CORRELATION BETWEEN ADOLESCENT'S SUICIDAL IDEATION AND THEIR PERCEIVED **STRESS**

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Abstract

This study looks into how suicidal ideation in adolescents are impacted by perceived stress. Perceived stress is an individual's subjective evaluation of how stressful they believe particular circumstances in their life to be, and it has been linked to several negative consequences on mental health. The research aims to investigate the relationship between perceived stress and suicidal ideation in youths.

Objective: To investigate the relationship between perceived stress and the development of suicidal ideation among adolescents at secondary schools.

Materials and Methods: A cross-sectional descriptive study was conducted and a stratified random sample of (385) students from (12) secondary schools was selected randomly from (56) secondary schools during the period from 15th October to 1st September. Data was collected by a direct interview with participant by using a study instrument consists of three parts, the first was socio-demographic data the second consisted of (16) items of suicidal ideation scale (SIQ), and the third part consisting of perceived stress scale (PSS) with (10) items. Descriptive and inferential statistical data analysis approaches were applied in order to analyze the data.

Results: The study results illustrate there was a moderate, linear, positive relationship between perceived stress and suicidal ideation (r= .523, p value= .000) among adolescents.

Conclusions: Study conclude there was a moderate correlation between perceived stress and developing suicidal ideation among adolescents, Thus, it highlights the necessity of all-encompassing interventions that deal with mental health assistance as well as stress management in order to reduce the risk of suicide thoughts in this susceptible group.

KEYWORDS: Perceived Stress, Suicidal Ideation, Adolescents.

1. Introduction

significant short- and long-term personal, interpersonal, and Adolescents between the ages of (10 and 19) are essential for societal costs. Most people with recurrent depression first both social and economic development. Adolescents face many experience depression as adolescents, compared to depression challenges as they transition to adulthood. Risk factors that strikes an adult, early-onset depression disorders are more developed during adolescence directly affect health throughout persistent and incapacitating (4). There is a chance that adolescence and throughout the lifespan, according to WHO, adolescent self-harming activities could develop into suicidal which recognizes that investing in teens brings triple benefits thoughts. Suicidal ideation is a manifestation of the pain brought through immediate results during adolescence, in their adult on by internal conflicts, sadness, or anxiety as a result of lives, and in the well-being of their future children (1). significant physical, mental, and social change (5). Self-Adolescence is considered to be a vulnerable age period for an poisoning, self-burning, self-hanging, and weapons are the most individual, most mental disorders are first diagnosed during this popular means of suicide, Despite the face of the fact that it is developmental period and are associated with poor physical and thought to be underreported, suicide and suicidality are mental health outcomes during adulthood (2). Adolescents increasing in Iraq. Despite religious and social taboos, a variety struggle more to cope with acute stressors such as the end of a of sociodemographic, environmental, and psychological factors relationship, situations that cause embarrassment or can lead to suicidal thoughts, attempts, and completions, due to humiliation, rejection by social groups, academic failure, and increased rates of depression, and interpersonal and domestic the loss of loved ones because of their tendency to be short- abuse, young females are more likely to attempt suicide, and tempered, impulsive, and not fully emotionally mature, these have suicidal thoughts using potentially fatal means like selfincidents may serve as catalysts for suicide behavior, and burning (6). Exposure to stressful conditions on a regular basis suicidal ideation raises the chance of further suicide attempts can lead to psychological distress, mental health problems, (3). Up to 9% of adolescents experience depression each year, depression, and anxiety symptoms, all of which might increase making it one of the most common debilitating disorders in the risk of suicide thoughts. We should be aware of the need to adolescence. It frequently has a complex illness trajectory and avoid stress and thoughts of suicide, as well as the potential may have a severe detrimental effect on an adolescent's and benefit of doing so in terms of protecting ourselves against the family's health and resources, adolescent depression has beginnings of psychological disorders and illnesses such as

depression. Understanding how people could be taught to manage stress is essential since unfavorable experiences at work and in the classroom might increase the likelihood of suicide thoughts and conduct (7). When people are put in a physical or psychological condition that they are unable to handle they perceive stress which has detrimental repercussions on their health, the relationship between perceived stress and suicidal conduct may be direct or indirect depending on how it affects mental health functioning, for example, by contributing to the onset and persistence of depressive symptoms and these can contribute to suicide conduct independently and as a potential result of perceived stress (8).

2. Materials and Methods

Study design: A cross-sectional descriptive study.

Study setting: The current study was conducted on secondary school which were located in Iraq; Thi-Qar Governorate; Al Nasiriya City.

Study sampling: The target population sample was (37110) students spread over 56 secondary schools in Al Nasiriya city center, these schools were distributed across the city's neighborhoods and areas, the sample size of the study was based on the Richard Geiger equation.

Instrument of study: The tool consists of four parts:

Part 1: Socio-demographic data that include: age, gender, grade level, type of family; student arranged in family; the educational level of fathers and mothers, occupation level of fathers and mothers, and monthly income.

Part 2: The second part was related to depressive symptoms and used Burn's Depression Scale (BDS) which includes 10 items to assess thoughts and feelings, 7 items to assess activities and personal relationships, and 3 items to assess physical symptoms. Part 3: The third part was related to the suicidal ideation scale where used (SIQ); 16 items consisted of sentences about suicidal thoughts to assess if the adolescents have had them in the past month.

Part 4: The fourth part related to the perceived stress among adolescents where used the perceived stress scale (PSS) consisting of 10 items.

Ethical Approval: The study was achieved in accordance with the ethical approval before data collected, the study protocol appraised and approved by nursing collage domestic committee, theme information, and permission form (dated June 26, 2023).

3.Results

The following are the tables that showed the systematic data analysis outcomes and how they matched the study's objective. Table 1: Frequencies, and Percentage of Participants and their

Family Demographic Data

N	Demographic data	Rating	F.	%
		16	120	31.2
1	Age	17	122	31.7
		18	80	20.8
		19 and above	63	16.4
2	Gender	Male	186	48.3
2	Gender	Female	199	51.7
3	Type of family	Nuclear Family	336	87.3
		Extended Family	49	12.7
4		3-6	165	42.9

	Family	7-10	195	50.6
	Member	More than 10	25	6.5
5	Father's Level of Education	Below preparatory school	162	42.1
		Preparatory school	55	14.3
		institute	64	16.6
		College and above	104	27.0
	Mother's	Below preparatory school	232	60.3
6	Level of	Preparatory school	61	15.8
	Education	institute	33	8.6
		College and above	59	15.3
	Father's employment	Unemployed	132	34.3
7		Employed	212	55.1
		Retired	41	10.6
N I	Mother's employment	Housewife	295	76.6
		Employed	76	19.7
		Others	14	3.6
9	Monthly income	Low	65	16.9
			130	33.8
	meome	Moderate High	190	49.4
		Single	369	95.8
10	Social status	Married	10	2.6
		Separate	6	1.6
11	Lived with	With one of the	33	8.6
		parents		
		With parents	347	90.1
		With someone else	5	1.3
	Resident	Urban	356	92.5
12		Suburban	25	6.5
		Rural	4	1.0

F= Frequency; %= Percent

This table shows that (31.2%) and (31.7%) of study participants age were 16 and 17 years respectively, (51.7%) were female, (87.3%) were lived in a nuclear family, and (50.6%) were lived in family with (7-10) members. In addition, (42.1%) and (60.3%) of fathers and mothers respectively were below preparatory school. In terms of parents' occupation, the data show that moms (76.6%) were housewives, fathers (55.1%) were employed, and (49.4%) had high monthly incomes; Additionally, according to the study's findings, 90.1% of participants lived with their parents and 95.8% of participants were single. Finally the results show that (93.5) of students didn't had any physical illness and (92.5%) of their resident were urban.

Table 2: The level of depressive symptoms, suicidal ideation and perceived level among the adolescents

Main domain	Level	F	%	m.s	Level
	Low	205	53.2		
Suicidal	Moderate	122	31.7	1.62	L
ideation	High	58	15.1	1.02	L
	Total	385	100.0		
	Low	63	16.4		
Perceived	Moderate	164	42.6	2.25	M
stress	High	158	41.0	2.25	IVI
	Total	385	100.0		

F= Frequency, %= Percent, m.s=mean of score, H=High, M=Moderate, L=Low

The study results indicate that the participants had low level of suicidal ideation, and moderate level of perceived stress with mean of scores equal to (1.62, and 2.25) respectivly, regarding the (0.66) statistical cutoff point.

Table 3: The correlation between study participants' perceptions of stress and suicidal ideation

Main domain	Suicidal ideation			
	r	P value	Sig.	
Perceived stress	0.523	0.000	S	

=(p-value ≥ 0.05)

This table shows the Spearman correlation coefficients between suicidal ideation and perceived stress for the study sample, where the results showed there was a positive correlation between perceived stress and suicidal ideation (r=.523, p value= .000) among adolescents at a p-value ≤ 0.05 .

4. Discussion:

The participants' demographic features in the study:

According to the demographic data, table (1) show that most of the study participants were (16 and 17) years old, more than with heightened emotional distress, may contribute to an half were female, most of them lived in a nuclear family, and increased risk of suicidal ideation among adolescents more than half lived in a family with (7-10) members. In experiencing high levels of perceived stress. The results of the addition, most of their fathers and mothers were below study "The relationship between suicidal behavior and preparatory school. In term of parents' occupational status, the perceived stress: The role of cognitive emotional regulation and results show that more than half of fathers were employed, and problematic alcohol use in Spanish adolescents" by Ballabrera the majority of mothers were housewives, also nearly half had et al. (2023) corroborated this finding, demonstrating positive high monthly income. Lastly, the study's findings show that and significant associations between the risk of suicidal most of its participants were unmarried and lived with their parents..

Suicidal ideation among adolescents

Table (2) show that the study subjects' suicidal ideation was low level with (m.s = 1.62), and there were (15.1%) of adolescents had high level of suicidal ideation, and (31.7%) of them had moderate level of suicidal ideation, that can be linked to the intricate interaction of social, psychological, and biological aspects, the hormonal changes during adolescence can affect mood regulation and increase vulnerability to mental health epidemiological study in the academic year 2016-2017 to intervention programs to both prevent and treat. determine the prevalence of suicidal ideation among Iraqi secondary school students in Babylon province. The study's References findings showed that nearly half of the participants (49.5%) 1. reported considering taking their own life (10).

Perceived stress among adolescents

adolescents was moderate level at (m.s = 2.25), that can be disorders, 263, 155-165. attributed to a combination of developmental, environmental, 2. and individual factors: people go through substantial physical Al Eissaee, S., Alshehhi, N. A., Al Shamisi, S. A., Al Hamez, M. and emotional changes during adolescence, and cognitive M., Abdelrazeq, S. Y., & Grivna, M. (2020). Self-esteem and changes, which can lead to increased sensitivity to stressors and other risk factors for depressive symptoms among adolescents a heightened perception of stress, the impact of environmental in United Arab Emirates. PloS one, 15(1), e0227483. factors such as academic pressure, social expectations, and 3. family dynamics on adolescents' stress levels. Also, the Rahim, D. A. (2022). Investigating the prevalence of and transition to high school, peer relationships, and concerns about factors associated with depressive symptoms among urban and

the future can contribute to perceived stress among adolescents. This finding supported by Gonmei & Devendiran (2017) in their study (Perceived stress and psychosocial factors of stress among youth), the results indicated that students experience a moderate level of stress (11).

The relationship between adolescents' development of suicidal ideation and their perception of stress

Table (3) showed that there was that there was a moderate, linear, positive relationship between suicidal ideation and perceived stress (r= .523, p value = .000) among adolescents, this indicate that, when the perceived stress increased the suicidal ideation increased, due to the positive scoring between these two domains, These relationships may partly be explained by the prolonged activation of the stress response system. coupled with maladaptive coping strategies, which can exacerbate feelings of hopelessness, helplessness, and emotional pain-factors strongly associated with suicidal ideation. Another possible explanation for this is that perceived stress can influence adolescents' problem-solving abilities and decision-making processes, potentially leading to a sense of entrapment and a reduced ability to envision alternative solutions to their distress. This cognitive inflexibility, combined behavior and perceived stress (13).

5. Conclusions and recommendations

The objective of the current investigation was to ascertain the connection between adolescent suicidal ideation development and perceived stress. Perceived stress and the emergence of suicidal ideation in adolescents are moderately correlated, according to study findings. In order to reduce the likelihood of suicidal ideation in this susceptible group, the researchers emphasized the importance of comprehensive interventions that issues, including suicidal thoughts. Additionally, the impact of target stress management as well as mental health assistance. psychological factors such as low self-esteem, and feelings of This would be a productive topic for additional research on hopelessness as contributors to suicidal ideation. This finding adolescent suicide behavior to identify additional risk variables was also reported by Jasim et al (2017), who carried out an that support the creation and implementation of efficient

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