PSYCHIATRIC MORBIDITY IN DERMATOLOGICAL PATIENTS IN RURAL SETTING

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ABSTRACT

Background: Dermatological disorders lead to multiple psychological impacts on patient. There is insufficient data in this area. Objectives: To assess the prevalence of anxiety and depression among skin patients in rural setting. Patients and methods: Study was conducted in outpatient department of dermatology, Shree Guru Gobind Singh Tricentenary (SGT) Medical College and Hospital, Gurugram and 1200 patients were assessed. Hamilton Depression Rating Scale & Hamilton Anxiety Rating Scale in Hindi version were used for assessment after taking informed consent, as these scales were designed specifically for use in non-psychiatric hospital departments. Results: Among 1200 patients taken in study, 52.83% were males and 47.17% were females, with a majority in the age range of 16-30 years. Total 22.33% patients had mild depression, 5.92% had moderate depression, 14.5% had mild anxiety and 4.42% had moderate anxiety. None patient had found in severe depression and anxiety episode. Higher numbers of patients were associated with conditions like acne vulgaris, vitiligo, psoriasis, eczema, alopecia and all tending to be extensive, chronic and disfiguring and easily visible. Conclusion: There is a high rate of psychological disorder in dermatological patients which need to be assessed at time of treatment.

INTRODUCTION

Skin is the important organ of the body and helps in determining the external appearance of human being. It plays essential role in social and sexual communication. A person with healthy normal skin feels more confident in society¹. Psychiatric disorder and psycho-social impairments are reported in various dermatological disorder.² It has been reported that around thirty percent of the dermatological patients may have underline psychiatric disorders.³ Anxiety and depression are commonly observed in dermatological patients and their recognition is important in the management of the disease.⁴

It has been noticed that patients in rural population have less awareness of dermatological problems and this leads to stigma and poor quality of life.⁵ Dermatologic disorder account for 15–20% of visits to general OPD⁶ and in lot of these patients, psychiatric disorders go undetected. Even dermatologists have noticed the need for psychiatric assessment in patient with chronic intractable dermatologic conditions, such as eczema, vitiligo, and psoriasis.⁷,⁸ Regardless of psychiatric comorbidity, skin diseases can greatly affect patient's life.⁹ The various drugs used in the treatment of dermatological diseases such as steroids and retinoids may lead to psychiatric symptoms.¹⁰ With this background, this study has been designed specifically to assess the prevalence of depression and anxiety disorder in patients with dermatological disorders among the rural population in the catchment area of SGT Medical College and Hospital, Gurugram.

Subjects and Methods

This study was conducted in the Department of Dermatology in SGT Medical College and Hospital. This was a cross-sectional study conducted from Oct 2016 to January 2017 and all patients aged above 16 years were included in the study. Total 1200 treatment naïve patients were taken for the studies that were willing to give consent. All of them were hailing from a rural background and we considered only those patients who did not suffer from any major stressful life events in the past 2 months. Patients were assessed with Hamilton Depression Rating Scale (HDRS)¹¹ and Hamilton Anxiety Rating Scale (HARS)¹². A research assistant was there to provide information and assistance in answering the questionnaire. Psychiatric evaluation was referred to an individual whose scores indicate that they were in need of more detailed psychiatric assessment, as such scores indicate the presence of clinically significant levels of anxiety and/or depression. Scores of less or equal than 7 on the HARS scale tend to be reported by individuals with no clinically significant problems with depression. Score between 8 to 13...
RESULTS

Total 1200 patients were included in study and majority of the study population was between 16 to 30 years of age. Male (52.83%) were predominated as compared to females (47.17%). Among the males 48.42 % were married and rests were single or divorcee. Majority of males were employed as compared to the females. 72.56% of the males were literate as compared to females in which literacy rate was 58.13%. The distribution of study population by socio-demographic characteristics is shown in table 1.

In dermatological diagnosis, acne vulgaris (23.25%), eczema (17.16%) and fungal infections (15.75%) were among most common diagnosis seen in study. Male mainly presented with diagnosis of fungal infection (17.50%), acne vulgaris (17.35%), alopecia (10.72%) malesma (8.99%), as compared to females who came with more diagnosis of acne vulgaris (29.86%), eczema (21.20%), vitiligo (9.36%) and scabies (4.41%). Detail of dermatological diagnosis has been mentioned in table 2.

Table 2 Dermatological diagnosis

<table>
<thead>
<tr>
<th>S.N</th>
<th>Diagnosis</th>
<th>Male (N=634) No of patients (%)</th>
<th>Female (N=566) No of patients (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Acne Vulgaris</td>
<td>279 (23.25%)</td>
<td>110 (17.35%)</td>
</tr>
<tr>
<td>2</td>
<td>Eczema</td>
<td>206 (17.16%)</td>
<td>86 (13.56%)</td>
</tr>
<tr>
<td>3</td>
<td>Fungal Infection</td>
<td>189 (15.75%)</td>
<td>111 (17.50%)</td>
</tr>
<tr>
<td>4</td>
<td>Seborrheic dermatitis</td>
<td>108 (8.90%)</td>
<td>50 (7.89%)</td>
</tr>
<tr>
<td>5</td>
<td>Scabies</td>
<td>98 (8.16%)</td>
<td>45 (7.10%)</td>
</tr>
<tr>
<td>6</td>
<td>Malasmas</td>
<td>95 (7.52%)</td>
<td>75 (9.89%)</td>
</tr>
<tr>
<td>7</td>
<td>Alopecia</td>
<td>49 (5.75%)</td>
<td>44 (6.94%)</td>
</tr>
<tr>
<td>8</td>
<td>Herpes zoster</td>
<td>28 (2.33%)</td>
<td>26 (4.10%)</td>
</tr>
<tr>
<td>9</td>
<td>Psoriasis</td>
<td>27 (2.25%)</td>
<td>14 (2.20%)</td>
</tr>
<tr>
<td>10</td>
<td>Leprosy</td>
<td>25 (2.08%)</td>
<td>20 (3.15%)</td>
</tr>
<tr>
<td>11</td>
<td>Lichen planus</td>
<td>23 (1.92%)</td>
<td>13 (2.05%)</td>
</tr>
<tr>
<td>12</td>
<td>Vitiligo</td>
<td>20 (1.66%)</td>
<td>15 (2.36%)</td>
</tr>
<tr>
<td>13</td>
<td>Genital wart</td>
<td>19 (1.58%)</td>
<td>19 (2.99%)</td>
</tr>
<tr>
<td>14</td>
<td>Keloid</td>
<td>15 (1.25%)</td>
<td>10 (1.57%)</td>
</tr>
<tr>
<td>15</td>
<td>Candidiasis</td>
<td>10 (0.83%)</td>
<td>9 (1.42%)</td>
</tr>
<tr>
<td>16</td>
<td>Syphilis</td>
<td>9 (0.75%)</td>
<td>7 (1.25%)</td>
</tr>
</tbody>
</table>

Mild case of depression and anxiety were found in the total sample by applying the recommended cut off values. Details of HDRS and HADS findings are shown in table 3. Total 22.33% patients had mild depression, 5.92% had moderate depression, 14.5% had mild anxiety and 4.42% had moderate anxiety. None of patients had been found in severe depression and anxiety episode.

In different sex, male showed more mild depressive symptoms in vitiligo (62.5%), fungal infection (52.08%), alopecia (57.89%), herpes zoster (70.0%), leprosy (57.14%) as compared to female who showed mild depressive symptoms mainly in acne vulagris (50.0%), eczema (50.0%) and psoriasis (50.0%). Details of severity of depression and anxiety in male and female are shown in table 4.

DISCUSSION

In our study population, during the study period, more male (n = 634) attended the OPD than females (n = 566). (Table 1) A similar pattern male to female proportion was found in the study by Kar et al., in South India. The more female patient proportion was found in the study conducted by Kuruvilla et al. in a Tertiary Care Centre. In our study, the most common diagnosis was acne (23.25%), followed by eczema (17.16%) and fungal infection (15.75%).(Table 2) This finding was similar to the finding in a study conducted in a medical college setting in north India by Agarwal et al., in which eczema and acne were the most common non-infective skin diseases.

In current study, we have made our attempt to find the correlation between depression, anxiety and dermatological disorder in rural set up. An international multicentre observational cross-sectional study found that patients with psoriasis, atopic dermatitis, hand eczema and leg ulcers had the highest prevalence of depression and anxiety among dermatology patients. Although in our study population, (Table 3) depressive symptoms were seen in 28.25% of patients, most of them had mild depressive symptoms (22.3%). Kim et al., in his study found that nearly 62.5% of the patients with skin diseases had clinical depression. This difference in the findings could be due to the varying socio-demographic profile of the study population. In current study, depressive and anxiety symptoms were mainly seen in patients with acne vulgaris, eczema, fungal infection, seborrheic dermatitis, scabies and malasmas. Similar finding were seen in a south Indian study where depressive symptoms were mainly seen in patients with acne vulgaris, eczema, psoriasis, dermatitis and vitiligo.

On assessing the severity of depression, we found that the moderate depression was more among the patients with alopecia, leprosy, keloid and vitiligo. Our findings were in accordance with the study conducted by Alshahwan MA in which the score of depression was more in patients with alopecia and against the finding of Gupta and Gupta in which patients with psoriasis had severe depressive symptoms. No severe episode of depression and anxiety was seen in our study. This finding was against the previous studies in which severe depression was seen among dermatology patients. With regard of the variables associated in presence study we can conclude that psychiatric disorders are very common in dermatology patients. Their good knowledge and awareness of psychiatric diseases can help dermatologist to give a holistic care to the patients.
Limitations

1. Patients with age group <15 years of age were not considered.
2. Since the study was focused only on rural population, the findings cannot be generalized.
3. Socio-demographic details of the patients such as age group, occupation and literacy were not considered which effect the treatment requirement.
4. Co-morbid medical conditions such as diabetes and hypertension were not considered.

Reference


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