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War Trauma, Anxiety, and Resilience among University Students in the Gaza Strip

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Abstract

The aims of this study were to identify the types of the traumatic experiences, to find the type of resilience factors, anxiety trait and state occurrence, and to determine the relationship between exposure to the traumatic experiences, resilience and trait and state among university students. It is a descriptive analytical study; the sample consisted of randomly selected 399 university students enrolled in the main four universities in Gaza Strip (Al-Aqsa, Al-Azhar, Al-Quds Open and Islamic University) at the second semester of the academic year 2012-2013. We used five questionnaires to collect the data; a predesigned Socio-demographic sheet, Gaza Traumatic Events Checklist, the State-Trait Anxiety Inventory, and Connor–Davidson Resilience Scale.

This study showed that the most commonly reported traumatic events were watching mutilated bodies on TV (92.7%), witnessing the shelling and destruction of another's home (47.37%), witnessing firing by tanks and heavy artillery at neighbors' homes (47.12%), and being forced to move from home to a safer place during the war (42.86%). Mean total traumatic events was 4.72. Anxiety state mean was 46.62 and anxiety trait mean was 36.22. The most common resilience concepts (most of the time/all the time) were: God can help (91.7%), things happen for a reason (90.3%), and I am proud of my achievements (85.2%). Male students had significantly more total resilience, more personal competence and more trust in one's instincts than female students. The results showed that there was a significant correlation between total traumatic events and anxiety state and trait. The results showed that there was no significant correlation between total traumatic events and total resilience, but there was a positive significant correlation between total traumatic events and trust in one's instincts, tolerance of negative affect and strengthening effects. On the other hand, there was a significant correlation between total traumatic events and spiritual domain. There was a significant correlation between anxiety state and total resilience and its subscales except in spiritual dimension.

Our conclusion was exposure to previous traumatic events due to Gaza war had long-term negative effects on Palestinian university students which increased their mental health problems. We recommend that students affair should show brief students the nature of the course, the institutional ethos, the subjects that they will be taught and aspects relating to assignments, examinations, evaluation and other academic requirements, and should also provide therapeutic interventions for university students who suffer from anxiety.

Keywords: Anxiety trait and state; Resilience; Trauma; University students

Introduction

Epidemiological studies such as the National Comorbidity Survey (NCS) reported that more than 50% of surveyed adults have experienced at least one traumatic event during their lifetime [1].

Previous studies in Palestinian society in the Gaza Strip showed that Palestinians reported traumatic events mean ranged from 4-10 events [2-4]. Thabet et al. [4] in their study of a sample consisted of 381 randomly selected universities students in Gaza Strip showed that the mean traumatic events reported by university students were 10 traumatic events. The commonest reported traumatic events were watching mutilated bodies on TV (94.5%), hearing shelling of the area by artillery (92.4%), hearing the loud voice of drone's motors (87.4%), and inhalation of bad smells due to bombardment (78.7%). In Iraq Freh [5] in his study of 224 Iraqi young adults found that their age ranged from 12 to 23 years, found that 74.6% of the participants reported having experienced at least one highmagnitude traumatic event in their lifetime as a result of the invasion. Of the total sample, 57.4% involved a family member being killed, 28.7% a family member being injured, and 13.7% had had their house demolished. Participants who reported having a family member injured were noted to have higher levels of depression and anxiety than comparable participants who had a family member killed.

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Anxiety has been defined as 'an unpleasant emotional state or condition which is characterized by subjective feelings of tension, apprehension and worry, and by activation or arousal of the autonomic nervous system' [6]. Spielberger et al. [6] suggested that we are living in an 'age of anxiety' and it is often claimed that people are more prone to anxiety now than they were previously. Anxiety is the top presenting concern among college students worldwide (41.6%), followed by depression (36.4%) and relationship problems (35.8%) [7]. A recent survey on the universities in China found that the rate of anxiety was 11.7% [8]. Thabet [3] in a descriptive analytic study, the sample consisted of randomly selected 399 university students from main four universities in Gaza Strip showed that 10.3% of males and 13.8% of females had anxiety. No statistically significant differences in mean anxiety according to gender.

Lu et al. [9] in a study investigated the prevalence of mental health problems and their predictors in a sample of 1048 Chinese college freshmen from Shanghai. Regarding anxiety, 46.85% of students had anxiety problems. Resilience is seen as a characteristic that enables individuals not only to overcome adversity but also to thrive when facing a crisis [10]. The last two decades have witnessed a growing interest in factors that are associated with psychological resilience following exposure to trauma [11,12]. Many people are exposed to loss or potentially traumatic events at some point in their lives, and yet they continue to have positive emotional experiences and show only minor and transient disruptions in their ability to function. Unfortunately, because much of psychology's knowledge about how adults cope with loss or trauma has come from individuals who sought treatment or exhibited great distress, loss and trauma theorists have often viewed this type of resilience as either rare or pathological [13].

Resilience is not construed as a trait, though numerous individual and family attributes are associated with the emergence of positive adaptation in the presence of threats and elevated risk [14]. Instead, resilience refers to the capacity for adapting successfully in the context of adversity, typically inferred from evidence of successful adaptation following significant challenges or system disturbances. Resilience "in action" can be observed most directly when the processes of adaptation to a major disturbance are in progress. Yet resilience can be also inferred from evidence that the system is "likely" to respond well when given the resources and adaptive capabilities available to the system. Efforts to prepare individuals, families, communities, and other systems for anticipated challenges often have the goal of building system capacity for positive responses to disturbances [15]. For the purpose of the present study, resilience will be defined as the tendency to overcome factors that place one at risk for psychological dysfunction and to adjust positively in the aftermath of a potentially traumatic event [16].

Juma and Thabet [17] in a descriptive analytic study consisting of randomly selected 399 university students from the main four universities in Gaza Strip found that the most frequent coping strategies were finding comfort in religious beliefs (78.2%), thinking about what steps to take (71.4%), and learning to live with situation (67.7%). Also, Thabet and Thabet [4] investigating randomly selected 502 subjects from 5 areas of the Gaza Strip found that Palestinians used religious ways of coping with the stress and trauma, and that 98% said God is helping all the time, they were proud of their achievements, and had strong sense of purpose in their life. The aims of this study were 1) To identify the types of the traumatic experiences, 2) to highlight the type of resilience, and occurrence of anxiety trait and state, and 3) to determine the relationship between exposure to the traumatic experiences, resilience and anxiety state and trait among university students.

Method

Participants

Participants were 399 Palestinian university students enrolled in four universities in Gaza strip (Al-Aqsa University, Al-Al-Azhar University, Al-Quds Open University and Islamic University). Two hundred and thirty two of the participants (58.1%) were females and 167 (41.9%) were males.

Measures

A predesigned socio- demographic sheet

This questionnaire included; gender, age, name of the university, place of residence, and family monthly income.

The Gaza traumatic events checklist

This described the most common traumatic experiences the population could have faced during the 2008-2009 war on Gaza. This checklist consists of 18 items covering three domains of events typical of the war on Gaza: (1) Hearing traumatic events (items numbers 1-2 include hearing about killing of relatives or friends). (2) Witnessing trauma (items number 3-8, experiencing witnessing of home demolition, and killing of others). (3) Personal experiences (items number 9-18, being personally the target of violence, being shoot, injured, or beaten up by soldiers). The respondents rated whether they had been exposed to each of these events as (0) 'no' or (1) 'yes'. A total score was estimated. The scale had high internal consistency (α =0.76) and split half was 0.85.

Connor-Davidson resilience scale

The CD-RISC was developed for clinical practice as a measurement of coping ability in the face of adversity [18,19]. It consists of 25-items with each item rated on a 5-point Likert scale, ranging from 0 (not true at all) to 4 (true nearly all the time). Higher total scores indicate greater resilience.

The internal consistency of the scale was calculated using Chronbach's alpha, and was high (α =0.88) [4]. In this study the Cronbach's Alpha coefficient for the whole scale was high (α =0.93).

The State-trait anxiety inventory (STAI)

The STAI consists of two identical 20-item subscales: one measuring state anxiety and the other measuring trait anxiety

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[6]. For the state scale, individuals are asked to rate their anxiety "in the moment" and for the trait scale, individuals are asked to rate their anxiety "in general." Participants rate items (e.g., "I feel nervous and restless") on the state version on a 4-point scale ranging from 1 (not at all) to 4 (very much so) and rate items on the trait version on a 4-point scale ranging from 1 (almost never) to 4 (almost always).

Internal consistencies of scores range from α =0.65-0.96, with a mean of α =0.91 for the state scale of the STAI and range from α =0.72-0.96 with a mean of α =0.89 for the trait scale of the STAI. Test-retest correlations of scores (various time periods) range from r=0.34-0.96 with a mean of r=0.70 for the state scale of the STAI and range from r=0.82-0.94 with a mean of r=0.88 for the trait scale of the STAI [20]. In this study the Cronbach's alpha coefficient for the anxiety trait scale was (α =0.87) and Cronbach's alpha coefficient for the anxiety state scale was (α =0.78).

Study Procedure

The data were collected using randomly selected sample from four universities in Gaza Strip (Al-Aqsa University, Al-Al-Azhar University, Al-Quds Open University and Islamic University) after getting an official approval from each university.

An official approval from each university has been got in order to enter the university to implement the study, Helsinki Ethical committee (Ministry of Health) gave approval to carry out the study, informed written consents approval from each student has been got, this form included the purpose of the study, confidentiality information and some instruction, it also included statement about student right to participate or refuse.

The data was collected by four assistants professionals trained for four hours in data collection of this sample and criteria for selecting students in the second semester of the academic year 2012-2013. Each student has completed five questionnaires on 15 to 20 minutes; difficult questions if present were explained by data collectors. The data collection was done in two weeks.

Statistical Analyses

Statistical analyses were carried out using IBM SPSS Statistics version 20. Continuous variables were presented as $M \pm SD$ and categorical variables were expressed as frequencies (%). The trauma, anxiety state and trait, and resilience scores of the participants were exhibited using the mean values and SD.

Spearman's correlation coefficient tested the association between trauma, anxiety trait and state, and resilience scores of the participants.

Prediction of resilience by trauma, anxiety state and trait, was tested by series of stepwise multiple linear regression analyses was conducted, with each traumatic events and anxiety state and trait entered as the predictor and total resilience score as the dependent variable. A two-tailed p value <0.05 was considered statistically significant.

Results

Socio-demographic of the study sample

The sample consisted of 399 Palestinian university student's male and female living in Gaza strip (Al-Aqsa University, Al-Azhar University, Al-Quds Open University and Islamic University **(Table 1)**. Two hundred and thirty two of the participants (58.1%) were females and 167(41.9%) were males. One hundred and forty (35.1%) of the participants were from The Islamic university, 93(23.3%) were from Al-Aqsa university, 88(22.1%) were from Open Al-Quds university, and 78(19.5%) were from Al-Azhar university.

Ninety four (23.56%) from university students of the study sample were from North Gaza, 206(51.63%) were from Gaza, 78(19.55%) were from Middle area, 13(3.26%) were from Khan Younis and 8(2.01%) were from Rafah.

Table 1 Socio-demographic of the study sample (N=399).

	N	%
Sex		
Male	167	41.9
Female	232	58.1
Age Mean 20.4 (SD=1.42)		
Place of residence		
North Gaza	94	23.56
Gaza	206	51.63
Middle area	78	19.55
Khan Younis	13	3.26
Rafah	8	2.01
University enrolment		
Islamic university	140	35.1
Al-Aqsa university	93	23.3
Open Al-Quds university	88	22.1
Al-Azhar university	78	19.5
Family income in (NIS)		
*Less than 1000 NIS	143	35.84
1001-2000 NIS	111	-
2001-3000 NIS	71	17.79
3001-4000 NIS	46	11.53
More than 4000 NIS	28	7.02

Most of the family income of the university students of the study sample were less than 1000 NIS 143(35.84%), 111 family's income were from 1001-2000 NIS (27.82%), 71 of the family's income were from 2001-3000 NIS (17.79%), 46 of the family's

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income were from 3001-4000 NIS (11.53%) and 28 were more than 4000 NIS (7.02%).

Exposure to trauma

The most commonly reported traumatic events were watching mutilated bodies in TV (92.7%), witnessing the shelling and destruction of another's home (47.37%), witnessing firing by tanks and heavy artillery at neighbors' homes (47.12%), and being forced to move from home to a safer place during the war (42.86%) as shown in **Table 2**. The mean total traumatic events was 4.72 (SD=3.09).

Differences in traumatic events according to sociodemographic variables

Independent t-test showed statistically significant gender differences, where male students experienced significantly more traumatic events than females (t=6.49, p=0.001). One-way ANOVA was conducted in which total traumatic events was entered as dependent variable and other socio-demographic variables as independent variables. There were no significant

Table 2 Frequency of traumatic events of the study sample.

differences in traumatic events resulting from war on Gaza according to the university of the study sample (F=1.65, p=0.17).

Anxiety state and strait

Anxiety state: Anxiety state mean was 46.62 (SD=7.67). There were no significant differences in Anxiety state according to sex of the study sample (t=1.57, p=0.11).

The results found that there were no significant differences in anxiety state resulting from war on Gaza according to the university (F=0.01, p=0.99). There were no significant differences in anxiety state according to the family income (F=2.03, p=0.08).

Anxiety trait: Anxiety trait mean was 36.22 (SD=11.43). The results found that there were significant differences in Anxiety trait according to sex of the study sample (t=-2.23, p=0.02) in favor of females.

There were no significant differences in Anxiety trait resulting from war on Gaza according to the university of the study sample (F=1.854, p=0.13).

S.No	Items of traumatic events	Yes (%)	No (%)
1	Watching mutilated bodies in TV	92.73	7.27
2	Witnessed the shelling and destruction of other's homes	47.37	52.63
3	Witnessing firing by tanks and heavy artillery at neighbors' homes	47.12	52.88
4	Forced to move from home to a safer place during the war	42.86	57.14
5	Deprivation from water or electricity during detention at home	38.85	61.15
6	Being detained at home during incursions	35.84	64.16
7	Witnessing killing of a friend	28.57	71.43
8	Witnessing shooting of a friend	27.57	72.43
9	Threaten by shooting	27.57	72.43
10	Destroying of your personal belongings during incursion	16.79	83.21
11	Witnessed the shelling and destruction of own home	11.28	88.72
12	Witnessing shooting of a close relative	9.02	90.98
13	Exposure to burn due to phosphorus bombs	9.02	90.98
14	Shooting by bullets, rocket, or bombs	8.77	91.23
15	Beating and humiliation by the army	8.52	91.48
16	Threatened with death by being used as human shield by the army to move from home to home	7.52	92.48
17	Threaten of being killed	7.27	92.73
18	Witnessing killing of a close relative	6.27	93.73

Resilience in university students: The most common resilience items (most of the time/all the time) were:

God can help (91.7%), things happen for a reason (90.3%), and being proud of their achievement (85.2%).

Means and standard deviation of resilience: For resilience, mean resilience was 64.54(SD=14.26), personal competence was 20.99(SD=5.67), trust in one's instincts was 15.32(SD=4.74), positive acceptance was 13.18(SD=3.23), control was

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7.78(SD=2.48), and spiritual influences was 7.27(SD=1.36) as shown in **Table 3**.

 Table 3 Mean and standard deviation of total resilience and its subscales.

Variable	Mean	SD
Total resilience	64.54	14.26
Personal competence	20.99	5.67
Trust in one's instincts	15.32	4.74
Positive acceptance	13.18	3.23
Control	7.78	2.48
Spiritual influences	7.27	1.36

Differences in resilience according to sociodemographic variables

There were gender differences in resilience subscales. Male students had significantly more total resilience than females (Mean=66.49 vs. 63.19) (t=2.29, p=0.02). Male students had significantly more personal competence than female students (Mean=21.63 vs. 20.53) (t=1.9, p=0.05), and trust in one's instincts (Mean=16.38 vs. 14.56) (t=3.85, p=0.001) as shown in **Table 4**.

Correlation coefficients between total traumatic events and anxiety state and trait, total resilience and its subscales

Pearson correlation coefficient test was performed to find the relationship between trauma, anxiety trait and state, and resilience in universities students. The results showed a significant correlation between total traumatic events and anxiety state and trait, and no correlation between traumatic events and anxiety trait was found (r=0.14, P=0.004), (r=0.08, P=0.07) respectively **(Table 5)**. The results found that there was no significant correlation between total traumatic events and total resilience (r=0.06, P =0.10), but there was a positive significant correlation between total traumatic events and trust in one's instincts, tolerance of negative affect and strengthening effects (r=0.14, p<0.01). On the other hand, there was a significant correlation between total traumatic events and spiritual domain (r=-0.13, p<0.01). There was a positive significant correlation between anxiety state and total resilience and its subscales except in spiritual dimension (r=0.28, p<0.01).

Table 4 Independent t test comparing mean of resilienceaccording to sex of the study sample.

Variables	Sex	N	Mean	SD	t	р
Total resilience	Male	167	66.49	15.06	2.29	0.02
iotal resilience	Female	232	63.19	13.5	2.25	0.02
Personal	Male	167	21.63	5.65	1.9	0.05
competence	Female	232	20.53	5.66	1.5	0.05
Trust in one's	Male	167	16.38	4.84	3.85	0.001
instincts	Female	232	14.56	4.52	3.05	0.001
Positive	Male	167	13.35	3.49	0.93	0.35
acceptance	Female	232	13.05	3.02	0.93	0.35
Control	Male	167	8.02	2.39	1.63	0.1
Control	Female	232	7.61	2.54	1.05	0.1
	Male	167	7.14	1.55	-1.53	0.12
Spiritual	Female	232	7.36	1.19	-1.55	0.12

Table 5 Correlation coefficients between total traumatic events and anxiety state and trait, total resilience and its subscales.

S.No		1	2	3	4	5	6	7	8
1	Total traumatic events	1							
2	Total resilience	0.05	1						
3	Anxiety Trait	.14**	18-**	1					
4	Anxiety state	0.09	31-**	.68**					
5	Personal competence	0.06	.90**	16-**	27-**	1			
6	Trust in one's instincts	.14**	.84**	11-*	20-**	.67**	1		
7	Positive acceptance	03-	.76**	14-**	24-**	.56**	.50**	1	
8	Control	0.05	.78**	25-**	32-**	.66**	.59**	.52**	1
9	Spiritual	13-**	.56**	12-*	22-**	.48**	.27**	.52**	.37**
*p< 0.0	5, **p<0.01, *** p<0.001		-						

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Prediction of anxiety state by traumatic events and other socioeconomic variables

In a multivariate regression model, each traumatic event, age, sex, place of residence, family monthly income were entered as

an independent variables, with anxiety state as the dependent variable **(Table 6)**. Beating and humiliation by the army was predicting anxiety state (β =0.17, p=0.001) and family monthly income was negatively predicted anxiety state (β =0.12, p=0.01).

	Unstandardized Coefficients		Standardized Coefficients			95.0% Interval for E	Confidence
	В	Std. Error	Beta	t	p-value	Lower Bound	Upper Bound
(Constant)	46.219	0.39		118.61	0.001	45.45	46.99
Family monthly income	-0.76	0.301	-0.12	-2.527	0.012	-1.351	-0.169
Beating and humiliation by the army	4.81	1.335	0.17	3.6	0.001	2.19	7.43

 Table 6 Multivariate regression model of each traumatic event with total anxiety state.

Prediction of resilience by traumatic events

In a multivariate regression model, each traumatic event, age, sex, place of residence, family monthly income were entered as an independent variables, with total resilience as the dependent variable. Four traumatic events were significantly associated with total resilience: threatened with death by being used as human shield by the army to move from home to home negatively predicted resilience (β =-0.22, p=0.001), witnessing shooting of a friend (β =0.15 p=0.001), witnessing the shelling and destruction of other's home (β =0.36, p=0.001), and hearing killing of a close relative (β =0.13, p=0.002) were predictor factors for resilience **(Table 7)**. Gender differences in prediction resilience was toward male (β =0.11, p=0.02).

 Table 7 Multivariate regression model of each traumatic event with total resilience.

	Unstandardized Coefficients		Standardized Coefficients			95.0% Confidence Interval for B	
	В	Std. Error	Beta	t	p-value	Lower Bound	Upper Bound
(Constant)	59.89	0.93		64.68	0.001	58.07	61.71
Sex	-3.11	1.374	-0.11	-2.263	0.024	-5.811	-0.409
Threatened with death by being used as human shield by the army to move from home to home	-11.51	2.52	-0.22	-4.56	0.001	-16.47	-6.55
Witnessing shooting of a friend	4.43	1.56	0.15	2.84	0.001	1.36	7.49
Witnessed the shelling and destruction of other's home	3.61	1.42	0.13	2.55	0.01	0.82	6.39

Discussion

The study aimed to find the association between war traumatic experiences, anxiety and resilience among universities students in the Gaza Strip, after war on Gaza, and during a period of ongoing trauma exposure. The most commonly reported traumatic events were watching mutilated bodies on TV, witnessing the shelling and destruction of another's home, witnessing firing by tanks and heavy artillery at neighbors' homes, and being forced to move from home to a safer place during the war. Such findings were consistent with previous studies in the area [2-4]. Moreover, male students experienced significantly more traumatic events than females. Such gender differences toward males were consistent with results of similar studies in Gaza Strip [3]. Our finding that males reported more traumatic events than girls could be due to the cultural factors in which males are more active in daily life and political activities and that females are kept at home caring for other family members.

Our study showed that the anxiety state mean was 46.62 and anxiety trait mean was 36.2. There were no significant differences in anxiety state according to sex of the students. And there were significant differences in anxiety trait according toward the female students. Our results consisted with Mulatu study of 551 students in Ethiopia, which found that the mean of the scores on the Trait Anxiety scale was 45.40 and State Anxiety scale mean was 40.95. In another study that drew upon the high prevalence rate of mental health problems among university students in Hong Kong, 21% out of 7,915 students were reported to have serious depression levels while 41% of these students were found with high levels of anxiety [21].

For resilience, the most common resilience items (most of the time/all the time) were: God can help (91.7%) things happen for

a reason (90.3%), and being proud of their achievement (85.2%). Mean resilience was 64.54, personal competence was 20.99, trust in one's instincts was 15.32, positive acceptance was 13.18, control was 7.78, and spiritual influences' mean was 7.27. There were gender differences in resilience subscale. Male students had significantly more total resilience than females as well as more personal competence and more trust in one's instincts than females. The results showed a significant correlation between total traumatic events and anxiety state and trait. Our results were consistent with findings of Beiter et al. [22] in study of a sample consisted of 374 undergraduate students between the ages of 18 and 24 attending Franciscan University, Steubenville, Ohio which showed a statistically significant correlation between levels of depression, anxiety, and stress.

There was a positive significant correlation between anxiety state and total resilience and its subscales except in spiritual dimension. Campbell-Sills and colleagues [23] examined associations between personality characteristics and the CD-RISC. With regard to the personality variables, the researchers found that the trait of neuroticism showed the strongest relationship with the CD-RISC, with extraversion displaying a slightly smaller relationship. Similarly, Bonelli et al. [24] reviewed 101 studies on the relationship between religious belief and psychological health and analyzed the stability of its relation with depression and anxiety and found that religious belief is helpful in reducing anxiety and depression by two thirds. Hartley [25] in study of a sample of 121 undergraduate students with mental health issues was recruited from campus mental health offices offering college counseling, psychiatric support, and disability support at two Midwestern universities, found that there was a significant interaction between mental health and intrapersonal resilience, indicating that the relationship between intrapersonal resilience and time to credits completed became stronger for students with the most elevated levels of psychological distress.

Lu et al. [9] investigated the prevalence of mental health problems and coping strategies in a sample of 1048 Chinese college freshmen from Shanghai. Religious belief was found to be significantly associated with depression and anxiety symptoms; contrary to previous findings which suggest that religious belief was a protective factor for psychological health [26,27]. Recently, Stanleya and Bhuvaneswarib [28] in a study conducted on undergraduate students of all three cohorts at a women's-only college in Tiruchirapalli in South India (N=73) assessing stress, anxiety, resilience and coping found that anxiety and stress levels were relatively higher in the first and third-year students while compared to those in the second year of their course, while resilience and coping was relatively low in the first year group. Correlations were significantly positive for the stress and anxiety scores as well as the coping and resilience scores. Such findings were consistent with Mancini et al. [29] in study of 368 female survivors of the Virginia Tech shootings completed assessments before the shooting, and at 2,6 and 12 months post-shooting, in which most individuals showed a resilient response (56-59%), displaying low levels of anxiety and depression both before and after the shooting, some exhibited chronic distress and others a pattern of continuous high distress.

Limitations of Study

There are several limitations to our study. First, the crosssectional design precludes inferences about causality [30]. Second, mental health was assessed by self-reported questionnaires rather than structured diagnostic interviews. Although these instruments have been validated and shown to have acceptable sensitivity and specificity, as well as internal consistency, construct validity, and criterion validity, in a range of populations (including college students), these measures are not equivalent to clinical diagnosis. Future research should examine more Palestinian students to identify whether students' mental health problems are indeed as frequent as we suggest.

Clinical Implications

The findings of the current study suggest that undergraduate students need extra measures to deal with the anxiety and trauma that they experience [31]. Also, it is suggested that the academic lead (sta member) for the 1st-year cohort should meet with the whole group at least once a month to enable students to vocalize their difficulties and to seek clarification on various issues that they perceive to be difficult. Their anxieties usually revolve around clearing their final examination and any arrears (examinations not passed in the previous years) that add to their academic baggage, anxieties relating to whether to pursue a postgraduate degree or to explore vocational options. Meanwhile, preventive programs directed at strategies for the management of emotions should become a key component of university students' education [32]. The efficiency of psychological services, enhancement of physical exercise, promotion of extracurricular activities, thematic seminar and individual or group cognitive-behavioral therapy may contribute to promotion of good mental health. We suggest conducting awareness workshops for university student to learn more about impact of war on mental health. Also, to conduct awareness workshops for community members to learn more about psychological problems and their effects. Teach university student to use positive coping strategies in order to reduce potential psychological problems.

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