Quality of life of hirsute women

Nicoletta Sonino, Giovanni A. Fava¹, Elisa Mani, Piera Belluardo and Marco Boscaro

Institute of Semeiotica Medica, University of Padova, Via Ospedale 105, 35128 Padova and ¹Department of Psychology, University of Bologna, Bologna, Italy

Summary:  Hirsutism is recognized to cause profound distress in affected women, due to cosmetic and psychosocial implications. It was evaluated in the present study by methods found to be valid and reliable in psychosomatic research. Fifty women with hirsutism belonging to the spectrum of disorders from idiopathic hirsutism to polycystic ovary syndrome, after complete medical work-up, underwent the same psychometric evaluation as 50 healthy non-hirsute women, matched for sociodemographic variables. Hirsute women had a Ferriman and Gallwey score ranging from 8 to 19. Psychometric evaluation for quality of life was carried out by the following methods: (a) Kellner’s Brief Problem List, a 12 item self-rating list of psychosocial problems; (b) Kellner’s Symptom Rating Test (SRT), a 46 item self-rating scale that yields a total score of distress as well as six subscales (anxiety, depression, somatic symptoms, anger-hostility, cognitive and psychotic symptoms); and (c) Marks’ Social Situations Questionnaire (SSQ), a 30 item self-rating scale concerned with social phobia. Patients with hirsutism displayed significantly higher social fears at the SSQ than controls ($P < 0.01$). They also showed more anxiety ($P < 0.01$) and psychotic symptoms ($P < 0.01$) at the SRT, whereas there were no significant differences in depression, somatization, anger-hostility and cognitive symptoms. These results suggest that the complex management of hirsute women, in addition to pharmacological and/or cosmetic measures, may require specific psychotherapy.

Introduction

It is widely recognized that hirsutism in women may be a source of considerable psychological distress and a threat to feminine identity.¹ For almost a century, physicians have noted the tremendous emotional impact of hirsutism upon patients, even when amounts of excess hair are small and medically insignificant, and how the more vulnerable personalities withdraw socially and feel severely undesirable.²

A few psychosomatic studies are available. Some investigations dealing with the role of psychosocial factors in the pathogenesis of hirsutism noted a period of emotional stress prior to the onset of hair growth increment.³⁴ Other studies dealt with personality profiles, psychiatric symptoms and illness behaviour of hirsute women. Meyer and von Zerssen² carefully evaluated 15 patients suffering from idiopathic hirsutism by means of psychodynamic interviews and psychometric tests. They identified two psychological trends: one included irritability, reduction of emotional contact and frigidity, the other insecurity with respect to the female sexual role. In another investigation,⁵ hirsute patients displayed more uncertainty about their physical appearance, lower values for self-confidence, as well as a high incidence of sexual dysfunction compared to normal women. Higher levels of anxiety in 15 hirsute women compared to 20 control subjects have been reported.⁷ However, no significant effect of benzodiazepines on hair growth was noted in women with idiopathic hirsutism in a treatment trial.⁸ A previous controlled study on 30 hirsute patients excluded the presence of significant psychiatric illness as determined by semistructured research interviews.⁹ Exclusion of psychiatric illness cannot be equated, however, to lack of psychological distress and problems.

The last decade has witnessed a conceptual shift from a purely biomedical assessment of disease to consideration of function in daily life, productivity, emotional stability and well-being. Such consideration is often subsumed under the rubric of quality of life.¹⁰¹¹ We evaluated this important aspect in hirsute women using methods that have been found to be valid and reliable in psychosomatic research.

Patients and methods

Patients

Fifty consecutive post-menarchial hirsute women attending the Institute of Semeiotica Medica of the
University of Padova and a control group of 50 healthy non-hirsute women in the general population were studied. Control subjects were recruited by advertisements, excluding hospital employees and their relatives. They were selected with regard to matching the demographic characteristics of the patients. Accordingly, patients and controls were matched for age (in decades), marital status and social class. The mean age of patients was 22 years (age range 16–39 years). They all belonged to the spectrum of disorders from idiopathic hirsutism to polycystic ovary syndrome.1,12,13 Patients with obesity (body mass index > 25 kg/m²) or amenorrhea, as well as those with chronic medical disease, drug-induced hair growth or hirsutism due to a major endocrine disorder, were excluded. None of the women had received any treatment in the 6 months preceding the study. The Ferriman and Gallwey score14 ranged from 8 to 19 in the patients with hirsutism. Their testosterone levels ranged from 1.7 to 6.9 nmol/l (normal range 0.9–3.5 nmol/l), androstenedione from 4.5 to 22.3 nmol/l (normal range 0.7–10.5 nmol/l), and dehydroepiandrosterone sulphate (DHEA-S) from 3.8 to 19.3 μmol/l (normal range 3.2–8.1 μmol/l) in follicular phase.

After obtaining the results of complete medical work-up, hirsute women underwent the same psychometric evaluation as controls by means of self-rating scales. Informed consent was obtained in all cases.

Methods

Both patients and controls underwent extensive psychometric evaluation for quality of life by the following methods:

a. **Brief Problem List.**15 This is a 12 item self-rating list of psychosocial problems (such as problems at work, marriage and loneliness) and the subject rates the degree of distress of each problem on a 4-point scale.

b. **Symptom Rating Test (SRT).**16 This is a 46 item self-rating scale of psychological distress that yields a total score of distress (range 0–138) as well as 6 subscales (anxiety, depression, somatic symptoms, anger–hostility, cognitive symptoms and psychotic symptoms).

c. **Social Situations Questionnaire (SSQ).**17 This is another self-rating scale that consists of 30 items describing situations concerned with social phobia (such as going into a room full of people and meeting strangers), and yields a total score between 0 and 120.

All scales were administered in their Italian translation, which had been independently validated.18,19

To evaluate hirsutism, the scale of Ferriman and Gallwey14 was employed. With this method, the density of the terminal hair is graded from 0 to 4, ranging from absence to most intensive growth at each site, for each of 9 sites of the body (lip, chin, chest, upper back, lower back, upper abdomen, lower abdomen, arm, thigh) in which the hair growth is androgen dependent. As previously standardized,20 a score of 8 or more is significant for hirsutism (normal = 0).

Serum concentrations of testosterone, androstenedione and DHEA-S were measured in our laboratory by routine radioimmunoassay (RIA) methods.

Statistical methods

All results are expressed as mean ± s.e.m. Because of the characteristics of the measurements, a non-parametric method was employed, the Beherens–Fisher ANOVA permutation test, adapted by Pesarin.21 This test is the analogue of the Beherens–Fisher ANOVA test, without, however, being conditioned by normal distribution hypotheses.

Results

Patients with hirsutism displayed significantly higher social fears on the SSQ and significantly higher levels of anxiety and psychotic symptoms on the SRT, whereas there were no significant differences in the Brief Problem List and other SRT scales (depression, somatization, anger–hostility and cognitive symptoms), as well as in the total SRT score (Table I). To control for multiple testing between patients and controls, a non-parametric combination procedure of dependent permutation tests21 was applied to all SRT scales, and a significant difference between hirsute and non-hirsute women was confirmed.

Discussion

Lipowski remarks that 'how a person experiences the pathological process, what it means to him, and how this meaning influences his behaviour and interaction with others are all integral components of disease viewed as a total human response'.22 The results of the present study suggest a compromised quality of life in women with hirsutism, who displayed significantly more interpersonal fears and psychological distress than control women matched for sociodemographic variables. Fears in our hirsute patients included situations such as mixing with people at work, meeting strangers, making friends, going into shops or to parties. These anxiety-provoking situations are likely to elicit avoidance, that may in turn induce further
Thus, the phobic may show in conduction.24 This association which a phobia, that is ascribed that the fears are we found a 'doctor shopping' by this centres, is specialized.23 Social Situations

<table>
<thead>
<tr>
<th>Scale</th>
<th>Patients (mean ± s.e.m.)</th>
<th>Controls (mean ± s.e.m.)</th>
<th>Significance (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brief Problem List</td>
<td>1.2 ± 0.2</td>
<td>1.0 ± 0.1</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>SRT anxiety</td>
<td>6.2 ± 0.6</td>
<td>4.2 ± 0.4</td>
<td>NS</td>
</tr>
<tr>
<td>SRT depression</td>
<td>4.4 ± 0.5</td>
<td>3.4 ± 0.4</td>
<td>NS</td>
</tr>
<tr>
<td>SRT anger–hostility</td>
<td>3.7 ± 0.4</td>
<td>3.7 ± 0.4</td>
<td>NS</td>
</tr>
<tr>
<td>SRT somatic symptoms</td>
<td>3.3 ± 0.5</td>
<td>2.6 ± 0.3</td>
<td>NS</td>
</tr>
<tr>
<td>SRT cognitive symptoms</td>
<td>3.5 ± 0.5</td>
<td>3.3 ± 0.4</td>
<td>NS</td>
</tr>
<tr>
<td>SRT psychotic symptoms</td>
<td>2.5 ± 0.4</td>
<td>1.1 ± 0.2</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>SRT total score</td>
<td>23.2 ± 2.6</td>
<td>16.6 ± 1.3</td>
<td>NS</td>
</tr>
<tr>
<td>Social Situations Questionnaire</td>
<td>29.1 ± 2.9</td>
<td>19.4 ± 1.7</td>
<td>&lt;0.01</td>
</tr>
</tbody>
</table>

SRT = Symptom Rating Test; NS = not significant.

acknowledgements

general medical patients attending a hospital clinic may show more non-specific anxiety, but not more phobic symptoms, than general population controls.24 Thus, the specific differences in social fears we found in the present study cannot be ascribed to hospital clinic attendance. It is also possible that the results of this study, which was conducted in a university endocrine clinic, may be different in general practice populations. However, a 'doctor shopping' attitude, including referral to specialized centres, is frequently observed among women with excessive hair growth. Ferrante remarks that the role of physicians with hirsute patients is difficult since the medical reassurance about the 'normality' of idiopathic hirsutism is inconsistent with social and commercial conceptualizations, and there is no simple cosmetic or medical treatment available. The findings in this study suggest that in addition to pharmacological and/or cosmetic management, the role of psychological approaches more specific than simple reassurance should be evaluated, that is, short-term behavioural methods based on exposure17,19,24 have been found to be effective in social phobia and might have potential in improving quality of life also in patients with hirsutism.

Acknowledgements

This study was supported by MURST Grants to Dr Sonino and to Dr Fava

References


15. Kellner, R. *Screening List for Psychosocial Problems*, University of New Mexico, Albuquerque (Mimeograph).


Quality of life of hirsute women.

N. Sonino, G. A. Fava, E. Mani, P. Belluardo and M. Boscaro

doi: 10.1136/pgmj.69.809.186

Updated information and services can be found at:
http://pmj.bmj.com/content/69/809/186

These include:

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/