

RELATIONSHIP BETWEEN SCHOOL CLIMATE AND PSYCHOLOGICAL DISTRESS: THE MEDIATING EFFECT OF PERCEIVED SOCIAL SUPPORT

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ABSTRACT

The study investigated the mediating role of perceived social support on the relationship between the school climate and psychological distress. The participants were 200 undergraduates with mean age of 20.00, SD = 1.20 (males = 100 and females = 100) selected from a private and public university in Anambra State of South Eastern Nigeria. Scales measuring psychological distress, perceived social support, and school climate were used to collect data in a study that utilized a combination of cross-sectional and predictive designs. The results showed that there were significant correlations among the study variables and the independent factors significantly predicted the outcome variable. Also the social support subscales (significant others, friends support and family support) mediated the relationship between the school climate and psychological distress. The findings have implications for government and university proprietors were by social support should be part of the school climate to possibly reduce psychological distress.

Keywords: School climate, Social Support, psychological distress

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School climate is often conceived as the levels of students' relations, school resources, decision making, collaboration, instructional innovation and work pressure experienced in schools (Burden & Fraser, 1994; Johnson, Stevens & Zvoch, 2007). While some studies measured school climate from teachers' perspective (Brown & Henry, 1992; Burden & Fraser, 1994; Johnson

et al. 2007); other studies assessed it from the students' perspective

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 191	
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(Bernstein, 1992; Johnson, Johnson & Zimmerman, 1996). The present study adopts Brookover et al. (1978) view of school climate as the social system of shared norms and expectation of the school from the students' perspective.

Among early adults at the university, perhaps the school climate may be considered as one of the most influential factors that determine their general wellbeing (Baker, Dilly, Aupperlee & Patil, 2003). This is because undergraduates spend most of their time in the school environment and each school environment has different levels of school climate (Burden & Fraser, 1994; Johnson et al. 2007) which may directly or indirectly influence the student's wellbeing (Masten & Coatsworth, 1998)

The educational sector in Nigeria has witnessed some evolutions in the past 15 years following the commissioning of Universal Basic Education (UBE) program launched in May; 2000. The UBE Program increased the number of students with primary and secondary education who want to further their studies in tertiary institutions. Therefore, to meet with this demand, the National University Commission (NUC) licensed over fifty private universities which added to the existing licensed state and federal Universities. However, some of these universities in Nigeria tend to make and enforce policies which appear contrary to the requirements for the proper administration of higher institutions. For instance, some private universities create school climates which are

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 192
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socially and psychologically parallel to the developmental requirement of their students (Nwafor, in press). The school climate may include other specifications such as physical structures, the quality of teaching facilities and teachers which undeniably contribute to the welfare of the students (Mazzucchelli & Purcell, 2015). There are many other factors that may determine how well an individual can navigate and graduate successfully from the university. For instance, if an individual adapt effectively to the social and academic environment, the individual is expected to persist stress and graduate successfully (Tinto, 1993). By implication, the individual's level wellbeing is crucial for successfully engaging in meaningful relationships, navigating one's environment, and realizing one's fullest potential throughout the lifespan (Ryff, 1989).

Phenomenological and ecological theorists postulated that the degree of fit between students' developmental needs and capacities (structures, goals, practices) and interactions afforded by the school affects students' outcomes (Baker, Dilly, Aupperlee & Patil, 2003; Bronfenbrenner, 1999; Deci & Ryan, 1985; Lazarus, 1991). Similarly, Masten and Coatsworth (1998) noted that the contexts in which individuals develop play influential roles in promoting their adoption and adjustments. The number of years students spend in higher institutions make school gain the ability to influence experiences, selfperception and life courses (Baker, Derrer, Davis, Dinklage-Travis, Linder &

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 193
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Nicholson 2001). In their self-determination model Connell and Wellborn (1991) stated that individuals have three fundamental needs from any environment:

a. To be meaningful, connected to others.

b. To have developmentally appropriate choice and self-direction.

c. Perceive themselves as competent in their endeavors.

School climates that do not afford opportunities for students to satisfy these needs are likely to be perceived as negative (socially and psychologically) and may create psychological distress (Baker et al., 2003; Masten & Coatsworth, 1998). Psychological distress among students has many undesirable outcomes which psychologists try to discourage (Saïas et al., 2014). It is also a risk factor that exposes students to other major negative outcomes and psychopathologies (Mirowsky & Ross, 2002; Saïas et al., 2014).

The present study firstly proposed that school climate (social and psychological) has a great influence on the level of psychological distress. Psychological distress is construed as a non-specific mental health problem which includes combinations of symptoms ranging from depression and general anxiety symptoms to personality traits, functional disabilities and behavioural problem (Dohrenwend & Dohrewend, 1982; Saïas, et al., 2014). Studies have shown that there is a significant prevalence of psychological distress among students (Ani, Kinanee, Ola, 2011; Ezeilo, 1982; Abiola, Lawal

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 194
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& Habib, 2015; Field & Kift, 2010). Psychological distress has been shown to have positive relationships with some undesirable outcomes such as dropout from schools, drug dependence, anxiety, depression and poor academic performance (Abiola et al., 2015; Cardozo et al., 2012; Mundia, 2011; Papazisis, Tsiga, Papanikolaou, Vlasiadis & Sapountzi-Krepia, 2008; Saïas, et al., 2014;).

Contrary to these negative consequences of psychological distress, students who are less distressed have been found to have several desirable variables in common, including sufficient personal assets and competencies; effective nurturance and support of the social and psychological environment, which contribute to positive development and protect them from stress and dysfunction (Baker, Derrer, Davis, Dinklage-Travis, Linder, & Nicholson, 2001; Baker et al., 2003).

The second objective of the present study is to reaffirm that social support has a buffering effect on psychological distress (Baker et al., 2001; Bøen, Dalgard & Bjertness, 2012; MdYasin & Dzulkifli, 2010; Pearlin, 1989). Social support is described as 'verbal and nonverbal communication and action between recipients and providers that reduces uncertainty about the situation, the self, the other, or the relationship and functions to enhance a perception of personal control in one's life experience (Albrecht & Adelman, 1987). It has three main dimensions: family social support, friends' social support and significant others social support. The importance of social support in

Social Science Research, 2016, vol 3, 191-207	© Author(s)	<u>www.unizikssr.org</u>	Page 195

understanding distress was highlighted in the sociological theory of stress (Pearlin, 1989). The salient feature of sociological perspectives on distress research is its concern with the socially patterned distribution of the components of the distress process into: stressors, mediators and outcomes (Pearlin, 1989). According to the sociological paradigm, an outcome (e.g. psychological distress) may depend on some stressors (e.g. school climate). However, the stressor may have a mediator (e.g. social support) which may reduce or reverse the ability of the stressor to activate the outcome. Following this rational, the study also proposed that social support will mediate the impact of school climate on psychological distress.

The following questions will be answered:

- a. To what extent will school climate predict psychological distress?
- b. To what extent will social support predict psychological distress?
- c. To what extent will social support mediate the impact of school climate on psychological distress?

Methods

Participants

Participants comprised of two hundred (males = 100 and females =100) third year undergraduates randomly chosen from two universities (one private = 100 and one public =100) in Anambra State South-East Nigeria. One hundred participants were chosen from each university. The first private University licensed to operate in Nigeria was in Anambra State. The Participants ages ranged from 19 to 23 years, their mean age was 20.00 years, and standard deviation was 1.20.

Instruments

The participants completed the instruments described below:

School climate Scale.

This is a 15-item questionnaire developed by Nwafor (2015) measures students' perception of their school climate. Each item was anchored on a likert-type response format of 1 = Not at all True, 2 = Hardly True, 3 = Moderately True, and 4 = Exactly True. Some of the items (8, 10, 12, and 13) were reversed during scoring. Samples of the items include: students can easily interact with their lecturers; students can organize social activities in the school; relations can visit any time they want. The Cronbach's alpha for the scale was .82.

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 197

Multidimensional Perceived Social Support Scale.

This 12-item questionnaire was developed by Zimet, Dalhlem, Zimet & Farly (1988) to assess individuals' outcome from different social contexts namely, family, friends and significant others. Each subscale has four items and the response pattern is ranked strongly disagree = 1 to very strongly agree = 7. Dahlem, Zimet, & Walker (1991) found total Cronbach's alpha (α) of .91 and alphas of .90, .94 & .95 for significant others, family and friends supports respectively. The Cronbach's alpha for the present study were .75 for significant others, .76 family, .77 friends and .81 for all items in the scale.

Psychological Distress Scale.

This was developed by Kessler et al. (2003) for screening, mental disorder and psychological distress. It contained 10 questions of non-specific psychological state of different levels of anxiety and depressive symptoms a person experienced within the past four weeks. The response ranged from *none of the time* = 1 to *all of the times* = 5. Fassaert, et al. (2009) recorded a Cronbach alpha of .93. However, the alpha for the present study was .80.

Procedure

Two universities that participated in the study were randomly selected from five Universities in Anambra State. Balancing technique was applied to

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 198

ensure that one private and one public university was selected. This was achieved by random sampling private and public universities, separately and selecting one university from each. The heads of the two Departments involved in the study gave their consents. Thereafter, science students who consented to participate were given the questionnaires to complete. The participants completed and returned the questionnaires before commencement of their first morning lectures. All the two hundred questionnaires administered were collected, scored and used for the analysis.

Design/Statistics

A combination of cross-sectional and predictive design was adopted for the study. Pearson r correlation and conditional process analysis (Hayes, 2013) were used to access the direct and indirect regression effects of the independent factor (school climate) and mediators (social support) on the outcome (psychological distress). Conditional process analysis is a statistical program that calculate mediation coefficient in a regression model.

Results

Table 1

Means, Standard Deviations and Correlation Coefficients

		М	SD	1	2	3	4	5
1.	Psychological	29.78	6.21	1				
	Distress							
2.	Significant others	15.91	6.20	42**	1			
3.	Family	16.04	6.33	41**	.82**	1		
4.	Friends	14.70	4.70	18**	.60**	.62**	1	
5.	School Climate	16.74	7.79	36**	.25**	.23**	.14	1
** p <.	01, * <i>p</i> < .05							

Table 2

Social Science Research, 2016, vol 3, 191-207

Effect of perceived Social Support on Relationship between School Climate and Psychological Distress.

	R^2	Df	F	В	Se	LLCI	ULCI
Model 1	.27	4(195)	18.10**				
Others				25**	.10	05	04
Family				21**	.11	.48	.07
Friends				26**	.10	05	47
School climate				22**	.05	.31	.12
Model 2 indirec	t			Effect	Se	LLCI	ULCI
effect						LLUI	0201
				07	.03	14	03
effect Total model						-	
effect				07	.03	14	03

www.unizikssr.org

Page 200

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Result showed that school climate correlated significantly with psychological distress, significant others, family and friend support at r(1, 194) = -.36, p < .01; .25, p < .01, .23, p < .01 & .14, p < .05 respectively (see Table 1). Multiple regression and mediation analysis showed that the independent predictor and the mediators predicted the outcome (psychological distress) significantly the R² = .27, F(1, 195) = 18.10, p < .01. The beta coefficients were - .25; -.21; -.26; & -.22; p < .01 for other, family, friends and school climate respectively (see, Table 2).

The result of indirect effects of school climate on psychological distress showed that the three dimensions of social support have both total indirect effect and independent indirect effect on the level of psychological distress (see Table 2). By implication, there was a significant decrease of psychological distress when support was not controlled.

Discussion

The primary objective of this study is to investigate whether different dimensions of social support (significant others,family and friends) mediate significantly the relationship between school climate and psychological distress. The results revealed firstly that a significant negative relationship exists between school climate and psychological distress. This affirms the theories and empirical studies that showed that environment can be a potent stressor that predicts psychological distress (see Baker, et al., 2003, Deci & Ryan,

Social Science Research, 2016, vol 3, 191-207	© Author(s)	<u>www.unizikssr.org</u>	Page 201
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1985, Connell & Wellborn, 1997, Masten & Coatsworth, 1998). Similarly, social support significantly predicted psychological distress. This is also in concordance with the previous research which found that social support is a buffer to psychological distress (see Baker et al., 2001, MdYasin & Dzulkifli, 2010; Pearlin, 1989). The result further showed that social support significantly mediated the effect of school climate on psychological distress.

In other words, high social stable school climate reduces the rate of psychological distress while socially unstable school climate increases the level of psychological distress. This result is supported by Pearlin (1989) postulation in a sociological model of distress. The model stated that the stressors ability to effectively determine an outcome may depend on some mediators. In this instance, even though school climate (stressor) significantly predicted psychological distress, the strength of this prediction becomes even better when social support was added to the model. This is possible because social support fill in the needed gap, proposed in self-determination model (Connell & Welborn, 1991) that ensuring individuals are meaningfully connected to others; ensuring developmentally appropriate choice and self-direction and ensuring that individuals perceived themselves as competent in their endeavor are criteria for psychological balance.

Limitations

The main limitation of the present study is the choice of survey design, which the researchers believe may increase the chances of extraneous variables and limits the power of inference and causality. However, certain research may not be easily subjected to experimental design. Because of this caution was applied on how the present finding was generalized.

Implications

The study has implication for policy makers and individuals that are in charge of administering private and public universities. As a matter of fact, the National University Commission may emphasize not only the academic and physical environments but also the psychological and social environments. Forums that encourage significant others mentoring can be encouraged; also programs that encourage intimacy as postulated by psychosocial theory can be designed and students should to be part of the decision that affects them.

Conclusion

School climate and social support are important factors in understanding psychological distress among undergraduates. The structure, goals, and policies are all part of school climate and are vital in determining the psychological balance of its occupant. Therefore, to avert the secondary consequences of psychological distress experienced in its exhaustion stage

Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 203

(e.g., anxiety and depression) preventive measures that include adequate social support should be designed and inculcated into the university scheme.

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Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 204
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Social Science Research, 2016, vol 3, 191-207	© Author(s)	www.unizikssr.org	Page 205
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