Rehabilitation and social adjustment of people with burns in society

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ABSTRACT

The present study was conducted on rehabilitation and social adjustment of people with burns in society with the main objective to determine the relationship between social adjustment of people with burns and their psychosocial rehabilitation. The study was limited to the Burn Unit, Khyber Teaching Hospital, Peshawar, Pakistan. At bi-variate level, the following were observed: the relationship of psychosocial rehabilitation was highly significant (P = 0.000) considering that people with burns feel shame in the society, a highly significant relation (P = 0.000) was found between psychosocial rehabilitation and burn as the hurdle to contact other members of the society, a highly significant (P = 0.000) relation was found between psychosocial rehabilitation and perception that society provides social support to people with burns, a highly significant (P = 0.000) relationship between psychosocial rehabilitation and people with burns feel alienated from the society, a significant association (P = 0.042) was found between psychosocial rehabilitation and loss of social network, and a significant (P = 0.002) association between psychosocial rehabilitation and society insult toward people with burns. Regular provision of treatment, quota in job allocation for people with burns, initiation of stipend through Benazir Income Support Program, and keeping and updating record of burns at the district level in census centers were suggested as recommendations in light of the study.

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1. Introduction

Burns are injuries to tissues caused by heat, friction, electricity, radiation, or chemicals. Intensity of burns is usually measured with the size of body affected, place of body, and treatment received. Burn is a catastrophe covering both the physical aspect of human body and the emotions of an individual and associated community. It could be categorized into first degree, second degree, and third degree according to quality, volatility, and varying nature [3]. The altered physical condition due to burn is a barrier in way of interacting with other members of the society and causes feeling of inferiority [1]. This situation often leads to psychological problems, discouragement, loss of social network, and grief related to disfigurement and in some conditions causes social death [2]. The scars on skin may cause social bashfulness due to the shame associated with it [3]. Such patients need social support not only during the acute period of emotional stress, when the skin is broken, but also later, upon the patient’s encounter with society at large.

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Cultural support to social stigma, associated with disfigurement of caused by burns, further aggravates the emotional state of people with burns [9,11]. The psychological aspect of burn is gaining intensity, and importance in relation to research and practice is a return of leftover psychological aspects like alienation, depression, anxiety, and the problems to work as an ordinary citizen [15].

The social aspect of personality is measured with respect to a set of behavior performed on part of actor, through a measurement scale denoted through explicit and implicit forms. Social role is a resultant factor of physical entity taking its instrumental right from the process of socialization in the minority while focusing into adulthood. All these developments are compact and interdependent through which understanding and assessment of personality are possible by measuring the coherence in activities [10]. The path of physiological knowledge of the burns involves many complex disciplines, and requiring particular services involving a separate aspect, (i.e. psychological to physical impairment) which leads the medication of burn patient in a particular ward and improves the process of medication as well as psychological and social improvement [4]. Currently, the burn wound has become a social issue and gained importance for research due to some dreadful outcomes. First, psychological responses following the burn-accident may not simply be due to the burns but might be caused by what the patient has witnessed or experienced during the accident and taking the shape of pathological gloominess and nervous disorder [14]. Second, assessment over patients with burns are secluded to stop contagion, which contributes to an intellect of social deficiency for the burn patient and, third, the last modification in body manifestation could be important in burn wound. Apart from the situation that burns may guide to impairments of movement and inadequacy of behavior, the modification in manifestation is frequently bothering the patient [5]. Findings verified that when social support is provided to the burn patient he or she feels himself valuable, which is related to reducing the stress and other psychological problems. The amount of support given to a patient varies in the available resources, which has an effect on psychological adjustment of those who do not enjoy such support [6]. Body picture is a constituent of the self-concept that is shaped from sensory and social experience, with cultural and ancestral reaction to one’s body having immense magnitude in developing “self” thoughts. Misrepresented body circumstances such as blemish can go along with changes in social relations, leading to changed body image [1]. This study had tried to explore the relationship between social adjustment of people with burns and their psychosocial rehabilitation under the explanation of Cash’s resilience model for body image [11].

2. Materials and Methods

The study was limited to the burn patients available at the Burnt Treatment Center (Burnt Ward at Khyber Teaching Hospital, KP Peshawar) as universe of the study. A sample size of 186 respondents was randomly picked for data collection from years 2010 to 2012. The sample size was proportionally distributed as per criteria devised by Sekaran [7].

2.1. Tool of data collection

A comprehensive interview schedule, encompassing major attributes of the variables was designed and served to collect the required information in light of specific objectives of the study. It is pertinent to mention that the interview schedule was constructed on the Likert scale, as per criteria designed by Nachmias and Nachmias [16]. The collected data were analyzed with the help of suitable software SPSS (version 20). The data were presented in percentage and frequencies; chi-squared test statistics was used to ascertain the hypothetical association between social adjustment and psychological rehabilitation at the bi-variate level [8]:

\[
(\chi^2) = x^2 = \sum_{i=1}^{k} \sum_{j=1}^{l} \left(\frac{o_{ij} - e_{ij}}{e_{ij}}\right)^2
\]

where \((\chi^2)\) = Chi-square for two categorical variables, \(o_{ij}\) = the observed frequencies in the cross-classified category at \(i\)th row and \(j\)th column, \(e_{ij}\) = the expected frequency for the same category, assuming no association between variables under investigation.

The collected data were of three levels as shown in Table 2. Moreover, the data nature was qualitative, which was later on converted into ordinal scale; thus, it was more suitable to be tested through the only reliable statistical tool, that is, chi-squared test in a contingency table.

3. Results

Frequency and percentage distribution of respondents according to their perceptions about social adjustment is given in Table 1. The data explored that 86% of the respondents agreed that society accepts people with burns as a common member

<table>
<thead>
<tr>
<th>Statements</th>
<th>Agree</th>
<th>Disagree</th>
<th>Do not know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Society accepts people with burns as a common member of the society</td>
<td>160(86)</td>
<td>23(12.4)</td>
<td>3(1.6)</td>
</tr>
<tr>
<td>Burns affect the socialization of a person</td>
<td>147(78.4)</td>
<td>23(12.4)</td>
<td>17(9.1)</td>
</tr>
<tr>
<td>Burns have negative effects on interaction with other people in society</td>
<td>112(60.2)</td>
<td>59(31.7)</td>
<td>15(8.1)</td>
</tr>
<tr>
<td>Burnt people feel shame in the society</td>
<td>97(52.2)</td>
<td>76(40.9)</td>
<td>13(7)</td>
</tr>
<tr>
<td>Society provides educational facilities to people with burns like other people</td>
<td>81(43.5)</td>
<td>78(41.9)</td>
<td>27(14.5)</td>
</tr>
<tr>
<td>Burns is a hurdle to contact other members of society</td>
<td>100(53.8)</td>
<td>68(36.6)</td>
<td>18(9.7)</td>
</tr>
<tr>
<td>Society insults the people with burns</td>
<td>84(45.2)</td>
<td>68(36.6)</td>
<td>34(18.3)</td>
</tr>
<tr>
<td>Burns leads to loss of social network</td>
<td>82(44.1)</td>
<td>80(43.0)</td>
<td>24(12.9)</td>
</tr>
<tr>
<td>Society provides social support to the people with burns</td>
<td>74(39.8)</td>
<td>97(52.2)</td>
<td>15(8.1)</td>
</tr>
</tbody>
</table>
of society, and 78.4% thought that burns affect the socialization of a person. The result shows that 60.2% of the respondents viewed that burn had negative impacts on interaction with other people in the society. Moreover, 52.2% disclosed that people with burns felt shame in society. Similarly, 43.5% of the respondents favored that society provides educational facilities to people with burns like other members of the society. Furthermore, 53.8% of the respondents admitted that burn is a hurdle to contact other members of the society. Moreover, 45.2% of respondents agreed that society insults people with burns. Furthermore, the data explained that 44.1% of the respondents agreed that burns lead to loss of social network, and 52.2% of respondents disregarded the statement that society provides social support to people with burns.

3.1 Bi-variate analysis

3.1.1 Association between social adjustment and psychosocial rehabilitation

The association between social adjustment and psychosocial rehabilitation (Table 2) reflected that the relationship between the two as highly significant ($P = 0.000$) considering that people with burns felt shame in the society. Similarly, a highly significant relation ($P = 0.000$) was found between psychosocial rehabilitation and burn as the hurdle to contact other members of the society. Moreover, a significant association ($P = 0.024$) was found between psychosocial rehabilitation and loss of social network. The result further disclosed that a highly significant ($P = 0.000$) association was found between psychosocial rehabilitation and perception that society provides social support to people with burns. Furthermore, the result indicated that there was a significant ($P = 0.002$) association between psychosocial rehabilitation and society insulting people with burns. However, a nonsignificant association was found between psychosocial rehabilitation and society accepting people with burns as a common member of the society. Moreover, a nonsignificant association was found between the socialization of a person and psychosocial rehabilitation. In addition, the result elaborated that a nonsignificant association existed between the psychosocial rehabilitation and burns having negative effects on interaction with others. Similarly, the results further revealed that a nonsignificant ($P = 0.069$) association existed between society providing educational facilities to the people with burns like other people and psychosocial rehabilitation.

4. Discussion

Results validated that the scars had impacts on socialization of a person, the phenomenon as explored by Houston and Bull [3] that socialization is lower in burn patients as compared to the normal population. De Rios [13] quoted that people with burnt skin had great difficulty in interacting with other members of the society as well as having intimate contact between two partners. Houston and Bull [3] stated that the patients having scars on the skin feel a sense of shame in the society and solemn position of shame is associated with social bashfulness. Solomon [1] gives a shocking observation that altered physical condition is a barrier in the way of interacting with other members of the society. The results clearly showed that society insults people with burns as Barkeney [9] and Taal and Faber [18] concluded in their studies that many cultures have a social convention, on the one hand, protecting individual having disfiguring skin and, on the other hand, rejecting and ridiculing them. The results clearly emanated that people with burns lose their social network with little room of ownership from the society as Canners [2] found in his study that psychological problems of burns, discouragement, loss of social network, and grief related to disfigurement occur and in some conditions lead to social death.

The results make it evident that the society discourages a person with burns, which leads to shame. These findings are supported by Houston and Bull [3] who stated that the patients having scars on the skin feel a sense of shame in the society and solemn position of shame is associated with social bashfulness. It is attributed from the above findings that people with burns face problems to contact other members of the society. This result is in support of Solomon [1] who gives a shocking observation that altered physical condition is a barrier in the way of interacting with other members of the society. People with skin problems in general have great difficulty in contacting other people. Psychological problems of burns, discouragement, loss of social network, and grief related to disfigurement occur and in some conditions lead to social death [2]. It could be attributed to the prevalent culture which contains primary-based relationship. Cash, Jakatdar

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**Table 2: Associations between social adjustment and psychosocial rehabilitation.**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Psychosocial rehabilitation</th>
<th>$\chi^2$ (P value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Society accepts people with burns as a common member of the society</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 4.663$ (P = 0.097)</td>
</tr>
<tr>
<td>Burns affect the socialization of a person</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 0.455$ (P = 0.798)</td>
</tr>
<tr>
<td>Burns have negative effects on interaction with other people in society</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 3.243$ (P = 0.198)</td>
</tr>
<tr>
<td>People with burns feel shame in the society</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 23.135$ (P = 0.000)</td>
</tr>
<tr>
<td>Society provides educational facilities to people with burns like other people</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 5.352$ (P = 0.069)</td>
</tr>
<tr>
<td>Burns is a hurdle to contact other members of society</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 38.153$ (P = 0.000)</td>
</tr>
<tr>
<td>Society insults the people with burns</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 7.530$ (P = 0.024)</td>
</tr>
<tr>
<td>Burns leads to loss of social network</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 12.613$ (P = 0.002)</td>
</tr>
<tr>
<td>Society provides social support to people with burns</td>
<td>Psychosocial rehabilitation</td>
<td>$\chi^2 = 14.307$ (P = 0.001)</td>
</tr>
</tbody>
</table>
and Williams (2004) found that social support is important not only during the acute period, when the skin is broken and emotional stress is high, but also later, upon the patient’s encounter within society at large. Findings of Balkeney [9] validated that many cultures have a social tradition, that is, on the one hand, overprotecting individuals with disfiguring conditions and, on the other hand, rejecting and ridiculing them. The result explored that psychosocial rehabilitation does not depend upon acceptance of a common member of the society. It is not the people with burns who adopt negative attitude, rather it is the general society that often does not give them a status of normal citizens. It speaks of nonavailability of any schooling structure which could provide education to people with burns on the basis of their specific personality’s shortcomings.

5. Conclusions and recommendations

The study found that people with burns had a cultural stigmatization associated with their personalities based on feelings of shame, differentiations in having normal or cordial relations to other members of the society in the light of insulting attitude from the society, which often leads to the loss of their social network. It was further explored that the society had some remedial measures of the rehabilitation of people with burns, however, not highly encouraging in nature as reflected from the results. Yet, social support explored from the results due to primary-based relations prevalent around in the society was a sign of encouragement for predictability in relationship, while making futuristic strategies for rehabilitation and readjustment of the people with burns as normal in the society. Thus, the study hypothesis (H1) was proved that social stigma is associated with rehabilitation of people with burns. Furthermore, the Cash’s model of body image proved little to explain the existing phenomenon under the study, as the model was primarily based on the physical de-shaping mostly as an outcome of obesity or other physical deformities, while the present study was conspicuously focused on the people who suffered in their lives from burns, which was of acute attention of this research endeavor as their very survival was embedded. The study recommended proper awareness about the gravity of the problem, embodied in the cultural flaws, associated to these people with burns in the light of religion and moral obligations of the society.

Conflict of interest

None declared.

REFERENCES