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Research Article

Relationship Between Religious Attitude and Depression, Anxiety, and Stress Symptoms in University Students in Iran

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ABSTRACT

A considerable proportion of young adults studying at universities have a mental disorder. Previous research has shown a negative relationship between various religiosity and psychopathology measures, with different strengths of this correlation depending on the religiosity measure. The aim of the present study is to investigate the strength of association between religious attitude and depression, anxiety and stress in Iranian university students. Thirty-three students from two Iranian universities filled in the Religious Attitude Scale for University Students (RASUS), the Beck Depression Inventory-II (BDI-II), and the Depression, Anxiety and Stress Scale (DASS-42). Religious attitude correlates negatively with all psychopathological variables with a moderate effect size (e.g., with BDI-II: $r = -.47$; $p = .006$). When dividing the sample in low vs. high religious people, there were significantly more students without depression symptoms in the high religious attitude group than in the low group.

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Introduction

A considerable proportion of young adults studying at universities have a mental disorder. US-American college students exhibit a prevalence of 20.0% for depression and 24.3% for anxiety disorders, 16.5% for both depression and anxiety (American College Health Association, 2019). This is higher than in the general population when compared with the results of a meta-analysis [1]. In the same study, 13.4% of the students reported having tremendous stress and 45.3% had more than average stress.

The situation is similar for Iranian university students. A recent meta-analysis on depression, anxiety and stress symptoms using the Depression, Anxiety and Stress Scale (DASS) as an assessment tool found higher mean values in Iranian university students than comparable studies in Western countries [2, 3]. The reason might be that mental disorders are even more stigmatising in this Muslim country than in Western countries, which keeps students from seeking help [4].

Mental disorders in university students might have several negative consequences, including poor academic achievement, social problems, increased rates of substance use and suicide. At the same time, early adulthood is a phase of life that involves a number of challenges, e.g., moving from home to another city, decreasing parental support, increasing a new peer support system, and academic challenges etc.

Religiosity and Mental Health

Iran is a country in which religion plays a major role in most areas of life. Therefore, adolescents and young adults are influenced by religious attitudes and activities of their families and religious communities. Research that has been conducted mainly in the USA and Europe has shown that the adaptive development of adolescents and adults are positively associated with religious measures [5, 6]. In their extensive meta-analysis on the relationship between various religiosity and mental health measures, they found an overall correlation of $r = 0.10$, regardless of the specific religiosity or mental health definition, indicating a small, but positive association. However, when differentiating between several religiosity measures, they found that studies focusing on social and

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behavioural aspects of religion (e.g., participating in religious, social activities) show only zero (or negative) associations, whereas studies focusing on religious beliefs and attitudes as well as studies focusing on personal devotion found positive and stronger associations. A recent overview of more than a hundred meta-analyses and systematic reviews concluded that “the case for causal influence may now be compelling, and in most cases [religiosity/spirituality] ... involvement is associated with better health, although negative associations also exist” (p. 261) [7].

There are also studies on student samples showing that religious and spiritual measures are positively related to mental wellbeing and life satisfaction [8]. Also, several longitudinal studies investigating the impact of religiosity on mental health have been published. In a recent meta-analysis, the prospective correlation of religiosity with mental health was positive, but small ($r = .08$) [9]. One of the most important religiosity components contributing to mental health was the personal importance of religion in this meta-analysis.

Muslim Religiosity and Mental Health

The question arises as to whether this positive relationship between religiosity and mental wellbeing can also be found in Muslim countries because there might be cross-cultural differences. For example, Iranian students were shown to have higher scores on several religiosity scales than Austrian student, and students in Kuwait more so than in the USA [10-12]. Interestingly, Iranian students have even higher scores on several religiosity measures than older Iranian people [13]. There are studies from various Muslim countries showing that Muslim religiosity is positively associated with mental health and negatively associated with psychopathology. The samples of these studies include adolescents in Egypt, adolescents in Kuwait, adults in Algeria, college students in Algeria, and college students in Kuwait [11, 12, 14-20].

To the best of our knowledge, there are only two internationally published articles on the religiosity-mental health relationship in Iranian samples, both with samples of university students. Abdel-Khalek *et al.* indicate that there are additional unpublished studies and studies published in Arabic or Farsi [21]. One of the internationally published articles used a scale that they developed for this study, which measures positive and negative spiritual experiences [22]. They found that psychopathology such as depression and anxiety was negatively correlated with positive spiritual experiences, but positively with negative spiritual experiences. The second study used a scale to measure extrinsic and intrinsic religious orientation and found a negative correlation with depression [23, 24].

There is no study, to the best of our knowledge, on religious attitude and its association with mental health in Iran. The term “attitude” refers to one of the most important constructs in social psychology. Ajzen defined it: “There is general agreement that attitude represents a summary evaluation of a psychological object captured in such attribute dimensions as good-bad, harmful-beneficial, pleasant-unpleasant, and likable-dislikable...” (p. 28) [25]. It has been argued by Francis that the measurement of religious attitude is superior to religious affiliation, beliefs, and practices because it is better able to indicate individual differences in religiosity [26]. He argues that religious affiliation as indicating one’s belonging to a certain religious tradition is too superficial to be a reliable measure. Religious beliefs might be only

convictions and do not correspond to the actual personal religious life of an individual. Also, the measurement of religious practices might be difficult because personal and social constraints can inhibit or modify such practices.

Many studies have used the “Francis Scale of Attitude toward Christianity” (FSAC) to examine a wide range of correlates of religiosity during childhood, adolescence and adulthood [26, 27]. The direct translation of the FSAC in the Muslim context suffers from problems with content and context validity [28]. Scales that have been developed for the Muslim context include the “Religious Attitude Scale for University Students” (RASUS) and the “Ok-Religious Attitude Scale” [29, 30]. Studies using the RASUS found positive associations between religious attitude and, for example, a secure attachment in college students, emotional maturity in student teachers and positive attitude to the hijab, the women’s headwear [31-33]. However, there is no published study on the association between Muslim religious attitudes and mental health in Iranian university students.

Aim of the Present Study

The aim of the present study is (1) to investigate the strength of association between religious attitude and depression, anxiety and stress in Iranian university students and (2) to investigate the frequencies of the categories of depression (no, mild, moderate, and severe depression) in low vs. high religious students.

Methods

I Participants

Inclusion and Exclusion Criteria

The participants were recruited in 2019 from two universities in Iran, Gachsaran University and Yasuj University. Eligible participants were students at one of the participating universities, aged 18 or older ($M = 23.5$, $SD = 2.26$; 80% female). 33 students were included in the study after they had given their consent to participate. Some of the participants lived in urban surroundings, some in rural areas. All of them were religious Muslims.

II Measures

i Religious Attitude Scale for University Students (RASUS)

The Religious Attitude Scale for University Students (RASUS) was designed by Krishnaraj and Balasubramanian from the University of Alagappa, India [29]. The aim of the questionnaire was to measure students’ attitudes towards religion. It consists of 34 questions with a Likert scale ranging from 1 to 5. Some items are reversely coded. Sample items are: “Religion helps to develop the optimistic spirit”; “Religion teaches one to love all in the world”; “Religion promotes man’s inner discipline”; “Religion makes people irrational” (negatively scored). Cronbach’s alpha was 0.94 in the present sample. The retest reliability has shown to be $r = .87$, internal validity $r = .65$ with the religious scale from the Allport-Vernon-Lindzey Study of Values [29].

ii Beck Depression Inventory II (BDI-II)

The BDI-II is a 21-item self-report inventory that assesses symptoms of depression in the previous seven days [34]. Each item is rated from 0 to 3 according to the severity of difficulty experienced; total scores range from 0 to 63, with higher scores indicating more depression. The BDI-II has been shown to have good psychometric properties in psychiatric and non-psychiatric populations in various countries. We used the Persian (Farsi) translation of the BDI-II, which was developed by repeated translation and back-translation of the original questionnaire [35]. In an Iranian student sample with 9.5% fulfilling the DSM-IV diagnosis of a Major Depressive Disorder (MDD), the BDI-II cut-off point of 22 or greater was the most suitable to screen MDD, whereas for screening milder but clinically significant depression, the cut-off point of 14 or greater was the best [36]. Cronbach’s alpha was 0.88 in the present sample.

iii Depression, Anxiety and Stress Scale (DASS-42)

The DASS-42 is a 42-item self-report inventory that assesses symptoms of depression, anxiety and stress in the previous seven days [2]. The depression subscale includes items evaluating symptoms such as anhedonia, feelings of sadness, worthlessness, hopelessness, and lack of energy. The anxiety subscale includes items evaluating physiological arousal, phobias, and situational anxiety. The stress subscale includes items evaluating symptoms such as difficulty in achieving relaxation, state of nervous tension, agitation, overreaction to situations, irritability, and restlessness. Each item is rated from 0 to 3 according to the severity or frequency of the symptom. Each subscale has 14 items, and a

participant’s score in each subscale is obtained by the sum of all items related to a subscale.

The DASS-42 has been shown to have good psychometric properties in psychiatric and non-psychiatric populations in various countries, and the three-factor structure has also been approved. We used the Persian (Farsi) translation of the DASS-42 [37]. Cronbach’s alpha was 0.92 for depression, 0.87 for anxiety and 0.92 for stress in the present sample.

III Statistical Analysis

All statistical analyses were performed using the SPSS software, version 26 (SPSS Inc., Chicago, Illinois). Pearson correlations between the variables were calculated to assess their associations. The sample was divided into two groups with regard to religious attitude (after median dichotomization) and into three groups with regard to depression severity (no, mild, and moderate depression according to published cut-offs).

Results

Mean religious attitude score is $M = 123.88$ ($SD = 21.09$). Mean values for depression, anxiety, and stress are presented in (Table 1). The correlations of religious attitude with depression, anxiety, and stress are presented in (Table 1). Religious attitude correlates negatively with all psychopathological variables with a moderate effect size. The correlation is significant for depression using the BDI-II ($r = -.47$; $p = .006$), for depression using the DASS-42 ($r = -.35$; $p = .049$), for anxiety ($r = -.45$; $p = .008$), for stress ($r = -.39$; $p = .024$), and DASS-42 total score ($r = -.42$; $p = .015$).

Table 1: Correlations of religious attitude with psychopathology (N = 33).

Variables	M (SD)	r	p
Depression (BDI-II)	12.58 (9.54)	-.47**	.006
Depression (DASS-42)	14.15 (10.38)	-.35*	.049
Anxiety (DASS-42)	12.79 (8.29)	-.45**	.008
Stress (DASS-42)	21.15 (10.71)	-.39*	.024
Total Symptoms (DASS-42)	48.09 (27.45)	-.42*	.015

The participants were divided into three subgroups for their severity of depression values: 51.5% with no symptoms, 24.2% with mild symptoms, and 24.2% with moderate symptoms of depression (Table 2). Two subgroups with regard to religious attitude (low, and high) were

compared for their depression severity. There were significantly more students without depression symptoms in the high religious attitude group than in the low group ($\chi^2 = 7.36$, $p = .025$). Figure 1 depicts this association.

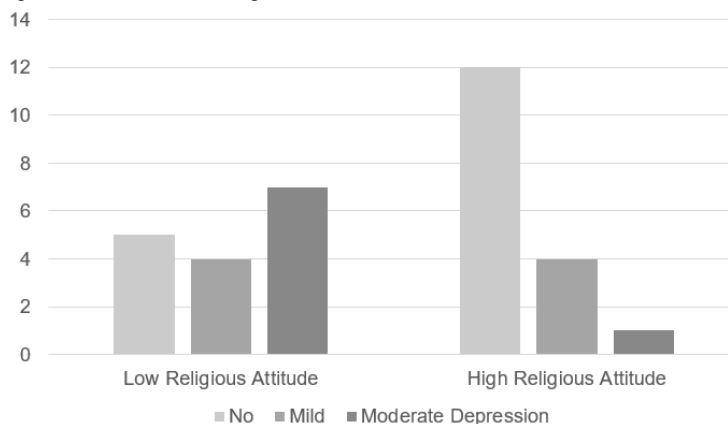


Figure 1: High vs. low religious attitude by categories of depression (N = 33).

Table 2: High vs. low religious attitude by categories of depression (N = 33).

Religious Attitude	Categories of Depression		
	No	Mild	Moderate
Low	31.3%	25.0%	43.8%
High	70.6%	23.5%	5.9%
Total group	51.5%	24.2%	24.2%

Chi² = 7.36, p = .025

Discussion

In a sample of university students in Iran, we found negative correlations between religious attitude with depression, anxiety, and stress that were statistically significant or highly significant. When dividing the sample into subgroups with regard to the severity of depression, significantly more students without depression symptoms were found in the high religious attitude group than in the low group.

I Comparison with Other Studies on the Association of Religiosity with Mental Health

The RASUS score of $M = 123.88$ ($SD = 21.09$) is similar to that obtained in the study of Meenatchii and Benjamin with $M = 119.7$ ($SD = 31.64$), which also used a student sample [32]. The BDI-II score in the current study was higher than in the original validation study of the Persian version, which also used an Iranian student sample: $M = 12.58$ ($SD = 9.54$) vs. 9.79 ($SD = 7.96$) [35]. The DASS is usually used in its 21-item version in Iran; therefore, we compare our results of the DASS-42 with a Turkish sample of university students. The scores in our sample were higher than in the study of Demirbatir: for depression $M = 14.15$ (10.38) vs. 12.24 ($SD = 9.52$), for anxiety $M = 12.79$ (8.29) vs. 11.67 ($SD = 8.74$), and for stress $M = 21.15$ (10.71) vs. 16.86 ($SD = 9.38$) [38]. This might – at least in part – be a consequence of the enduring economic sanctions on Iran that obviously also impact the stress level and mental health of Iranian citizens [39, 40].

The correlation between religious attitude and psychopathological variables found in the present study was moderate, between $-.35$ and $-.47$. These are higher than in a study with students in Kuwait ($-.23$) and much higher than those aggregated in meta-analyses that are typically around $-.10$ [6, 7, 12]. There might be several reasons. First, the measure of religious attitude used in this study might be more relevant for mental health than many other religiosity scales [26]. Second, the psychopathological variables (BDI-II and DASS-42) might be more responsive to religious attitudes than life satisfaction or other general well-being scales [6]. Third, Iran is a country where religion affects all areas of life and where religiosity has high importance. The relative importance of religiosity might increase the religiosity-mental health associations.

II Mechanisms of this Association

The question of which (causal) mechanism underlies the negative association between religious attitude and depression, anxiety, and stress is certainly one of the most important questions for future research. In principle, the association can be either due to a causal effect of religiosity on mental health, or due to a causal effect of mental health on religiosity,

or due to common factors influencing both religiosity and vulnerability to psychopathology [41].

With regard to a causal effect of religiosity on mental health, several possible mechanisms have been proposed and researched for a potential causal effect of religiosity on mental health. Social support, which is known as a buffer against stress, is often associated with the religious community and might be responsible for the positive effect of religiosity on health [42]. Involvement in this religious community gives individuals a sense of belonging [43]. Religiosity also gives individuals hope and a sense of meaning and purpose in life, which is, in turn, associated with mental health [44, 45]. In addition, self-transcendent positive emotions such as awe, gratitude and peace might be mediators of the association between religiosity and mental health [46]. Furthermore, religious virtues such as self-control, forgiveness and altruism might also mediate this association [47, 48].

With regard to a causal effect of mental health on religiosity, depression, anxiety and other psychopathological syndromes might affect religiosity in a negative way. For example, depression associated with loss of interest in previously pleasurable activities might also lead to withdrawal from religious activities [49]. For others, the reverse process might be true, i.e., some individuals might seek comfort in their religion in response to mental illness [50].

Finally, genetic and environmental factors might be common factors that underlie both religiosity and vulnerability to psychopathology. For example, parental modelling and attachment styles might influence religious development and at the same time, personal resources, which reduce the vulnerability to mental disorders [41]. However, research accumulates evidence that the heritable contribution of religiosity is rather distinct from depression, suggesting that there are no common genetic factors for religiosity and depression [51]. Longitudinal studies with a larger number of potential variables are needed in order to disentangle the various potential mechanisms behind the religiosity-mental health association.

III Limitations

There are some limitations to this study that should be considered in the interpretation of the results. First, this is a cross-sectional study; thus, no causal inferences on the religiosity-mental health association can be made. Second, we used only one religiosity variable. We are convinced that religious attitude is one of the best religious predictors of mental health; however, we cannot conclude its relative importance unless other religious variables such as religious activities and devotion are also used. Third, only the presence of depression, anxiety, and stress was investigated. Measures of positive wellbeing, as well as psychiatric diagnoses, have not been applied. Forth, potential mediating variables

such as social support, sense of meaning in life, hope, gratitude, self-control, and forgiveness, among others, were not used. Future studies should address the role that other variables may have in this association in a longitudinal study. Fifth, this would necessitate a larger sample than 33 as in the present study. Sixth, the sample consists of university students, but not other young adults with a different working careers and no other age groups in Iran. Therefore, we cannot generalize our results to other Iranian or Muslim populations.

IV Practical Consequences for the Treatment

Based on our finding that religiosity is negatively associated with depression, anxiety, and stress, religious and spiritual themes (such as guilt and forgiveness) and practices (such as prayer and meditation) can be added to the standard psychotherapy. It has been suggested tailoring the treatment to the patient's values improves the efficacy [52]. Religious patients usually want to discuss spiritual issues in psychotherapy [53]. Therefore, psychotherapists should be sensitive to the patient's spiritual issues and also to the inclusion of interventions that may be in conflict with the patient's beliefs.

In a review of the effects of religion-accommodative psychotherapy for depression and anxiety, six studies incorporated the intervention with a Christian perspective, and five with an Islamic perspective [54]. Cognitive therapy (CT) was the secular control intervention in most of these studies. The studies showed that religion-accommodative psychotherapy was an effective treatment for patients with anxiety or depression, with outcomes equivalent, although not superior to the control CT interventions. In addition, results suggest that religion-accommodative cognitive therapy is more effective than secular CT for highly religious individuals. A more recent meta-analysis found similar results on Christian, Muslim, Jewish and Taoist adaptations of cognitive behavioural therapy (CBT) [55].

What are the aspects of religiosity and spirituality that are included in these religion-accommodative psychotherapies? Anderson *et al.* mention the following strategies in their meta-analysis [55]:

- i. "Discussion of religious teachings or scriptures as supportive evidence to counter irrational thoughts or to support cognitive or behavioural change;
- ii. Use of positive religious or spiritual coping techniques (for example, applying scriptural or spiritual solutions to the psychological problems of fear, anger, guilt, shame or despair);
- iii. Promotion of helpful belief or value systems, or use of shared value systems to strengthen therapeutic relationships;
- iv. Incorporation of religious practices such as prayer" (p. 187).

Informed Consent

The objectives and goals and detailed information about the assessment were explained to the participants. Written informed consent was obtained from all participants prior to inclusion.

Ethical Approval

The study protocol was approved by the ethics committee of the Islamic Azad University of Gachsaran, Iran.

Conflicts of Interest

None.

Funding

None.

Availability of Data and Materials

The data that support the findings of this study are available from the corresponding author, SF, upon reasonable request.

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