Explanatory Models for Mental Distress Among University Students in Ethiopia: A Qualitative Study

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Background: Socio-culturally determined processes account for how individuals give meanings to health, illness, causal attributions, expectations from treatment, and related outcomes. There is limited evidence of explanatory models for mental distress among higher education institutions in Ethiopia. The objective of this study was to explore the explanatory models for mental distress among Wolaita Sodo University.

Methods: The current study used a phenomenological research approach, and we collected data from 21 students. The participants were purposively recruited based on eligibility criteria. Semi-structured interviews were conducted from December 2017 to January 2018 using the Short Explanatory Models Interview. The interviews were audio-recorded, transcribed into the Amharic language and translated into English. Data were analyzed using framework analysis with the assistance of open code software 4.02.

Results: Most students experienced symptoms of being anxious, fatigue, headaches and feelings of hopelessness. They labeled these symptoms like anxiety or stress. The most commonly reported causal explanations were psychosocial factors. Students perceived that their anxiety or stress was severe that mainly affected their mind, which in turn impacted their interactions with others, academic result, emotions and motivation to study. Almost all the students received care from informal sources, although they wanted to receive care from mental health professionals. They managed their mental distress using positive as well as negative coping strategies.

Conclusion: The policy implication of our findings is that mental health interventions in higher education institutions in Ethiopia should take into account the explanatory models of students' psychological distress.

Keywords: explanatory models, mental distress, university students, Ethiopia

Introduction

University students experience mental distress (anxiety and depression) more frequently as compared with the general population.¹ This could in part be attributed to their youth making them more vulnerable to mental distress, academic pressure within university, the stress and strangeness of being away from home for the first time, new peer relationships, and lower social support.¹⁻³ However, most of these students do not access professional mental health services,⁴ perhaps because local explanatory models of suffering prevail and resonate more strongly than formal western biomedical understandings of mental distress.^{5,6}

Explanatory models describe the way people with mental distress conceptualize their distress, explanations they give for causes, the modes of expression of distress, how they rate the severity of the problem, its onset, help-seeking behavior, coping

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Received: 14 September 2021
Accepted: 12 November 2021
Published: 27 November 2021

mechanisms, treatment preference, and the adverse consequences of their distress.⁷ Explanatory models of mental distress are not static entities; they are fluid and multi-layered that are caused by cultural and life experiences of patients.⁸ Students worldwide do not conceptualize mental distress based on biomedical models⁸ because of cultural belief and social contexts.⁹ Culture is a lens through which people perceive and interpret their world.¹⁰ Therefore, the complex cultural explanations available to students are inevitable form and influence how they understand their psychological distress and its causes.^{9,11}

University students find it difficult to recognize symptoms of anxiety as mental distress when compared with depression, which they more readily concede as distressing. They experience symptoms of anxiety as feeling nervous, and feeling of apprehension in their day-to-day activities, as a normal and to be expected.¹² However, they recognize symptoms of depression like sleeping difficulties, aggression, headaches, poor concentration, feeling sad, feeling down, feeling lonely, and hopeless.^{12–17} They attribute their distress to grief, parental divorce, interactional difficulties, family history of mental illness, feelings of loneliness and isolation, school work, economic problem, time management, parental expectations, and negative life events.^{13,18,19} Altogether, these causal factors can determine the help-seeking behavior of students and the impacts of mental distress.

Previous studies in Ethiopia have found most students are interested in using professional mental health care.²⁰ However, a number of them do not receive mental health care despite its availability.²¹ A significant number of these students receive help from informal sources, such as family, friends, relatives, herbalists, and religious leaders.²² As well, the coping styles of students can be more or less helpful in managing their distress. An increase in severity of mental distress and lack of access to professional mental health care are associated with adverse effect on students' academic achievement, physical health, emotion, self-esteem, social relationships, cognitive development, and their overall quality of life.^{13,16,23–26}

In previous qualitative studies, adolescents used several coping strategies to manage mental distress.^{13,17,26} These include: support-seeking from others, social isolation, problem-solving, distraction, changing negative thoughts, acceptance, minimization, redirecting of aggression into a powerless substitute target, emotional discharge, positive appraisal, trying to forget uncomfortable

feelings and thoughts, leaving a distressing situation, crying, self-harm behavior, suicide attempts, violence, prayer, listening to music, and substance use.^{13,17,26–29} Students also use meditation, telling oneself that everything will be “okay”, doing physical exercise, eating more, sleeping less, procrastination, and increased use of internet as a coping mechanisms from mental distress.^{30,31}

Despite the existence of a few studies exploring explanatory models for mental distress in the general population, to the best of our knowledge, there is no published study that explored the explanatory models for mental distress among university students in Africa. We believe that taking into account the explanatory models of mental distress among university students in low- and middle-income countries (LMICs) is one pre-condition to sustainably tackle the alarming increase in anxiety and depression.² Our study aimed to investigate the explanatory models for mental distress used by undergraduate students at Wolaita Sodo University.

Materials and Methods

Study Setting and Context

We carried out the current study at Wolaita Sodo University, which is one of the public Ethiopian universities located in Wolaita Sodo town of Wolaita zone, Southern Nations, Nationalities and People Regional State. This zone hosts multi-ethnic people that live harmoniously together. The societies in this zone are composed of 200 clans, and similar clans do not marry each other.³² It is the most densely populated area in Ethiopia. Wolaita zone covers a total area of 4541 km² with an estimated population of 1,527,908, of whom 752,668 are males and 775,240 are females.³³ Wolaita zone has 12 districts and three towns that are structured for administrative purpose. Wolaita Sodo is the capital town and economic and political center of the zone located 320 km south of Addis Ababa through Butajira. The main source of livelihood for the majority of city dwellers is trade, whereas agriculture is the main economic source for the rural people. The majority of the people are Evangelical Protestant Christians.

Wolaita Sodo University was established in 2007 G. C. and began its work with an intake of 801 students (609 male and 192 female) in four faculties and sixteen departments. It now has undergraduate and graduate programs in six colleges and five schools with more than 1300 academic staff and 2500 support staff. At the time of data collection, the University had 7321 male and 4707 female

registered under graduate students. Dedicated to providing quality education, Wolaita Sodo University has been fully engaged in conducting research and delivering community services.

The university has health service facilities, including four full-time counselors (psychologists at Master's and Bachelor's degree level) with four counseling offices established to provide free counseling services for students with mental health and psychosocial problems. Three of the counselors are male and one is female. The University has also established a new center called "the mental health and psychosocial support for university students" designed to help students with Corona-virus-related issues. Apart from this, WSU has a referral teaching hospital (named the Otona hospital) that provides health care services, including outpatient and inpatient psychiatric care for the surrounding community and the students. The University has a students' clinic that provides healthcare services for students and works closely with the students' counseling offices. This clinic has a referral system with the Otona hospital for students with severe physical and mental illnesses.

Although the University has healthcare facilities, the majority (70.5%) of students with mental health problems did not receive professional mental healthcare.²¹ This is due to barriers associated with: (i) thinking the problem would get better with no intervention; (ii) preferring self-medication; (iii) denying a mental health problem existed; (iv) preferring to get alternative forms of mental care (religious leaders, friends, families, traditional healers, relatives, etc.); and (v) lack of information about the counseling offices in the university.²¹ Near the university, there are churches and mosques, where both Christian and Muslim students pray to their God or Allah, respectively; such practice might foster their religious coping mechanism from mental distress. On the contrary, there are shops and hotels that sell Khat, cigarettes, and alcohol without any restriction. Students can easily access these psychoactive drugs from the surrounding environment, although the WSU does not allow them to use these substances within its compound. The accessibility of psychoactive drugs near the university might create a conducive environment for mentally distressed students to use them as a coping strategy. See [Figure 1](#) below.

Study Design

Interpretive phenomenological research design was employed to explore the meaning of lived experiences of

students toward conceptualization, perceived symptoms and causes, help-seeking behavior, severity, onset pattern, coping mechanisms, and impacts of mental distress.³⁴ Constructivism philosophical perspective that favors the "emic" or insider (as opposed to the "etic" or outsider observation) approach was used to guide this study based on the idea that mentally distressed students have their understanding of their mental distress³⁵ that was derived from perceptions, experiences and actions concerning social contexts.³⁶

Participants

The study participants were regular undergraduate university students who were pursuing their education at WSU. They were from different departments with a - university year duration ranging from I–V. The participants were diversified in terms of culture, religion, area of origin, sex, marital status, and ethnicity. They were economically dependent on their family income. All participants were assessed positive to mental distress in our previous published study aimed to study the prevalence of mental distress,²¹ and they have received counseling service with close follow-up at Wolaita Sodo University counseling office given by the principal author of this study who has a Bachelor's degree in Psychology, a Master's degree in Counseling Psychology, has two years of counseling experience in the WSU counseling office and has attended the theoretical and practical training of IPT-E given by the manual adaptors.

Data Collection Instruments

Demographic information of the participants, including sex, age, religion, ethnicity, marital status, current place of living, origin, university year, and monthly pocket money, were collected. Mental distress was assessed using SRQ-20.³⁷ SRQ-20 is a twenty yes/no item screening tool, which is widely used in LMICs to determine mental distress²¹ and it has been validated for use amongst the Ethiopian population.^{38,39} In the present study, a cut-off point of ≥ 8 on SRQ-20 was used to screen students with mental distress based on a previous validation study in Ethiopia.³⁹ SRQ-20 is available in our previously published study.²¹

The explanatory models for mental distress were explored using SEMI, which was developed from Kleinman's original concept.⁷ This instrument has been translated into different languages to explore the "emic"

Figure 1 Geographical location of the study area.

perspective of distress using semi-structured open-ended questions.^{40,41} SEMI is a simple brief instrument. Furthermore, it consists of non-technical words, easily translated, and any interviewer from any background can administer it after receiving training to use it.⁴² According to Azale et al,⁴³ SEMI was adapted to an Ethiopian context by an expert consensus meeting involving mental health professionals and qualitative researchers. It has seven sections that cover perceived symptoms, conceptualization, perceived causes, perceived severity, impacts, help-seeking behaviors, and coping mechanisms of mental distress. The face-to-face interview was conducted in Amharic language by the principal author in a private and well-ventilated students' counseling room of Wolaita Sodo University. The participants were encouraged to talk openly about their experiences. Probing was done to further elicit and explore ideas of mental distress. The interviews were audio-recorded with consent. The average

duration of the 21 interviews was 42 minutes ranging from 21 to 118 minutes.

Sampling Procedures

The study participants were recruited from study one that aimed to assess the prevalence of mental distress among university students,²¹ which was conducted from December 2017 to January 2018. In the screening phase of the prevalence study, participants were informed that if they experience any symptoms of mental distress and volunteer to receive professional psychological support, they can write their phone number in the middle page of Self-Reporting Questionnaire (SRQ-20) or they can contact the first author of this article in person. In this process, 29 volunteer students wrote their cell phone number. Of these, 21 (72.4%) students were contacted using their cell phone and following written consent; they voluntarily participated in the interview. The eligibility criteria for

the current study were: being undergraduate student; scoring 8 or more on SRQ-20; willingness to participate in the study; and 18 years or older. The remaining eight students did not answer their phones when they were called. Redundancy of answers to the Short Explanatory Model Interview (SEMI) was an indicator of information saturation, indicating that the maximum number of participants was sufficient for the present qualitative study.⁴⁴

Data Analysis

The audio taped interviews were transcribed into Amharic. The transcribed data were translated into the English language by the first author (AN). Framework analysis was chosen over the other qualitative analysis methods.⁴⁵ This analysis method emphasizes how both prior issues and emergent data-driven themes should guide the development of the analytic framework.⁴⁶ This approach fits better with the aim of the current study. The predetermined themes in the SEMI are designed to explore the lived experiences of university students with mental distress, and we were open to discovering new emerging theme/s. The other justification for the use of framework analysis is that it is suitable for the analysis of our data generated based on the basic research question, “what are university students’ explanatory models for mental distress?” and compatible with the interpretive phenomenological research design.

In the process of using the framework analysis, we followed five sequential steps. These steps were as follows: immersing one’s self with the audio-recorded interviews (listening carefully) and transcribing the data by reading again and again (familiarization), identifying a framework, indexing (coding), charting (summarizing), and interpreting the result.⁴⁶ Great attention was given during coding of the data because the coded information should capture the meaning of what the participants exactly said. To ensure this, five translated interviews were coded by the first author and another experienced qualitative researcher independently to check inter-rater coding reliability that resulted in almost similar codes. The first author then coded all the remaining interviews alone. Predetermined themes were identified. We have used a free open code version 4.02⁴⁷ to facilitate the analysis that enabled us to manage data.

Trustworthiness

Rigor in a qualitative research is highly related to the trustworthiness of the work done in a specific study that

includes credibility, dependability, conformability, and transferability.⁴⁸ To ensure the credibility of our work the following were done: (a) what we did: the data collection instrument was carefully designed to elicit and generate data; (b) prolonged familiarization with the data was passed through steps of interviewing, transcribing, and translation; and (c) five randomly selected translations were coded by the principal author of this article and one expert who knew the subject matter of the study so as to ensure the accuracy of the codes. The whole process and the tasks performed in the present study were supervised and reviewed by senior co-authors of this study (MA, MK, GM, DW, and CP) to confirm the dependability and conformability of the current study. All the necessary files are available and indicate the transferability of our study findings to other settings.

Results

Information collected from 21 study participants was analyzed, and the key findings were elaborated under seven themes that include: (a) perceived symptoms, (b) conceptualization of mental distress, (c) perceived causes, (d) perceived severity, (e) impacts, (f) help-seeking behaviors and (g) coping mechanisms from mental distress. The participants were composed of five female and sixteen male students with a mean age of 21 years ($SD = 1.71$; range = 19–25 years). The majority of the participants were Orthodox Christian by religion, from the Amhara ethnic group and single. All participants lived in the University residence. More than half of the participants were from an urban background and were first-year students. The average monthly pocket money received from their family was 501 Ethiopian Birr (ETB) (range = 50–1000 ETB). All students scored positive for mental distress with a mean SRQ-20 score of 13.38 ($SD = 2.78$; range = 8–20). See [Table 1](#) below.

Perceived Symptoms of Mental Distress

Most participants experienced a mixture of symptoms of anxiety, depression and somatic disorders ([Table 2](#)). The most commonly reported complaints were: being anxious, physically fatigued, headache, and feeling of hopeless. The following two illustrative quotes captured these chief complaints.

Yeah, immediately when I sat in the classroom, I became anxious. I did not know that it was because of anxiety. When I go to church, I cannot stay until the church

Table 1 Demographic Characteristics of the Study Participants with SRQ-20 Score Above the Cut-off Point (n = 21)

Characteristics		Number of Participants (%)
Sex	Male	16 (76.2%)
	Female	5 (23.8%)
Age	18–25 years	21 (100%)
Religious background	Orthodox	16 (76.2%)
	Protestant	3 (14.3%)
	Muslim	2 (9.5%)
Ethnicity	Amhara	10 (47.6%)
	Oromo	6 (28.6%)
	Gurage	1 (4.8%)
	Wolaita	1 (4.8%)
	Other	3 (14.3%)
Marital status	Single	17 (81.0%)
	In relationship	3 (14.3%)
	Divorced	1 (4.8%)
Residency	In campus	21 (100%)
Origin	Rural	9 (42.9%)
	Urban	12 (57.1%)
University year	I	10 (47.6%)
	II	6 (28.6%)
	III	4 (19.1%)
	V	1 (4.8%)
Monthly pocket money	50–500 Birr	16 (76.2%)
	501–1000 Birr	5 (23.8%)
SRQ-20	≥ 8 score	21 (100%)

Table 2 Types and Frequency of Chief Complaints

Types of Symptoms	Number of Participants (%)
Anxiety symptoms	
Being anxious	18 (85.7%)
Being angry	12 (57.1%)
Lack of sleep	11 (52.4%)
Depression symptoms	
Hopelessness	13 (61.9%)
Lack of motivation to read	11 (52.4%)
Lack of concentration	8 (38.1%)
Somatic symptoms	
Physical fatigue	15 (71.4%)
Headache	14 (66.7%)
Gastric pain	6 (28.6%)

ceremony is finished, because of the headache. When I start to read, I become mentally unstable and then, I cannot open my two eyes, but after a few minutes my eyes become open; then after I started to read for a few minutes again my eyes become closed and A letter seems to me B. I feel tired, my body gets feeling of burning, and I also get joint pain ... When my gastric get start, I cannot eat food and I feel pain in the stomach. I try to sleep but I cannot sleep due to the serious headache. (A 22-year-old female, in a relationship)

Other students explained that:

I feel extreme hopelessness. I cannot properly concentrate on my education because of lack of motivation I have. I consider life as meaningless. (A 20-year-old female, single)

Psychological problem cannot bring any problem, so I said to you, I am very happy to see the end of this world by being a mad person. Previously I had a hope to long live and had fear of death. But now, I know that if I am a mad person, I can survive so that why should I worry? (A 20-year-old male, single)

Conceptualization of Mental Distress

Eight and four participants labeled their problems as anxiety and stress, respectively. The interviewer also asked the participants how long the problem had lasted. Five students were suffering for a year; four students had their problems for three years and another five students reported that their distress started six months ago. Five students reported that their distress started two and four years ago. The remaining two students reported their problem had been with them since elementary school.

I think this case is related with mental abnormality, specifically it is anxiety. It (my problem) started before six months. (A 25-year-old male, single)

Another student explained that:

I don't know; it is difficult for me to give a name. But, I guess stress can express it. I started to experience the problem three years ago. (A 22-year-old male, single)

One student named her problem as evil spirit.

As to me, the name of my problem is (bad spirit); it is the one who enforce me to conflict with my friends without having any reason and it is he (bad spirit) who changes my behavior and mood within a short period of time. When

I was in elementary school, I have been experiencing this problem. (A 22-year-old female, in a relationship)

Causal Factors for Mental Distress

When participants asked about how their psychological distress began, they commonly reported mixed causes related to social causes: such as education difficulties and workload (14/21), economic problems (8/21), family related issues such as conflict and loss (6/21), conflict with friends (3/21), psychological causes such as “thinking too much” (7/21), adjustment to the new environment (life changes) (4/21), mismatch of expectations (4/21), and love-related issue (3/21).

Yeah, the main reasons for my illness are: thinking too much about what to do after graduation, because I am not equipped with the necessary knowledge and skills. Second, as I have told you before, my mother and father were died and the only source of support by this time is only my sister. She is not economically strong enough (hand to mouth) and she is uneducated. So, I always think about how I can change her life. She sacrificed a lot for my life starting from early childhood; she expects more from me after graduation. You know when I face a shortage of money; I do not want to ask her, because I know her economic capacity. The third is difficulty of education. While I am thinking all about these issues, I become anxious and I start to think I am living meaningless life. Internally, I have a lot of unresolved issues. (A 22-year-old male, single)

Perceived Severity of Mental Distress

More than half (12/21) of the participants perceived that their distress was very severe, and they feared that their distress would become yet more severe. The remaining respondents rated their problem as mild (6/21) and moderate (3/21).

It (the distress) is very severe problem, even by this time I dislike learning. Can you believe that in our dorm, there are 32 freshman students and in every night they sing a song; when you inform them to stop disturbing, their response is do you want to control us while we are living more than 30 students together in a single class? When you think all these things, you prefer to leave the campus, but what can you do when your families are poor and live in rural area. (A 20-year-old male, single)

Impacts of Mental Distress

Participants were asked an open-ended question concerning the difficulties that the distress caused them. Most of them replied that their distress adversely affected the interaction with other people (causing conflict with family and friends), reduced academic achievement, caused them to feel sad and angry and reduced their motivation to work (Table 3).

Help-Seeking Behaviors and Intention to Seek Professional Mental Health Treatment

Most of the participants received care from multiple informal sources, such as friends (12/21, advice) and religious leaders (4/21, holy water, fasting, and praying) and family (4/21, advice). Only three students received professional mental healthcare. However, all participants intended to receive mental healthcare from professionals because they were afraid their distress would worsen with time.

Yes, I have received advice from religious leaders. The religious leaders understood that the problem is related with bad spirit and they ordered me not to be far from the church and to drink and sprinkle holy water, fast, and prayer. The religious leaders also advised me not to give-up, worry, anxious. Moreover, my friends advised me not to worry that nothing will happen on me and to go to church regularly. I need help if the problem has a solution, because I have fear. From the things that I fear all the time, I may not be with my friends all the time. One day I may go somewhere alone and at that time, I cannot properly manage myself so that the problem can throw me into abyss or burrow. (A 22-year-old female, in a relationship)

Coping Strategies

Under this theme, there were two sub-themes: positive and maladaptive coping strategies that students used to manage their mental distress. Attending church, discussing with friends, listening to music and watching a film were the most commonly reported positive coping strategies. On the other hand, sleeping for a long time was amongst the most commonly reported negative coping strategy (Table 4).

Based on the qualitative findings, a conceptual framework for explanatory models of mental distress was developed. The model shows a link among the explored constructs. As it can be observed in Figure 2, the psychosocial factors caused students to experience mental distress

Table 3 Consequences of Experiencing Mental Distress

Impacts	Total (%)	Illustrative Quotes
Difficulty of interacting with other people	17 (81.0%)	When I become angry, I hit the door; I fight with my friends. I was fighting with my family both physically (during break time) and via phone. They (family) did not give me the amount of birr I need. You know, farmers prefer to give you half quintal of cereal to 10 birr. Our family assumes that if one student entered to university, every cost of the student is covered by the government. I do not pick their cell-phone when they call me, because personally I do not like to give mercy for other people. (A 20-year-old male, single)
Poor academic result	15 (71.4%)	Yes, I did nothing in terms of my education; I scored low grade. The instructors knew that I did not attentively follow them and they said you are not here, body present mind absent. I sat in the classroom and I went back to the dormitory when the time is out. (A 22-year-old female, in a relationship)
Emotional difficulties	15 (71.4%)	The problem caused me to feel sad, isolated, angry, and thinking life is meaningless. (A 20-year-old female, single)
Lack of motivation to study	11 (52.4%)	... I disliked learning. Then, I decided to withdraw and asked the head of the department. He advised me to continue my education so that I completed that semester in that way. Still I am not motivated to read/careless and lack attention. (A 20-year-old male, single)
Mind, the most affected body part	16 (76.2%)	The problem is totally affected my mind, because always I feel pain in the mind. (A 20-year-old male, single)

Table 4 Coping Strategies to Manage Mental Distress

Coping Strategies	Number of Participants (%)	Illustrative Quotes
Positive coping strategies		
Receiving support from friends	8 (38.1%)	I consulted my friend and he advised me to be planned, be cool, not to worry and use time effectively. (A 20-year-old male, single)
Attending church	10 (47.6%)	When I become anxious, I go to church alone and sit silently, even sometimes I dislike to prayer, because of being tired ... (A 22-year-old male, single)
Listening to music and watching a film	5 (23.8%)	I tried not to be anxious by watching a film and listening to music. (A 20-year-old female, single)
Negative coping strategies		
Sleeping for a long time	5 (23.8%)	To forget the problem, I sleep for a long time, even some times until missing my class/education. (A 20-year-old female, single)
Drinking alcohol	2 (9.5%)	I tried to manage the problem by things making me happy. For instance, drinking alcohol. (A 20-year-old male, in a relationship)

that was mainly manifested by psychological and somatic symptoms. This mental distress impacted students' emotions, motivation, relationships with others and educational outcomes. The impact of mental distress was the fear that

it could become more severe in future, which led the students to need professional mental health services, despite using coping strategies and receiving support from informal sources to manage the problem.

Figure 2 Conceptual framework of explanatory models of mental distress.

Discussion

In this qualitative study, anxiousness, fatigue, headache, and hopelessness were the most commonly reported complaints by university students. Most of the participants labeled these complaints as anxiety or stress. The most commonly reported causal explanations were related to social and psychological issues. More than half of the participants perceived their mental distress as a severe problem. Most students reported that the onset of their mental distress ranged from two months to four years. Their mental health problem mainly affected their head which in turn had significant negative impacts on their interaction with other people, their academic achievement, emotions, and motivation to work. Almost all participants received care for their mental distress from informal sources and all of them had the intention to receive mental health care from professionals because they feared their distress would worsen with time. Participants reported that they managed their mental distress by using both positive and negative coping strategies.

Most of the students conceptualized their mental health problems in terms of psychological and somatic symptoms. The most frequently reported psychological symptoms were being anxious and feeling of hopelessness, which are also used as diagnostic features of anxiety and depression,

respectively, in the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).⁴⁹ Although there is a difference in a context in the present study, these symptoms have been previously identified in LMICs and in high-income country where most adolescents elaborated their distress by feeling of anxiety²⁶ and lack of hope.⁵⁰ Other frequently reported complaints in the current study were physical fatigue and headaches that are recognized as diagnostic criteria for depression and anxiety, respectively.⁴⁹ Somatization of mental distress is common worldwide, for example, in many African countries,⁵¹ in Oman,⁵² in Iran,⁵³ and in India⁵⁴ people with anxiety and depression express their distress in terms of medically unexplained symptoms. The expression of mental distress in terms of somatic symptoms is a complex question and might be linked among other things to fear of public stigma⁵⁵ and cultural influences.⁹

Most of the students labeled both psychological and somatic symptoms as a manifestation of anxiety or stress. Although the context is different, a similar result is also found in Vietnam, where most students labeled depression symptoms as stress or anxiety.⁵⁶ Being able to give a specific psychiatric term to the complaints may be because of the students' educational status, which may have influenced their mental health literacy; the symptoms of anxiety and stress are very common among university

students and considered as normal life challenges.¹² Most students attributed their mental distress to more than one causal factor; similarly, in North Western Ethiopia⁵⁷ and Kenya,⁵⁸ most participants reported psychosocial explanations as causes for their mental health problem. Of the causal factors, students reported more education-related issues. These academic stressors are associated with heavy academic loads, exam difficulty,⁵⁹ difficulty with assignments,²⁸ and the time constraints required by courses.⁵² Previous studies also found that most university students' major stressor for mental health problem was linked to educational stressor.^{18,60}

The next most commonly reported social causes were economic problem and interpersonal difficulties. Most of the students who join university in Ethiopia encounter economic challenges. This is especially more challenging for students from rural background, because of: (a) their family assumes that if their student joined in a university, they expect every cost of the student is covered by the university, but the reality on the ground is that a public university in Ethiopia covers only students' food, dormitory, and medication cost with a cost-sharing system; (b) almost all undergraduate students in Ethiopia are economically dependent on their families' income; and (c) there is difficulty of accessing bank and telecommunication services for students who come from rural areas. The inability to receive money from families in a timely way can cause mental distress; the death of a family member who was the main breadwinner for the family again creates mental distress for the student involved. Similar studies have shown that poverty and conflict within the family are causal factors for psychological distress.^{28,60–62}

In the present qualitative study, more than half the students reported that their mental distress was very severe. This in turn affected their interactions with others, their academic achievement, their emotional state, and their motivation to work. In prior studies, most participants reported that their mental distress was severe⁵¹ and negatively affected their social interaction,²⁵ feeling,⁵³ education result,^{13,52,63} and appetite for work.⁶⁴ Students reported different coping strategies to manage their mental distress. Of these, getting social support from friends, attending church, and listening to music and watching a film were among the positive coping styles that used to recover and get relief from mental distress without causing negative health effects, which were also reported in the previous studies.^{13,17,18,28,60,65,66} On the contrary, sleeping for a long time was commonly reported as an unhealthy coping mechanism that could harm students' education and health

outcomes. The use of maladaptive coping strategies by the students might be caused by feeling hopelessness⁶⁷ or associated with unable to control their mental distress.⁶⁸ Apart from seeking help from friends, religious leaders, and family, all students wished to receive mental healthcare due to fear and increasing severity of the distress from time to time. This might indicate how their problem is severe because most adolescents perceive help from professionals as a last resort and a sign of weakness.¹³

Limitations

All research has its limitations, and the present study is not limitations-free. First, the data collected using self-reported questionnaires might have involved recall bias. Second, the face-to-face interview might be prone to social desirability bias when reporting negative coping strategies. Third, most participants were male and female students' perceived explanatory models for mental distress are likely to be under-represented.

Conclusions

Most students perceived their mental distress in terms of psychological and somatic symptoms, most of them recognized their complaints as anxiety or stress that caused psychosocial factors. Most students perceived their distress as severe and affected their education and social interactions. Therefore, first, we recommend that exploring the explanatory models for mental distress among university students must be part of understanding the students' needs for mental healthcare and support and implementing locally acceptable and feasible evidence-based mental health intervention/s. Second, mental health professionals working in the university hospital, student clinic, and student counseling offices are expected to sufficiently access their mental health services to students with mental distress to reduce the burden of the problem.

Abbreviations

LMICs, low- and middle-income countries; SRQ, self-reporting questionnaire; SEMI, Short Explanatory Model Interview; SD, standard deviation; DSM-5, Diagnostic and Statistical Manual of Mental Disorders; ETB, Ethiopian Birr.

Data Sharing Statement

The datasets used and/or analyzed during the present study are available from the corresponding authors on reasonable requests.

Ethics Approval and Informed Consent

Ethical clearance approval was obtained from the Institutional Review Board of Addis Ababa University College of Health Sciences with a protocol number of 045/17/Psy. All participants provided written informed consent before participating in the study after they had received clarification about the objective of the study and received an information sheet. The participants' informed consent included publication of anonymized responses. They were informed that they could withdraw from the study at any time if they were not comfortable participating in the study, without prejudice. Concerning tracing the participants using their cell phone number, they were well informed about the availability of the counseling service given by mental health professional, if they need in our previous screening study;²¹ then, they convinced and consented to receive mental health intervention so that they wrote their cell phone number in the middle of the mental distress screening tool. Then, the principal author of this study provided the counseling service for all participants involved in this study. The questionnaire that contained the participants' cell phone numbers was kept in a locked box of the principal author's house to keep confidentiality. The collected data were kept anonymous and confidential during all the stages of the study. Besides, this study was conducted in accordance with the Declaration of Helsinki ethical principles for medical research involving human participants.

Acknowledgments

We would like to acknowledge Addis Ababa University and Wolaita Sodo University for funding and material support. We also want to thank research participants for their active participation and time.

Author Contributions

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis and interpretation, or in all these areas; took part in drafting, revising or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work.

Funding

This study is funded by Addis Ababa University and Wolaita Sodo University. These funders had no role in

the study design; data collection, analysis and interpretation of data; in writing the manuscript; and in the decision to submit the paper for publication.

Disclosure

The authors declare that they have no competing interests in this work.

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