The Mediating Role of Emotion Regulation in the Relationship Between Defense Styles and Psychological Vulnerability Among Emergency Medicine Physicians

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Abstract

Background: Excessive work-related psychological pressures can endanger health by causing physical, mental, and behavioral complications.

Objectives: The present study aimed to investigate the mediating role of emotion regulation in the relationship between defense styles and psychological vulnerability among emergency medicine physicians.

Methods: The statistical population of this descriptive correlational study comprised all emergency medicine physicians working in Tehran hospitals in 2021 - 2022, from whom a sample of 380 was selected using cluster sampling. The research instruments included the symptom checklist-25 (SCL-25), The Defense Style Questionnaire (DSQ), and Cognitive Emotion Regulation Questionnaire (CERQ). The data were analyzed by structural equation modeling (SEM) in LISREL 8.8.

Results: Based on the results, the research model had a good fit (CFI = 0.96, root mean square error of approximation (RMSEA) = 0.058). There was an indirect relationship between the defense styles of emergency medicine physicians and psychological vulnerability, mediated by emotion regulation (P < 0.001). There were direct relationships between defense styles and psychological vulnerability, between emotion regulation and psychological vulnerability, and between defense styles and emotion regulation (P < 0.001).

Conclusions: Health professionals and therapists can thus reduce psychological vulnerability among emergency medicine physicians by improving their immature and neurotic defense styles and enhancing their cognitive emotion regulation.

Keywords: Emotions, Defense Styles, Vulnerability, Emergency Medicine

1. Background

Occupations are one of the main causes of psychological vulnerability (1). They form people’s social identity, meet their needs, establish social relations, and are key sources of stress. There is more stress in jobs that involve human communication (2). Excessive work-related psychological pressures can endanger health by causing physical, mental, and behavioral complications (3). These pressures can also diminish the quality of work by threatening organizational goals (4). Emergency medicine physicians face stressful settings which are very difficult to work in as they are full of injured and critically ill patients (5). An important criterion for evaluating the health of society is its level of mental health, and the higher this level of mental health is, the more dynamic and efficient the society will be (6). Vulnerability is defined as congenital or acquired readiness for mental disorders and maladjustments, consisting of biological, cognitive, emotional, and social components known as vulnerability markers (7). One’s inability to adapt to stressors and stressful situations leads to vulnerability. In fact, vulnerability is the risk of the occurrence of maladaptive responses in certain situations (8). According to some studies, the prevalence of mental harm in different societies ranges from 17.5 to 21.9% (9).

A variable that seems to contribute to psychological vulnerability among emergency medicine physicians is defense styles, i.e., the unconscious reactions of the ego, as a part of the personality, to reduce anxiety by changing the direction of perception of reality. These psychological defense states develop early in life. Through
Physicians working in high-risk hospital wards are exposed to mental pressure (26). When emergency medicine physicians are exposed to risky situations in the hospital setting, they experience extensive psychological pressure and physical, emotional, and social changes. Therefore, they become physically prone to heart diseases, emotionally prone to higher sensitivity in interpersonal relationships, aggression, anxiety, and depression, and socially and occupationally prone to frequent absenteeism. Moreover, the medical profession requires them to be patient and trustworthy and avoid expressing their disturbing feelings, which causes psychological problems.

2. Objectives

Accordingly, the present study aimed to investigate the mediating role of emotion regulation in the relationship between defense styles and psychological vulnerability among emergency medicine physicians.

3. Methods

The statistical population of this descriptive-correlational study comprised all emergency medicine physicians working in Tehran hospitals in 2021 - 2022. The population size was 950 according to the statistics, of which a sample of 380 was selected by cluster sampling. After checking the indicators and characteristics of the emergency departments of the hospitals, nine homogeneous hospitals were selected from 47 teaching hospitals affiliated with Shahid Beheshti, Tehran, and Iran Universities of Medical Sciences. Eighteen hospitals were exposed to mental pressure (26). When emergency medicine physicians are exposed to risky situations in the hospital setting, they experience extensive psychological pressure and physical, emotional, and social changes. Therefore, they become physically prone to heart diseases, emotionally prone to higher sensitivity in interpersonal relationships, aggression, anxiety, and depression, and socially and occupationally prone to frequent absenteeism. Moreover, the medical profession requires them to be patient and trustworthy and avoid expressing their disturbing feelings, which causes psychological problems.

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vulnerability. It measures eight main factors (anxiety, obsessive-compulsive disorder, interpersonal sensitivity, somatization, psychosis, paranoid ideation, depression, and phobia) and another factor that includes additional items. The 25 items in this checklist are scored on a five-point Likert scale from not at all (0) to very high (4). The checklist evaluates the respondent’s states during the last week. The total score is the sum of the scores of the nine factors and ranges from 0 to 100 (28). The reliability of this tool in the present study was confirmed using Cronbach’s alpha (\( \alpha = 0.86 \)).

The Defense Style Questionnaire (DSQ): The DSQ was developed by Andrews et al. (29) based on the hierarchical order of defense mechanisms. Its 40 items are scored on a nine-point Likert scale (from strongly disagree to strongly agree) and evaluate 20 defense mechanisms at three levels of mature, neurotic, and immature. The mature style involves suppression, sublimation, humor, and anticipation; the neurotic style involves pseudo-altruism, reaction formation, idealization, and undoing; and the immature style involves rationalization, projection, denial, devaluation, acting out, somatization, autistic fantasy, splitting, passive aggression, displacement, and isolation. The reliability of the DSQ in the present study was confirmed using Cronbach’s alpha (\( \alpha = 0.79 \)).

Cognitive Emotion Regulation Questionnaire (CERQ): Garnefski and Kraaij (30) developed the CERQ. It is a 18-item questionnaire evaluating cognitive emotion regulation strategies in response to threatening and stressful events on a five-point Likert scale from 1 (never) to 5 (always) based on the following four sub-scales for maladaptive strategies: Self-blame, other-blame, rumination, catastrophizing, and five subscales for adaptive strategies: Positive refocusing, planning, positive reappraisal, putting into perspective, and acceptance. Higher scores indicate greater use of that particular cognitive strategy by the individual. The reliability of the CERQ in the present study was confirmed using Cronbach’s alpha (\( \alpha = 0.90 \)).

### 3.2. Statistical Analysis

The data were analyzed in SPSS 24 and Lisrel 7.80. Structural equation modeling (SEM) was performed to test the research hypotheses.

### 4. Results

**Table 1** presents the descriptive characteristics of the variables in the research. As the values of skewness and kurtosis were in the range of (-1.96 to +1.96), the assumption of normality of the data distribution was confirmed.

Table 1. Mean, Standard Deviation, Skewness and Kurtosis of the Variables

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mean ± SD</th>
<th>Skewness</th>
<th>Kurtosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychological vulnerability</td>
<td>56.47 ± 15.41</td>
<td>-0.33</td>
<td>-0.17</td>
</tr>
<tr>
<td>Mature defense styles</td>
<td>28.98 ± 8.56</td>
<td>0.59</td>
<td>0.46</td>
</tr>
<tr>
<td>Neurotic defense styles</td>
<td>39.18 ± 13.79</td>
<td>0.76</td>
<td>0.69</td>
</tr>
<tr>
<td>Immature defense styles</td>
<td>97.01 ± 31.33</td>
<td>-0.27</td>
<td>-0.14</td>
</tr>
<tr>
<td>Positive cognitive strategies</td>
<td>32.06 ± 9.51</td>
<td>0.17</td>
<td>-0.43</td>
</tr>
<tr>
<td>Negative cognitive strategies</td>
<td>25.82 ± 7.21</td>
<td>0.22</td>
<td>-0.30</td>
</tr>
</tbody>
</table>

Abbreviation: SD, standard deviation.

**Table 2** demonstrates the correlations between research variables. Evidently, there were significant correlations between them (\( P < 0.001 \)).

According to the chi-square and root mean square error of approximation (RMSEA) criteria, the model provided a good fit to the data. **Table 3** gives the most important fit indices. Since all the indices had statistical adequacy, it is certain that the model had a good fit to the data.

**Table 4** lists the path coefficients along with the \( t \)-values for the direct relationships between the variables. Evidently, the direct relationships between research variables were significant (\( P < 0.001 \)).

There was an indirect relationship between the defense styles of emergency medicine physicians and psychological vulnerability, mediated by emotion regulation (\( P < 0.001 \)). According to **Table 5**, the mature defense style indirectly affected psychological vulnerability through positive cognitive strategies. The mature style indirectly affected psychological vulnerability through negative cognitive strategies. The neurotic style had an indirect effect on psychological vulnerability through positive cognitive strategies. It also had an indirect effect on psychological vulnerability through negative cognitive strategies. The immature style indirectly affected psychological vulnerability through positive cognitive strategies. Finally, the immature style indirectly affected psychological vulnerability through negative cognitive strategies.

### 5. Discussion

This study aimed to investigate the mediating role of emotion regulation in the relationship between defense styles and psychological vulnerability among emergency medicine physicians. An indirect relationship was found between the defense styles of the emergency medicine physicians and psychological vulnerability, mediated by emotion regulation. The immature defense style...
Table 2. Pearson Correlation Coefficients Between Research Variables

<table>
<thead>
<tr>
<th>Variables</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td>Psychological vulnerability</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mature defense styles</td>
<td>-0.46</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neurotic defense styles</td>
<td>0.41</td>
<td>-0.33</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Immature defense styles</td>
<td>0.50</td>
<td>-0.39</td>
<td>0.27</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positive cognitive strategies</td>
<td>-0.67</td>
<td>0.25</td>
<td>-0.26</td>
<td>-0.46</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Negative cognitive strategies</td>
<td>0.65</td>
<td>-0.24</td>
<td>0.30</td>
<td>-0.45</td>
<td>-0.68</td>
<td>1</td>
</tr>
</tbody>
</table>

*P < 0.001.

Table 3. Fit Indicators of the Models

<table>
<thead>
<tr>
<th>Fit Indicators</th>
<th>Ch²</th>
<th>GFI</th>
<th>AGFI</th>
<th>CFI</th>
<th>RMSEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research model</td>
<td>1328.20</td>
<td>0.98</td>
<td>0.95</td>
<td>0.96</td>
<td>0.058</td>
</tr>
</tbody>
</table>

Abbreviation: RMSEA, root mean square error of approximation.

Table 4. Direct Effects Between Research Variables

<table>
<thead>
<tr>
<th>Paths</th>
<th>β</th>
<th>t</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mature defense styles → positive cognitive strategies</td>
<td>0.28</td>
<td>5.03</td>
<td>0.001</td>
</tr>
<tr>
<td>Mature defense styles → psychological vulnerability</td>
<td>-0.54</td>
<td>-6.15</td>
<td>0.001</td>
</tr>
<tr>
<td>Mature defense styles → negative cognitive strategies</td>
<td>-0.51</td>
<td>-6.79</td>
<td>0.001</td>
</tr>
<tr>
<td>Neurotic defense styles → positive cognitive strategies</td>
<td>-0.32</td>
<td>-4.75</td>
<td>0.001</td>
</tr>
<tr>
<td>Neurotic defense styles → psychological vulnerability</td>
<td>0.35</td>
<td>6.27</td>
<td>0.001</td>
</tr>
<tr>
<td>Neurotic defense styles → negative cognitive strategies</td>
<td>0.33</td>
<td>6.54</td>
<td>0.001</td>
</tr>
<tr>
<td>Immature defense styles → positive cognitive strategies</td>
<td>-0.62</td>
<td>-7.29</td>
<td>0.001</td>
</tr>
<tr>
<td>Immature defense styles → psychological vulnerability</td>
<td>0.56</td>
<td>8.24</td>
<td>0.001</td>
</tr>
<tr>
<td>Immature defense styles → negative cognitive strategies</td>
<td>0.49</td>
<td>7.31</td>
<td>0.001</td>
</tr>
<tr>
<td>Positive cognitive strategies → psychological vulnerability</td>
<td>-0.42</td>
<td>-5.50</td>
<td>0.001</td>
</tr>
<tr>
<td>Negative cognitive strategies → psychological vulnerability</td>
<td>0.37</td>
<td>4.82</td>
<td>0.001</td>
</tr>
</tbody>
</table>

Table 5. Results of Analysis of Indirect and Intermediary Paths in the Model

<table>
<thead>
<tr>
<th>Predictor Variables</th>
<th>Mediator Variables</th>
<th>Criterion Variables</th>
<th>β</th>
<th>P</th>
<th>Total Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mature defense styles</td>
<td>Positive cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>-0.12</td>
<td>0.001</td>
<td>-0.66</td>
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<td>Mature defense styles</td>
<td>Negative cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>-0.54</td>
<td>0.001</td>
<td>0.73</td>
</tr>
<tr>
<td>Neurotic defense styles</td>
<td>Positive cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>0.35</td>
<td>0.001</td>
<td>0.48</td>
</tr>
<tr>
<td>Neurotic defense styles</td>
<td>Negative cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>0.35</td>
<td>0.001</td>
<td>0.47</td>
</tr>
<tr>
<td>Immature defense styles</td>
<td>Positive cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>0.56</td>
<td>0.001</td>
<td>0.82</td>
</tr>
<tr>
<td>Immature defense styles</td>
<td>Negative cognitive strategies</td>
<td>Psychological vulnerability</td>
<td>0.56</td>
<td>0.001</td>
<td>0.74</td>
</tr>
</tbody>
</table>

can manage their emotions with greater psychological adjustment and use adaptive mechanisms. As such, those who use maladaptive cognitive regulation strategies, e.g., catastrophizing and other blame, are more exposed to emotional problems, e.g., psychological vulnerability (anxiety and depression) (21). On the other hand, people who use adaptive cognitive emotion regulation strategies, e.g., positive reappraisal, putting into perspective, and acceptance, are less vulnerable to emotional problems such as anxiety. Apparently, people who have maladaptive emotion regulation strategies and low emotional distress tolerance are more prone to psychological vulnerability and distress in the face of severe stress. Due to their failure to recognize their emotions and feelings correctly, they lose the ability to adopt accurate, reasonable, and reality-based behaviors to alleviate their psychological vulnerability and stress. These people also have trouble using their emotions correctly (24). Furthermore, since cognition, emotion, and behavior interact, cognitive emotion regulation changes the function of cognitive systems and mitigates psychological vulnerability by controlling attention and cognitive outcomes of emotion.

Based on the results, adaptive emotion regulation strategies had a significant positive relationship with the mature defense style and a significant negative relationship with neurotic and immature defense styles. Maladaptive cognitive emotion regulation strategies also had a significant negative relationship with the mature defense style and significant positive relationships with neurotic and immature defense styles. These findings are consistent with the results of previous studies (32, 33). Overall, emotion regulation strategies and defense mechanisms are both functions of the ego in the integrated structure of personality, and the ego serves as the link in this relationship. Based on Freud's conceptualization, the ego is an organizing structure of personality; with cognitive functions including thinking, memory, and language, the ego communicates with the outside world and regulates internal impulses to respond to external expectations and realities. Thus ego, as the organizer of personality, possesses functions and responsibilities and is considered strong and mature if these functions are carried out optimally and efficiently. The strength of the ego is manifested in the ability to cope with and regulate adaptive emotions. The strength of ego, which needs to be examined in diagnosis and treatment, includes indicators of emotional resilience, impulse control, pain and failure tolerance, abstract and symbolic thought, and use of psychological (instead of physical) pathways for emotional discharge which, together, demonstrate the ability to cope effectively.

The present study had some limitations. The research design was cross-sectional, and the sample was limited to emergency medicine physicians in Tehran. The results should thus be generalized with caution. Moreover, self-reports were used to collect data, which may lead to bias in the results.

5.1. Conclusions

Emotion regulation mediated the relationship between the defense styles of emergency medicine physicians and psychological vulnerability. Therapists should, therefore, teach emotional regulation skills and mature defense styles to people with high psychological vulnerability and focus their treatment on training skills to control and deal with painful and difficult emotions and behaviors. Acquisition of these skills helps people recognize their emotions, realize how these emotions affect their lives, and learn how they can successfully adapt to them. It is also recommended that mental health professionals incorporate the findings of this study into their clinical measures to promote the mental health of emergency medicine physicians.

Footnotes

Authors' Contribution:  FR: Study concept and design, acquisition of data, analysis and interpretation of data, and statistical analysis; MRZB: Administrative, technical, and material support, study supervision; MRZB and
MAR: Critical revision of the manuscript for important intellectual content.

Conflict of Interests: All the authors declare that they have no conflict of interest.

Ethical Approval: The study was approved by the Ethical Committee of Islamic Azad University-Tonekabon Branch (code: IR.IAU.TON.REC.1402.003).

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