The Association among Cancer in Family History and Psychosocial Stress

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Authors’ contributions

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

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ABSTRACT

Aim: The purpose of this study is to look at the link among a family history of cancer, coping style, also emotional suffering.

Methods: The self-reporting questionnaire, coping style scale, also effect of occasion scale-revised were also used to assess 85 individuals through the family history of cancer also 74 normal patients.

Results: There have been substantial variations in nervousness, despair, cancer-exact distress, and psychological adjustment here between two groups of patients. Psychological discomfort (anxiety, sadness, and cancer-specific distress) was regarded as a negative coping style and the family history of cancer. In the family history and psychological discomfort, an undesirable coping style served as an intermediate.

Conclusion: People through the family history of cancer are now extra probable to have a negative coping style, which predisposes them to more severe psychological discomfort.

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1. INTRODUCTION

Researchers from throughout the world are focusing on fit females having the family history of breast tumor to examine connection among family history of tumor, coping style, also psychological suffering [1]. It has been found that cancer-specific discomfort was greater in females having the family history record of breast tumor than in those without the need for the family history record. Individual environmental adaptability and psychological wellness are greatly influenced by coping style [2]. Previous research has found that positive coping styles are connected with excellent psychosocial health, whereas negative coping styles are connected to maladjustment then are detrimental to discrete psychological well-being [3]. A study of healthy females having the family history of breast cancer found that 47 percent were afraid that they might acquire breast cancer in the future, and 29 percent indicated that their fear of developing breast cancer altered their everyday lives. In our nation, illness of breast tumor, lung tumor, and stomach cancer is pretty high. The participants of the current study were healthy people through the family history record of three types of tumor [4]. The current research goal was to identify coping styles that remain detrimental to subjective stress adaptation and to identify more good adaptation styles by exploring the association among cancer family history, coping style, and psychological pain that will offer respected data for psychological health meddling [5].

2. METHODOLOGY

The participants were split into 2 sets. One set consisted of strong persons through such disease family history (breast cancer, lung cancer or gastric cancer). Researcher enlisted the help of 82 healthy persons to attend cancer sufferers for their re-examination. This study was conducted at cancer departments of Mayo Hospital, Lahore, Services Hospital, Lahore and Anmol cancer Hospital, Lahore from June 2018 to May 2020. Patients were enrolled after obtaining informed and written consent from them. Patient’s data was collected after permission from Ethical Review Committee of the concerned hospital. We divided the patients in two groups, 1st the patients having family history of cancer and 2nd with the cancer patients without any family history. Then comparison of these two groups was shown in the result section.

First, humans used family history record as assertion and negative coping style as the predictor variables to start investigating forecasting impact of family history on deleterious coping style; second, researcher remained using negative coping style as assertion and concern (anxiety, cancer-specific anguish) as the regression model to start investigating prognostic result of negative coping strategy on anxiety: finally, hierarchical reversion method was conducted to analyze predictive effect of negative coping style on anxiety.

3. RESULTS

The overall amount of two-dimensional mood and anxiety questions extracted was 23. Intrusion, avoidance, and hyperarousal were all on the scale. The question number was 23. The term "case" was changed with "cancer" in this study, and total score of three components represents amount of cancer-specific suffering.

The valid representative sample was 83 people: 47 men and 36 females. The median age remained 45.612.7 years. The second set involved of healthy people with no cancer in their family background. In the program, we selected 78 healthy participants without any family history. The acceptable representative sample was 73 people: 39 men and 35 women. The median age was 45.912.8 years. The age, gender, education level, and economy in general differences were not significant statistically. Sex, age, educational position, career, monetary income, association with terminally ill cases, and cancer length are among the data collected.

There were a total of 26 questions, with 14 positive coping questions also 9 negative coping questions.

The better overall, more upset the sufferers are. In terms of vulnerability, despair, intrusion, avoidance, and hyperarousal, there was a substantial difference between the two groups (Table-I). Here remained not any substantial relationship among positive coping style and the five characteristics described above (concern, despair, intrusion, resistance, and hyperarousal). Family history in addition a poor coping style remained positively related to those elements.
Table 1. Parametric evaluation 1

<table>
<thead>
<tr>
<th>Group</th>
<th>Depression</th>
<th>Anxiety</th>
<th>Avoidance</th>
<th>Hyperarousal</th>
<th>Intrusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Family History</td>
<td>1.96±0.51</td>
<td>8.86±2.19</td>
<td>2.15±0.52**</td>
<td>8.16±2.04*</td>
<td>10.22±2.38**</td>
</tr>
<tr>
<td>Without family History</td>
<td>3.06±0.73**</td>
<td>12.27±3.1*</td>
<td>1.37±0.36</td>
<td>6.37±1.61</td>
<td>5.83±1.92</td>
</tr>
</tbody>
</table>

Table 2. Parametric evaluation 2

<table>
<thead>
<tr>
<th>Group</th>
<th>Depression</th>
<th>Anxiety</th>
<th>Avoidance</th>
<th>Hyperarousal</th>
<th>Intrusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative coping style</td>
<td>0.487</td>
<td>0.612</td>
<td>0.375</td>
<td>0.595</td>
<td>0.571</td>
</tr>
<tr>
<td>Family history</td>
<td>0.418</td>
<td>0.383</td>
<td>0.462</td>
<td>0.496</td>
<td>0.444</td>
</tr>
<tr>
<td>Positive coping style</td>
<td>-0.262</td>
<td>-0.303</td>
<td>-0.183</td>
<td>-0.228</td>
<td>-0.179</td>
</tr>
</tbody>
</table>

The current study used a three-step mediation effect testing technique to evaluate the function of negative coping style as an intermediate between family histories besides mental trauma. The findings revealed that negative coping style had a substantial positive predictive influence on nervousness, nonetheless when demographic variables were adjusted for, the predictive impact of family history diminished.

4. DISCUSSION

Various coping techniques can have an impact on an individual's personal emotional state, which in turn has an impact on their mental health condition [6,7]. The current study shows that individuals through the family history record had meaningly advanced stages of anxiety, sadness, and cancer-specific discomfort than individuals without a familial history. Family history, on other hand, has the substantial prognostic influence on psychological pain, which is connected with belief that individuals with the family history would likely get cancer in future. Coping style can operate as a controller or as an intermediate between stress and psychological reaction. Individuals with such a cancer family history must be aware that, while they may be predisposed to cancer owing to genetic factors, they must prevent needless worry; on the other hand, they must focus more on preventing cancer also strive to identify, identify, also treat cancer as soon as more likely. Hereditary cancer accounts for around 12 to 17 percent of all cancers [8]. There are records of family cancer in epidemiology studies. Colorectal tumor, breast tumor, retinoblastoma, in addition lung tumor had the greatest heritability. Though hereditary cancer shows that disease has a genetic component, it does not imply that all people will develop cancer as a result of hereditary factors. Cancer cannot be inherited, according to genetic study, and what humans acquire is a sensitivity to cancer. Certain cancers, just like colorectal cancer and breast cancer, have a hereditary propensity at the moment. Various coping techniques can have an impact on an individual's personal emotional state, which in turn has an impact on their mental health condition [9]. The present study reveals that individuals through the family history had meaningly higher levels of anxiety, sadness, and melanoma distress than individuals without a family history. Family background, on other hand, has the substantial extrapolative effect on psychological suffering, that is connected with the belief that individuals through such a family history would likely get cancer in future. Coping style can operate as a regulator or as an intermediate among pressure also psychological reaction [10].

5. CONCLUSION

The findings indicate that when individuals use a negative coping strategy to deal with stress, they will suffer advanced levels of negative emotions in addition psychological discomfort. Individuals with such the family history of tumor will remain concerned by "hereditary" cognition, also they remain expected to adopt the negative coping style, resulting in maladjustment. As a result, unpleasant emotions emerge, particularly cancer-precise sadness, that is detrimental to psychological health.

ETHICAL APPROVAL

As per international standard or university standard written ethical approval has been collected and preserved by the author(s).

CONSENT

As per international standard or university standard, patients' written consent has been collected and preserved by the author(s).
COMPETING INTERESTS

Authors have declared that no competing interests exist.

REFERENCES


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