

Gender differentials in the social and family life of leprosy patients

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Summary A study was carried out at the Leprosy Control Unit, Government Medical College, Nagpur, India, to investigate gender differentials in the social and family life of leprosy patients. The study included 486 (268 males and 218 females) leprosy patients, who were diagnosed and registered at least 1 year prior to the data collection. It was observed that leprosy patients were isolated and refrained from various activities in the family. However, the effect of disease on this isolation was significantly greater in females as compared to males. Similarly, although, men and women were both affected in terms of their social life, women suffered more isolation and rejection from the society. The current study describes the gender differentials in the social and family life of leprosy patients in Central India.

Introduction

Even today, leprosy remains a public health problem in many countries of the world. The South-East Asia region accounts for 90% of the global leprosy burden and India alone accounts for 55%. With the introduction of multi-drug therapy (MDT) in 1982, the leprosy situation in the world changed dramatically. In 1997, for the first time, the number of registered cases reported globally was less than 1 million (0.8 million).¹ With the introduction of MDT, India too has had a significant reduction in the prevalence rates in many states, where MDT is in operation.² However, reduction in registered prevalence alone is not sufficient as the social consequences of the disease on the life of the patient are often severe and persist even after its cure.

Leprosy holds a unique position among communicable diseases because of the frequency of deformity, physical handicap and ostracism due to social stigma.³ This disease is a highly

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stigmatized one and may lead to premature social death among patients.⁴ Once a person is correctly diagnosed as a leprosy patient, his/her roles in the family and society are restricted and constrained.⁴

Women are considered a socially vulnerable group,⁵ and marriage is difficult and acceptance is not total.⁶ The social impact of the disease affliction has been described by earlier researchers,^{3-5, 7-10} but few have investigated gender differentials in the social impact of leprosy.^{5, 11-13} The issue is of considerable significance for women, who are accorded a low social status in many communities in India and receive differential treatment from the members in the family and the wider society. Thus the understanding of the gender differentials in the social and family life of leprosy patients is important. We have performed a study to investigate the gender differentials in the social and family impact of leprosy in Central India.

Materials and methods

The present study was carried out at the Government Medical College Hospital, Nagpur, India. The study centre is a tertiary care hospital with a separate Leprosy Control Unit. A total of 486 patients attending this hospital and who were diagnosed and registered as leprosy patients at least 1 year prior to the data collection for this study, were recruited. Data were collected from this group using a structured interview schedule which included questions seeking information on demographic characteristics (age, sex, socio-economic status, areas of residence and marital status), impact of disease on daily life and attitude of family members, the impact of disease on social life and experiences of interviewees regarding the effects of disease on their lives. The structural interview was designed by framing appropriate questions to obtain required information and were pilot tested before its final use. The socio-economic status was recorded by using the Modified Kuppuswamy's scale of socio-economic status (SES) classification, using occupation, education and per capita income as parameters. This is a 5-point scale, with class I representing the highest socio-economic (Upper) and class V representing the lowest (Lower) status. Classes II, III and IV are represented by Upper middle, Lower middle and Upper lower SES, respectively.¹⁴ Statistical analysis was based on the use of the χ^2 test.

Results

Table 1 describes the subjects by the demographic characteristics. The study included 268 (55.1%) males and 218 (44.9%) females. 39.7% subjects were in the age group 20-40 years followed by 35% in under 20 years. The majority of the patients belonged to upper lower and lower middle socio-economic status and 63.9% patients were from urban areas. A total of 264 (54.3%) subjects were married.

Impact of disease on daily life of leprosy patients and attitude of their family members is described in Table 2. The table presents evidence that the study subjects were isolated or refrained from various activities in the family. However, the effect of disease on this isolation was greater in females as compared to males for all the parameters. Impact of disease on

Table 1. Distribution of subjects by demographic characteristics

Characteristics	Males (<i>n</i> = 268) <i>n</i> (%)	Females (<i>n</i> = 218) <i>n</i> (%)	Total (<i>n</i> = 486) <i>n</i> (%)
<i>Age (years)</i>			
<20	98 (36.6)	72 (33.0)	170 (35.0)
20–40	102 (38.1)	91 (41.7)	193 (39.7)
40+	68 (25.3)	55 (25.3)	123 (25.3)
<i>Socio-economic status</i>			
Lower (class V)	22 (8.2)	19 (8.7)	41 (8.4)
Upper lower (class IV)	108 (40.3)	88 (40.4)	196 (40.3)
Lower middle (class III)	80 (29.9)	66 (30.3)	146 (30.1)
Upper middle (class II)	47 (17.5)	37 (16.9)	84 (17.3)
Upper (class I)	11 (4.1)	8 (3.7)	19 (3.9)
<i>Area of residence</i>			
Urban	187 (69.8)	124 (56.9)	311 (63.9)
Rural	81 (30.2)	94 (43.1)	175 (36.1)
<i>Marital status</i>			
Married	134 (50.0)	130 (59.6)	264 (54.3)
Unmarried	121 (45.1)	69 (31.7)	190 (39.1)
Others	13 (4.9)	19 (8.7)	32 (6.6)

social life of leprosy patients is depicted in Table 3. Although men and women were both affected in terms of their social life, women suffered more isolation and rejection from family and society. The differences in impact of the disease on their social life between males and females were statistically significant. Table 4 shows personal experiences of the study subjects regarding effects of disease on their lives. Although the lives of both men and women were affected by the disease, females showed a significantly greater effect of disease on their lives as compared to males.

Table 2. Impact of disease on day to day life and attitude of family members

Factors	Males (<i>n</i> = 268) <i>n</i> (%)	Females (<i>n</i> = 218) <i>n</i> (%)	<i>P</i> value (χ^2 test)
<i>Isolated/refrained from</i>			
Cooking ^a	—	79 (36.2)	—
Touching others	38 (14.2)	67 (30.7)	< 0.0001
Eating together	19 (7.1)	50 (22.9)	< 0.0001
Sleeping together	54 (20.1)	59 (27.1)	0.073
Sex ^b	33 (24.6)	43 (33.1)	0.130
Using common articles of daily use	43 (16.0)	65 (29.8)	< 0.001
Mixing with other family members	40 (14.9)	59 (27.1)	< 0.001
Decision making in family matters	27 (10.1)	23 (10.6)	0.864
Breastfeeding the child ^c	—	25 (49.0)	—

^a Four male subjects were involved in cooking, who were staying alone.

^b Information related to sexual relationship was obtained from only married study subjects.

^c Information related to breastfeeding was obtained from female subjects (*n* = 51) who were breast feeding their child at the time of diagnosis.

Table 3. Impact of disease on social life

Factors	Males (<i>n</i> = 268)	Females (<i>n</i> = 218)	<i>P</i> value (χ^2 test)
<i>Refrained from</i>			
Going out	29 (10.8)	83 (38.1)	<0.0001
Travelling	32 (11.9)	76 (34.9)	<0.0001
Attending festivals	28 (10.4)	89 (40.8)	<0.00001
Going to the worship ^a places	03 (4.3)	08 (10.8)	.141
Attending marriages	36 (13.4)	79 (36.2)	<0.0001
Attending family functions	32 (11.9)	77 (35.3)	<0.0001

^a Information was obtained from subjects who used to attend worship places before the diagnosis (males = 70, females = 74).

Discussion

Gender inequalities in health have a significant effect on women's health.¹¹ There are, however, many gender inequalities related to health and disease. The recently published review highlighted that there are many gender differences, biological as well as socio-cultural, which are related to leprosy.¹¹ In leprosy gender inequalities could be more serious, as it is highly stigmatized disease.^{11, 12} Although both men and women are negatively affected in most situations, the extent of the impact is more in women than men.¹² In India⁸ women could not work as efficiently as other female members of the family due to affliction by leprosy.

Considering socio-cultural outcome of disease, several studies indicated that the women were more affected by leprosy,¹¹ they suffered more isolation, rejection from spouses, children and relative, loss of freedom to touch and have more restrictions than men in India.¹² Women with leprosy are less likely to have the opportunity.¹⁴ The empirical evidence presented in the previous studies demonstrated the importance of analysing the situation of leprosy patients from the gender perspective as it has significant implications for disease control.

The degree to which men and women leprosy patients were isolated from their family activities and events is evident from Table 2. It was observed that by and large women were more isolated from all activities than men. Seventy-nine (36.2%) females refrained from cooking activity while 22.9% refrained from eating together. Isolation from touching others was again a strong reaction that many women (30.7%) faced, unlike men (14.2%). It was also

Table 4. Experiences of study subjects about effects of disease on their lives

Personal experiences	Males (<i>n</i> = 268)	Females (<i>n</i> = 218)	<i>P</i> value (χ^2 test)
Support of spouse ^a	69 (51.5)	39 (30.0)	<0.0001
Support of other family members	113 (42.2)	55 (25.2)	<0.0001
Impact on day to day life	39 (14.6)	75 (34.3)	<0.0001
Impact on social life	34 (12.7)	84 (38.5)	<0.0001
Marriage prospects	7 (2.6)	18 (8.3)	<0.005
Insulting treatment by family members	17 (6.3)	56 (25.7)	<0.0001

^a Information was obtained only from married study subjects.

observed that 49% of the breastfeeding mothers did not breastfeed their children. Loss of freedom to touch and to be touched, especially with their children, symbolized rejection. Similarly, they were isolated from sleeping in the same room along with the other family members and mixing with them. More women suffered from isolation from having sex with their spouses, using common articles of daily use and were not involved in decision making in the family matters.

Such isolation from domestic roles develops among women a self-image of being a less valued member of the family.¹⁶ Earlier studies^{4,17} also demonstrated isolation of leprosy patients in their own family from daily activities and attitudes of rejection from their own family members. These issues have not been extensively studied previously in relation to gender in Central India population.

The disease not only affects daily functioning in the family, but also considerable restrictions are enforced on patients due to the fear of social stigma. The impact of disease on the social life of leprosy patients is evident from Table 3. It is observed that more women seem to have these restrictions than men. The proportion of women who refrained from going out, travelling, attending festivals, going to the worship places, attending marriages and even attending family functions was significantly greater than men. Important gender differences were apparent on the social impact of the disease. While both men and women were negatively affected in most situations, the extent of the impact was more in women than men. Such restrictions clearly increase morbidity in women patients, and affect their treatment.¹²

These findings are further endorsed by the experiences reported by the subjects of the effect of disease on their lives (Table 4). A total of 18 (8.3%) of women admitted that the disease affliction affected their marriage prospects compared to 2.6% of men. Women might delay seeking medical care when they suspect having leprosy, since being diagnosed with leprosy might severely reduce their chances of marriage or may affect their position and role in the household when married.

The source of patients recruited for this study needs to be borne in mind when interpreting the findings. The study population is of those attending a tertiary health care facility and they may not be representative of all patients. There is no control group to demonstrate what gender differentials exist in Central India in people without leprosy.

In conclusion, important gender differences have been demonstrated in the family and social impact of leprosy. Although men and women were both affected in terms of their family and social life, women suffered more isolation and rejection from family and society. It can be seen from the current study that the family and social problems faced by women suffering from leprosy were mainly due to the associated social stigma. The need to reduce social stigma is therefore emphasized. To overcome this problem, the community educational component of leprosy control programmes needs to be strengthened. Perhaps groups such as Women's Clubs (which exist in many villages), women school teachers or women members of Panchayat (local village government) can be involved in educating women as well as community.¹² However, it is the attitudes of the community and the family that need to change, rather than the women themselves.

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