Regency.

*Keywords Cluster analysis, Descriptive Analysis, Stunting, Mapping*

## 1. INTRODUCTION

Currently, Indonesia occupies the fourth position as the country with the most population in the world. Referring to Statistics Indonesia [1]. Indonesia's population in 2020 will reach more than 270 million. The population in Indonesia will also continue to grow, with the birth rate in 2020 still at 2.10 [1]. Unfortunately, the stunting rate of children in Indonesia is still very high. In 2019, the stunting rate in Indonesia was still 27.67%. WHO as the World Health Organization under the auspices of the United Nations (UN) sets a stunting rate of no more than 20.00%, which shows that the stunting rate of children in Indonesia is still much higher than the target set [2]. In addition, World Bank data shows that 54% of the current workforce in Indonesia are stunting survivors. Based on this description, the high stunting rate in Indonesia needs serious attention because it can interfere with the potential of Indonesian human resources in the future. Moreover, with the current era of globalization, Indonesian human resources must be of high quality so that they can compete globally.

Stunting is a growth disorder that is often experienced by children. There are several causes of stunting in toddlers according to the WHO framework published in 2013. The main factors that cause growth disorders are maternal factors and the environment around the house. Based on the United Nations Children's Fund (UNICEF) report, the problem of stunting in Indonesia reaches 7.8 million children. Therefore, UNICEF positions Indonesia in the top five countries with a high number of child stunting sufferers. The Indonesian government has also shown its seriousness by making various efforts to address the stunting problem in Indonesia. To help deal with this problem, contributions from various aspects are needed

37 which require the effective deployment of three resources, namely economic (monetary),  
38 physical (material) and human (social) [3]. However, the lack of awareness of parents,  
39 especially mothers, is a big obstacle in solving the stunting problem in Indonesia. In this  
40 regard, the urgency of this dedication is based on the lack of parental awareness of the  
41 stunting problem.

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43 Based on the background that's been mentioned, the research aims to map the stunting  
44 prevention behavior of the Sumberputih village community. Mapping is useful for dividing the  
45 community into people who care and do not care about stunting prevention behavior. People  
46 who don't care about stunting prevention are expected to get more attention from the local  
47 government.

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## 49 **2. LITERATURE REVIEW**

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51 There are several factors that cause stunting that the people of Sumberputih Village must  
52 have, namely:

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### 54 **2.1 Attitude**

55 Attitude is a person's personality that can influence the choice and action of something.  
56 According to Elisa [4], attitudes are actions and behaviors that are determined by one  
57 element of the personality towards an object with good or bad feelings. Individual  
58 perceptions of the attitude object will be influenced by two factors, namely internal factors or  
59 individual factors and external factors or outside factors. Internal factors are physiological  
60 and psychological while external factors can be in the form of experience, knowledge,  
61 teaching and learning process situations faced by individuals, norms that exist in society,  
62 obstacles or drivers in society. The attitude of parents, especially mothers, is very important  
63 in fulfilling children's nutrition because children need parental attention and support in facing  
64 very rapid growth and development.

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### 66 **2.2 Subjective Norms**

67 According to Wedayanti & Giantari [5], subjective norms are a person's beliefs about the  
68 approval of others for an action. The other person is called a referent, and can be a parent,  
69 friend, or someone who is considered important to someone. This is to support the creation  
70 of a harmonious, balanced, and harmonious understanding of local values, norms and  
71 culture [6]. Subjective norms generally have the following two components:

#### 72 **A) Normative Beliefs**

73 Perceptions or beliefs about other people's expectations of themselves that become a  
74 reference for displaying behavior or not. Beliefs related to the opinion of a character or  
75 other person who is important and influential for the individual or the role model whether  
76 the subject should or should not perform a certain behavior [7].

#### 77 **B) Motivation to comply**

78 Individual motivation to meet these expectations. Subjective norms can be seen as  
79 dynamics between the impulses perceived by individuals from the people around them  
80 and the motivation to follow their views (motivation to comply) in doing or not doing the  
81 behavior.

82 Overall, subjective norms can describe normative beliefs and individual motivations to  
83 comply with them. Subjective norms in parents can be influenced by the presence of social  
84 support from peers or health workers. The provision of information by health workers in  
85 services can change the subjective norms of pregnant women which in turn can affect  
86 intentions.

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### 88 **2.3 Behavior Control**

89 Dikria & Mintarti [8], Self-control is a careful and intelligent attitude in managing life, balance  
90 and controlled policies, and the goal is to balance emotions, not suppress emotions,  
91 because every feeling has value and meaning. According to Calhoun & Acocella [9], there  
92 are three aspects of self-control, namely as follows:

93 A) Behavior Control

94 It is a person's readiness or ability to modify an unpleasant condition. The ability to  
95 control behavior in this case is the ability to determine who is in control of the situation,  
96 himself, others, or something outside himself.

97 B) Cognitive Control

98 The individual's ability to manage unwanted information by interpreting, assessing, or  
99 integrating an event in a cognitive framework as a psychological adaptation or to reduce  
100 stress.

101 C) Decision Making

102 The ability to choose an action based on something believed or agreed upon. It supports  
103 organizational decision making to gather insights [10].

104 The main problem of stunting, namely the provision of low nutritional intake, can be  
105 influenced by parenting patterns from parents, one of which is inappropriate feeding  
106 behavior. From this, it can be explained that the behavior of parents, especially mothers, is a  
107 determining factor for stunting in children.

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109 **2.4 Obedient Intentions Prevent Stunting**

110 Obedience in question is related to preventing stunting. Jamin in Anisa [11] revealed that the  
111 level of adherence to preventing stunting together was better than preventing stunting  
112 independently. To get the best performance, cooperation is needed [12]. Participation from  
113 all layers of the society (government, private, NGO, and elements of society) is absolutely  
114 required [13]. The indicators used in this study are:

115 A) Tendency to Behave Obediently Pay

116 B) The Decision to Obey Pay

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118 **2.5 Obedient Behavior Prevents Stunting**

119 According to Budiono [14] behavior is a reaction or human action caused by an impulse that  
120 is seen from values, habits, driving forces, motives, and restraining forces as a person's  
121 response or reaction that appears. This is due to the experience of the process of  
122 stimulation and learning from the environment. According to Sulistiyono [15] obedience is an  
123 attitude that is willing to do whatever it is based on self-awareness or coercion that causes  
124 behavior according to what is expected or not. Obedient behavior is the interaction of  
125 individual, organizational, and group behavior. Obedient behavior to prevent stunting is  
126 defined as a person's action caused by self-awareness and coercion to do so. Community  
127 compliance can be measured through:

128 A) Punctuality.

129 B) Data accuracy.

130 C) Sanction.

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132 **3. METHODOLOGY**

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134 The design of this research is explanatory research with survey [16]. This research was  
135 conducted in Sumberputih Village. The population in this study is the entire community in  
136 Sumberputih village. According to Fernandes & Rinaldo [17] and Fernandes & Taba [18] the  
137 sample in this study was determined using purposive sampling. The number of respondents  
138 in this study was 75 people who were determined using predetermined criteria [19].  
139 According to Fernandes [20] the primary data in this study were obtained using a  
140 questionnaire. Questionnaires were distributed to the public using a Likert scale with a scale  
141 of 1 to 5, where 1 indicates a statement strongly disagrees, 2 indicates a statement

142 disagrees, 3 indicates a neutral statement, 4 indicates a statement agrees and 5 indicates a  
 143 statement strongly agrees [21]. According to Fernandes [22] testing the reliability of the  
 144 instrument using the Alpha Cronbach Score. In this study the standard Cronbach alpha  
 145 value used is 0.60.

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## 147 4. RESULTS AND DISCUSSION

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### 149 4.1 Descriptive Analysis

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#### 151 4.1.1 Prosocial Behavior

152 The prosocial behavior variable was measured using three indicators. These indicators  
 153 include: social responsibility (X1.1), empathy (X1.2), moral understanding (X1.3), helping  
 154 (X1.4). This study uses a Likert scale with the following information: Strongly Disagree (SD),  
 155 Disagree (D), Neutral (N), Agree (A), Strongly Agree (SA). Descriptions of prosocial behavior  
 156 variables are presented in Table 1.

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158 **Table 1. Description of Prosocial Behavior Variables**

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Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Social Responsibility	X1.1.1	3	0	0	52	20	4.15	4.02
	X1.1.2	0	0	3	59	13	4.13	
	X1.1.3	0	0	27	38	10	3.77	
Empathy	X1.2.1	0	0	7	56	12	4.07	4.07
	X1.2.2	0	0	9	54	12	4.04	
	X1.2.3	0	0	2	63	10	4.11	
Moral Understanding	X1.3.1	0	1	6	66	2	3.92	3.94
	X1.3.2	0	1	5	65	4	3.96	
Helping	X1.4.1	0	0	7	65	3	3.95	3.97
	X1.4.2	0	1	2	68	4	4.00	
Variable Average $X_1$							4.00	

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161 Each Based on Table 1., it can be seen that the Empathy Indicator (X1.2) has an average  
 162 value of 4.07 which is in the high category, meaning that the people of Sumberputih Village  
 163 assess that Empathy in the prosocial behavior of the community is good. Empathy indicators  
 164 (X1.2) include feeling other people's feelings (X1.2.1), feeling anxious (X1.2.2), and taking  
 165 other people's points of view (X1.2.3). On the item Taking another person's point of view  
 166 (X1.2.3) has an average item value of 4.11 (high category), the majority of respondents  
 167 chose the answer Agree (A) as many as 63 respondents and Strongly Agree (SA) as many  
 168 as 10 respondents.

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#### 170 4.1.2 Subjective Norm

171 Subjective Norm variables were measured using three indicators. These indicators include:  
 172 The role of family confidence (X2.1), Confidence in an effort to consider important things  
 173 (X2.2), and Trust in the support of friends (X2.3). The description of the Subjective Norm  
 174 variable is presented in Table 2.

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176 **Table 2. Description of Subjective Norm Variables**

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Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators

The role of family confidence	X2.1.1	0	0	14	53	8	3.92	3.81
	X2.1.2	0	2	19	54	0	3.69	
Confidence in an effort to consider important things	X2.2.1	0	2	24	46	3	3.67	3.70
	X2.2.2	0	1	22	48	4	3.73	
Trust in the support of friends	X2.3.1	0	0	30	44	1	3.61	3.53
	X2.3.2	0	9	25	40	1	3.44	
Variable average								3.68

178 Based on Table 2., it can be seen that the Family Confidence Role Indicator (X2.1) has an  
179 average value of 3.81 in the high category, meaning that the Sumberputih Village community  
180 considers that the role of family confidence in the subjective norm of society is good. Role  
181 indicators of family confidence (X2.1) include parental trust (X2.1.1) and interaction with  
182 family (X2.1.2). On the item Trust parents (X2.1.1) has an average item value of 3.92 (high  
183 category), the majority of respondents chose the answer Agree (A) as many as 53  
184 respondents and Strongly Agree (SA) as many as 8 respondents.

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#### 4.1.3 Behavior Control

187 Behavioral Control Variables are measured using three indicators. These indicators include:  
188 Character or personality traits (X3.1), Role behavior tendencies (X3.2), Behavioral  
189 tendencies in Social Relations (X3.3), and Expressive behavior tendencies (X3.4). The  
190 description of Behavior Control variables is presented in Table 3.

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**Table 3. Description of Behavioral Control Variables**

Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Character or personality traits	X3.1.1	0	0	18	57	0	3.76	3.56
	X3.1.2	1	5	35	34	0	3.36	
Role behavior tendencies	X3.2.1	0	0	10	62	3	3.91	3.85
	X3.2.2	1	0	16	55	3	3.79	
Behavioral tendencies in social relations	X3.3.1	1	4	7	59	4	3.81	3.92
	X3.3.2	1	0	5	66	3	3.93	
	X3.3.3	0	0	2	69	4	4.03	
Expressive behavior tendencies	X3.4.1	0	4	21	47	3	3.65	3.50
	X3.4.2	0	3	22	49	1	3.64	
	X3.4.3	3	12	29	29	2	3.20	
Average							3.71	

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Based on Table 3., it can be seen that the Indicator of Behavioral Tendency in Social  
Relations (X3.3) has an average value of 3.92 in the high category, meaning that the people  
of Sumberputih Village assess that the Behavioral Tendency in Social Relations in  
controlling community behavior is good. Indicators of Behavioral Tendency in Social  
Relations (X3.3) include being accepted or rejected by others (X3.3.1), Sociable and not  
sociable (X3.3.2) and Sympathetic and unsympathetic (X3.3.3). Sympathetic and  
unsympathetic items (X3.3.3) have an average item value of 4.03 (high category), the  
majority of respondents chose the answer Agree (A) as many as 69 respondents and  
Strongly Agree (SA) as many as 4 respondents.

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**4.1.4 Convenience**

The convenience variable is measured using three indicators. These indicators include: Easyness (X4.1), Easy to Learn (X4.2), and Overall Easiness (X4.3). The description of the Subjective Norm variable is presented in Table 4.

**Table 4. Description of Convenience Variables**

Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Easyness	X4.1.1	0	1	12	60	2	3.84	3.92
	X4.1.2	0	0	7	63	5	3.97	
	X4.1.3	0	0	11	57	7	3.95	
Easy to Learn	X4.2.1	0	3	20	47	5	3.72	3.71
	X4.2.2	0	3	18	54	0	3.68	
	X4.2.3	0	3	18	50	4	3.73	
Overall Easiness	X4.3.1	0	0	11	56	8	3.96	3.87
	X4.3.2	0	0	17	57	1	3.79	
Average							3.83	

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Based on Table 4., it can be seen that the Easyness Indicator (X4.1) has an average value of 3.92 which is in the high category, meaning that the people of Sumberputih Village consider that Easyness in the community's convenience is good. The Easyness indicator (X4.1) includes the ease of processing (X4.1.1), the ease of carrying out activities (X4.1.2), and the ease of information on activities (X4.1.3). On the item the ease of carrying out activities (X4.1.2) has an average item value of 3.97 (high category), the majority of respondents chose the answer Agree (A) as many as 63 respondents and Neutral (N) as many as 7 respondents.

**4.1.5 Usefulness**

The usefulness variable is measured using three indicators. These indicators include: Effectiveness (X5.1), Accomplish Faster (X5.2), and Useful (X5.3). The description of the usefulness variable is presented in Table 5.

**Table 5. Description of Usefulness Variables**

Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Effectiveness	X5.1.1	0	0	1	69	5	4.05	4.03
	X5.1.2	0	0	5	58	12	4.09	
	X5.1.3	0	0	7	66	2	3.93	
Accomplish Faster	X5.2.1	0	0	11	55	9	3.97	4.02
	X5.2.2	0	0	2	64	9	4.09	
Useful	X5.3.1	0	0	2	63	10	4.11	4.11

X5.3.2	0	0	0	66	9	4.12
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Average

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229 Based on Table 5., it can be seen that the Useful Indicator (X5.3) has an average value of  
 230 4.11 which is in the high category, meaning that the people of Sumberputih Village assess  
 231 that Useful community benefit is good. Useful indicators (X5.3) include ease of information  
 232 on stunting prevention (X5.3.1) and simplicity of work (X5.3.2). Item the simplicity of work  
 233 (X5.3.2) has an average item value of 4.12 (high category), the majority of respondents  
 234 chose the answer Agree (A) as many as 66 respondents and Strongly Agree (SA) as many  
 235 as 9 respondents.

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237 **4.1.6 Intention**

238 Variable Intention is measured by using three indicators. These indicators include: Loyalty  
 239 (X6.1), Willingness to use more (X6.2), and Response to problems (X6.3). The description of  
 240 the Intention variable is presented in Table 6.

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242 **Table 6. Description of Intention Variables**

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Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Loyalty	X6.1.1	0	1	13	56	5	3.87	
	X6.1.2	0	1	13	59	2	3.83	3.81
	X6.1.3	0	1	19	54	1	3.73	
Willingness to use more	X6.2.1	0	5	18	52	0	3.63	
	X6.2.2	0	1	22	49	3	3.72	3.73
	X6.2.3	0	3	8	61	3	3.85	
Response to problem	X6.3.1	0	0	21	51	3	3.76	
	X6.3.2	0	0	23	49	3	3.73	3.83
	X6.3.3	0	0	7	62	6	3.99	
Average							3,79	

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245 Based on Table 6., it can be seen that the Response to problem indicator (X6.3) has an  
 246 average value of 3.83 in the high category, meaning that the people of Sumberputih Village  
 247 assess that Response to problem in the community's intentions is good. Response to  
 248 problem indicators (X6.3) include being able to discuss system problems (X6.3.1), being  
 249 able to find a way out if there are system problems (X6.3.2), and being able to repair  
 250 problematic systems (X6.3.3). The item Able to improve the problematic system (X6.3.3) has  
 251 an average item value of 3.99 (high category), the majority of respondents chose the answer  
 252 Agree (A) as many as 62 respondents and Strongly Agree (SA) as many as 6 respondents.

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254 **4.1.7 Stunting Prevention Behavior**

255 The Stunting Prevention Behavior variable was measured using seven indicators. These  
 256 indicators include: personal experience (X7.1), influence of other people who are considered  
 257 important (X7.2), cultural influence (X7.3), mass media (X7.4), influence of emotional factors  
 258 (X7.5), educational institutions (X7.6), and religious institutions (X7.7). The description of the  
 259 Stunting Prevention Behavior variable is presented in Table 7.

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**Table 7. Description of Stunting Prevention Behavior Variables**

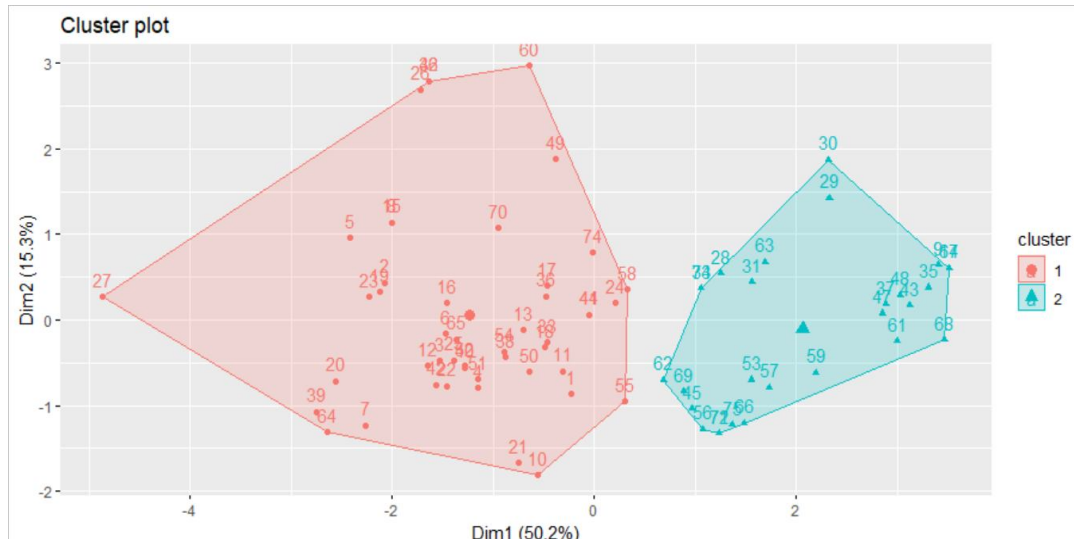
Indicators	Items	Answer Frequency					Average	
		SD	D	N	A	SA	Items	Indicators
Personal experience	X7.1.1	0	0	0	51	24	4.32	4.25
	X7.1.2	0	0	1	60	14	4.17	
Influence of other people who are considered important	X7.2.1	4	0	7	47	17	3.97	4.01
	X7.2.2	0	0	3	66	6	4.04	
Cultural influence	X7.3.1	0	1	14	57	3	3.83	3.85
	X7.3.2	0	0	11	62	2	3.88	
Mass media	X7.4.1	11	25	29	9	1	2.52	3.23
	X7.4.2	0	1	8	60	6	3.95	
Influence of emotional factors	X7.5.1	0	1	11	52	11	3.97	3.87
	X7.5.2	0	2	15	56	2	3.77	
Educational institutions	X7.6.1	0	1	30	42	2	3.60	3.64
	X7.6.2	0	1	25	46	3	3.68	
Religious institutions	X7.7.1	1	9	27	37	1	3.37	3.48
	X7.7.2	1	0	32	38	4	3.59	
Average							3.76	

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Based on Table 7., it can be seen that the Personal Experience Indicator (X7.1) has an average value of 4.25 which is in the high category, meaning that the people of Sumberputih Village consider that their personal experience in stunting prevention behavior is good. Indicators of personal experience (X7.1) include cleaning the house (X7.1.1) and eating nutritious food (X7.1.2). The item Cleaning the house (X7.1.1) has an average item value of 4.32 (high category), the majority of respondents chose the answer Agree (A) as many as 51 respondents and Strongly Agree (SA) as many as 24 respondents.

#### 4.2 Cluster Classification

Cluster analysis serves to group and classify a diverse set of objects into relatively homogeneous groups based on a certain set of variables or characteristics [23]. In this study using the Kmeans cluster. The number of clusters is determined to be 2 groups, so that the grouping is obtained as presented in Figure 1.



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**Fig. 1. Cluster Field Results**

Based on Figure 1, it can be seen that the dendrogram cluster is divided into two colors, namely red and green. This indicates that the number of clusters in grouping the Bringin Village community is divided into two parts, namely the community that is quite concerned about stunting prevention and less concerned about stunting prevention. The number of members in each cluster can be seen in Table 8.

**Table 8. Many Members of Each Cluster**

Cluster	Number of Cluster Members
1	47
2	28

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The table shows that cluster 1 is red more than cluster 2 is green. The number of members of cluster 1 is 47 members, while cluster 2 is 28 members. So, it can be concluded that from 75 respondents, there are 47 people belonging to cluster 1 (people care about stunting prevention) and 28 people belonging to cluster 2 (people who don't care about stunting prevention).

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In general, there are still around 37% of the people of Sumberputih Village who feel they are still less concerned with stunting prevention. This is supported by information that in Sumberputih village stunting is still found. In accordance with the research conducted by Satriawan [24], that if there is still a sense of lack of care from the community regarding the factors that can cause stunting, it can make the incidence of stunting in an area increase. Therefore, community empowerment programs and activities still need to be improved and developed, particularly related to stunting prevention socialization.

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## 5. CONCLUSION

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In general, there are still around 37% of the people of Sumberputih Village who feel they are still less concerned with stunting prevention. This is supported by information that in Sumberputih village stunting is still found. Therefore, community empowerment programs

310 and activities still need to be improved and developed, particularly related to stunting  
311 prevention socialization

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## 318 **COMPETING INTERESTS**

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320 Author have declared that no competing interests exist

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## 322 **CONSENT**

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324 Author declare that “written informed consent was obtained from the patient (or other  
325 approved parties) for publication of this case report and accompanying images. A copy of  
326 the written consent is available for review by the Editorial office/Chief Editor/Editorial Board  
327 members of this journal.”

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## 329 **ETHICAL APPROVAL**

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331 Author hereby declare that “all experiments have been examined and approved by the  
332 appropriate ethics committee and have therefore been performed in accordance with the  
333 ethical standards laid down in the 1964 Declaration of Helsinki.”

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