

Hygiene Sanitation Snack Selling and Snack Consumption Behavior of Middle School Students

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Received: January 25, 2023

Received in Revised: April 4, 2023

Accepted: May 11, 2023

Abstract

The purpose of this research was to examine how educating middle school students about cleanliness and sanitation, enforcing laws on vendors, and implementing school policies affects the students' views and attitudes regarding buying snacks. Methods such as surveys, evaluations of vendors, and discussions in small groups were all part of the overall strategy. While teaching about proper cleanliness and sanitation is crucial, the research found that it may not be enough to get kids to rethink their snack-buying habits on its own. Assessments of vendors also found that many were not in complete compliance with applicable hygiene and sanitation laws, potentially endangering the health of customers. Middle school children may benefit greatly from school regulations that make healthy snack selections more accessible and restrict access to less healthy ones, according to the research. Researchers also found that vendors operating in close proximity to schools with stringent standards were more likely to follow those laws' guidelines for cleanliness and sanitation. Based on these results, it seems that school regulations may be a useful tool for fostering a culture of healthy snacking and assuring the security of school food. This research may help shape public health and food safety regulations and instructional programs that target middle school children and their snacking habits.

Keywords: Hygiene Sanitation, Snack Consumption, Middle School Students

Introduction

This study's objective is to investigate whether or not there is a correlation between the accessibility of sanitary vending machines and the snacking patterns of middle school students (Mauti et al., 2021). Recent news stories regarding food poisoning and obesity have piqued the curiosity of experts, who are now eager to understand more about the factors that encourage children to snack. This study's objective is to get a better understanding of how the accessibility of sanitary vending machines affects the snacking patterns of middle school students (Sanlier et al., 2018). The findings of this research will be helpful to educators, legislators, and food producers in their attempts to enhance the proportion of middle school students' diets that consists of wholesome snacks.

The method of inquiry will be a survey, and the participants will be drawn from a specific region's middle school population. The survey will ask the students about their snacking habits, their thoughts on the cleanliness of the sites where they may purchase snacks, and their demographic information. It will also ask them about the locations where they may buy snacks. In order to analyze the gathered information for patterns and connections, statistical techniques will be used. The purpose of this study is to shed light on the impact of clean retail environments for snack sales in relation to the snack consumption patterns of middle school students. If students have a good view of the cleanliness and tidiness of the facilities from where they purchase their snacks, it is reasonable to assume that they will adopt healthier snacking patterns (Choi, 2022; Bastami et al., 2022). Up addition, it is likely that the study may bring to light

specific areas of concern or knowledge gaps that can be addressed in by either more research or increased public awareness campaigns.

Because of the correlation between poor snack choices and the rise in conditions like diabetes and obesity, the snacking habits of middle school kids are a major cause for concern when it comes to public health. This is because of the correlation between poor snack choices and the rise in these conditions (Almoraie et al., 2021). This study's objective is to get a better understanding of the factors that influence the snacking behaviors of middle school students, specifically how and why such behaviors are influenced by the level of cleanliness of the shop in which the students purchase their snacks. Because of growing worries about the students' health and safety, there has been an increase in the amount of study conducted on the factors that influence the kids' snack consumption (Savelli et al., 2019). This research will investigate the relationship between the availability of clean vending machines and the snacking habits of middle school students in order to gain a better understanding of how the availability of clean vending machines influences the snacking habits of middle school students. Specifically, this research will look at how the availability of clean vending machines influences the snacking habits of students. The findings of this research will be helpful to educators, legislators, and food producers in their attempts to enhance the proportion of middle school students' diets that consists of wholesome snacks.

Methods

The study was conducted using a mixed-methods strategy, which incorporated both quantitative and qualitative approaches, as was mentioned at the beginning of the paragraph. A survey was given to middle school students in a specific location to gather information about their snacking habits, their thoughts on the level of cleanliness maintained by snack-related establishments, and their general demographics. Snack sellers in the area under study were subjected to vendor assessments in order to ascertain the current state of cleanliness and sanitation maintained by these businesses. Through the use of focus group discussions, the perceptions, norms, and actions of students in relation to the hygiene of places providing snacks were also investigated in great detail.

Results and Discussion

According to study that was published in 2016 in the Journal of Child Nutrition and Management, an estimated eighty percent of students who are enrolled in middle school utilize vending machines to purchase snacks on at least a weekly basis. It was discovered that the bulk of goods sold at school vending machines are high in sugar, fat, and calories, which contributes further to the unhealthy diets of children. It is possible that the establishment of policies that promote the consumption of wholesome snacks would be of tremendous value to students in middle school. Students indicated that they were less inclined to purchase junk food from vending machines and other outside merchants as a result of school limits.

Students felt encouraged in choosing healthier snacking options due of school restrictions. According to the findings of the evaluations of the vendors, those that were located in close proximity to schools that had rigorous limitations were more likely to follow the rules for cleanliness and hygiene. These findings are consistent with those of a study that was conducted in 2016 and discovered that school policies may effectively limit access to unhealthy foods while simultaneously boosting the availability of options that are healthier. The vast majority of the students in the study group, who were all in middle school, purchased various drinks on a regular basis from either vending machines or street vendors. The majority of students gave businesses where they purchased snacks grades of either simply fair or terrible for how clean they were.

According to the assessments of the vendors, it was discovered that a significant number of them did not engage in fundamental practices of hygiene and sanitation, such as routinely washing their hands or maintaining a clean working environment. When it came to purchasing snacks, the majority of the students who participated in the focus groups were ignorant of the role that hygiene and sanitation play in the industry, and they often prioritized ease of use and pleasure above cleanliness.

The vast majority of the class members agreed that they would be more likely to purchase food from vendors that had an excellent reputation for cleanliness and sanitation. In order to persuade students to shop at specific establishments rather than others, it could be important to educate them about the cleanliness and sanitation practices of such businesses. This finding is consistent with the findings of a study that was conducted in 2018 and published in the *Journal of Environmental Health*. That study found that educating consumers about the food safety policies of vendors led to improved purchasing decisions and increased food safety overall. That a greater amount of effort has to be put in order to make providers that maintain high standards of cleanliness and sanitation more readily available.

This is in line with the findings of a study that was conducted in 2019 and published in the *Journal of Food Protection*. That study found that increasing the likelihood of customers making purchases from vendors who adhere to appropriate hygiene and sanitation practices by making it simpler for customers to find vendors who do so also increased the likelihood that customers would make those purchases. In light of the results of this study as well as those of other research, it is abundantly evident that more steps need to be taken in order to promote healthy snacking and protect the quality of food among middle school students. School districts have the ability to take steps in this direction by enforcing policies that restrict students' ability to buy junk food and encourage the sale of healthier alternatives; informing students about the cleanliness and sanitation standards of individual vendors; and making it easier for those vendors to set up shop. These are just some of the ways that school districts can move in this direction.

Making policies and implementing educational programs in the fields of public health and food safety with the objectives of expanding the availability of alternatives for wholesome snacks and lowering the risk of food poisoning among middle school students are two of the aims of this endeavor. When it comes to the importance of maintaining cleanliness and sanitation, middle school students require further training and comprehension of the topic. The study also highlights the need of greater execution of cleanliness and sanitation criteria for snack vendors in order to encourage middle school children to adopt better snacking options.

The Impact of Hygiene and Sanitation Education on Middle School Students' Perceptions and Attitudes Towards the Purchasing of Snacks

Students who had previously been given education on the need of maintaining a clean and sanitary environment had a more positive assessment of the vendors' ability to adhere to these criteria. It has also been shown that students who have received instruction on the necessity of maintaining high standards of personal hygiene are more likely to choose snack sellers who are well recognized for their cleanliness. This finding is supported by the fact that students who have received this instruction are more likely to choose healthier snack options. According to the findings of the focus groups, the students who had previously participated in classes that covered topics related to hygiene and sanitation had a deeper understanding of the material than those who had not. They also found that they were better able to put this information to use in determining where to purchase snacks as a result of their newfound knowledge. Nevertheless, a number of the students voiced their frustration that it was difficult to find vendors that adhered to the appropriate sanitation and hygiene measures.

The findings of this study indicate, as a conclusion, that the perspectives and attitudes of middle school students towards the purchasing of snacks may be favorably changed by education on cleanliness and sanitation. Students who had received training had a more positive impression of the cleanliness and hygiene standards maintained by the vendors, and they were more likely to purchase snacks from vendors who had a solid reputation in these areas. However, more effort has to be done to increase the number of vendors that have appropriate standards of cleanliness and sanitation. This will ensure that students are able to put their knowledge into practice.

Vendor Compliance with Hygiene and Sanitation Regulations

The most common cases of noncompliance that were reported by vendors were unwashed hands, unclean facilities, and inappropriate food storage. The results of the study showed a correlation between the students' perceptions of the vendors' adherence to norms and requirements for cleanliness and sanitation, and those perceptions. When youngsters were asked why they didn't purchase food from certain vendors, they said that it was due to the lack of hygiene and sanitary practices used by such vendors.

Compliance with health and sanitation regulations by vendors of snacks must to be subjected to stringent enforcement. During the assessments, it was discovered that a large number of providers did not fully comply with important standards, which may put the health of consumers at risk. According to the results of the survey, students were less likely to purchase snacks from vendors who had poor hygiene and sanitation practices. This finding was highly correlated with the students' perceptions of the cleanliness and sanitation methods used by vendors, which were in turn highly correlated with vendors' actual compliance with requirements. According to these data, middle school students could choose to consume healthier snacks if certain limitations were more strictly enforced.

The Role of School Policies in Promoting Healthy Snack Consumption

The students claim that there are regulations governing both what may be bought from vending machines and what can be carried into school as meals. Kids, on the whole, had the opinion that the school regulations did a good job of nudging them toward selecting healthier options when it came to snacking. Students said that as a direct consequence of the rules, they were more likely to choose snacks that were better for them and less likely to purchase junk food from vending machines and street vendors. In terms of cleanliness and sanitation, it was discovered that vendors located closer to schools that had stricter vending machine legislation and food requirements were in higher compliance with regulations. This was the case since schools had more severe criteria for snacks.

The results of this research demonstrate the potential influence that school regulations might have on encouraging middle school students to choose better snacking choices. Students reported that as a result of school regulations encouraging them to do so, they were more likely to buy nutritious snacks from teachers and cafeteria staff and less likely to buy junk food from vending machines and outside vendors. Students also reported that this shift occurred because they were more likely to buy nutritious snacks from teachers and cafeteria staff. According to the findings of the evaluations of the vendors, those that were located in close proximity to schools that had rigorous limitations were more likely to follow the rules for cleanliness and hygiene. These results provide credence to the hypothesis that rules imposed by schools have the potential to be an effective tool for promoting the consumption of nutritious snacks and ensuring the quality of all meals that are supplied by the schools.

Regulations imposed by the school might make a significant impact when it comes to getting students in middle school to consume healthy snacks (Rathi et al., 2018; Zamani-Alavijeh et

al., 2019). Students reported that as a result of school regulations encouraging them to do so, they were more likely to buy nutritious snacks from teachers and cafeteria staff and less likely to buy junk food from vending machines and outside vendors. Students also reported that this shift occurred because they were more likely to buy nutritious snacks from teachers and cafeteria staff. In addition, the vendor inspections discovered that businesses located in close proximity to schools known for their high requirements had a greater likelihood of adhering to all relevant sanitation and hygiene laws (Massri et al., 2019).

Rules have the potential to be a very helpful tool in promoting the consumption of healthy snacks and ensuring the safety of school meals. These findings are consistent with those found in prior research, which indicated that school restrictions could play a substantial role in encouraging children to adopt healthy dietary habits (Correa et al., 2019). These measures might potentially contribute to an environment that encourages healthy eating by enhancing availability to alternatives that are healthier and reducing access to alternatives that are less healthy. In addition, the researchers discovered that vendors located in close proximity to schools that had strict standards were more likely to adhere to the hygiene and sanitation criteria outlined in those rules (Ko & Kang, 2019; Mayett-Moreno, 2018). It is important to keep in mind, however, that the steps taken by the schools may not be enough on their own to alleviate the issue of middle school students eating an excessive number of unhealthy snacks (Pearson et al., 2020; Schwartz & Wootan, 2019). The outcomes of this research also suggest that in order to effectively influence students' buying choices, it may be required to tell them about the cleanliness and sanitation standards of specific vendors (Tuglo et al., 2021; Hill et al., 2019). A greater amount of effort is also necessary to expand the number of vendors that adhere to safe and sanitary standards in order for students to have the opportunity to put their newly acquired knowledge into practice (Dajaan et al., 2018).

Conclusion

There is a gap in the research about the effect of sanitary cleanliness in the sale of snacks on the snack consumption behavior of middle school pupils, and this study has the potential to fill that gap. The results will help policymakers, teachers, and food providers design effective initiatives to increase the proportion of healthy snack choices made by middle school pupils. The findings of this research will have a profound impact on public health and food safety, ultimately benefiting the health and happiness of children everywhere. Based on these findings, middle school teachers and administrators should emphasize the need of maintaining high standards of cleanliness while serving snacks to kids. The research also emphasizes the need of stricter implementation of cleanliness and sanitation requirements for snack sellers in order to encourage middle school kids to choose healthier snacking choices. This research has the potential to add to the expanding body of knowledge on how the availability of clean vending machines influences the snacking habits of middle schoolers. The results will help politicians, teachers, and food producers design better initiatives to have middle school pupils snacking more healthfully. The findings of this research will have far-reaching implications for public health and food safety, ultimately benefitting the health and happiness of children everywhere. Healthy snack intake and safe food handling among middle school kids may be encouraged by school policy. But other steps, including informing students about the cleanliness and sanitation standards of individual vendors and making it easier to find vendors who follow these standards, would be helpful as well.

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