Correlation between self-esteem and self-compassion in patients with multiple sclerosis – a cross-sectional study

Korelace mezi sebeúctou a soucitem vůči sobě u pacientů s roztroušenou sklerózou – průřezová studie

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Abstract

Aim: This study was performed to determine the correlation between self-esteem and self-compassion in patients with MS. *Methods:* This descriptive study was performed on 51 patients with MS from multiple cities of Iran. Patients were selected through available sampling method. Standard self-esteem tools and self-compassion researcher-made tools were used in patients with MS in order to collect data. Data were analyzed using the Pearson correlation coefficient and SPSS software version 20. *Results:* The mean age of participants was 36.54 years. Most of the participants were women and married. The results showed only statistically in significant correlation between self-esteem and dimensions of self-kindness (r = 0.205), self-judgment (r = 0.024), common sense of humanity (r = 0.111), mindfulness (r = 0.24), seeking support (r = 0.145) and being a model for others (r = 0.57) in self-compassion (P > 0.05 in all cases). *Conclusion:* Providing appropriate solutions to increase self-esteem and self-compassion in these patients will cause to correct and improve the quality of mental and ultimately physical condition of these patients.

Souhrn

Cíl: Tato studie byla provedena s cílem stanovit vztah mezi sebeúctou a soucitem vůči sobě u pacientů s RS. *Metody:* Tato deskriptivní studie byla provedena na 51 pacientech s RS z několika měst v Íránu. Pacienti byli vybíráni pomocí dostupné metody vzorkování. Pro sběr dat byly u pacientů s RS použity standardní nástroje pro hodnocení sebeúcty a nástroje vytvořené výzkumníky pro hodnocení soucitu vůči sobě. Data byla analyzována pomocí Pearsonova korelačního koeficientu a softwaru SPSS, verze 20. *Výsledky:* Průměrný věk účastníků studie byl 36,54 let. Většina účastníků byly vdané ženy. Při soucitu k sobě výsledky ukázaly pouze statisticky nevýznamnou korelaci mezi sebeúctou a mírou laskavosti k sobě (r = 0,205), sebehodnocením (r = 0,024), celkovým smyslem pro lidskost (r = 0,111), uvědomělostí (r = 0,24), hledáním podpory (r = 0,145) a tím, že je daný člověk vzorem pro ostatní (r = 0,57) (ve všech případech p > 0,05). *Závěr:* Poskytnutím vhodných řešení pro zvýšení sebeúcty pacientů s RS a jejich soucitu k sobě samým, u nich dojde ke korekci a zlepšení kvality duševního a nakonec i fyzického stavu.

Introduction

Today, MS is considered to be one of the major management challenges in chronic diseases in the world. According to the latest Global Burden of Disease report, more than 2,188,221 people in the world have MS, which indicates an increase of 10% compared to 1990 [1]. Therefore, according to the latest information, in 2019, there are more than 36,287 patients with MS in Iran [2].

Multiple sclerosis is the most common inflammatory neurological disorder, especially in young people [3]. Due to its greater impact on young people as an economically active population, MS causes irreparable effects on the lives of individuals, families and communities [4]. MS leads to affect the psychological dimensions and reduce the quality of life in these patients due to the increasing complications of drugs or disease progression as well as having long-term complications (muscle spasms, paralysis especially in the legs, urological problems, sexual dysfunction, and mental disorders) [5,6]. MS

causes increased anxiety, depression, stress, fatigue and long-term suffering in these patients [7–9]. Existing therapies for the treatment of psychological complications are drugs that, in addition to many long-term benefits, cause various complications, such as sleep disorders and gastrointestinal complications [10]. Psychiatric complications in MS patients cause emotional and psychological responses in them [11].

Numerous factors, including self-compassion, affect how people respond emotionally to distressing events [12]. Self-compassion is an adaptive way of communicating with oneself when a person becomes aware of incompetence and encounters difficult situations in life, such as interpersonal problems, leaving behind trauma and natural disasters, and chronic diseases and causes a person to have a cautious and non-judgmental view of oneself, including failures and in-competencies [13]. Self-compassion is associated with lower depression and higher negative emotions and mental health. Self-compassion provides all the benefits of high self-esteem, such as higher mental well-being and better overall adaption without problems. But self-compassion is not the same as self-esteem. However, in case of low self-esteem, it is difficult to increase self-compassion and lack of compassion is related to low well-being and self-esteem [14].

Severe stress associated with chronic diseases can significantly reduce a person's self-esteem, and people are prone to low self-esteem during the course of a chronic disease due to sense of loss of control over many issues related to their health and the complications caused by the disease. If patients with MS also have lower level of self--esteem, this matter can lead to decreased life satisfaction, increased prevalence of depression and other physical diseases [15]. This is why people with high self-esteem have a high sense of empowerment and value and ensure that their efforts will lead to a result and they see most of the good aspects of the issues and do their best effort to take control of the disease and overcome it. A review of studies also confirms that people with higher self-esteem are more resistant to life issues, problems, and psychological stresses than people with low self-esteem, and as a result, they are more likely to succeed in doing works [16,17].

Neff stated that although these two components (self-compassion and self-esteem) are distinct and separate from each other, it is expected that self-compassion and self--esteem are related to each other, so that people with low self-compassion should have less self-esteem due to their extreme judgment, a sense of isolation and excessive identity with negative thoughts and feelings. Conversely, people with high self-compassion should have more self-esteem due to their kind behavior and mental reminder that incompetency is part of the human conditions [18].

However, since self-compassion is a context-dependent trait and influenced by norms, values, and procedures of group, and studies show that the level of self-efficacy vary across different cultures, the findings of Neff et al [19] indicate different levels of self-compassion in Taiwan and Thailand as Asian countries than in the United States, and this concept (of self--compassion) is considered as a value that these values are chosen by individuals, change and vary from person to person, and how people respond to stressful and painful situations is affected by them, and self-esteem means a sense of self-worth. This feeling comes from a set of thoughts, feelings, emotions and experiences during life [19–21].

It seems that there are different methods in understanding the concepts of self--esteem and self-compassion in different patients that affect how these concepts are related. Also, a correct understanding of these concepts can help patients and health staff to better adapt to the disease in the long-term. Therefore, this study was carried out to investigate the correlation between self-compassion and self-esteem in patients with MS.

Methods

Design and participants

This cross-sectional study was performed on 51 patients with MS referred to MS associations in Zahedan, Ahvaz, Kerman, East Azerbaijan, Ardabil, Yazd, Fasa, Astara, Amol, Sabzevar and North Khorasan in Iran from January 10 to July 20, 2020. Participants were selected through the convenience sampling method. The inclination criteria included patients with known MS who had been diagnosed at least for 6 months, aged between 18–50 years, without any drug addiction, having minimum literacy, ability to respond to questionnaire questions, no hearing impairment (if he/she is not able to fill in the questionnaire, someone else will read it to him/her and the patient will express his/her opinion), patients who are not in the acute phase of MS, and without any disease and any acute or chronic mental disease such as severe depression and forgetfulness. The exclusion criteria were unwillingness to continue to participate in the study for any reason, causing complications, known serious mental disorders and a disease during the study (mental disorders including major depression or bipolar disorder), the occurrence of a stressful event in life that causes to disrupt a person's psychological balance like the death of a loved one.

Data collection

First, the researcher, after obtaining official permission from the University Ethics Committee, obtained the necessary letter of introduction to enter the research environment of MS associations in the cities where the research was carried out. In this way, the questionnaire was designed electronically and provided to the MS associations and the presidents of the associations, and after their approval in terms of the quality of the questionnaires and the ability of patients to respond to them, it was provided to patients who are members of the associations (Associations of Zahedan, Ahvaz, Kerman, East Azerbaijan, Ardabil, Yazd, Fasa, Astara, Amol, Sabzevar and North Khorasan) to be completed.

Tools

The data collection tools included a questionnaire of personal characteristics (age, sex, field of study – setting the study conduced, marital status, and place of residence) and Rosenberg self-esteem scale (RSES) and a self-compassion researcher-made questionnaire.

Rosenberg self-esteem questionnaire

This is a standard 10-item questionnaire developed by Rosenberg in 1965 that identifies a person's general feeling about self--esteem. Answering the questions is based on a four-point Likert scale, with scoring range is from zero to three scores including: strongly disagree (0), disagree (1), agree (2) and strongly agree (3), where a score of 30 is the highest score. Scores > 25 indicate high self-esteem, scores 15–25 indicate moderate self-esteem, and scores < 15 indicate low self-esteem [22]. The reliability of this tool was confirmed in the study performed by Pullman and Allik with a correlation coefficient of 0.91 [23]. RSES reliability and validity was approved by Shapurian et al [24].

Self-compassion researcher-made questionnaire

This questionnaire has 73 items and measures self-compassion in 11 dimensions in-

Tab. 1. Characteristics of study participants.

N	51
mean age (year)	36.54
sex	
female	48
male	3
marital status	
single	7
married	44
educational status	
elementary school	3
guidance school	5
diploma	20
associate of science	8
bachelor's degree	13
master's degree	2
different levels of severity of disease and its complications	
eye problems (poor eyesight)	15
difficult walking (walking disorder)	8
urinary and bowel problem	4
fatigue	8
muscle weakness	16

N – number

Tab. 2. Correlation between dimensions of self-compassion scale and self-esteem in patients with MS.

Dimensions of self-compassion scale	Self-esteem in patients with MS	
	r	P
self-kindness	0.205	0.149
self-judgment	0.024	0.868
common sense of humanity	0.111	0.437
isolation	−0.104	0.467
mindfulness	0.196	0.169
over-identification	−0.096	0.503
seeking support	0.145	0.308
concealment	−0.136	0.342
spiritual resilience	−0.065	0.648
concern about marial life	−0.061	0.673
becoming a role model for others	0.057	0.693
total	−0.010	0.944

cluding self-kindness, self-judgment, common sense of humanity, isolation, mindfulness and over-identification, seeking support, concealment, spiritual resilience, and being a model for others, worrying about cohabitation in patients with MS with five--point Likert scale (always, most often, often, rarely and never).

Statistical analysis
SPSS V20 software (IBM, Armonk, NY, USA) was used for data analysis. Descriptive (mean, percentage, frequency) and analytical (chi-square) tests were used. The significance level was considered lower than 0.05.

Results
Characteristics of study population is presented in Tab. 1.
According to the Pearson correlation test, only statistically insignificant direct correlation was observed between self-esteem and the dimensions of self-kindness, self-judg-ment, common sense of humanity, mindfulness, seeking support and being a model for others and statistically insignificant indirect correlation between self-esteem and dimensions of isolation, over-identification, concealment, spiritual resilience and concern about martial life. The Pearson correlation coefficient with the whole questionnaire was also not significant (Tab. 2).

Discussion
The aim of this study was to determine the correlation between self-esteem and self-compassion dimensions in patients with MS.

The results of the presented study showed that self-kindness, common sense of humanity, and mindfulness were directly related to self-esteem. It was shown that people with self-compassion (people who have compassionated toward themselves) had many psychological strengths, such as greater happiness and optimism [20]. These three dimensions of self-compassion are adaptive in nature and show that if a person experiences a negative life, the person's approach to oneself is warm, gentle, and kind, and in this way, the person can experience more positive and less negative feelings [25]. According to the results of the presented study, another dimension with direct relationship to self-esteem is self-judgment. Internal stigma is a form of self-judgment and occurs when people internalize society's negative views toward themselves. Internalized stigma affects people's perceptions of themselves and thus leads to blame and guilt [26]. However, a patient with a chronic disease such as MS may hide his or her illness from others to avoid the stigma. This issue is also related to the dimension of concealment, which according to the results of the presented study has an indirect relationship to self-esteem. Joachim and Acorn showed that patients with chronic diseases with visible or invisible symptoms hide their disease from others for various reasons such as stigma and isolation, and patients with MS who have both visible and invisible symptoms were no exception to this rule and tried to hide their disease [27]. And it seems that since the questionnaires were distributed electronically among the patients and the researcher did not have face-to-face communication with the patients, these patients tried to hide their disease from others and thus had less self-judgment and as a result, this component has a direct relationship with self-esteem. Other dimensions of self-compassion that are directly related to self-esteem are seeking support and being models for others, both of which require acceptance and social support from the point of view of other people and their peers and family.

Social support can be described as social and psychological support provided by the environment. The individual social support system includes peers, friends and family members, and among them, the family and peers are the most important

sources of social support. A person's psychological growth starts in the family, but later on, peers become important. Acceptance by peers positively affects self-acceptance and self-confidence. An adolescents' self-esteem, which is loved, admired and accepted by their peers, will also cause positive growth. A person with low self-esteem believes that important people, especially his parents, do not like and do not appreciate him. For this reason, it can be assumed that there is a direct relationship between self-esteem and social support [28].

If this issue is also seen in patients with MS and they seek support from family or treatment team, the findings of Harris et al [29], in line with the results of the presented study, showed that there was a direct relationship between individuals' social status and level of self-esteem and their relationship was reciprocal at all stages of the development throughout life. Also, Arslan [28] in his study showed that there was a direct and significant relationship between self-esteem and social support received from family and teachers.

According to the results of the presented study, it was found that the dimensions of isolation and over-identification had an indirect relationship with self-esteem. These dimensions of self-compassion mean that the person attributes mistakes and failed life experiences to his/her performance, and strongly recognizes negative emotions when faced with failure. Isolation and over-identification involve negative evaluation of the person and feelings when experiencing a stressful and painful event. Therefore, these dimensions of self-compassion are inconsistent.

One of the other dimensions of self-compassion, which has an indirect relationship with self-esteem in patients with MS, is spiritual resilience [30]. Spiritual resilience is the ability to maintain feelings and goals through a set of beliefs, principles, or values using internal and external spiritual resources when faced with pressure, stress, and trauma [20]. Borji et al [31] suggested self-esteem as a mediator between spiritual health and resilience and stated that since spiritual and religious beliefs were important issues in the lives of Iranians, the field of self-esteem could be strengthened through spirituality education and increased positive attitude towards life [31]. The results of their study contradict the presented study.

Another dimension of self-compassion, which has an indirect relationship with self-esteem in patients with MS, is worrying about cohabitation [32]. When physical health is impaired in a chronic disease, patients' interactions with their relatives and partners are severely affected, and they become concerned about their cohabitation and this leads to decrease their self-esteem. Consistent with the results of the presented study, the results of a study by Erol et al [33] showed that high self-esteem was beneficial in romantic relationships. In addition, research using data from both partners showed that high self-esteem also had a positive effect on the partner's happiness in the relationship. Finally, in general, self-esteem indirectly correlates with self-compassion dimensions This may be because MS has a great negative effect on patients' self-esteem by causing cognitive and psychological changes. Self-compassion is also more changeable than self-esteem, which is difficult to increase if self-esteem is low [14].

The most important limitation of the presented study is a descriptive character of the study that should be considered when interpreting the results. Another limitation is a low sample size, which was partly due to the study time during the COVID-19 pandemic, which resulted in fewer visits and less access to patients. Despite the mentioned limitations, this study also has some advantages, including the fact that limited studies were performed so far on this topic and on patients in different cities.

Conclusion

Self-esteem and self-compassion are two independent structures, but self-esteem is directly related to some dimensions of self-compassion, and by planning to maintain and promote self-esteem, self-compassion can be maintained or enhanced in these dimensions, thus helping the individual to take advantage of self-compassion. In the dimensions that were indirectly related to self-esteem, these aspects, which are often negative aspects of self-compassion, can also be reduced by strengthening self-esteem. Therefore, it can be expected that providing appropriate solutions such as the implementation of effective educational programs and psychological counseling to increase self-esteem in patients with MS may improve the mental state of these patients to reduce the complications, problems and high costs of care and treatment of their disease and ultimately lead to an increase in the general health of MS patients.

Ethical principles

Conflict of interest

Acknowledgement

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