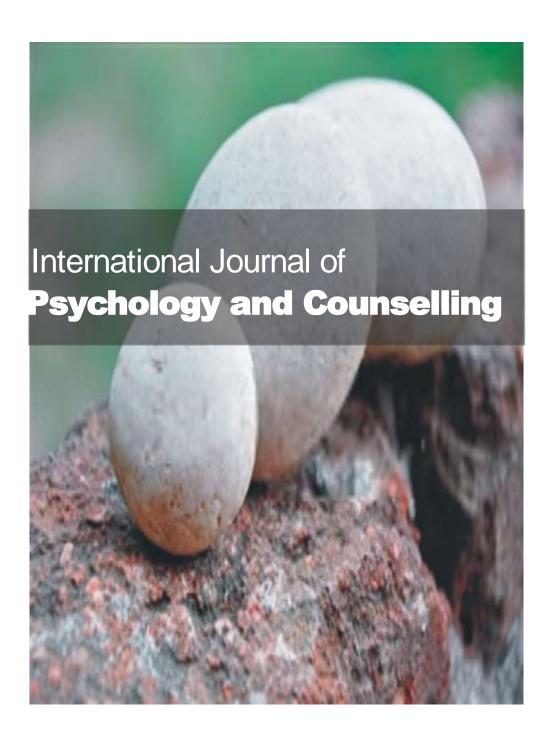
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Full Length Research Paper

Prevalence and associated factors of stress among undergraduate students in Ambo University: Implication for Intervention

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The study aims to assess the prevalence and associated factors of stress among Ambo University students. Institute based cross-sectional study was conducted on a sample of 343 undergraduate students at Ambo University. Data were collected using the Student-life Stress Inventory, Descriptive statistics, independent t-test, analysis of variance (ANOVA) and Pearson correlation coefficient were utilized to analyze the collected data using statistical package for social sciences (SPSS) version 20. The general life time prevalence of stress was 24.5%. More specifically, fear of academic failure, fear of family disappointment, lack of motivation and interpersonal relationship problem were highly reported symptom of stress students. Likewise, academic overload, projects or assignments timings, political situation of country, financial strain, high family expectations, study skill problem, being alone, procrastination, living away from home, difficulty reading materials, language barrier, acculturation, relationship with opposite sex, lack of entertainment in the University, lack of family support, inability to socialize with peers, adjustment with roommate, family problems, time management problem, and lack of personal interest in their department were frequently reported causes of stress in the University respectively. In this study, the independent t-test result shows that there was a statistically significant mean difference in experiencing stress across students' sex and residential area. Besides, ANOVA result revealed that year of study, students' perceived social support and perceived parenting style of the respondents had a significant effect on stress. However, statistical significant mean differences were not observed in experiencing stress across respondents' monthly family income. Also, a statistically significant negative and moderate relationship was reported between stress and academic achievement. Nearly one fourth of students were suffering from measureable stress. Therefore, Ambo University management shall strengthen the academic counseling and preventive mental health services for the students so as to provide a conducive learning environment.

Key words: Stress, undergraduate, students, Ambo University.

INTRODUCTION

Worldwide, universities are responsible for making sure that students have adequate knowledge and skill in their curriculum of lectures, simulations supervised practice, mentoring, and hands-on experience to boost individual skill-set. Unfortunately, some aspects of the training process have unintended negative consequences on students' physical and emotional health (Eva et al., 2015). The high societal expectations on students to

perform various undefined, inconsistent, and unachievable roles in the present socio-cultural, economic, and bureaucratic contexts of the society cause heavy stress on students (Lal, 2014). Studies revealed that students experience a relatively high level of personal distress with adverse consequences on academic performance, competency, professionalism, and health (Abdulghani et al., 2011; Abdulghani et al., 2014).

Naturally, everyone needs a certain amount of pressure to perform at their best. But when pressures exceed a person's ability to cope, the result is stress. Prolonged stress can set up distress and shut down the ability to cope with ordinary situations causing illnesses. Stress is the wear and tear our bodies experience as we adjust to our continually changing environment; it has physical and emotional effects and can create positive or negative influence on us. As a positive influence, stress can help to compel us for action. As a negative influence, it can result in feelings of distress, rejection, anger, and depression, which in turn can lead to health problems (Behere et al., 2011).

Stress is inevitable in human life, given the conflict between our needs and the realities of our environment and its relationships. Stress is common problem of every individual particularly for University students. These students are a special group of people that are enduring a critical transitory period in which they are going from adolescence to adulthood and can be one of the most stressful times in a person's life (Buchanan, 2012). For many undergraduate students, university life is a major transition in their lives since they are accorded the chance to decide what to do without the undue influence of their parents. Hence, the students make various decisions regarding all aspects of their lives such as academics, social life, and leisure activities (Baker, 2003). However, amidst the new found freedom students have to struggle to meet the expectations of their parents which include expectations related to their academic performance (Smith and Renk, 2007).

In addition, society believes that graduating from a high-ranking university is a passport to a good job, high salaries, and high social status (Leppink et al., 2016). As a result, the students are indirectly subjected to a variety of stressors mainly linked to academic success (Sreeramareddy et al., 2007). Attending university and embarking upon an academic career is a pleasurable and exciting experience for many people. For many students, however, the transition to university and pursuing academic career may prove far more stressful than exciting (Hystad et al., 2009).

University students encounter a great deal of academic, personal and social stress during their academic activities

(Kuruppuarachchi et al., 2012). Previous research demonstrated that undergraduate students significantly experience stress (Eva et al., 2015).

First-year university students were found to be particularly prone to high levels of stress (Yusoff et al., 2013; Abdallah and Gabr, 2014). Many students face culture shock as university life is different from school life. Kumar and Jejurkar (2005) concluded that academic factors were mainly responsible for a higher level of stress among undergraduate students. Although some degree of stress is essential to stimulate and motivate individuals to achieve their goals, stress can be a barrier for concentrating, problem solving, decision making, and other necessary abilities for students' learning (Ellawela and Fonseka, 2011).

Education in the university is generally perceived as being stressful. Due to this, the causes of stress have been studied in several studies (Robotham, 2008; Ong et al., 2009; Elizabeth, 2010; McCann et al., 2013). These finding illustrated that students were prone to stress due to the transitional nature of University life, feeling of loneliness, sleepiness, low social support, nervousness and worrying of their result, making new friends, adjusting to a new city, and many other unexpected changes. research also documented that management difficulty, financial matters, interaction with lecturers, personal subjective goals, adjustment problem in the academic culture and lack of support system were highly reported causes to experience high level of stress in the University (Wilks, 2008).

Along with this, Khan et al. (2013) also reported that admission process, high expectation of parents, unsuitable school timings, unbalanced student-teacher ratio, physical environment of classroom, unhealthy student teacher interaction, hard and fast rules of discipline, too many or complex assignments, teaching methodology, unconcerned teacher's attitude and overemphasis on weaknesses rather than acknowledging strengths were determinant factors for stress among university students. Stressors such as leaving home for the first time, writing academic papers, examinations and other requirements of academia are experienced as immensely stressful by many students (Robotham, 2008). For others, the sudden transition of the use of English language as a medium of instruction can also be a source of stress for students (Alginahi et al., 2009).

Stress is a key factor in the development of emotional difficulties and behavioral problems. Extreme stress often leads to serious health problems (Santrock, 2005). Beyond this, stress contributes to develop the feeling of depressions, anxiety, diabetes, asthma, ulcers and headaches. Furthermore, stress among students results

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in impaired judgments, absenteeism, self-medication, and addiction to substances such as khat chewing, cigarette smoking, and alcohol drinking (O'Rourke et al., 2010).

Various researches have been conducted on the prevalence of stress level among students. For instance, Muhamad (2013) found that the prevalence of stress in Malaysia medical students was 29.65%. Moreover, prevalence of stress in Saudi Arabia was 57% (Abdulghani, 2008). Additionally, the prevalence of stress among students was 41.9% in Malaysian (Sherina et al., 2004) and 61.4% in Thai (Saipanish, 2003). Another cross-sectional study conducted by Bayram and Bilgel (2008) on 1617 university students aged between 17 and 26 years in Turkey found depression, anxiety and moderate to severe stress levels of 27.1, 47.1 and 27%, respectively.

In many empirical studies, the effects of sociodemographic variables on stress level among university students have been studied in developed and developing country intensively. These studies revealed that sex (Sulaiman et al., 2009; Omoniyi and Ogunsanmi, 2012; Mazumdar et al., 2012; Sani et al., 2012; Sharma et al., 2011; Bhosale, 2014; Cheung et al., 2016), residential area (Tajularipin et al., 2009), year of study (Cheung et al., 2016), average monthly family income (Teh et al., 2015), students' perceived social support (Azila-Gbettor et al., 2015), and perceived parenting style (Tajularipin et. al., 2009) had a statistical significant effect on stress among undergraduate students.

Most noticeably, many researchers have attempted to assess the relationship between level of stress and academic achievement of the students (Elliot et al., 2005; Choi et al., 2007; Talib and Rehman, 2012). These study finding confirmed that high stress level were associated with low academic achievement. Studies over the years have also demonstrated that poor academic performance of student and stress was significantly correlated (Dusselier et al., 2005; Taylor and Owusi-Banahana, 2010; Sohail, 2013; Ahmed et al., 2013; Azila-Gbettor et al., 2015).

Regarding to the study area, Ambo University is located in Ambo town, the capital of West Shewa Zone of Oromia regional state. With a population of about fifty thousand, Ambo is situated only 112 km west of Addis Ababa. Ambo University, established in 1939, is one of the oldest higher learning institutions in Ethiopia. Currently, Ambo University runs three PhD programs, twenty six Masters Programs and fifty eighty Bachelor programs which are divided into nine colleges/institutes/ schools. Besides its main campus at Ambo, the University also has three campuses - Awaro, Guder and Woliso. In the years to come, the University has the vision of becoming one of the most prestigious universities in the country excelling in academics, research and community service giving its utmost attention to quality education. In 2016/17 academic year, total of 15,328 students were enrolled into all colleges/ institutes/schools in which the educational wastage rate

was 3.2%.

In Ambo university, there is no structured and strengthened counseling service for students although many students have reported various stress symptoms. At this point, it is important to examine psychiatric morbidity among university students, since most life-time mental disorders have their first onset typically when subjects are at university. Stress has harmful effects on both individual and society. They can lead to negative outcomes, such as impaired normal functioning, burnout, and health problems. Undergraduate students in Ethiopia are not excluded in this situation.

The current study recognizes that stress is a serious issue that permeates university life and can have devastating effects. The research was developed from an interaction with students during the teaching/learning process and the observation that some were visibly suffering from stress. As far as the knowledge of the researchers is concerned, there were a few multicentre studies on stress among Ethiopian University students.

Hence, previous research investigating students' stress in Ambo University proved limited although most students have visited the university's counseling service to obtain the psychological service for their stress. This study was done with the intention to provide baseline data not only for intervention and for future studies but also for Ethiopia authority to take initiative to safeguard the wellbeing of the future professional in various field of study. Here, lack of enough attention to this problem of students can result in the long-term prevalence of this psychological disorder. For this reason, the purpose of the present study was to assess the prevalence and determinant factors of Stress among Ambo University students to address the significant gap. For this reason, this study was intended to address the following basic research questions:

- (1) What is the prevalence of stress among students in Ambo University?
- (2) What are the determinant factors for stress among students in Ambo University?
- (3) Is there any a statistically significant mean difference in experiencing stress across socio-demographic characteristics of student?
- (4) Is there any a significant relationship between experiencing stress and student's academic achievement?

MATERIALS AND METHODS

Study design

The purpose of the present study was to assess the prevalence and determinant factors of stress among Ambo university students. To achieve this purpose, institution based cross sectional survey research design was employed.

Sampling and sample size determination

The target population of this study was Ambo University

Undergraduate students. According to Ambo University main registrar, 15,328 students were enrolled in 4 campus in 2015/16 academic year. Specifically, 5726 students were enrolled in Ambo main campus; 5942, 1794 and 1866 students were enrolled in Awaro, Guder and Wolliso campus respectively. Following that, 9 students were randomly selected from 58 departments. Finally, a pool of 403 students from 9 college/institute/schools was included in the study. However, among the 403 distributed questionnaires, data collectors could collect 343 properly filled questionnaires. The rest 60 questionnaires were discarded for incompleteness. Due to this, the study analysis was done based on the response of 343 study participants. Simple random sampling was used to recruit students from each college/institute/schools.

Variables

The dependent variables of this study were students' stress and academic achievement. The primary independent variables were students' socio-demographic characteristics including sex, age, residential area, perceived social support, monthly income of the family and perceived parenting style.

Data collection instruments

Apart from self -developed unstructured and semi structured interview and document analysis, pre-established standardized questionnaires were used. Ultimately, the questionnaire has four sections where the first section collects data on students' socio-demographic characteristics. This includes sex, age, residential area, perceived social support, monthly income of the family and perceived parenting style. The second section of the questionnaire was adapted from Student-life Stress Inventory (SSI) which was developed by Gadzella (1991).

SSI was designed to assess the students' perceived academic stress and reactions to stress. There are 51 items arranged on a Likert response format (1=never true to 5=always true) that assessed five categories of academic stressors (frustrations, conflicts, pressures, changes, and self-imposed), and four categories describing reactions to stressors (physiological, emotional, behavioral, and cognitive). The items were summed for each subsection to get a total score in all nine categories. A higher score was indicative of greater stress and reactions to stress. Internal consistency estimates ranged from 0.69 to 0.82 on the nine categories of stress (Misra and McKean, 2000). The original rating scale was highly adapted into 30 items for measuring stress among students. The third section collects qualitative data through selfdeveloped interview and FGD questions. Finally, data on academic achievement were collected. To measure undergraduate students' academic achievement, Grade Point Average (GPAs) of students in their year (s) of study in University in the previous semester was referred in 2016/17 academic year.

To test the reliability and validity, the pilot study was conducted on 60 Undergraduate University College students. Before collecting the final data, the tools were translated into Amharic and Afan Oromo language. Content validity of the English, Amharic and Afan Oromo language version was assessed by three counseling psychologists from Ambo University. The translation consistency of the instrument was also examined by three language experts from Ambo University. Based on the comments and suggestions of the experts, changes were made in wording of four stress items on Afan Oromo version of the tool. In the pilot study, the reliabilities of the tools were found to be 0.916 for Student-life Stress Inventory.

Data collection procedures

The data were collected by administering the scale in a group to the

student participants. The respondents were instructed to complete the scale by giving a response to every item of scale. To collect the data for the study, four supervisors were dispatched in which one supervisor for each study site were assigned. The role of supervisors was to train data collectors, oversee participant recruitment and data collection and checking and controlling data quality. A total of 20 data collectors (five for each campus) with at least a diploma level training mainly in the social sciences were recruited. Half-day training was provided for the data collectors on the purpose of the study, the contents of the data collection instruments, ethical matters, and on how to recruit and approach participants. The data- collection process was closely followed-up by the supervisors.

Data analysis

The collected data were analyzed descriptively to determine respondents' stress level and the source(s) of stress. Descriptive statistics (percentages, cross-tabulations, mean and standard deviation) and inferential statistics (independent sample t- test, Pearson correlation coefficient, and ANOVA) were used to see the effect of socio-demographic variables on students' stress level. Correspondingly, the qualitative data were also analyzed. All data were analyzed using Statistical Package for Social Science (SPSS) for window version 20.

Ethical considerations

Oral as well as written informed consent was secured from the respondents. In addition, written permission was obtained from the respective officials of the institutions and organizations where the respondents were recruited based on an official request letter issued by Ambo University.

RESULT

Demographic characteristic of the respondents

As can be presented from Table 1, out of the total three hundred forty three students, 190 (55.4%) were males and 153 (44.6%) were females. Besides, the mean age of students was 20.22 (SD = 1.411) where the minimum and maximum ages were 18 and 25 respectively. Regarding to students' year of study in the University, of all the respondents, almost 120 (35%) were first year; 69 (20.1%) were second year; 84 (35.5%) were third year; 42(12.2%) were fourth year and 28 (8.2%) were fifth year students. With regard to the residential area of respondents, 125 (36.4%) were from urban and 218 (63.6%) were from rural area. Hence, the students perceived that parents' support their children in different level. Accordingly, 120 (35.0%), 114 (33.2%), 60 (17.5%) and 49 (14.5%) of respondents perceived that they had good social support, no social support, a little bit social support, and very good social support respectively. Moreover this, with regard to students' parent income, 130 (37.9%) of students' parent monthly income were considered as lower income group. Majority of them 171 (49.9%) were perceived as middle-income groups followed by 42 (12.2 %) higher income groups.

Demographic variable	Categories		Frequency	Percentage (%)	
	Male		190	55.4	
Sex	Female		153	44.6	
Age	Mean	SD	Minimum	Maximum	
- 19	20.22 1.411		18	25	
	1st year		120	35	
	2nd year		69	20.1	
Year of study	3rd year		84	24.5	
	4th year		42	12.2	
	5th year		28	8.2	
Residential area	Urban		125	36.4	
r toolaorillar aroa	Rural		218	63.6	
	No social suppo	ort	114	33.2	
Perceived social support	A little bit social	support	60	17.5	
Perceived social support	Good social sup	port	120	35.0	
	Very Good soci	al Support	49	14.3	
	Lower (less that	n 1999 birr)	130	37.9	
Monthly income of the family	Middle (2000-50	000 birr)	171	49.9	
	Higher (greater	than 5001birr)	42	12.2	

Table 1. Socio-demographic characteristic of the respondents.

General prevalence of stress among undergraduate students in Ambo University

As can be shown from Table 2, out of 343 respondents, 71(20.7%), 118 (34.4%), 70 (20.4%), and 84 (24.5%) of students had found to be minimal, mild, moderate and severe level of stress respectively. For this reason, the general lifetime prevalence of stress was 24.5%. More specifically, fear of academic failure, fear of family disappointment on the result of students, lack of motivation and personal relationship were highly reported symptom of stress among Ambo University students. According to crosstab result, even higher prevalence of stress were found among students who came from rural area, students with authoritarian parenting style, students with no perceived social support, first year and female students.

Determinant factors for stress among students in the university

In this study, among 343 respondents, most of them reported many determinant factors that trigger students' level of stress. List of reasons: academic overload (90.3%), projects or assignments timings and deadlines (88.3%), political situation of country (87.4%), financial

strain (86.8%), high family expectations (84.2%), study (83.9%), problem being alone (82.2%),procrastination (79.3%), living away from home (78.7%), difficulty reading materials (76%), language barrier (63.6%), acculturation (55.4%), relationship with opposite sex (49.9%), lack of entertainment in the University (46.6%), lack of family support (42.2%), difficulty with the journey back home (37.9%), inability to socialize with peers (35%), adjustment with roommate (31.3%), family problems (30.6%), time management problem (24.5%), and lack of personal interest in their department (20.1%) were frequently reported source of stress among University students respectively.

Comparisons of Stress among Students across Sex and Residential Area

As can be verified from Table 3, there is a statistically significant mean difference in experiencing stress among male and female students (t (341) = -4.134, P< 0.05). Here, the mean score of stress for female students (M=82.09, SD=19.25) was higher than male students (M=74.28, SD=15.75). This implies that females were highly vulnerable than male students for stress. Moreover, the result of independent t-test indicate that there was a statistically significant mean difference in

Variable	Category	Frequency	Percentage (%)
	Minimal stress (30-49 Score)	71	20.7
Stress level	Mild stress (50-80 Score)	118	34.4
	Moderate stress (81-105 Score)	70	20.4
	Severe stress (106-150 Score)	84	24.5

Table 2. Prevalence of stress among undergraduate students.

Table 3. Comparisons of stress across students' sex and residential area.

Variable	Category	N	М	SD	t-test	p-value
Sex	Male	190	74.28	15.75	-4.134	0.000
Sex	Female	153	82.09	19.25	-4.134	0.000
Desident area	Urban	125	61.54	10.382	17 CEC	0.000
Resident area	Rural	218	87.07	14.121	-17.656	0.000

experiencing stress among students whose residential area were urban and rural (t(341) = -17.656, p<0.05).

Also, the mean score of stress disorder for students whose residential area were rural (M=87.07, SD=14.121) was higher than students whose residential area were urban (M=61.54, SD=10.382).

Comparisons of students' stress level across year of study, perceived social support, income of the family and perceived parenting style

As can be seen from Table 4, the mean stress score of first year students (M=93.76, SD=15.84) was higher than second year (M=77.63, SD=17.13), forth year (M=76.48, SD=15.67), fifth year (M=76, SD=11.01) and third year students (M=72.30, SD=19.67). The difference was a statistically significant (F (4, 337) =12.052, p < 0.05). Furthermore, the Bonferroni post hoc multiple comparisons result shows that first year students reported highly significant mean difference on stress symptoms as compared to second year (p < 0.05), third year (p < 0.05), forth year (p < 0.05) and fifth year students had no mean difference on stress as compared to third year (p > 0.05) and fifth year students (p > 0.05).

As it is shown from Table 4, statistical significant mean differences were not observed in experiencing stress across respondents' monthly family income (F (2, 340) =3.423, p>0.05). However, the mean stress score of respondents with middle family income (M=80.14, SD=18.17) was higher than respondents with lower monthly family income (M=76.21, SD=17.73) and respondents with higher family income (M=73.31, SD=15.43). Moreover, students' perceived social support had significant effect on students' stress symptoms (F (3,

338) =100.659, p < 0.05). Furthermore, Bonferroni post hoc multiple comparisons revealed that respondents with no perceived social support demonstrated significant mean difference on stress as compared with respondents with a little bit (p < 0.05), good (p < 0.05) and very good(p < 0.05) social support. The mean stress score of respondents with no perceived social support (M=94.78, SD=11.48) was higher than respondents with a little bit social support (M=77.63, SD=9.02), very good social support (M=68.73, SD=16.77) and good social support (M=67.21, SD=12.71).

Additionally, a statistical significant mean differences were observed on perceived parenting style of the respondents in experiencing stress symptoms (F (3, 339) = 45.881, p < 0.05). To investigate further, the Bonferroni post hoc multiple comparisons result shows that respondents with authoritative parenting style reported highly significant mean difference on stress symptoms as compared to respondents with permissive (p < 0.05) and negligent (p < 0.05) parenting style. On the other hand, respondents with authoritarian parenting style had no mean difference on stress as compared to respondents with permissive (p > 0.05) and negligent (p > 0.05) parenting style. The mean stress score of respondents with authoritarian parents (M=86.56, SD=15.61) was higher than respondents with negligent parents (M=83.51, SD=16.45), permissive parents (M=81.19, SD=12.77) and authoritative parenting style (M=64.69, SD=15.47).

Correlations between stress and academic achievement

Table 5 shows us that stress was shown to be significantly correlated to academic achievement (r = -

Table 4. ANOVA result of students'	stress based on year of study,	y, perceived social support, income of the family and
perceived parenting style.		

Variable	Category	N	М	SD	F	p-value
	1st Year	120	93.76	15.84		
	2nd Year	69	77.63	17.13		
Year of study	3rd Year	84	72.30	19.67	12.052	.000
	4th Year	42	76.48	15.67		
	5th Year	28	76.00	11.01		
A	Lower (less than 1999 ETB)	131	76.21	17.73		
Average family monthly income	Middle (2000-5000 ETB)	168	80.14	18.17	3.423	0.340
	Higher (greater than 5000 ETB)	44	73.31	15.43		
	No social support	114	94.78	11.48		
Developed assistances	A little bit social support	60	77.63	9.02	400.050	0.000
Perceived social support	Good social support	120	67.21	12.71	100.659	0.000
	Very Good social Support	49	68.73	16.77		
	Negligent	29	83.51	16.45		
	Permissive	73	81.19	12.77	45.004	0.000
Perceived parenting style	Authoritarian	125	86.56	15.61	45.881	
	Authoritative	116	64.69	15.47		

Table 5. Correlation between stress and academic achievement of respondents.

Variable		Academic achievement
Stress level	Pearson correlation	-0.694**
	Sig. (2-tailed)	0.000
	N	343

0.694, p < 0.05). The relationship between stress and academic achievement was negative and moderate. This result indicates that when the students' level of stress increases, their academic achievement declines.

DISCUSSION

Stress is a state of an individual that result from the interaction of the individual with the environment which is perceived as threatening or threat to the well-being. This study aimed to investigate the prevalence and determinant factors of stress among Ambo University students. The finding of the present study shows that the general lifetime prevalence of stress was 24.5%. This finding was pertinent with a research conducted by Melaku et al. (2015) who found that the prevalence of stress in Ethiopia medical students was 52.4%. This result was also in accordance with what was reported by Abdulghani (2008) who found that the prevalence of

stress in Saudi Arabia was 57%. Additionally, the prevalence of stress among students was 41.9% in Malaysian (Sherina et al., 2004) and 61.4% in Thai (Saipanish, 2003). Another cross-sectional study conducted by Bayram and Bilgel (2008) on 1617 university students aged between 17 and 26 years in Turkey found that stress levels was 27%. This variation has been explained to be due to cultural differences, differences in the healthcare system, and differences in the population and the tools used in the study.

The finding of the existing study revealed that academic overload, projects or assignments timings and deadlines, political situation of country, financial strain, high family expectations, study skill problem, being alone, procrastination, living away from home, difficulty reading materials, language barrier, acculturation, relationship with opposite sex, lack of entertainment in the University, lack of family support, difficulty with the journey back home, inability to socialize with peers, adjustment with roommate, family problems, time management problem,

and lack of personal interest in their department were frequently reported causes of stress in the University respectively. These findings agree with the outcome of other studies (Robotham, 2008; Ong et al., 2009; Elizabeth, 2010; McCann et al., 2013).

These finding illustrated that college students were prone to stress due to the transitional nature of College/University life, feeling of loneliness, sleepiness, low social support, nervousness and worrying of their result, making new friends, adjusting to a new city, and many other unexpected changes. Along with this, Khan, Altaf and Kausar (2013) also reported that admission process, high expectation of parents, unsuitable school timings, unbalanced student-teacher ratio, physical environment of classroom, unhealthy student teacher interaction, hard and fast rules of discipline, too many or complex assignments, teaching methodology, unconcerned teacher's attitude and overemphasis on weaknesses rather than acknowledging strengths were determinant factors for stress among University students.

In this study, there was a statistically significant mean difference in experiencing stress among male and female students. Hence, the mean score of stress for females was higher than male students. This result was supported with that of (Sulaiman et al., 2009; Cheung et al., 2016) who found that male and female students differ in experiencing stress. Other notable studies revealed that significant difference were observed between male and female on level of stress among University students (Mazumdar et al., 2012; Sani et al., 2012; Sharma et al., 2011).

Furthermore, female students were more prone to higher academic stress than their male counterparts (Rayle and Chung, 2008; Bang, 2009). However, this finding was inconsistent with the previous study of Chen et al, (2009) who found that male students reported higher level of stress and worse psychological well-being. Contradicted with the present finding, Watson (2002), Omoniyi and Ogunsanmi, (2012) and Bhosale (2014) also claimed that no significant differences were observed between male and female on academic stress. The inconsistent data about gender difference were most likely explained by biological as well as socio-cultural factors.

Moreover, the result of this study depicted that the mean score of stress for students whose residential area were rural was higher than students whose residential area were urban. The mean difference is also statistically significant. This result was consistent with a study conducted by Tajularipin et al. (2009) who found that there is a significant difference between students in rural and urban secondary schools in the level of stress.

In the present study, the mean stress score of first year students was higher than second year, forth year, fifth year, and third year students. The difference was a statistically significant. The highest prevalence of stress was observed in first year students. This was because

first year students started living in a new environment away from their family. This finding was in agreement with results of various studies (Yusoff et al., 2011; Yusoff et al., 2010; Rahman et al., 2015; Rahman et al., 2013). The finding of first-year undergraduate students having high stress level contradicts with the past research conducted by Habibah et al. (2011) who found that the final-year students were found to be the most stressful group among the undergraduate students. The possible explanations could be due to gradual adjustment to the learning environment and usually low failure rates in later years of the courses.

The finding shows that statistical significant mean differences were not observed in experiencing stress across respondents' monthly family income. However, the mean stress score of respondents with middle family income was higher than respondents with lower and higher monthly family income. This result was contradicted with a study of Teh et al. (2015) who found that there are significant associations between family income per-month with stress. Besides, Atalla and Altuwairqi (2017) also claimed that there was a significant relation between stress and average family monthly income.

Furthermore, the finding of the present study revealed that students' perceived social support had a significant effect on stress. Hence, students with no perceived social support demonstrated a significantly higher level of stress. This finding was similar with that of Cohen and Wills (1985) and Azila-Gbettor et al. (2015) who found that social support was found to buffer stress. Along with this, Solberg (1997) clarified that perceived social support moderates the relationship between stress and distress and those who had higher perception of social support had lower distress rating.

Furthermore, Cohen (1988), Eckenrode and Wethington (1990), Coyne and Downey (1991) and Deihl et al. (1997) disclosed that parental social support has been correlated with level of stress among students. This finding reveled that a statistically significant mean differences were observed in experiencing stress across perceived parenting style of the respondents. The mean stress score of respondents with authoritarian parents was higher than respondents with negligent, permissive and authoritative parenting style. The result was consistent with Tajularipin et al. (2009) who found that parenting style was factors that influence students' stress.

In the present study, there was a significant association between stress and students' academic achievement, but with negative correlation, indicating that when the level of stress increases, academic performance decreases which supports findings from previous study of Elliot et al. (2005), Choi et al. (2007) and Talib et al. (2012) who found that stress affects students' academic achievement. Hence, studies over the years have demonstrated that poor academic performance of student and stress was significantly correlated (Wombie, 2005; Dusselier et al.,

2005; Taylor and Owusi-Banahana, 2010; Sohail, 2013; Ahmed et al., 2013; Azila-Gbettor et al., 2015). However, this study finding was contradicted with various study findings (Choi et al., 2007; Habibah et al., 2011; Rafidah et al., 2009). These findings reported that the relationship between stress and academic achievement was negative and weak (r = -0.195). In line with this, a previous study conducted by Siraj et al. (2014) shows that respondents with high and severe stress level were observed to have higher cumulative grade point average (CGPA).

Conclusion

In this study, the general life time prevalence of stress was 24.5%. More specifically, fear of academic failure, fear of family disappointment on the result of students, lack of motivation and personal relationship were highly reported symptom of stress among Ambo University students. According to crosstab result, even higher prevalence of stress were found among students who came from rural area, students with authoritarian parenting style, students with no perceived social support, first year and female students. Likewise, academic overload, projects or assignments timings and deadlines, political situation of country, financial strain, high family expectations. study skill problem, being alone, procrastination, living away from home, difficulty reading materials, language barrier, acculturation, relationship with opposite sex, lack of entertainment in the university, lack of family support, difficulty with the journey back home, inability to socialize with peers, adjustment with roommate, family problems, time management problem, and lack of personal interest in their department were frequently reported causes of stress in the University respectively.

In this study, there was a statistically significant mean difference in experiencing stress across sex and residential area of students. Besides, the result of this study shows that year of study, students' perceived social support, and perceived parenting style of the respondents had significant effect on stress level of students. However, statistical significant mean differences were not observed on respondents' monthly family income in experiencing stress.

Finally, statistically significant negative and moderate relationships were observed between stress and academic achievement. These results that have several implications can be taken in consideration by administrators and academicians of the University in academic institutions to prevent mental illness or promote mental health among their students. There is no doubt that mental illness among university student ends with negative consequences on individual, family, and community. For instance, students with untreated stress are at high risk to harming themselves or others, dropping their educational programs, raising unemployment rate, and leading to extra burden on the families and society.

RECOMMENDATION

Based on the result of the study, the following recommendations shall be implemented by responsible stakeholders of the University. Counseling and preventive mental health services should be an essential part of the routine investigation of students. Along with this, actions should be taken to encourage the students to seek help exposure to distress. Thus, administrators. academicians, and healthcare providers of the university can play a significant role in developing collaborative, multidimensional, and culturally sensitive preventive mental health programs to create a helpful academic context that promotes students' psychosocial wellbeing, improves their productivity, and enhances their success. To avoid the source of stress, the University management should be flexible in order to give attention for the interest of their students and not to make too much boring and tighten academic schedules. Also, mental health professionals like psychologists, social workers and psychiatrists shall give consecutive training on life skill, stress management, and adaptive coping mechanism.

LIMITATION AND FUTURE IMPLICATION

In conducting this study, the usage of a structured instrument, trained data collectors, and supervisors to collect data from randomly selected students decreases the likelihood of the occurrence of bias in the study. However, although the Amharic and Afan Oromo version of the instrument had revealed good reliability and feasibility, it was too hard to be quite sure that the translated tool retained their original psychometric properties in different cultural backgrounds of the study sites. Likewise, the researchers could not discuss this study finding with similar locally available study results. Due to this, it is difficult to generalize to other contexts. In line with this, further investigation would be recommended on the relationship between stress and depression, anxiety disorder, and substance abuse disorder among undergraduate University students.

CONFLICT OF INTERESTS

The authors have not declared any conflict of interests.

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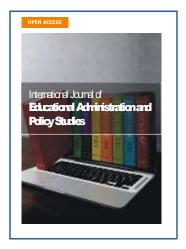
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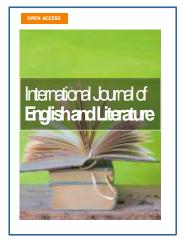
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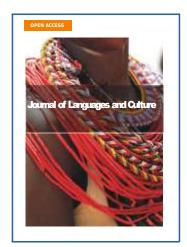
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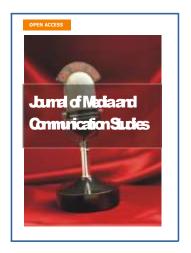


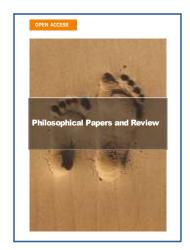
















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