



Financial Literacy and Financial Stress among College Students within Davao Region

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Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

Financial stress among college students is a significant concern, stemming from various factors that have an immense effect on mental health. This research aims to explore the relationship between financial literacy and financial stress, as well as the potential predictors of financial stress related to financial literacy, including subscales of spending habits, saving habits, and financial knowledge. A total of 368 individuals participated in the study, selected through a simple random sampling method.

The Spearman's rho coefficient indicates a positive correlation between the variables, leading to the rejection of the null hypothesis. The study reveals that students exhibit a high level of financial knowledge and moderate spending and saving habits, indicating moderate financial literacy. Additionally, respondents exhibited a moderate level of financial stress, with moderate levels of affective and relational stress, and a low level of physiological response.

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Moreover, linear regression analysis showed that saving habits ($p < 0.05$) are a significant predictor of financial stress, implying that they have a substantial influence on individuals' financial stress levels. This study suggests that increased financial awareness among students with strong saving habits may heighten sensitivity to financial pressures, leading to higher stress levels. Understanding these dynamics can inform the development of financial education programs that address both saving strategies and stress management. Further research is needed to explore the underlying causes of elevated financial stress in individuals with diligent saving practices.

Keywords: Saving habits; financial stress; financial literacy.

1. INTRODUCTION

In the challenging environment of college, stress has been a pervasive concern, affecting the mental health and overall well-being of students. Flaherty [1] reported that 86% of students in America who indicated poor mental health had experienced chronic stress during their college years. While occasional stress is typical, chronic and severe stress may lead to dysfunction and physical imbalances known as allostatic load [2,3]. Significantly, the American Psychological Association [4] reported the highest prevalence of money-related stress among individuals aged 18-25 years old, with 82% of respondents recognizing money as a significant stress factor.

On that note, financial stress refers to a state of worry, anxiety, or emotional pressure related to financial issues, such as debt management and money management [5]. Additionally, according to the American Psychological Association [6], stress symptoms can be manifest psychologically or physiologically. Zhang [7], defined psychological symptoms as the burdens or difficulties experienced by individuals in their thoughts and emotions. On the other hand, physiological symptoms refer to the way in which the human body reacts when coping with stressors. In fact, a study by McCloud and Bann [8], found that higher financial stress was linked to poor mental health among UK students as well as a higher risk of common mental disorders among college students, like major depressive disorder and panic disorder [9]. Moreover, Badger et al. [10], confirmed that financial burden increases the stress experienced through associating it with healthy lifestyle factors. The findings showed that an elevated stress levels correlate with reduced physical activity, lower dietary quality, and heightened sedentary behavior among college students.

Furthermore, according to studies by Reid et al. [11] and Moore et al. [12], students facing financial stress commonly experienced difficulties in both academics and social aspects. Thus,

stress affects the cognitive and behavioral phenomena of individuals within a social context [13]. Vogel and Schwabe [14], suggested that stress can lead individuals to avoid situations that evoke mixed emotions, yet for naturally aggressive individuals, stress might increase their likelihood of confronting such situations. Moore et al. [12], also found that students encountering financial stress struggle to handle interactions with wealthier peers, frequently resulting in feelings of isolation and embarrassment. Additionally, financial stress reduces students' motivation, influences their educational choices, disrupts their sense of belonging, and alters their perceptions of the campus environment, leading to school dropout and reduced retention rates [15,16,17].

Meanwhile, financial literacy is a combination of financial knowledge, attitudes, and behaviors necessary to make wise financial choices and achieve financial well-being [18]. According to Rejeki et al. [19], financial literacy is important for young people as it can form a habit of saving and accumulating assets, reduce financial problems, and influence decision making regarding financial problems. In addition, this set of skills empowers individuals to make well-informed financial decisions and exercise greater control over financial matters [20].

According to a study by Sarsour et al. [21], those who lack financial literacy are less likely to save money, invest in the stock market, or create retirement plans. As such, issues with savings, investments, and credit are brought on by a lack of financial literacy [22]. Indeed, according to a study by Bakhtiar et al. [23], students' spending habits on non-academic purchases—mainly food and drink—cause poor money management and social issues for Malaysia's younger population. While Anisa et al. [24], found that students with lower financial literacy have higher impulse buying behaviors.

Conversely, individuals with greater financial literacy typically attain better financial results and

make more effective decisions [21]. Moreover, Arofah [25], claimed that high financial literacy levels combined with self-efficacy significantly impact college students' financial behavior. Consequently, there is an increased use of savings and investment products and a decline in debt-related loans. Furthermore, higher levels of financial literacy among undergraduate students lead to making more informed financial decisions and increasing awareness of cryptocurrencies, Almeida & Costa, [26], particularly due to their prevalent nature today.

Several studies examined the association of financial literacy to persons' financial stress, as well as the predictors of financial stress. Research has found that the ability of young individuals in Medan City to manage their finances well, despite the possibility of having few financial problems, is demonstrated by a positive association found between financial stress and financial literacy [27]. On the other hand, the impact of financial stress and financial literacy on Americans' financial well-being was examined by [28]. The evidence indicates that financial stress and financial literacy are negatively correlated, which is in line with the analysis conducted by Calonia [29] among Bukidnon Association of Catholic Schools personnel. This implies that individuals with higher financial literacy experience lower levels of financial stress.

In Malaysia, Rahman et al. [30], explored the factors influencing the financial well-being of low-income households. Three factors served as independent variables in this study: financial stress, financial behavior, and financial literacy. The study identified financial behavior as the most influential factor predicting the financial well-being of the low-income group. Moreover, financial behavior and financial literacy were found to be positively correlated, yet financial stress had a negative impact on the financial well-being of the urban poor.

In the Philippines, Moreno [31], conducted a study on the effects of financial literacy on stress levels among business education students at North Luzon Philippine State College. The analysis showed that neither the profile nor the overall degree of respondents' financial stress was significantly correlated with each other's levels of financial literacy or stress. Furthermore, predictors of financial stress were determined using cash management, financial records and savings plan as variables. It was noted that

effective cash management was associated with lower stress levels, whereas proficiency in financial records and savings plans correlated with higher stress levels. The Bukidnon Association of Catholic Schools employees' financial stressors were investigated in a different study by Calonia [29], with a particular emphasis on financial behavior and literacy. The findings showed a substantial relationship between respondents' financial management practices and financial stress as well as between financial literacy and stress. Furthermore, both variables predicted the respondents' financial stress. The study also highlighted that respondent exhibited a moderate level of financial behavior, which manifested in poor financial management practices.

Several studies have confirmed the connection between financial literacy and its impact on financial stress, including the factors contributing to this relationship. However, a research gap has been identified, with insufficient recent studies in the association between variables and determinants of financial stress among college students. Additionally, there is a lack of locally relevant literature, attributed to limited sources. Consequently, this research initiative has the potential to significantly contribute to the body of knowledge in research, particularly in the local setting. Moreover, this study aims to aid in university students' financial literacy intervention and financial stress management. Furthermore, this study can be beneficial to future researchers by filling gaps in the existing literature.

1.1 Research Objectives

This study aimed to explore the following:

1. To analyze the level of financial literacy of college students in terms of:
 - 1.1 Spending habits
 - 1.2 Saving habits
 - 1.3 Financial knowledge
2. To distinguish the level of financial stress of college students in terms of:
 - 2.1 Affective reaction
 - 2.2 Relational/Interpersonal behavior
 - 2.3 Physiological responses
3. To determine whether financial literacy and financial stress have associations among college students
4. To specify which domain of financial literacy predicts students' financial stress

2. METHODOLOGY

2.1 Research Respondents

The individuals who participated in the study were students from one of the universities in Davao Region, which includes all academic levels and departments during the school year 2023-2024. The researcher employed a sample size of 368 utilizing a simple random sampling method. The research specifically focused on university students to thoroughly understand the college's demographics, including criteria such as age, gender, year level, and department of the respondents. Below is the frequency distribution of the respondents.

Table 1. Frequency Distribution by Age, Gender, Year Level and Department

Profile	f	%
Age		
18-20	300	81.5
21-23	60	16.3
24-27	8	2.2
Gender		
Male	165	44.8
Female	197	53.5
LGBTQ+	6	1.6
Year Level		
1 st	167	45.4
2 nd	167	45.4
3 rd	26	7.1
4 th	8	2.2
Department		
DAS	82	22.3
DBA	56	15.2
DAE	29	7.9
DTP	56	15.2
DCJE	63	17.1
DTE	82	22.3
Total	368	100.0

Table 1 displays the total number of respondents involved in the conducted research, which includes students enrolled at the university. The overall respondents consist of 368 college students. In terms of age distribution, the highest number of respondents fell in the 18-20 years old category ($n=300$, 81.5%), followed by the 21-23 years old group ($n=60$, 16.3%), and the least number of respondents were in the 24-27 years old category ($n=8$, 2.2%). Female respondents made up the majority ($n=197$, 53.5%), followed by male participants ($n=165$, 44.8%), and the least number of respondents were from the LGBTQ+ community ($n=6$, 1.6%). Moreover, the

majority of respondents were both First-Year students ($n=167$, 45.4%) and Second-Year students ($n=167$, 45.4%), following Third-Year students ($n=26$, 7.1%), and Fourth-Year students ($n=8$, 2.2%), with the smallest number of participants. Regarding departmental distribution, the Department of Arts and Sciences and the Department of Teachers Education had the highest respondents, each with an equal number ($n=82$, 22.3%). Followed by the Department of Criminal Justice Education ($n=63$, 17.1%), the Department of Business Administration and the Department of Technical Programs with an equal number ($n=56$, 15.2%). While the Department of Accounting Education has the least respondents with ($n=29$, 7.9%).

2.2 Research Instrument

The instruments used in this study were adapted from questionnaires employed in the studies by Somcio et al. [32] and Heo et al. [13]. Before utilizing the questionnaires, the researcher asked permission via email to the respected authors for both scales.

Somcio et al. [32] modified and compiled questions from various surveys to create a 21-item Financial Literacy Scale (FLS) with three categories consisting of seven questions each: Spending habits, Saving habits, and Financial Knowledge. Moreover, the scale used a 5-point Likert scale with the following values: Strongly Disagree = 1, Disagree = 2, Neutral = 3, Agree = 4, and Strongly Agree = 5. The scale underwent a reliability test, resulting in a Cronbach's alpha of .707, which is deemed acceptable. To assess the reliability of the questionnaire in a new setting, a pilot test was conducted with 52 respondents on the chosen university. The reliability analysis, conducted using JAMOVI (version 2.4.14), indicated that the reliability index was acceptable, with $\alpha = .763$.

Furthermore, Heo et al. [13] developed a multidimensional 24-item financial stress scale. The APR Financial Stress Scale consists of three dimensions: Affective reactions, Relational behavior, and Physiological responses. Initially, 42 items were created, which were then refined to 24 items. Additionally, the scale used a 5-point Likert scale with the following values: Strongly Disagree = 1, Disagree = 2, Neutral = 3, Agree = 4, and Strongly Agree = 5. The scale underwent reliability testing for each dimension, resulting in high reliability for affective reaction ($\alpha = .95$), relational behavior ($\alpha = .91$), and physiological responses ($\alpha = .94$).

Table 2. Financial literacy mean interpretation

Mean Interval	Description	Interpretation
4.21 – 5.00	Strongly Agree	Very high
3.41 – 4.20	Agree	High
2.61 – 3.40	Neutral	Moderate
1.81 – 2.60	Disagree	Low
1.00 – 1.80	Strongly Disagree	Very low

Table 3. Financial stress mean interpretation

Mean Interval	Description	Interpretation
4.21 – 5.00	Strongly Agree	Very high
3.41 – 4.20	Agree	High
2.61 – 3.40	Neutral	Moderate
1.81 – 2.60	Disagree	Low
1.00 – 1.80	Strongly Disagree	Very low

However, the researcher changed a few scale items (items 9–14) to make them more appropriate for use in a school setting. A pilot test was carried out at the same university, resembling the financial literacy scale. The reliability analysis, performed using JAMOVI (version 2.4.14), indicated that the reliability index was acceptable, with $\alpha = .957$.

2.3 Design and Procedure

The research adopted a quantitative research design, employing a descriptive- predictive approach to investigate the association between financial literacy and financial stress among college students. The study delved into the affective, physiological, and relational dimensions of financial stress, aiming to provide a comprehensive understanding of how financial literacy influenced these aspects. To uncover potential predictors of financial stress associated with financial literacy, the study specifically explored subscales such as spending habits, saving habits, and financial knowledge. Utilizing descriptive statistics, the study aimed to demonstrate the current state of financial literacy and stress among college students, for which survey questionnaires were utilized to gather data.

The researchers took several steps before disseminating the survey for the respondents to evaluate the correlation of the variables. Firstly, they provided printed questionnaires and Google Forms for both in-person and online respondents, offering accessibility to a wider range of individuals. Before starting the survey, the researchers obtained permission letters from their professor and the dean, ensuring that

participants with permission from the school administration were allowed to participate. This step ensured that proper authorization was obtained before involving participants. Lastly, the researchers collected data using a data sheet, maintaining the confidentiality and anonymity of participants' responses. The data were then analyzed using JAMOVI (version 2.4.14), a statistical software, to draw conclusions regarding the correlation of variables in the study.

2.4 Statistical Treatment

A total of 368 respondents were gathered by the researcher. The collected data were then analyzed using the statistical tool JAMOVI (version 2.4.14). Descriptive measures were employed to analyze the levels of financial literacy and financial stress, utilizing the mean and standard deviation. Additionally, the Shapiro-Wilk test was utilized by the researchers to assess the normality of the data and determine whether the null hypothesis would be rejected. The results of the test ($W=.98$, $p\text{-value}<.001$) indicated that the variables did not follow a normal distribution. According to Kwak and Park [33], if the null hypothesis of the data obtained from the Shapiro-Wilk test is less than the chosen significance level (e.g., 0.05), then the null hypothesis is rejected, suggesting that the data are not normally distributed. Consequently, a nonparametric test was employed to determine the correlation between financial literacy and financial stress, particularly Spearman's rank correlation. Furthermore, a linear regression was generated to specify which domain of financial literacy predicts the students' financial stress. With the aid of one or more independent

variables, this modeling approach forecasts a dependent variable [34].

2.5 Ethical Consideration

The researchers of this study adhered to the University's Research Ethics and carefully observed ethical norms to protect the researchers and the potential respondents.

2.5.1 Voluntary participation

The participants were asked if they would be willing to participate in the research study. They can stop or withdraw from the study at any time; the researchers will not question them about it. Researchers must accept and respect the decision made by the participants.

2.5.2 Right to revoke

The researchers made sure that every subject could leave at any moment. Participation was completely voluntary and could happen at any time.

2.5.3 Privacy and confidentiality

Additionally, during the course of the study, the researchers kept a careful eye on the privacy of contact information and personal information. To respect the participants' right to privacy and confidentiality, only the researchers knew who the participants were. It was made clear that their participation was entirely voluntary.

2.5.4 Informed consent process

Researchers gave informed consent as directed by the ethics committee. Prior to that the Dean of College gave the researchers permission. Those taking part were informed on the background and objectives of the research. In order to better explain to them in a way that matched their comprehension, the researchers waited. Also, to be able to demonstrate that the participation was voluntary and that the informed consent procedure was followed, it was essential to make sure the participants understood the goal of the interview

2.5.5 Risk

The participants of the study were not subjected to any adverse consequences. The goal of the research was to pursue beneficence and nonmaleficence. Researchers identified potential

links between physical, mental, emotional, social, and monetary dangers. As a result, the only place the data was collected was at schools, where it is advantageous for them to participate. The well-being of the researchers came first. The data gathering would stop and the participants would be helped to facilitate their negative reactions if any indications of psychological dangers were noticed.

2.5.6 Plagiarism

This study eliminates the possibility of plagiarism. Researchers cited ideas and results from other authors and scholars carefully according to the proper method.

Fabrication. The researchers made sure they did not represent the work of others as their own. Researchers also made sure not to falsely record results or draw conclusions that contradict existing literature in the manuscript.

2.5.7 Falsification

The study draws on several reliable and precise studies. The article originated from the study of the authors, who were credited.

2.5.8 Conflict of interest

The study's researchers are dedicated to obtaining certain results that are of a high quality and to carrying out the investigation honestly.

2.5.8.1 Deceit

The researchers found that respondents' responses to interviews were truthful and did not cause harm. The researcher used ethical methods and avoided misleading the volunteers. Unwanted comments and moral issues were dealt with in a timely manner.

2.5.8.2 Permission from organization/location

The researcher obtained advisor signatures and the approved endorsement of the school dean on authorization letters from the University before the distribution of questionnaires.

3. RESULTS AND DISCUSSION

3.1 Financial Literacy Among College Students

Table 4 presents the results of the statistical analysis conducted in determining the levels of

financial literacy experienced by college students across three subscales: Spending Habits, Saving Habits and Financial Knowledge. The overall total for the level of Financial Literacy is (\bar{x} =3.24, SD =0.37), indicating that the respondents have a moderate level of Financial Literacy. The findings show a moderate level of Spending Habits (\bar{x} =2.98, SD =0.25) and Saving Habits (\bar{x} =3.35, SD =0.63), while Financial Knowledge (\bar{x} =3.60, SD =0.63) depicts a high level among the respondents.

Students demonstrate a high level of financial knowledge, indicating a strong understanding of financial concepts and principles. This is supported by the study of Brau et al. [35], which found that students with financial learning opportunities score higher on financial literacy tests and surveys. In contrast, Estrada- Mejia et al. [36], found that individuals residing in rural areas, with low income, women, and those with lower levels of education, exhibit low financial literacy levels in both Peru and Uruguay. Nonetheless, in a study by Shvahr et al. [37], it was found that social media could enhance financial literacy by utilizing its extensive capabilities to reach a broader demographic for financial education. While social media plays a significant role in disseminating information, Rudeloff [38], proposed that parent-student discussions about finance remain important informal sources of learning for adolescents' financial literacy.

Following this, the two subscales, namely Spending Habits and Saving Habits, fall within the moderate range. These findings imply that while students demonstrate moderate levels of both spending and saving habits, their saving habits tend to be notably higher. As indicated in the report by UCAS [39], college students are very careful in spending their pocket money, balancing their expenditures across various needs such as transportation, food, entertainment, and mobile expenses. This finding is consistent with the study of Alshebami et al. [40], which suggests that financial literacy contributes to improving students' saving behavior. Moreover, according to the report by PR Newswire [41], financial emergencies may contribute to students' struggles in maintaining stable savings, which explains the moderate results from the analyzed data above. However, this contradicts the study conducted by Hall [42], which suggests that financially literate individuals can avoid the burden of financial emergencies by saving for emergency funds.

3.2 Financial Stress Among College Students

Table 5 presents the results of the statistical analysis conducted in determining the levels of financial stress experienced by college across three dimensions: Affective Reaction, Relational/Interpersonal Behavior, and Physiological Response. It is evident that the highest mean score is observed in the dimension of Affective Reaction (\bar{x} =3.19, SD =0.91), indicating a moderate level. This finding aligns with the study by Ryu and Fan [43], which demonstrated that individuals experiencing financial stress often exhibit elevated levels of anxiety and depressive symptoms. This indicates a pronounced affective response to financial pressure. Moreover, Guan et al. [44], indicate that monetary stress can lead to an increase in psychological distress. Similarly, the dimension of Relational/Interpersonal Behavior presents a similar pattern, with respondents reporting a mean score of (\bar{x} =2.71, SD =0.78), signifying a moderate level of relational or interpersonal responses to financial stress. This finding is corroborated by Heo et al. [13], who noted that individuals experiencing financial stress tend to seek moderate interpersonal support.

Meanwhile, the dimension of physiological responses records a mean score of (\bar{x} =2.38, SD =0.93), suggesting a relatively lower level of psychological responses to financial stress. This observation aligns with the findings of Sharma and Bhat [45], who suggest that individuals may employ coping mechanisms to mitigate the physiological impact of financial difficulties. Chu et al. [46], on the other hand, discovered that certain people might have more severe physiological symptoms, like elevated blood pressure and heart rate, in response to overwhelming financial stressors. This indicates that individuals exhibit dissimilar physiological reactions to financial stress, challenging the notion of a universal physiological response. Additionally, while some individuals may effectively manage coping mechanisms, others may experience long-term physiological distress, as recent research by Monin [47] has indicated concerning financial stress and physical health. Financial stress among students varies based on factors like socioeconomics, background, employment status, and academic pressures. Limited resources, high tuition costs, and student loan debt contribute to the heightened stress [12], while family support, financial aid, and

Table 4. Level of financial literacy among respondents

Indicator	\bar{x}	SD	Interpretation
Spending habits	2.98	.25	Moderate
Saving habits	3.35	.63	Moderate
Financial Knowledge	3.50	.63	High
Overall Student Financial Literacy	3.24	.37	Moderate

Table 5. Level of financial stress among respondents

Indicator	\bar{x}	SD	Interpretation
Affective reaction	3.19	.91	Moderate
Relational/Interpersonal behavior	2.71	.78	Moderate
Physiological responses	2.38	.93	Low
Overall Student Financial Stress	2.77	.74	Moderate

Table 6. Spearman's Rho correlation analysis

Independent variable	Overall Financial Stress		
	ρ	p-value	Remarks
Financial Literacy	0.116	0.025	Significant

Table 7. Regression analysis for variables predicting financial stress

Variable	β	SE	t	p
Spending Habits	0.109	0.1563	0.694	0.488
Saving Habits	0.274	0.0805	3.405	<.001
Financial Knowledge	-0.115	0.0799	-1.439	0.151
R²	F	df1	df2	
0.384	4.85	3	364	0.003

money management skills can alleviate it [48]. Overall, the combined analysis of the three dimensions yields an overall mean score for financial stress ($\bar{x}=2.77$, $SD=0.74$). This indicates that, on average, college students experience a moderate level of financial stress.

3.3 Correlation Analysis between Financial Literacy and Financial Stress

Table 6 presents a summary of the Spearman's Rho analysis between financial literacy and financial stress among the respondents. The results suggest that there is a positive correlation between financial literacy and financial stress ($\rho=0.116$, $p<0.05$). This implies that, on average, as financial literacy increases, financial stress tends to increase as well, although the correlation is weak. According to a recent study [49], financial stress and financial literacy correlate strongly. This discovery suggests that even with a solid understanding of financial concepts, failure to implement effective financial practices can lead to heightened financial stress. Moreover, according to the study by Kawamura et al. [50], individuals with high financial literacy

tend to take excessive risks, overborrow, resulting in experiencing deep debt, and hold naive financial attitudes. In other words, financial literacy makes individuals to take bold and risky actions, thereby leading to a more stressful life. These findings contrast with the study of Zhang and Chatterjee [51], which indicates a negative association between financial literacy and financial stress, implying that as financial literacy increases, financial stress decreases. The study additionally found that financial literacy serves as a safeguard, mitigating both financial stress and anxiety.

3.4 Regression Analysis

Table 7 shows the regression analysis for variables predicting the financial stress of the respondents. Linear regression analysis, incorporating coefficients of correlation, was conducted with significance tested at the $\alpha=0.05$ level. The subscales examined include Spending Habits ($p>0.05$), Saving Habits ($p<0.05$), and Financial Knowledge ($p>0.05$). The analysis revealed that Saving Habits has a significant positive relationship with financial stress ($\beta=0.274$, $t=3.405$, $p<0.05$). In other words, as

Saving Habits increases, Financial Stress increases as well. In contrast, the other predictor variables, Spending Habits ($\beta=0.109$, $t=0.694$, $p>0.05$) and Financial Knowledge ($\beta=-0.115$, $t=-1.439$, $p>0.05$), do not demonstrate a statistically significant impact on predicting Financial Stress in this analysis. Furthermore, Saving Habits accounts for 4% of the variance in stress, $F(3,364)=4.85$, $p<0.05$. The 96% can be explained by other factors or variables.

Although a positive connection between saving habits and financial stress may appear contradictory at first glance, as indicated in a study by Submitter [52], where having a habit of saving can lead to increased financial well-being and financial security, it can be clarified by considering a range of factors such as individual circumstances, behaviors, and personalities. In fact, Dulleck et al. [53], investigated how participants' bodies reacted physiologically while engaging in a financial bargaining game. They found that individuals who made less generous offers experienced higher levels of stress compared to those who made more generous offers. This suggests that while being stingy might help someone save money, it could also lead to increased financial stress. Furthermore, as outlined in an article authored by Jain [54], an excessive emphasis on reducing expenses can foster a mindset of deprivation and a conviction that the optimal method for saving money is by minimizing spending at all costs. This mindset may also cultivate a perpetual feeling of insufficiency, wherein individuals, regardless of their savings, persist in maintaining an extreme frugal approach to continuously saving. While such an approach may yield short-term success in attaining particular objectives, it could prove to be unsustainable and unhealthy over time. In another article written by Watkins [55], excessive saving can result in individuals experiencing the fear of missing out, as they may find themselves unable to spend money for enjoyment [56,57].

4. CONCLUSION

This study assessed the correlation between financial literacy and financial stress among college students. The findings revealed that respondents exhibited a moderate level of overall financial literacy with a high level of financial knowledge. This indicates that most respondents are well-versed in various financial concepts, such as the exchange rate of the peso and the inflation rate in the Philippines, and perceive themselves as financially literate. However, they

show a moderate deficiency in practicing good spending and saving habits.

The study also found that respondents displayed moderate levels of overall financial stress, with physiological responses being the lowest among the three subscales, at a low level. This suggests that respondents do not frequently experience physiological distress associated with financial stress, such as feelings of coldness, fatigue, and stomach aches due to their financial circumstances. It is noteworthy that while physiological responses were relatively low, significant correlations were found between financial literacy and financial stress. This indicates that despite the absence of pronounced physiological symptoms, financial stress still impacts individuals in other ways. It also implies that respondents may not fully comprehend or recognize the physiological effects of stress, contributing to the observed low levels of physiological responses.

Furthermore, while financial literacy is widely recognized as a mitigator of financial stress, the findings revealed a complex relationship. Individuals with higher financial literacy levels may also experience increased financial stress. This suggests that as individuals become more proficient in understanding financial concepts and take on greater financial responsibilities, their stress levels may correspondingly rise.

In the linear regression analysis, saving habits emerged as the only predicting variable for financial stress with a positive relationship. This indicates that excessive saving can lead to heightened stress levels and potentially impact an individual's overall well-being. While saving money is typically viewed as a positive financial behavior, there appears to be a threshold beyond which excessive saving may contribute to increased stress due to restrictions in spending and socialization.

Overall, considering the contradictory outcomes of this study in comparison to most research findings, it remains essential to maintain a balance across all aspects. Regardless of one's level of financial literacy, there are always potential drawbacks that can result in stress.

5. RECOMMENDATIONS

Based on the findings and conclusion of this study, these are the recommendations derived:

Universities and colleges would benefit students by intensifying financial literacy programs through workshops and seminars to improve their abilities, particularly in saving and spending wisely. Furthermore, strengthening stress management seminars, particularly those focusing on assessing the physiological effects of stress, is critical for students to recognize the bodily symptoms of stress and empower them with strategies to reduce stress effectively. Expanding these programs not only supports students' academic success but also their overall well-being, preparing them for a balanced and financially secure future. Furthermore, students should proactively seek out resources to enhance their understanding of essential financial concepts such as budgeting, saving, and debt management. Creating a budget to monitor expenses and establishing an emergency fund provides a safety net for unexpected financial difficulties. Future researchers can build on these findings to conduct similar studies. Given the lack of generalizability, future research could adjust the methodology, such as increasing the number of respondents and broadening the study setting. Additionally, researchers could examine potential moderating variables and underlying mechanisms to thoroughly investigate the relationship between financial literacy and financial stress among college students. Factors like socioeconomic background, cultural influences, and individual personality traits may affect this relationship and warrant further study. Moreover, further investigation into saving habits as predictors of financial stress is necessary. It is vital to examine the various aspects of saving habits that contribute to financial stress, including individual circumstances, behaviors, future time perspective, and personality traits. Overall, efforts should focus on raising awareness about the importance of financial literacy and stress management, as well as ensuring the accurate dissemination of information to promote better financial well-being among students.

ETHICAL APPROVAL

This study adhered to the University's Research Ethics and carefully observed ethical norms to protect the researchers and the potential respondents.

CONSENT

As per international standards or university standards, respondents' written consent has been collected and preserved by the author(s).

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COMPETING INTERESTS

Authors have declared that no competing interests exist.

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