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Are Resilient Factors Increasing the Risk for Childhood **Psychological Victimization?**

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Abstract

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Keywords: psychological abuse; risk factors; resilience; adolescents

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BACKGROUND: Understanding the resilient factors and why some children do well despite early adverse experiences is crucial, because it can inform more effective policies and programs that help more children reach their full potential.

AIM: The main objective of the study is to describe the associations between psychological abuse in childhood and resilient risk factors on individual, relational, contextual level among adolescents in the country and see the probability of resiliency to predict psychological victimisation.

MATERIAL AND METHOD: Cross-sectional study on two-stage quota sample of 622 university students was applied in the study, including adolescents at first and second year at the main public Ss Cyril and Methodius University of Skopie, from the 12 faculties in the country. Adverse Childhood Experiences Study International Questionnaires was used for collecting information on psychological abuse, while the individual, relational and contextual resilient factors were measured using the Child and Youth Resilience Measure - Youth version. The study was conducted from March to September 2017. Statistical significance was set up at P < 0.05.

RESULTS: The results from the study have shown statistically significant negative correlation between exposure to psychological abuse in childhood and individual (rpb = -0.159), relational (rpb = -0.263), contextual factors (rpb = -0.147), and resilience in total (rpb = -0.232). The regressive model presents that 5.2% of the variance of the variable experienced psychological abuse is explained with resilience (F(1, 527) = 28.909; P < 0.001), showing that resilience is negatively significant predictor for being psychologically abused in childhood (β = -0.228; t = 5.377; P < 0.001). The regressive model explains the individual contribution of the predictor variables for the psychological abuse, presenting that only caregiver resiliency is a significant predictor for psychological abuse (β = -0.282; t = -4.986; P < 0.001).

CONCLUSION: Supporting children through prevention means foster competence and prevent problems. Preventive programmes represent developing protective factors in childhood, increasing competence and skills for the growth of resilience and decreasing the likelihood of developing psychopathology in adolescence and adulthood. It is of common interest of society for implementation of evidence-based interventions with fostering settings and in the long run enabling positive childhood basis for future generations.

Introduction

Epidemiological evidence links adverse experiences of abuse and neglect in childhood with resilience. Understanding the resilient factors [1] [2] [3] and why some children do well despite adverse early experiences is crucial, because it can inform more effective policies and programs that help more children reach their full potential.

The most influential study of Garmezy, 1970

conducted on children living with a schizophrenic parent, established a foundation for the study of resilience [4]. For the first time, he introduced the term "protective factors" that help individuals to overcome the negative effect of adverse experiences, resulting in positive development [2]. According to the findings of his research, although children living with a schizophrenic parent increases the risk of developing illnesses, an incredible 90% of children in this study do not develop the disease [4]. Researchers began to present findings that speak of positive results that can be achieved despite the negative life events and

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experiences of children to plan interventions to promote mental health among children at risk. Evidence-based interventions were evaluated that promote mental health among children at risk. Also, the resilience may be different in different life phases [5] [6]. Resource studies focused on factors or features that help individuals successfully cope with the negative experiences [5]. As research in the field of resilience has progressed, it has become increasingly evident that in addition to research aimed at understanding the characteristics of resilience, attention should also be focused on the study of interventions and prevention programs [7] [8].

Early efforts were primarily focused on personal qualities of "resilient children," such as autonomy or high self-esteem [9]. How work in the area evolved, however, researchers increasingly acknowledged that resilience might often derive from factors external to the child. Subsequent research led to the delineation of three sets of factors implicated in the development of resilience: (1) attributes of the children themselves, (2) aspects of their families, and (3) characteristics of their wider social environments [9] [10] [11].

The development of children around the world is threatened by disasters, violence, pandemics, and other adversities that can have life-altering consequences for individuals, families, and the future of all societies [12]. These adversities have raised global concerns about dangers posed to children as well as the future of societies and renewed attention to resilience across many fields of research.

During the last few decades, there has been a growing interest in the concept of resilience [13]. The starting point in understanding the term resilience refers to the phenomenon of responding to stress or adversity. The concept of resilience has been defined in many various ways depending on from the components of the construct of resiliency, its dimensions, underlying processes, conceptual models, identifying factors contributing to resiliency, and empirical findings. Resiliency, or resilience, is commonly explained and studied in the context of a two-dimensional construct concerning 1) the exposure of adversity and 2) the positive adjustment outcomes of that adversity [14]. Rutter has defined resilience including... "protective factors which modify, ameliorate or alter a person's response to some environmental hazard that predisposes to maladaptive outcome" [13]. Masten [12] has broadly defined resilience ...as the capacity of a dynamic system to adapt successfully to disturbances that threaten system function, viability, or development. Luthar and colleagues consider resilience as ... "a dynamic process encompassing positive adaptation within the context of significant adversity" [14].

Lee and Cranford defined resilience... "as the capacity of individuals to cope successfully with significant change, adversity or risk" [15], and also

Leipold & Greve sees resilience as capacity to resist and recover despite adversity ... "as an individual's stability or quick recovery (or even growth) under significant adverse conditions" [16].

Subsequently, ecological systems theory, articulated by Bronfenbrenner [17], and Garmezy (5), functioned as a way to examine the interplay between individuals and their environments and the resulting impact upon the individual's development.

Regarding the term adversity, Luthar et al., (2000) stated that adversity "typically encompasses negative life circumstances that are known to be statistically associated with adjustment difficulties" [14].

Analyzing resilience begins with assessment of exposure to adversity and the impact risk factors have on children's experience of wellbeing. Large cohort studies have shown that adverse childhood events such as neglect and family violence exert long-term exposure to deleterious effects on mental and physical health [18]. These processes of successful adaptation in situations where there is abnormally environmental load (the quality and quantity of the adversity that is experienced) have been attributed to a range of biological, psychological, relational, and sociocultural factors, some more likely to respond to clinical interventions than others [19]. Given the multidimensionality of the processes associated with resilience, the likelihood of individual children withstanding the impact of cumulative stressors is not a measure of their invulnerability [20]. Instead, resilience is predicted by both the capacity of individuals, and the capacity of their social and physical ecologies to facilitate their coping in culturally meaningful ways [21].

Based on the work of the Resilience Research Centre, Michael Ungar (2005) makes comprehensive explorations of resilience based on mixed methods (quantitative and qualitative) study including over 1500 youth across various cultures [21] They explained that resilience multidimensional construct, the definition of which is negotiated between individuals and their communities, with tendencies to display both homogeneity and homogeneity across culturally diverse research settings" [21]. In the later work he [23] [24]. Understand resilience as a social-ecological construct. According to him [24] ... resilience is defined as: 1) the capacity of individuals to navigate their ways to resources that sustain well-being; 2) the capacity of individuals' physical and social ecologies to provide those resources; and 3) the capacity of individuals and their families and communities to negotiate culturally meaningful ways to share resources."

The paper intends to explore the relationship between the experience of psychological abuse in childhood and resilience risk factors on individual, relational, contextual level in adolescents. Additionally, we want to explore the likelihood of psychological victimisation related to the resilience.

Material and Methods

Study design and sample

The cross-sectional study on two-stage quota sample comprised of 622 first and second-year university students aged 17-19 years, 417 (67%) of whom were male and 215 (33%) female. According to the ethnicity, 80% of students are Macedonians, 10.1% Albanians, 1.2 Serbians, 0.3% are Roma and under others are 8,2% students. Predominantly 83% of students are from urban areas, while only 17% are coming from the rural environment. Predominantly (83%) of study participants were from urban areas as presented in Table 1.

Table 1: Descriptive statistics: gender, ethicity, urban/rural

Variables	· (0/)
	n (%)
	Gender
Male	206 (33.12)
Female	416 (66.88)
	Ethnicity
Macedonian	498 (80.06)
Albanian	63 (10.13)
Roma	2 (0.32)
Other	56 (9)
Refuse to answer	3 (0.48)
Pla	ce of living
Urban	516 (82.96)
Rural	106 (17.04)

The sampling procedure applied two stages. At the first stage of sampling procedure, selection has been made randomly by electing every second faculty from the website list of the 23 faculties from the biggest public university "Ss Cyril and Methodius University of Skopje" [25]. The following faculties have been included in the sample: Faculty of Architecture, Faculty of Economics, Faculty of Medicine, Faculty of Law; Faculty of Dentistry; Faculty of Veterinary Medicine, Faculty of Drama Arts, Faculty of Agricultural Sciences and Food, Faculty of Fine Arts; Faculty of Physical Education, Sport and Health; Faculty of Philosophy; and Faculty of Forestry.

In the second stage of sampling procedure, participants were selected so that the same percentage was included in the sample as per the percentage of the students enrolled in the first year in the academic 2015/2016 according to the State Statistical Office data [26].

Procedure

The participants were recruited from the largest public university in Republic of Macedonia "Ss Cyril and Methodius University of Skopje". At the beginning of the study, the selected 12th Faculties

have been contacted, and accordingly, an agreement has been done for conducting the study for the first-year university students. At the beginning of the study, the researcher explained issues of confidentiality, informed consent and the right to withdraw at any time or not answer certain questions. Participants were informed in written form of the general aims of the study and were asked to read and sign the consent form before participating.

After reading the information sheet and signing the consent form, participants completed questionnaire to assess abuse and resilience, including demographic characteristics. The questionnaire was administrated in the same order for all participants. Completion time required for the questionnaire was approximately 45 minutes. The researcher indicated that participation in the study was voluntary and that participants had the right to withdraw from the study at any time. The study was conducted from February to September 2017.

Measurement

Adverse Childhood Experiences Studv International Questionnaires [27] was used for collecting information on psychological abuse in childhood. The questions on psychological victimisation in childhood were with multiple choice (many times-code 5; a few times-code 4; sometimescode 3; rare-code 2; and never code 1. The questions begin with the phrase: When you were growing up, during the first 18 years of your life . . . Did a parent, guardian or other household member yell, scream or swear at you, insult or humiliate you? ..or ...Did a parent, guardian or other household member threaten to, or actually, abandon you or throw you out of the house?

relational Resilience (individual, and contextual resilient factors) was measured by using the Child and Youth Resilience Measure 28 - Youth version (CYRM-28), [24]. CYRM-28 has three subscales: individual capacities/resources, relationships with primary caregivers and contextual factors that facilitate a sense of belonging. Study participants were asked to state to what extent the sentences describe them asking to circle one answer for each statement on a five-point response scale (Not at All, A Little, Somewhat, Quite a Bit, A Lot) for some of the following statements: I have people I look up to: I know how to behave in different social situations; My parent(s)/caregiver(s) know a lot about me; am treated fairly in my community ...and other similar questions [24].

Permission for usage of the instruments has been obtained by the authors/institutions prior to the study. The study has been approved by the Scientific Advisory Board of the Medical Faculty at the "University St Cyril and Methodius, Skopje" in February 2017.

Statistical analysis

The Statistical Package for Social Sciences (SPSS v17) was employed, and a significance level of 0.5 was adopted. Before commencing statistical tests, data were screened for the accuracy of entered responses, missing data, and violations and assumptions. Statistical analysis included descriptive statistics (Mean and Standard Deviation), correlations and linear logistic regression.

Results

Descriptive statistics

The data regarding the descriptive statistics such as median (M), standard deviation (SD) and obtained a range of the scores for the variables: psychological abuse, individual, caregiver contextual resilience. and resilience total adolescents are presented in Table 2. The mean for psychological abuse is 3.68, and standard deviation of 2.01, scores ranging from 2-10. The mean for resilience is 114.4, while the standard deviation is with scores ranging from 29-140. descriptive statistics for the other types of resilience are presented in Table.

Table 2: Descriptive statistics for variables: psychological abuse, resiliency total, individual, caregiver and contextual resilience

	М	SD	Obtained range of scores
Psychological abuse	3.68	2.01	2-10
Resilience total	114.4	15.7	29-140
Individual resilience	46.6	6.5	11-55
Relationship with Primary Caregiver	29.5	5.0	6-45
Contextual resilience	38.3	6.6	11-50

N = 622

Correlation and linear regression analysis

The findings showed statistically significant negative correlation between the individual resilient factors (r = -0.159), relational (r = -0.263), and contextual resilient factors (r = -0.147) as well as resilience in total (r = -0.232) with exposure to psychological abuse in childhood as presented in Table 3.

Table 3: Correlation coefficients (r) between psychological abuse and individual, caregiver, contextual resilience and resilience in total

Individual resilience (r)	Relationship with Primary Caregiver (r)	Contextual resilience (r)	Resilience total (r)
-0.159**	-0.263**	-0.147**	-0.232**
	resilience (r)	resilience with Primary (r) Caregiver (r)	resilience with Primary resilience (r) Caregiver (r) (r)

N = 622; *P < 0.05; **P < 0.01.

The results have shown that adolescents with higher level experiences of psychological abuse have

lower levels of individual, relational, contextual and resiliency in total as presented in Table 3. The findings showed a statistically significant negative correlation between the resilient (individual,) factors and exposure to psychological abuse in childhood that is in line with the actual literature evidence. The higher level experiences of adverse experience such as psychological abuse were associated with lower levels in resilient (individual, relational, contextual) factors.

In Table 4, the data were presented from the linear regressive analysis predicting psychological abuse by resilience, were total score of resilience has been calculated.

Table 4: Simple linear regression analysis results: predicting psychological abuse by the resiliency

Model	Model Unstandardize		Standardized	t	Sig.	95%	Confidence	
		d Coefficients		Coefficients			Interval for B	
		В	Std.	Beta	_		Lower	Upper
			Error				Bound	Bound
1	(Constant)	3.644	0.333		10.934	0.000	2.989	4.298
	Resilience	-0.429	0.080	-0.228	-5.377	0.000	-0.585	-0.272
$r = 0.228$; $R^2 = 0.052$.								

The regressive model revealed that 5.2% of the variance of the criteria variable psychological abuse is explained by resilience (F (1.527) = 28.909; P < 0.001). The findings show that resilience is an important predictor for experiencing psychological victimization in childhood (β = -0.228; t = -5.377; P < 0.001). Lower resiliency in adolescents increase the odds for the experience of psychological abuse. The linear regression analysis also confirmed that lower resilience factor is a statistically significant predictor for experiencing psychological victimisation.

Table 5: a Hierarchical linear regression analysis: predicting psychological violence by individual, caregiver and contextual resiliency

Model		Unstand Coefficie		Standardized Coefficients	Т	Sig.	95% CI for B	
		В	Std. Error	Beta	_		Lower Bound	Upper Bound
1	(Constant) Individual resiliency	3.050 -0.275	0.314 0.072	-0.163	9.711 -3.804	0.000 0.000	2.433 -0.417	3.667 -0.133
2	(Constant) Individual resiliency	3.661 -0.003	0.326 0.087	-0.002	11.219 -0.037	0.000 0.970	3.020 -0.173	4.302 0.167
	Caregiver resiliency	-0.418	0.077	-0.278	-5.395	0.000	-0.570	-0.266
3	(Constant) Individual resiliency	3.648 -0.008	0.333 0.090	-0.005	10.938 -0.091	0.000 0.928	2.992 -0.186	4.303 0.169
	Caregiver resiliency	-0.425	0.085	-0.282	-4.986	0.000	-0.592	-0.257
	Contextual resiliency	0.016	0.084	0.011	0.194	0.846	-0.149	0.182

r = 0.279; R² = 0.078.

The hierarchical linear regression analysis suggests that three types of individual, caregiver and contextual resiliency explain 7.8 of the variance for the psychological abuse. Significant 2.7% is explained by individual resiliency (F (1.527) = 14.471; P < 0.001). Major significant part of 5.1% is explained by caregiver resiliency (F (1.526) = 29.101; P < 0.01), while contextual resiliency does not have significant contribution.

The third regressive model explains the individual contribution of the predictor variables for the psychological abuse, presenting that only caregiver resiliency is a significant predictor for psychological abuse (β = -0.282; t = -4.986; P < 0.001). The caregiver resiliency significantly contributes as a predictor for decreasing the risk for psychological victimisation.

Discussion

At the beginning of the investigation of the construct of resilience in the 1970s, researchers investigating children at risk for psychopathology noted that some children had good outcomes despite being exposed to risk [3] [28]. This discovery stimulated a search for specific differences in children who thrive in the face of adversity and generated a field of research on resilience [29]. The concept of resilience was significant as it signified a change in focus from mental illness to mental health [30]. This changing focus created an increase of research on protective factors that promote mental health and positive development in the face of risk and adversity [28].

The results of the current research showed that higher levels of psychological abuse experiences in childhood are associated with lower levels of resilient (individual, relational and contextual) factors. which is in line with other studies [13] [30]. As other study suggested, not all maltreated children develop maladaptively. Many abused and neglected children show positive, resilient functioning despite the pernicious experiences they have encountered and the ignominious treatment they have received [28] [31]. Adolescents who have higher levels of experience of psychological abuse in childhood, a lower level of resistance appears, not only for the overall resilience but also for individual, relational and contextual factors of resilience in the current study. Similar data were also obtained when studying the resilience in psychosocial studies, in which it was noted that children could adapt and deal despite the negative experiences that they had [5] [32].

The findings show that resilience is an important predictor of the being psychologically victimised among adolescents involved in the study. Adolescents with higher resilience are less likely to experience psychological abuse than those with lower levels of resilience. Longitudinal studies have produced similar empirical evidence of understanding of resilience [11] [33]. An influential study conducted by Hawaii-born children provided key information that resilience is a result of the impact of multiple risks [11] [33], giving prospective ecological studying the factors as suggested by Ungar [24]. According to this study, about one-third of children were resilient despite the

risks they experienced. These children continued to be resilient as adults [11]. The growth and development of children in environments dominated by protective factors are of paramount importance in reducing the likelihoods of experiencing psychological victimisation [22] [35].

There are available interventions based on evidence of reducing child abuse and neglect with an emphasis on protective factors that encourage the growth and development of children [27]. These protective factors can have a positive long-term impact on the development of the overall potential of future generations [36] [37]. Research demonstrates that resilient are important factors that can either increase or reduce the risk of victimisation, although the conclusions were drawn from relatively privileged population group of adolescents enrolled at the university.

The study findings highlight the need for investing protective (individual. relational. in contextual) factors in childhood as critical features in the development of resilience in young adolescents [36] [37] as well as increasing the self-esteem, decreasing the likelihood competence and developing psychopathology. More evidence needed analysing influence on various factors of adversity such as physical, sexual abuse, community violence, and family dysfunction to come up with more general conclusions and recommendations. advance the understanding of resilience, it is essential that more longitudinal research is conducted that investigates the pathways to the resilient functioning and that simultaneously examines biological and psychological Still, evidence-based systems. interventions to reduce adverse childhood experiences are available with desian implementation of resilience-promoting interventions and in the long run setting up positive childhood surroundings for future generations.

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