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Original article

Relationship between Peer Influence and Consumption of Sugar-Sweetened Beverages in Adolescents

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Abstract

Background: Consumption of SSBs in Indonesia among adolescents is high at 72%. Nevertheless, identical adolescent behavior is to be accepted by the peer group. Peer groups have a high probability of influencing the consumption of adolescents.

Objective: This study aims to determine the relationship between peer influence and consumption of SSBs in adolescents.

Materials and Methods: The study employed an observational design with a cross-sectional approach. The sample consisted of 115 senior high schools students in the Surakarta area. Peer data collection and consumption of SSBs were conducted by filling out online questionnaires independently by adolescents. After data collection, analysis was completed using the chi-square test with P-value <0.05.

Results: Research analysis showed that there is a relationship between peer influence and consumption of SSBs with value (p = 0.000).

Conclusion: There is a relationship between peer influence and consumption of SSBs in adolescents

Peer Influence and Adolescents

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Introduction

Obesity is the most severe health problem in society and can increase morbidity. Obesity is associated with chronic diseases, including cardiovascular disease, hypertension, dyslipidemia, type 2 diabetes, mood disorders, and chronic kidney disease (1).

One of the causes of obesity among adolescents is the consumption of sugar-sweetened beverages (SSBs). SSBs are beverages with added sugar, including high-fructose corn syrup (HFCS), sucrose, and fruit juices with added sugar intentionally. Consumption of SSBs is currently more common in middle-income countries (2).

A survey conducted in Indonesia indicated that SSBs were consumed at least once per day with 41% of adolescents, 33% of adults, and 24% of children. Hence, SSB products were consumed by adolescents 72%, followed by children 62%, and adults 61% (3).

Adolescence is a period of transition physically and psychologically. In this period, many habits are formed, especially in food habits (4). Furthermore, adolescents are identical to desiring to be accepted by the group, especially their peer group. This peer group also has a high probability of influencing adolescents' consumption (5). Based on this explanation, the researcher intended to identify the relationship between peer influence and the consumption of SSBs in adolescents.

Materials and Methods

This study employed an analytic observational method with a crosssectional study. The research sample was 115 high school students selected by a
simple random sampling technique. The locations of this research were high
schools in Surakarta, including SMAN 2, SMAN 4, and SMAN 7 Surakarta. The
inclusion criteria were adolescents in 11th and 12th grade, while the exclusion
criteria were adolescents who had moved from SMAN 2, SMAN 4, and SMAN 7
at the study time. Data collection was completed by filling out an online
questionnaire in a google form. Furthermore, the data will be analyzed using the
chi-square test with SPSS software (Version 23, Chicago, IL, USA). The value is
considered significant if the P-value <0.05.

Results

Respondents' characteristics ranged from 17-18 years old, including 25.2% male and 74.8% female. Most of the respondents (57.4%) had peer groups, and some respondents (52.2%) consumed high SSBs, which is presented in Table 1.

Tabel 1. Characteristics of respondents

Variables	Value n (%)
Gender	
Male	25,2
Female	74,8
Age (Years)	
17	67,8
18	32,3
Peer Influence	
Low	42,6
High	57,4
SSBs consumption	
Sufficient	47,8
High	52,2

Table 2 shows that 73.3% of adolescents had strong peer influence and high consumption of SSBs. The chi-square test results showed that there is a relationship between peer influence and consumption of SSBs. Adolescents had 4.125 times the probability of consuming SSBs based on peer influence (p=0.000, OR=4.125, 95% CI).

Tabel 2. Relationship between Peer Influence and Consumption of Sugar-Sweetened Beverages in Adolescents

SSBs consumption					
Sufficient		High		_ P	OR
n	%	n	%	_	
33	60	16	26,7	0,000	4,125
22	40	44	73,3		
	Suffic n	Sufficient n % 33 60	Sufficient F n % n 33 60 16	Sufficient High n % 33 60 16 26,7	Sufficient High P n % n %

Discussion

The results showed that 73.3% of adolescents had strong peer influence and high consumption of SSBs. Peer influence is like a friend who likes SSBs, they always buy SSBs while hanging out with friends, and friends always invite them to purchase SSBs. The bivariate analysis results obtained a value (p = 0.000), which means that there is a relationship between peer influence and SSB consumption in adolescents. It is in line with other studies, which stated that there is a relationship between peer influence and consumption of foreign fast food such as french-fries with a value (p=0.016), waffles with a value (p=0.014), beef burgers (p=0.029), and chicken burgers (p=0.025) (5).

Another study also mentioned that individuals consumed high levels of snacks and soft drinks when close to peers who had high combined consumption with snacks at school and soft drinks at vending machines (6). Consumption of unhealthy food friends is associated with unhealthy consumption of individuals, especially adolescents who are more favored will tend to consume unhealthy

foods. Therefore, a friend's total energy intake correlates with an individual's total energy intake (7).

Conclusion

The results of the research and analysis concluded that there is a relationship between peer influence and consumption of SSBs in adolescents (p=0.000), and adolescents have 4,125 times the probability of consuming SSBs based on peer influence.

Ethical Approval:

The research was approved by the Health Research Ethics Commission Muhammadiyah Surakarta University (No.3554/B.1/KEPK-FKUMS/V/2021).

Conflict of Interest

None declared

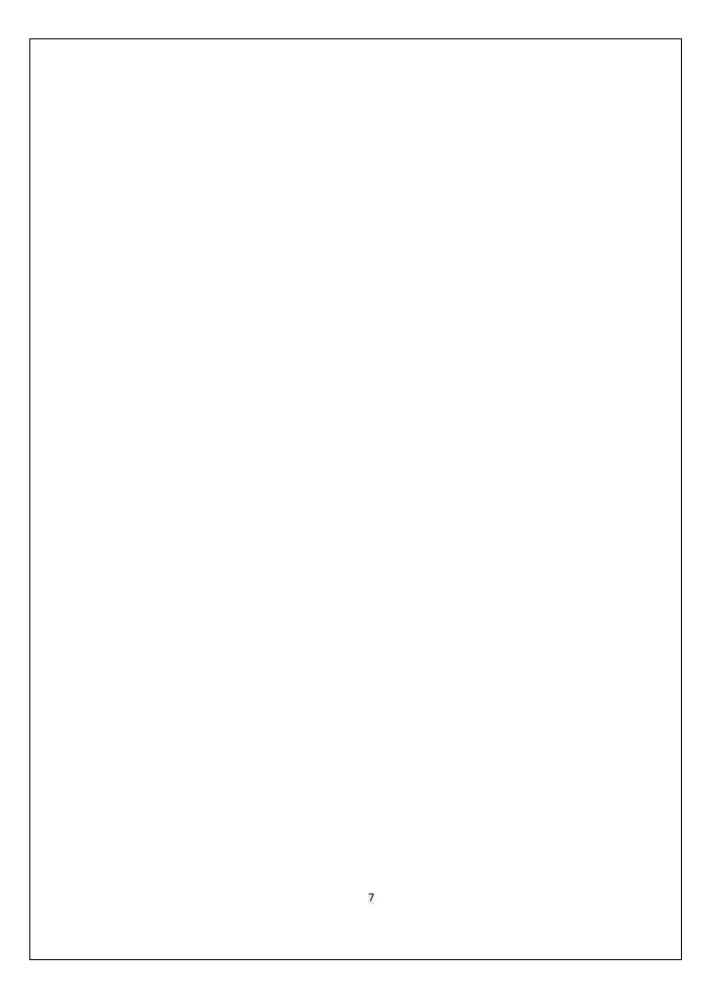
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Author's Contribution

All authors were involved in this study. Dina Pamarta did the research, wrote the manuscript, and did all the statistical analysis. All authors reviewed the final manuscript.



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