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Research Article

Psychological Impact of Acne on Women

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Sarwar Mir., et al.

Abstract

Background: It is well-known that acne vulgaris is a common malady of adolescence.

Objective: To evaluate the level of impact among acne female adolescent students on their quality of life.

Methods: A total of 200 patients studied. Acne severity was graded using Global Acne Grading System (GAGS) after the clinical diagnosis. All the patients went through self administered questionnaire of Cardiff Acne Disability Index (CADI) to fill out, to assess the reflection of patients' experiences and perceptions.

Results: The maximum number of patients was in the age group of 16 - 20 years (142/200, 71%). The impact on quality of life was more in the age-group of 21 - 30 years even though in this age group clinical severity of acne was mild to moderate only.

Conclusion: Study found that women with acne had profound emotional, as well as, social impact on their quality of life.

Keywords: Acne; Cardiff Acne; Disability Index; Quality of Life

Introduction

It is well-known that acne vulgaris is a common malady of adolescence and is easily recognized. It is common enough to be called as physiological process, but is better recognized disease due to its inflammatory component. It can have significant psychosocial disturbances as it affects adolescence that is the critical period during which emotional development and maturity starts taking place [1].

Skin plays an important role in socialization, as skin is considered as an organ of Communication. Cosmetic disfigurement produces social disapproval and increase in self-consciousness [2]. It can result in social poor eye contact, academic under achievements and psychosocial disturbances especially when skin diseases like acne occur during adolescence [3]. Acne may also be associated

with increased levels of anxiety, anger, depression and frustration. This psychological stress can further aggravate acne through hormonal changes thereby setting up a vicious cycle. It is important to have reliable epidemiological data on acne and its psychosocial impact so that physician can show quantitatively that effective treatment of acne can have significant benefit to patient's psychosocial life, apart from physical benefit to their acne [4].

Methods

This study was a cross sectional survey. A total of 200 female patients with clinical diagnosis of acne, aged more than 13 years were enrolled in the study after taking an informed consent.

A detailed history was also taken according to Performa. The severity of acne was graded using Global Acne Grading System

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(GAGS). The patient was then given a self-administered Cardiff Acne Disability Index (CADI) questionnaire Global Acne Grading System (GAGS) Acne was graded using GAGS [5].

The GAGS considers six locations on face and chest/ upper back with a factor for each location based on surface area, distribution and density of pilosebaceous units. (Area factor: forehead-2, right cheek-2, left cheek-2, nose-1, chin-1, chest and upper back-3). Each of the location was graded separately on 0-4 scale with the most severe lesion within that area determining the local score. (Grade: 0-no lesion, 1-comedone, 2- papule, 3-pustule, 4-nodule). Under good light and without touching, all the manifestations of acne ranging from comedones to nodule were recorded. Local score is calculated by multiplying area factor with the grade of most severe lesion within that location. Global score is the summation of all the local scores.

Cardiff acne disability index (CADI)

All the enrolled patients with acne above the age of 13 years completed CADI questionnaire made available in local language. It is a detailed questionnaire designed to assess disability caused by acne [6]. It consists of five questions, each with four graded alternative responses (0-3). CADI is calculated by summing up the score of each question. The higher score indicates the greater disability experienced and the lower score indicates the lesser level of disability.

Results

Out of 200 patients, the maximum number of patients was in the age group of 16-20 years (142/200, 71%). Family history of acne was present in 80 (40.0%) patients. Appearance of facial acne was preceded by application of topical steroids in 40 (20%) patients.

Acne severity (GAGS)	Males Females		Total
Mild	36	23	59
Moderate	34	29	63
Severe and very severe	16	62	78
Total	86	114	200

Table 1: Relationship between acne severity global acne grading system (GAGS) and gender.

P value < 0.05 (Non-Significant).

Duration	Low	Medium	High	Total
Less than six months	5	8	13	26
6 months-one year	12	16	20	48
Greater than one year	12	45	69	126
Total	38	80	82	200

Table 2: Relationship between Cardiff acne disability index (CADI) and duration of acne.

P = 0.001; highly significant.

GAGS	Low	Medium	High	Total
Mild	11	48	31	90
Moderate	12	18	40	70
Severe and very severe	3	12	25	40
Total	26	78	96	200

Table 3: Relationship between global acne grading system (GAGS) and cardiff acne disability index (CADI).

Discussion

Acne has shown significant psychological impact in the previous studies. The severity of acne was measured by different grading methods in various studies.

Most of the patients were adolescents as acne is more prevalent in this age group [7].

About 40.0% of patients gave history of acne in parents or siblings. This is in accordance with various studies which show that genetic factors influence susceptibility to acne [8]. One-fifth of patients had applied topical steroids which lead to further aggravation of acne. It is due to easy availability and indiscriminate use of topical steroids and marked transient improvement which ultimately results in steroid dependence.

Acne may have different psychosocial morbidity according to gender. Our study showed higher CADI scores in females. This is similar to previous studies which also found more psychological impact on females [9]. Facial disfigurement makes females present earlier to treatment even for milder acne. The impact on quality of life was more in the age-group of 21-30 years even though in this age group clinical severity of acne was mild to moderate only. It may be due to chronicity of acne and the need of more social inter-

actions at this age. All the patients above 30 years of age had low psychological impact of acne.

Patients with persistent acne were reported to have higher CADI scores [9]. This study demonstrated a significant relation between GAGS and CADI scores. The impact on quality of life increased with acne severity. It is consistent with previous studies which also found the similar findings [9-11]. Also patients with higher CADI scores tend to present with suicidal ideations.

Recommendations

In order to decrease psychological stress associated with acne and to build up self-esteem, it is the need of hour in a developing country like India to establish acne clinic with provision of counselors. This need stems out of high patient burden with low doctor: patient ratio. In order to increase time spent per patient, these acne clinics with counselors will help achieve the targets. Also the patients can be involved in group discussions.

Conclusion

Our study confirmed that acne has profound effect on psychosocial behaviour. The impact on quality of life has been significantly associated with severity of acne, female gender, age and long disease duration. Clinicians should be aware that early treatment of acne and avoidance of aggravating factors can prevent significant psychological morbidity.

Conflict of Interest

None.

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