



# The Influence of Family Leadership Style in Encouraging Awareness and Action on Household Waste Management

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**Abstract:** Family leadership style has an important role in encouraging concrete action regarding household waste management. Parents or heads of households who set a good example and provide active encouragement to family members to participate in environmentally friendly waste management practices can form positive and sustainable habits in the household environment. Thus, it is hoped that this research can make a significant contribution to the role of families in encouraging concrete actions related to household waste management. This research aims to analyze the role of family leadership style in encouraging awareness and action regarding household waste management in a community in Padang City. This research uses a quantitative approach with a causal associative type of research. The sampling method used was a saturated sample, with 63 participants from the local community. The data obtained was described, then a description of the research results was carried out using the TCR technique. The determination analysis technique uses simple linear regression to test the extent of the causal influence between variable (X) on the resulting variable (Y). The research results show that the family leadership style among the community is considered very good, with the respondent's achievement level reaching 90.66%. Meanwhile, awareness and action regarding household waste management is also considered high, with the respondent's achievement level reaching 92.11%. The family leadership style variable was proven to have an influence of 28.4% on community awareness and action regarding household waste management, while the rest was influenced by other factors such as motivation, education level and other environmental factors.

**Keywords:** Environmental Awareness; Leadership Style; Waste management

## Introduction

In today's modern society, the problem of household waste is becoming increasingly urgent to resolve because its negative impact on the environment is so great. The family, as the basic unit in society, has a crucial role in forming individual awareness of waste management (Rahmayani et al., 2023). Environmental health problems caused by waste are not only felt by developed countries, but also developing countries like

Indonesia. In 2010 Indonesia's population was around 237.6 million people and environmental health problems have also become very complex, especially in big cities (Pinem, 2016).

Environmental and behavioral factors have a significant impact on people's welfare, therefore they need to receive more serious attention (Fawri & Syukur, 2022). According to Yarmaliza & Zakiyuddin (2019), healthy behavior is expected to maintain and improve health and protect individuals from potential disease.

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On the other hand, a healthy environment is expected to create supportive conditions, be free from pollution, and have optimal waste management (Armadi, 2021).

In big cities, the waste problem is becoming increasingly complex both in terms of quantity and type. The growth of population in the city causes the waste problem to increase. Handling the waste problem is not only the responsibility of the government, but also the community. Active community participation in waste management needs to continue to be increased from time to time. Apart from that, knowledge about the environment needs to be increased through education to promote public awareness of the importance of protecting the environment together. Waste management involves a series of actions to reduce, collect, move, temporarily store, process and landfill waste (Purnomo, 2021). According to Muchlis *et al.*, (2023), waste management is one of the main challenges faced by many cities. In general, waste management that is economical, has a good impact on health, and is environmentally friendly is a serious issue that must be addressed by the city government and considered by all levels of society.

Padang city is one of the cities in Indonesia that produces  $\pm 666$  tons of waste/day (Rahman & Fachri, 2023). This can happen because from year to year the population of Padang City has increased. This is because Padang City is a center of education, industry, trade and tourism. For this reason, the city government must try to ensure that the city is always clean and healthy, one of which is in waste management (Azkha, 2006; Fajar & Dewita, 2020). Waste management in Padang City involves four departments, namely the Cleaning and Parks Service, the Market Service, the Tourism Service and the Public Works Service. The capacity of the Final Disposal Site (TPA) in the city of Padang is only 8 years left to accommodate waste in the city of Padang (Pinontoan & Sumampouw, 2019).

The volume of waste that can be managed by the Department of Cleanliness & Parks (DKP) from all sub-districts reaches around 400 tons per day, which is the maximum amount that can be handled by the available facilities. Thus, around 89% of the total volume of waste produced was successfully collected and transported to the Cold Water Final Disposal Site (TPA) (Andina, 2019; Walfitra, 2022). The remaining waste that is not transported consists of waste that can still be used by the community, some of it processed traditionally, and some of it used as compost (Dongoran *et al.*, 2018).

Waste handling is indeed a very important thing to always pay attention to. Not only the waste management site, but the workforce to collect and manage waste must also always be considered. For example, the Trans Central Jakarta Manpower Department recorded 81.169

cases of injury due to waste from January to September 2003 or an average of more than 300 cases every day (Amansyah *et al.*, 2018). The increase in work accidents is partly due to unhealthy and unsafe work environment conditions (Putri & Lestari, 2023).

For waste handling, we can start from household waste. Where household waste can be managed yourself or disposed of directly at the location. This can be done if the family leader can provide correct insight into household waste management. The family leadership style in encouraging awareness and action regarding household waste management is a concept that highlights the influence of parents or the head of the household in shaping the thought patterns and behavior of family members related to waste management in the household environment (Ulfiah, 2016). Family leadership style includes the ways parents or the head of the household manage the household and interact with family members, including in terms of decision making, communication, and enforcing family norms (Shalahuddin, 2015). In this context, family leadership style can have a significant impact in forming individual awareness of the importance of household waste management.

Family leadership style also plays a role in encouraging concrete action regarding household waste management (Umar *et al.*, 2023). Parents or heads of households who set a good example and provide active encouragement to family members to participate. Environmentally friendly waste management practices can form positive and sustainable habits in the household environment (Pratomo *et al.*, 2023). Thus, it is hoped that this research can make a significant contribution to the role of the family in encouraging concrete action regarding household waste management, as well as providing insight to the community regarding the importance of an effective leadership style in dealing with waste in the family environment.

## Method

This research uses a quantitative approach and has a type of causal associative research. Causal associative research aims to explore the relationship and influence between independent variables and related variables, as well as how close the relationship is (Sugiono, 2012). The population of this research is the community in the city of Padang, a total of 63 people taken from the 2 sub-districts of Balai Gadang and Lubuk Miturun which are recorded in the community BKKBN which implements the family development program for toddlers and children. A sample, a portion of a population, is taken to be representative and allow efficient research.

In this study, samples were taken through saturated sampling, where all 63 people 33 from Balai Gadang subdistrict 30 from Lubuk Minturun subdistrict. Research data collection involves collecting primary data through surveys conducted on family leadership styles in encouraging awareness and action towards household waste management. This survey was carried out using a questionnaire specifically designed to collect information about the variables being studied. All data collected will be analyzed and analyzed using statistical regression methods to obtain results on the influence of family leadership style on household waste management. The data analysis technique in this research uses the respondent achievement level (TCR) technique which is used to analyze the data that has been collected. This technique is an assessment method by arranging people who are assessed based on their ranking. The assessment scale used is the master scale.

## Results and Discussion

### *Family Leadership Style*

Family leadership style has a significant impact on the awareness and actions of family members regarding household waste management. Family leaders, who are often parents or other dominant figures, have a key role in shaping the family's norms, values and attitudes towards the environment (Aminah, 2023). A leadership style that is oriented towards the values of sustainability and environmental responsibility tends to influence environmental awareness among family members. In

families like this, the importance of protecting the environment and reducing negative impacts on it is consistently emphasized. Family leaders can act as positive behavioral models, guiding family members in adopting responsible environmental practices, including waste management (Zubaidah, 2019; Shofiyyah et al., 2023).

The family leadership style involves active participation and open communication which contributes to better waste management at the household level (Victoruddien, 2022). In families that empower their members to participate in decision making and exchange ideas, awareness of the importance of responsible waste management practices can increase. Open discussion of environmental issues and actions that can be taken to address them can encourage the adoption of these practices throughout the family. Thus, a family leadership style that focuses on environmental values and facilitates participation and open communication has a very important role in shaping attitudes and behavior towards household waste management (Shahreza et al., 2020). Understanding the influence of family leadership style can be the basis for designing more effective environmental education interventions and programs, with the aim of creating a better environmentally sustainable household environment (Haslinah et al., 2023). Classification data on respondents' level of achievement on the family leadership style variable (X) can be seen in table 1:

**Table 1.** Respondents' Achievement Level Family Leadership Style Variable

Statement	SS	S	RG	T.S	STS	TCR	idx%	k
We are good at making decisions about waste	46	16	1	0	0	297	94.28	Very good
Our parents were able to motivate us to care about waste	36	26	1	0	0	287	91.11	Very good
Communication about waste in our family is good	26	36	1	0	0	277	87.93	Good
Our parents can control waste management practices	28	34	1	0	0	279	88.57	Good
Each family member feels responsible for the waste	39	23	1	0	0	290	92.06	Very good
Our parents often involved us in waste decisions	43	19	1	0	0	294	93.33	Very good
Our parents encourage us to actively throw away rubbish in the right place	40	22	1	0	0	291	92.38	Very good
Communication about waste in our family is open	33	29	1	0	0	284	90.15	Very good
Our parents can direct waste management practices	32	31	0	0	0	284	90.15	Very good
Each family member is responsible for the waste they throw away	38	24	1	0	0	289	91.74	Very good
Leadership at home is skilled in making decisions related to waste management	37	25	1	0	0	288	91.42	Very good

Leadership at home can inspire family members to care about the environment through waste management	36	26	1	0	0	287	91.11	Very good
Effective communication about the importance of waste management is continuously carried out in the family	29	34	0	0	0	281	89.2	Good
Leadership at home has the ability to direct waste management practices efficiently	37	25	1	0	0	288	91.42	Very good
Every family member feels they have a significant role in keeping the environment clean	38	24	1	0	0	289	91.74	Very good
Leadership at home often invites family members to practice waste management	33	29	1	0	0	284	90.15	Very good
Parents get angry if after eating we don't throw the leftovers in the trash	32	30	1	0	0	283	89.84	Good
Parents reprimanded us for the rubbish that was scattered around	31	32	0	0	0	283	89.94	Good
Our trash can is always full	33	29	1	0	0	284	90.15	Very good
We have a weekly task of taking out the trash	32	27	2	2	0	278	88.25	Good
Dad gave instructions for throwing out the trash	35	26	1	1	0	284	90.15	Very good
Feeling uncomfortable if the house is dirty	31	31	1	0	0	282	89.52	Good
Average							90.66	Very good

*Awareness and Action on Household Waste Management*

In this research, it can be seen that there is a significant influence between the level of awareness and action on household waste management among the community. These findings confirm that individuals who have a higher level of awareness of environmental issues are more active in taking concrete action to manage waste in their households (Marlina, 2020; Moridu et al., 2023). These results can underline the importance of environmental education and information in increasing public awareness about the importance of responsible waste management. It is important to state that environmental awareness does not only include understanding the importance of keeping the environment clean, it does not only include understanding the importance of keeping the environment clean, but also involves awareness of the negative impacts caused by unsustainable consumption practices (Mustofa et al., 2024). Individuals who have a high level of awareness of this tend to pay more attention to how they produce, process and dispose of waste.

Furthermore, this discussion highlights that awareness is not enough without concrete action.

Although individuals may be aware of the importance of waste management, without concrete actions such as waste segregation, waste reduction, and participation in recycling practices, waste management efforts will be difficult to realize (Firmansyah et al., 2021). Therefore, it is important to encourage not only increased awareness, but also sustainable behavioral change. Supporting factors in increasing awareness and action regarding household waste management. This includes effective environmental education and easily accessible information about good waste management practices, as well as adequate infrastructure support to facilitate these practices (Nugraha et al., 2018; Wildawati & Hasnita, 2020). Obstacles faced in increasing awareness and action on household waste management, such as financial constraints, lack of infrastructure, and inability to change consumption behavior (Sari et al., 2023). Apart from that, specific strategies and programs also need to be considered to overcome these obstacles and encourage more positive behavioral changes among the community (Tampubolon & Wahyuningtyas, 2023). Classification data on respondents' level of achievement on the awareness and action variables regarding household waste management can be seen in Table 2.



**Table 2.** Level of Achievement of Respondents Variable Awareness and Action on Household Waste Management

Statement	SS	S	RG	T.S	STS	TCR	idx%	K
I understand the importance of sorting waste regularly at home	31	32	0	0	0	283	89.84	Good
I am actively looking for information about the right way to manage waste in the household	32	28	3	0	0	281	89.2	Good
I participate in recycling programs to reduce waste in my home	43	20	0	0	0	295	93.65	Very good
I regularly use environmentally friendly products to reduce my waste footprint	38	25	0	0	0	290	92.06	Very good
I always try to reduce the use of single-use plastic in my home	43	20	0	0	0	295	93.65	Very good
I invite my family members to work together to keep the environment clean in a responsible way	39	23	1	0	0	290	92.06	Very good
I feel responsible for ensuring that the rubbish in my house is disposed of properly and in accordance with applicable regulations	45	18	0	0	0	297	94.28	Very good
Average							92.11	Very good

*Test result*

**Table 3.** Simple Linear Regression Results

Model	Sum of Squares	df	Mean Square	F	Sig.
Regression	62.88	1	62.88	24.19	000b
Residual	158.54	61	2.59		
Total	221.42	62			

In a simple linear regression test, decision making can refer to two main things. First, compare the significance value with the probability value of 0.05. If the significance value is smaller than 0.05, this indicates that variable X has a significant influence on variable Y; conversely, if the significance value is greater than 0.05, variable

Therefore, regression can be used to predict leadership style variables, or in other words, variable X has an influence on household waste management. Next, to assess how strong the influence of variable X is on variable Y, it can be seen from the percentage value of the test results obtained, as shown in the model summary.

**Table 4.** Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.533a	.284	.272	1.612

The summary model above explains the magnitude of the correlation/relationship value (R), which is 0.533. From the output obtained, the coefficient of determination (R. Square) is 0.28, which means that the influence of the independent variable (leadership skills) on the dependent variable (employee performance) is 28.4%.

**Conclusion**

Based on the results of the research and discussion carried out in the previous section, it can be concluded that the results of research regarding the influence of family leadership style in encouraging awareness and action regarding household waste management are: The family leadership style in society is classified as very good with a respondent achievement level of 90.66% , Household waste management was declared to be classified as very good with a respondent achievement level of 92.11%, and the leadership style variable provided by the family had an influence on household waste management by 28.4% and the remainder was influenced by other factors. By strengthening the role of family leadership, it is hoped that significant positive changes can occur in awareness and action regarding household waste management in the community. These steps can also help shape sustainable and environmentally conscious behavior at the individual and family level.

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**Auhor Contribution**

D. T. P: preparation of original draft, results, discussion, methodology, conclusions; N. S, I. D, E. B and M. S: analysis, review, proofreading and editing. D. T. P, N. S, I. D, E. B and M. S: All authors have read and approved the published version of the manuscript.

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**Conflicts of Interest**

The authors declare that there is no conflict of interest regarding the publication of this paper.

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