

Comparison the Effectiveness of Acceptance and Commitment Therapy and Compassion Focused Therapy on the Quality of Life and Tendency to Betray in Married Students with Tendency to Infidelity

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Abstract: This study was conducted to compare the effectiveness of acceptance and commitment therapy (ACT) and compassion-focused therapy (CFT) on quality of life (QOL) and infidelity tendency in infidelity-prone married students. This is a quasi-experimental research project with an expanded research design. The statistical population consisted of married students studying at the Islamic Azad University, Sirjan Branch in the 2018-2019 academic year. Using convenience sampling, 45 people were selected and randomly divided into three groups of 15 people (i.e., two experimental groups and one control group). The first group received ACT and the second group received CFT. Data were collected using The World Health Organization Quality of Life: Brief Version (WHOQOL-BREF) (1996) and Attitudes toward Infidelity Scale (ATIS) (Whathley, 2006). Data were analyzed by repeated-measures ANOVA and Bonferroni post-hoc test. The results showed that both therapies were effective on QOL and its dimensions except for environmental health ($p \leq 0.05$). Moreover, according to the findings, CFT was more effective than ACT in terms of physical health and, conversely, ACT was more effective than CFT in terms of mental health and social communication. Furthermore, the results showed a positive effect of both therapies on infidelity tendency in the statistical sample ($p \leq 0.05$). Meanwhile, ACT was more effective than CFT. Therefore, the use of both therapies improves the couple's QOL level as well as reducing their tendency to infidelity.

Keywords: Acceptance and commitment therapy, compassion-focused therapy, quality of life, infidelity tendency

Introduction

According to a general definition, marital infidelity is the violation of commitment in a two-person relationship that leads to the formation of degrees of emotional and physical intimacy with someone outside the relationship (Weeks, Gambescia & Jenkins, 2003). Infidelity is considered one of the two major causes of divorce and the collapse of marriage (Nowak, Weisfeld, Imamoğlu, Weisfeld, Butovskaya, & Shen, 2014). Men and women have different perceptions of their spouse's extra-marital relationship. Such a perception overshadows the emotional responses associated with their relationship (Kemer, Bulgan & Çetinkaya-Yildiz, 2016). Numerous factors are involved in facilitating the infidelity tendency; e.g. insecure attachment styles (Khayat,

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Atari, Karaei, 2018, Barata and Kane, 2005), maladaptive schemas (Zeigler-Hill, Green, Arnau, Sisemore, Myers, 2011; Aslani, Samadi Fard, & Sorani, 2015), infidel parents, emphasis on individualism and personal advancement in schools and universities, and subsequently replacing individual values with collective values, feeling less attachment to the spouse, emotional investment, and low intimacy (Ijtehadi and Vahedi, 2016). It has been estimated that 21-70% of women and 26-75% of American men have committed adultery (infidelity) at least once in their married life (Marchese Jeanfreau, 2009). Although some studies have pointed out the subject, there are no accurate statistics on this in Iran. For example, the highest number of domestic homicides (i.e., 30%) is related to women killed by their husbands due to having an affair (extra-marital relationship) and suspicion (distrust). On the other hand, 22% of domestic homicides are related to men killed by their wives; in 40% of cases, women have killed their husbands (Aghagedi, Golparvar, Aghaei, 2018). Kaveh (2008, quoted from Ijtehadi and Vahedi, 2017) concluded that 48% of women had evidence that their husbands are in a relationship with other women, 27% of men had sex with someone other than their wives, and 38% of women thought of having an emotional relationship with another man. Moreover, 13% of them thought of cheating on their spouses, of which 13% had an emotional relationship and 2% had sex. Hawkins AJ, Willoughby BJ, Doherty (2012) concluded that marital infidelity is one of the main reasons for divorce and referral to family counseling clinics. In 2013, The Gallup Institute showed that 91% of American adults believe that marital infidelity is illegitimate and morally wrong (Asayesh, Farahbakhsh, Delavar, Salimi Bajestani, 2018).

Studies on evolutionary psychology showed gender differences in response to the type of infidelities. From an evolutionary point of view, men evaluate their partner's sexual infidelity as more negative than emotional infidelity and show a stronger reaction to it, while women show the strongest reactions to emotional infidelity (Tagler & Jeffers, 2013). According to evolutionary studies, people with avoidant attachment styles suffer more from sexual infidelity rather than emotional infidelity (Kelly and Jack, 2006, quoted from Brase, Adair, & Monk, 2014).

Infidelity tendency can affect the quality of life (QOL) of people. QOL is the level of physical, psychological, and social well-being perceived by the individual, which indicates the degree to which the individual is satisfied with life blessings (Salimzadeh, Iftekhar, Pourreza, and Moghim Beigi, 2007). It includes three dimensions namely emotional, psychological, and social). The emotional dimension means feeling satisfied with life, the psychological dimension means having a rich life, and the social dimension refers to a sense of worthiness in social relationships (Wersebe, Lieb, Meyer, Hofer & Gloster, 2018). Ezzati and Kakabarai (2016) concluded that QOL could predict marital infidelity. Couple's QOL is an important aspect of family life that forms the psychological health and well-being of couples (Allendorf & Ghimire, 2013) and has a high correlation with their physical and psychological health. Therefore, it is considered as one of the significant predictors of a successful marriage and avoidance of marital infidelity.

Various studies and theories have been conducted and proposed so far about the factors and reasons for the emergence of extramarital affairs and sexual variety seeking (SVS) and its treatment and prevention methods. One such approach is Acceptance and Commitment Therapy (ACT) with six processes, which lead to psychological resilience. These include acceptance, cognitive defusion (aka deliteralization), self as the observer, a connection to the present, values, and committed action (Hayes, 2005). This treatment method causes people to change their relationship with their inner experiences (Arjmand Qajour and Eghbali, 2018). Verbal interactions in childhood and puberty affect a couple's future relationships. Thus, according to the theory of

communication framework, as the basis of the ACT approach, language and verbal interactions enrich the experience of love and intimacy, and at the same time cause problems. These problems can be solved using this method (Dahl, Stewart, Martell, Kaplan, 2014). Several studies have examined the effectiveness of ACT on infidelity tendency (Honarparvaran and Barati, 2016), motivation for infidelity of depressed women (Abbassi Cheshmeh Golek-e Sofla and Pour Kamal, 2019), marital satisfaction (Burpee & Langer, 2005), intimate interpersonal relationships (Baruch, Kanter & Busch, 2012), reduced marital frustration and increased quality of marital life (Nazari, Fallah Zadeh, Nazar Boland, 2017), marital boredom and commitment (Amidi Simkani, Najjar Pourian, Samavi, 2018), intimacy and forgiveness of couples (Saadatmand, Bassak Nejad, Amanollahi, 2017), self-efficacy and marital satisfaction (Kohodayari Fard, Hejazi, Hosseini Nejad, 2015), depression and infidelity tendency (Folke, Parling, Melin, 2012), increased marital forgiveness and intimacy (Ghassedi, Bagheri, & Kianmanesh, 2019), decreased depression and QOL (Mofid, Fatehi Zadeh, & Dorosti, 2017; Azizi & Ghassemi, 2017), increased QOL in cancer patients (Fashler, Samantha, Weinrib, Aliza, Azam, Katz, 2018), increased QOL in overweight women (Palmeira, Cunha & Pinto-Guveia, 2019), increased QOL in mothers of children with autism (Zare Bidaki and Jahangiri, 2019), and increased QOL in hypertensive women (Saeedian, Sohrabi, & Zemestani, 2019).

In the Compassion-Focused Therapy (CFT) approach discussed in the present study, individuals establish a kind relationship with themselves that reduces self-criticism and internalized shame. Neff & Gilbert are the pioneers in this area. According to this intervention, external thoughts, factors, images, and soothing behaviors must be internalized; in this case, the human mind can also relax in the face of these inner thoughts, as it reacts to external factors (Gilbert, 2014). Besides, in CFT, people are taught not to avoid and suppress their painful feelings; therefore, they can identify and feel compassion toward their experiences (Irons & Lad, 2017). CFT has been studied in various examples. These include its impact on QOL, self-management, and emotion management (Benzo, Kirsch, Abascal-Bolado, & Duloher, 2015), its effectiveness on QOL of adolescent girls with high-risk behaviors (Barghandan, Akbari, Khalatbari, Varasteh, 2018), the tendency to divorce and intimate attitudes of married women (Dasht Bozorgi, Askari, & Askari, 2017), emotion regulation (emotional self-regulation) of women affected by infidelity (Dash Bozorgi, 2017), QOL (Navab, Dehghani, & Salehi, 2018), and QOL of patients with multiple sclerosis (MS) (Shaker Nejad, Moazzen, Hamidi, Hashemi, Bazaz Zadeh, & Badaghi, 2017). To the best of our knowledge, there is no comparative research on the effect of these two therapies on the infidelity tendency and QOL of Iranian couples. In recent decades, infidelity is the most important factor in the increase in divorce rates. Therefore, the necessary solutions should be provided to address it to avoid the material and spiritual costs of the broken marital bond imposed on society. Hence, this study aimed to compare the effectiveness of ACT and CFT on QOL and infidelity tendency, as well as a three-month follow-up, in married students prone to infidelity.

Material and Method

This is a quasi-experimental research project with an extended research design (pre-test-post-test, with two experimental groups and one control group). The statistical population consisted of all married students aged 20-47 with an average age of 33.5 years ($n = 700$) studying at Islamic Azad University, Sirjan Branch in the 2018-2019 academic year. The convenience sampling method was used to select infidelity-prone married students. In the first step, to determine the cutoff point, since the questionnaire scores are on a spectrum, 30

married students aged 20-47 studying in technical and humanities colleges were randomly selected as pilots. They were then asked to complete questionnaires on infidelity and QOL. The cutoff score was defined after calculating the scores of these 30 individuals and estimating the mean and standard deviation of the components. This cutoff score was determined on attitudes toward infidelity questionnaire (ATIS) by two standard deviations above the average of the pilot group. The cutoff score of "QOL" was found to be as low as a standard deviation below the average of the pilot group. Then, in the first step, 500 couples aged 20-47 were selected using the convenience sampling method and the ATIS was done as the first screening. In the next step, 183 individuals who got the cutoff score in the QTIQ were selected. Afterward, they entered the second screening stage and completed the QOL Questionnaire. Of those, 78 who got the cutoff score were selected using the questionnaires. Then, 45 of them were randomly selected and divided into three groups, namely two experimental groups and one control group. It is of note that the members completed the profile form, containing the contact number to coordinate the meeting, the location of the meetings. Furthermore, they completed the questionnaires in the post-test and follow-up stage, as well as the consent form for conscious participation in the research. The two experimental groups underwent eight 90-minute sessions (once a week) at the Islamic Azad University, Sirjan Branch, in the second semester of 2018-2019 academic year under group-based ACT and CFT. Meanwhile, the control group did not receive any treatment. At the end of the sessions, members of all three groups re-completed the questionnaires as a post-test after three months in the follow-up phase.

The interventions were based on ethical research criteria, such as reassuring participants about the confidentiality of their information, voluntary participation in research, the researcher's commitment to answering questions about their experiences in practice, and holding workshops based on ACT and CFT therapeutic interventions for the control group after the end of the research.

Tools

Quality of Life Questionnaire: The WHOQOL-BREF Questionnaire was developed in 1996 by a group of experts from the World Health Organization (WHO) by modifying the items of a 100-item form. It has 26 items that assess four areas, namely physical, psychological, social relationships, and general health, with 7, 6, 3, and 8 items (a total of 24 items). The first two items measure only the general area of QOL. In the study conducted by Nejat, Montazeri, Holakui Naeini, Kourosh, and Majdzadeh (2006), test-retest reliability was obtained for the following scales: physical health = 0.77, mental health = 0.77, social relationships = 0.75, and environmental health = 0.84. Internal consistency was also obtained to be greater than 0.7 using Cronbach's alpha for all domains, while it was 0.55 for the range of the social relationship, possibly due to the small number of relevant items or its sensitive items.

ATIS: This scale, which was developed by Mark Whathley (2006), has 12 items each scored on a 7-point scale. Mark Whatley has reported Cronbach's alpha coefficient in the range of 0.87-0.90, indicating high internal consistency of the scale. Bokam et al. (2009, quoted from Mousavi, 2015) reported that Cronbach's alpha coefficient was 0.88 for the questionnaire. In Iran, the scale was used by Abdullahzadeh (2010, quoted from Mousavi, 2015) among 383 men and women randomly selected and living in Behshahr and Aliabad with a Cronbach's alpha of 0.84. In a study by Mousavi (2015), Cronbach's alpha was 0.86, indicating the optimal reliability of the scale.

Table 1. Session structure based on ACT

Session 1	Establishing a therapeutic relationship, introducing the structure of the meetings and emphasizing secrecy, adhering to group rules, obtaining the company’s consent in the research, conducting a pre-test questionnaire, familiarity with the ACT approach and case formulation
Session 2	Summarizing the previous session and receiving feedback from students, introduction, and review of experiential avoidance and awareness of its consequences, creating creative hopelessness and giving home assignment
Session 3	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, helping clients to identify dysfunctional control strategies and understanding the concept of “control is problematic”, explaining the concept of acceptance and its difference with the concept of submission, giving home assignment
Session 4	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, getting acquainted with the concept of cognitive fusion and fusion with oneself, past, future, getting acquainted with the concept of cognitive detachment and giving home assignment
Session 5	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, explaining mindfulness and introducing mindfulness techniques, body scanning, and mindful breathing and giving home assignment
Session 6	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, explaining the concepts of the self as the observer (self-observer), awareness of different sensory perceptions and separation from the senses of mental content, and giving home assignment
Session 7	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, explaining the concept of values using 80th birthday metaphor, motivation to change and empower clients to live better, setting goals based on values and giving home assignment
Session 8	Summarizing the previous session and receiving feedback from students, reviewing the assignment of the previous session, teaching commitment to action, reviewing internal and external barriers, identifying behavior plans according to values and commitment to act on them, summarizing meetings to share experiences of group members and achievements and fulfilled/unfulfilled expectations, thanking the students for participating in the group and preparing them for the end of the sessions (i.e., conducting the post-test and ending the session)

Table 2. Session structure based on CFT

Session 1	Establishing initial communication, getting individuals acquainted with the research topic, introducing the structure of meetings and emphasizing secrecy, adhering to group rules and avoiding judging, blaming and ridiculing others, obtaining consent to participate in the research, conducting pre-test questionnaire, familiarity with general CFT principles, presenting current problems and signs, validating and understanding current problems, and conceptualizing four areas
Session 2	Summarizing the previous session and receiving feedback from students, teaching mindfulness along with the physical examination and breathing exercises, recognizing emotion regulation systems (e.g., defense, motivation, and security), and the role of security system in raising awareness, switching on the security system, and reducing the hyperactivity of defense and motivational systems, empathy training, giving home assignment

Session 3	Reviewing the previous session, introducing three brains (old brain, new brain or analyst, and conscious brain or mind), communicating with the conscious brain or mind, explaining the brain diagram, creating a feeling of warmth and kindness toward oneself, understanding that others also have flaws and problems, and fostering a sense of human commonalities (in the face of self-destructive feelings and shame, teaching empathy and giving home assignment)
Session 4	Reviewing the exercise of the previous session, encouraging subjects to self-knowledge (self-examination) and examining their personality as a compassionate or uncompassionate person, introducing compassionate reasoning and its difference with logical reasoning and techniques of kind attention and sensitivity to their suffering, being in the present, kind attention and activating the security system by compassionate imagery, and creating a safe place and giving home assignment
Session 5	Reviewing the exercise of the previous session, introducing compassion behaviors and practicing kind behavior instead of blaming oneself and others, practicing empathy and sympathy using the torch metaphor, and giving home assignment
Session 6	Introducing yourself (the dependent self, the imperfect and shamefaced self, the pessimistic self, the isolated self, the incapable self, the hopeless self, the narcissist self, the sacrificing self, the perfectionist self, and the kind self) and paying attention to thoughts, feelings, physical symptoms, and behavioral coercion that produces various selves in different areas of life, encouraging subjects to self-knowledge, examining one's personality as a compassionate or uncompassionate person according to educational topics, and giving home assignment
Session 7	Reviewing the exercise of the previous session, identifying values in different areas of life using great day metaphor, prioritizing values, using personal mental images to foster compassion and creating a compassionate identity through illustration and giving home assignment
Session 8	Reviewing the exercise of the previous session, explaining the acceptance and tolerance of distress by using metaphors of uninvited guests and daily notes of mental experiences about enduring distress, seeing suffering and communication with the conscious brain and compassion to the mind, determining the appropriate pattern of action with kind behavior (structure and challenge) to achieve values and a kind move toward values along with caring for well-being, and finally summarizing and providing a series of strategies to maintain and apply this treatment method in everyday life

Results

Collected data were analyzed using descriptive and inferential statistics. Table 3 presents the descriptive statistics of the experimental and control groups for each of the measurement steps separately (i.e., pre-test, post-test, and follow-up). The results of a descriptive study of dependent research variables and their components indicate an improvement in QOL scores and its components, except for environmental health component. Moreover, a decrease in infidelity tendency scores is seen in post-test and follow-up compared to pre-test in experimental groups.

Table 3. Mean and standard deviation of QOL and its dimensions and infidelity tendency according to different evaluation stages for each group membership separately

Group		Control (n=15)		ACT (n=15)		CFT (n=15)	
Variable		Mean	SD	Mean	SD	Mean	SD
Physical Health	Pre-Test	21.40	5.82	20.87	5.86	22.20	3.40
	Post-Test	21.93	3.08	24.80	4.64	29.27	2.93
	Follow-Up	19.40	4.01	29.80	3.05	33.07	1.48
Mental Health	Pre-Test	16.00	3.25	15.53	3.35	16.80	4.24
	Post-Test	16.33	3.61	24.60	2.79	19.53	2.85
	Follow-Up	15.80	3.02	26.13	1.84	22.40	3.29
Social Interaction Health	Pre-Test	8.20	1.32	9.60	1.05	9.33	1.95
	Post-Test	9.46	1.55	12.26	1.53	10.93	1.27
	Follow-Up	9.26	1.22	13.60	0.98	11.80	1.56
Environmental Health	Pre-Test	25.80	6.24	25.87	5.05	24.20	5.08
	Post-Test	25.07	4.26	27.53	5.09	27.40	4.56
	Follow-Up	24.07	3.03	28.13	6.20	28.80	6.17
Overall QOL Score	Pre-Test	71.40	13.83	76.27	6.96	71.53	7.64
	Post-Test	72.80	8.13	92.07	5.72	86.33	5.24
	Follow-Up	68.53	8.76	101.20	5.64	94.13	7.53
Infidelity Tendency	Pre-Test	28.67	9.25	31.60	4.59	33.53	8.52
	Post-Test	33.20	8.67	20.80	4.66	26.80	7.48
	Follow-Up	32.33	7.77	14.07	1.98	18.40	5.23

To test the research hypotheses, repeated-measures ANOVA was used, taking into account the assumptions of statistical tests. Before the test, statistical assumptions were examined. The Shapiro-Wilk test showed that the significance level of QOL and its dimensions and infidelity tendency in all stages of the test were >0.05 . Therefore, it can be concluded that the variable normality assumption is observed in the pre-test, post-test, and follow-up scores in terms of a group membership. Levene's test results for QOL and infidelity tendency variables were ($F = 97.3, P = 0.003$)-($F = 2.37, P = 0.053$), ($F = 1.68, P = 0.019$)-($F = 2.47, P = 0.054$), and ($F = 3.44, P = 0.041$)-($F = 1.85, P = 0.013$) in pre-test, post-test, and follow-up states, respectively. Therefore, the assumption of equal variances in the experimental and control groups is approved. The results of the significance level of Box's M test are greater than 0.05 in all levels of infidelity tendency and QOL analysis, except for the social components component. Therefore, the homoscedasticity assumption of the covariance matrix has been observed in the variables under study, except for the social relations component ($p > 0.05$). Sphericity assumption was examined by Mauchly's test. According to the results, the significance level is >0.05 for the

components of physical health, mental health, and social relationships and <0.05 for environmental health components and the overall QOL score. Sphericity of the variance-covariance matrix regarding environmental health and the overall QOL score was not confirmed. Huynh-Feldt test ($P>0.075$) was applied to interpret the findings of environmental health and the overall QOL score. Moreover, the results of Mauchly's test of sphericity for the infidelity tendency variable were rejected ($P<0.05$). Since the Greenhouse-Geisser epsilon was larger than 0.075, the Huynh-Feldt test was applied to interpret the findings. Table 4 presents repeated-measures ANOVA results on the effect of the independent variable on QOL and its dimensions.

Table 4. Between-group ANOVA results to investigate the effect of the independent variable (interventions) on QOL and its dimensions

Sub-Scales	Source	SS	DF	MS	F Value	Sig.	Eta
Physical Health	Time	81.2155	2	407.607	31.293	0.000	0.427
	Time*Group	75.9851	4	187.996	14.433	0.000	0.407
	Error	10.13394	84	13.025			
Mental Health	Time	948/696	2	348.474	33.163	0.000	0.441
	Time*Group	52.0525	4	131.263	12.492	0.000	0.373
	Error	88.6672	84	10.508			
Social Interaction Health	Time	15.2812	2	76.141	41.175	0.000	0.495
	Time*Group	33.052	4	8.263	4.468	0.003	0.175
	Error	15.3335	84	1.849			
Environmental Health	Time	74.059	1.464	50.603	2.597	0.098	0.058
	Time*Group	15.8306	2.927	53.579	2.750	0.052	0.116
	Error	11.77897	61.468	19.486			
Overall QOL Score	Time	52.25999	1.713	3093.165	66.732	0.000	0.614
	Time*Group	3569.496	3.426	1041.753	22.475	0.000	0.517
	Error	3352.244	71.955	46.352			
Physical Health		1199.304	2	599.652	25.996	0.000	0.553
Mental Health		829.881	2	414.941	42.520	0.000	0.669
Social Interaction Health		184.548	2	92.274	40.147	0.000	0.657
Environmental Health		124.548	2	62.274	1.199	0.312	0.054
Overall QOL Score		8459.215	2	4229.607	36.036	0.000	0.632

According to Table 4, the results of the within-group evaluation indicated a significant difference between pre-test, post-test, and follow-up scores on mental health, physical health, and social relationships with overall QOL scores regardless of group factor. Moreover, the components of mental health, physical health, and social relationships differ significantly in terms of the trend of changes in scores with the overall QOL score from pre-test to post-test and follow-up in the research groups. There was no significant difference in the environmental health component. Moreover, based on between-group ANOVA results, there is a significant difference between the three groups in terms of the QOL variable and its dimensions, except for the environmental health dimension. A pairwise comparison was applied to determine the most effective treatment method, with the results presented in Table 5.

Table 5. Pairwise comparisons of QOL variable scores and its dimensions for three groups

Variable	Group (i)	Group (j)	Mean Difference	Error	Sig
Physical Health	Control Group	ACT	-4.244	1.013	0.000
		CFT	-7.267	1.013	0.000
	ACT	Control Group	4.244	1.013	0.000
		CFT	-3.022	1.013	0.014
	CFT	Control Group	7.267	1.013	0.000
		ACT	3.022	1.013	0.014
Mental Health	Control Group	ACT	-6.044	0.659	0.000
		CFT	-3.533	0.659	0.000
	ACT	Control Group	6.044	0.659	0.000
		CFT	2.511	0.659	0.001
	CFT	Control Group	3.533	0.659	0.000
		ACT	-2.511	0.659	0.001
Environmental Health	Control Group	ACT	-2.200	1.520	0.465
		CFT	-1.811	1.520	0.712
	ACT	Control Group	2.200	1.520	0.465
		CFT	0.378	1.520	1.00
	CFT	Control Group	1.822	1.520	0.712
		ACT	-0.378	1.520	1.00
Social Interaction Health	Control Group	ACT	-2.844	0.320	0.000
		CFT	-1.711	0.320	0.000
	ACT	Control Group	2.844	0.320	0.000
		CFT	1.133	0.320	0.003
	CFT	Control Group	1.711	0.320	0.000
		ACT	-1.133	0.320	0.003
Quality of Life	Control Group	ACT	-18.933	2.284	0.000
		CFT	-13.089	2.284	0.000
	ACT	Control Group	18.933	2.284	0.000
		CFT	5.844	2.284	0.043
	CFT	Control Group	13.089	2.284	0.000
		ACT	-5.844	2.284	0.043

As can be seen in Table 5, both therapies have affected the components of physical health, mental health, social relationships, and the overall QOL score, with the effect of ACT greater than CFT's. Moreover, based on the results, none of the interventions had a significant effect on environmental health.

Table 6. Results of within-group and between-group ANOVA to investigate the effect of independent variables (interventions) on infidelity tendency

Variable	Source		SS	DF	MS	F value	Sig.	Eta	Power
Infidelity Tendency	Time	Huynh-Feldt	2110.000	1.775	1188.608	25.603	0.000	0.379	1.00
	Time*Group	Huynh-Feldt	2135.289	3.550	601.247	12.955	0.000	0.387	1.00
	Error	Huynh-Feldt	3461.387	74.558	46.425				
	Between-Group Factor		1931.378	2	965.689	16.378	0.000	0.438	0.999

According to Table 6, the results of the within-group evaluation indicated a significant difference between pre-test, post-test, and follow-up scores for the infidelity tendency variable regardless of group factor. Moreover, there is a significant difference between the trends of changes in infidelity tendency scores from pre-test to post-test and follow-up (i.e., the interaction between time and group) in the research groups. Also, based on between-group ANOVA results, there is a statistically significant difference between the three groups in terms of the infidelity tendency variable. A pairwise comparison was performed to determine the most effective treatment method, with the results presented in Table 7. As can be seen in Table 7, both ther-

apies have influenced infidelity tendency, with the effect of the ACT being greater than CFT's.

Table 7. Pairwise comparisons of infidelity tendency scores for three groups

Variable	Group (i)	Group (j)	Mean Difference	Error	Sig.
Infidelity Tendency	Control Group	ACT	9.244	1.619	0.000
		CFT	5.156	1.619	0.008
	ACT	Control Group	-9.244	1.619	0.000
		CFT	-4.089	1.619	0.046
	CFT	Control Group	-5.156	1.619	0.008
		ACT	4.089	1.619	0.046

Discussion

This study was conducted to compare the effectiveness of two approaches, namely ACT and CFT, on QOL and infidelity tendency in students with infidelity tendency. The results showed that both approaches affected promoted QOL and decreased infidelity tendency in students with infidelity tendency. Moreover, the ACT approach has been more effective than CFT in terms of mental health, social health, and QOL. This result is consistent with those obtained from research by Barghandan et al. (2018), Zare Bidaki, and Jahangiri (2018), Fashler et al. (2018), and Shakernejad et al. (2017). Based on the results of the presents study, it can be said that people with infidelity tendency suffer from psychological stress due to obsessive thoughts and preoccupation with someone other than their spouse, lack of common goals with their partner, having marital conflicts and sexual incompatibility, and lack of sexual satisfaction (Ducan, Morgan, and Ducan, 2007). They also become involved in inappropriate social relationships that can affect their psychological and social QOL. Therefore, in the first place, the ACT approach provides individuals with the opportunity to change their relationship with their inner experiences, reduce experiential avoidance of annoying thoughts and feelings related to infidelity, and take action to control them. In the second place, it teaches people how to increase their activity in valuable ways (Gilbert, 2014). ACT focuses more on increasing QOL rather than reducing symptoms, by creating a rich, fulfilling, and meaningful life for the individual as its ultimate goal. People treated with ACT learn how to spend their energy increasing their QOL by accepting annoying internal events instead of avoiding them. They also learn how to identify and adhere to goals that are consistent with their values, and to commit to their goals instead of mixing them with thoughts of infidelity and acting on them by distancing themselves from those thoughts. Side effects and detachment from internal events and actions based on personal values can lead to a person's peace of mind, improved interpersonal relationships, and consequently increased psychological and social QOL.

In this study, CFT caused an increase in the mental, social, and physical QOL of subjects. Creating a non-judgmental, compassionate, flexible, and moment-by-moment relationship can be helpful in a variety of ways using mindfulness techniques in the interpersonal relationships of couples that have the potential to commit infidelity. Taking advantage of mindfulness and creating a sense of adequacy in couples makes them enjoy their existing relationships and use all their efforts in marital relationships based on value-oriented goals, thereby increasing their psychological and social QOL. Based on the results of this study, the effectiveness of CFT has been higher than ACT's in terms of physical health and QOL. This result is in line with the research by Barghandan et al. (2018), Saeidian, Sohrabi and Winter (2019), Palmyra, Kanaha, and Pinto Guaya (2019). To explain this conclusion, we can refer to the results of recent studies on neuroscience and brain

imaging. They show that compassion expression practice for others and oneself leads to changes in the pre-frontal cortex, immune system, and overall health (Lopez, Sanderman, Smink, Zhang, Van Sandren, Rankor, and Scravers, 2015). There was no significant difference between the three groups studied in environmental health. The results showed that none of the interventions had a significant effect on environmental health. The need for clinical trials in ACT and CFT is still in its infancy. As a result, more controlled studies seem necessary in this regard. The results prove the effectiveness of both therapies on the infidelity tendency, with the effect of ACT being more than that of CFT. This result is consistent with the findings of Honar Parvaran and Barati (2016), Abbasi Cheshmeh Golk Sofla and Pourkamali (2018), Honar Parvaran (2014), Burpee & Langer (2005), and Baruch, Counter, and Bush (2012). Many studies have addressed the relationship between maladaptive schemas, marital satisfaction, and infidelity tendency. These include Aslani, Samadi Fard, and Sudani (2015) and Khodabakhshi Kolaei, Basati Motlagh, Tajik Ismaili, and Rahmatizadeh (2014), to name a few. By identifying behaviors arising from the schema and replacing them with value-oriented behaviors, ACT can affect marital satisfaction and reduce infidelity tendency. ACT leads to the clarification of values in individuals and the identification and clarification of values, enabling to highlight their value system. Hence, it can lower marital infidelity because it is considered a special anti-value by women. On the other hand, people's capacity to recognize their own and others' emotions increases as a result of therapy acceptance and commitment. Thus, it contributes to motivating them to improve the quality of their relationship and more control over their behavior (Honar Parvaran and Barati, 2016). Another effect of ACT is forcing people to stay committed to their marital duties based on their value system. This effect leads to an enhanced QOL in individuals and subsequent strong emotional relationships and adoration. After the improvement of emotional and romantic relationships between couples, the infidelity tendency decreases dramatically. Using the ACT approach, individuals learn that marital satisfaction does not mean that there should be no conflict in the relationship between the couple; instead, they learn that sometimes a satisfying relationship requires a confrontation with and acceptance of negative situations. Using this approach, individuals enjoy higher psychological resilience. As a result, they are better able to cope with the suffering and stress of marital conflict, which can lead to reduced life satisfaction and consequently lower infidelity tendencies. From the ACT's point of view, avoiding internal events creates a harmful process. People with an infidelity tendency may try to get rid of these thoughts completely. The ACT is based on such avoidances to fundamentally solve individual conflicts to experience and distance oneself from thoughts instead of controlling them. By identifying behaviors arising from the schema and replacing them with value-oriented behaviors, ACT can affect marital satisfaction and reduce infidelity tendency (Aslani, Samadi Fard, and Sudanese, 2015) (Kolaei Divorce, Absolute Basati, Tajik Ismaili, and Rahmatizadeh, 2014).

This study showed that using CFT could reduce the infidelity tendency. According to the CFT approach, there is a correlation between compassion for others and self-compassion. Self-compassion involves the expansion of love, affection, and understanding of one's own pain and suffering (Neff, 2009). The results suggest that unkind behavior and lack of self-compassion will lead to unkind and compassionate behavior toward others (Neff, 2009). In contrast, self-compassion leads to kind and compassionate behavior toward others. Neff & Beretras (2013) found that people with higher self-compassion ratings showed more positive behaviors in their relationships, which could be effective in preventing infidelity. Also, in CFT, by taking advantage of the distress tolerance training in the passion dimension, people learn that they should not suppress their painful feelings. Therefore, in the first step, they can identify their experience and be compassionate about it (Irons and

Lad, 2017). Having self-compassion activates people's security system. Moreover, self-compassion exercises focus on relaxation and mindfulness, which will play a significant role in mental relaxation, stress reduction, and negative thoughts (Gilbert, 2014; Neff & Germer, 2013). As a result of these exercises, marital conflicts and the probability of infidelity tendency is declined. Moreover, research has determined the relationship between insecure attachment styles and infidelity tendency (Ghafouri, Golparvar, and Mehdi Zadegan, 2009). In this regard, Ho, Chen, Bond, Hui, Chan, and Friedman (2012) concluded that there is a link between insecure attachment styles and people's low commitment to marital relationships. Based on attachment theory, it can be stated that people with insecure attachment styles have self-criticism and internalized shame. Therefore, using self-compassion techniques, CFT can lower people's self-criticism and internalized shame and set the stage to reduce infidelity tendency by modifying attachment styles. Self-compassion leads to a clear and balanced awareness of current experiences and causes the painful aspects of an experience not to be overlooked and not to become a recurring obsession (Neff & Mac Gehee, 2010). Self-compassion training leads to acceptance and kindness to oneself and others. Consequently, when faced with unpleasant thoughts and feelings (such as infidelity tendency), couples show positive self-regulation that leads to the promotion of sincere attitudes toward a more purposeful life and allows for attractiveness, decent behavior, and trust between married people with an increase in self-esteem in marital relationships. The more the self-compassion is, the more gratification, satisfaction, and positive emotions are provided in the married life (Askari and Askari, 2017).

Marital infidelity can negatively affect a couple's QOL and psyche. Given the increased potential for infidelity among Iranian couples, the need to design a series of interventions that can prevent infidelity and the resulting damage that can put the deathblow on the whole body of society is increasingly felt. Using these preventative measures allows helping a healthy life and QOL of couples.

One of the limitations of this study is the statistical population, which was consisted of married students aged 20-47 years studying at the Islamic Azad University, Sirjan Branch. Thus, the generalizability of the obtained results was not adequate. So, it is suggested to conduct the present research in other universities of the country and to examine the similarities and differences between the results of that research and those of the present study.

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