



Mental disorders in leprosy: An underdiagnosed and untreated population



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ABSTRACT

Objective: To describe the frequency of psychiatric comorbidities in leprosy patients and check if they had been previously diagnosed and were in psychiatric care.

Method: The study was conducted with a sample of 120 leprosy patients being treated at two reference hospitals for leprosy in Salvador, Bahia, Brazil. Survey participants were more than 18 years of age, had a confirmed diagnosis of leprosy and was undergoing antimicrobial treatment. Patients were evaluated face-to-face with a socio-demographic questionnaire and the Mini-International Neuropsychiatric Interview (MINI-Plus) in Portuguese. The period of data collection was between October 2009 and June 2012.

Results: The assessment using the MINI-Plus showed that 34 (28.3%) patients did not receive any psychiatric diagnosis and 86 (71.7%) met the criteria for at least one. Of these 86 patients, 25 (20.8%) had one diagnosis, 26 (21.7%) had two diagnoses and the rest, 35 (29.2%), had three or more psychiatric diagnoses. All patients with a moderate or high risk of suicide had one or more psychiatric comorbidities.

Conclusion: Leprosy patients have a high prevalence of psychiatric comorbidities. Furthermore, most of them had no previous psychiatric diagnosis and the majority was not undergoing treatment.

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Introduction

Leprosy is an infectious disease which is highly associated with physical disability [1] and the appearance of symptoms depends on individual immune response [2]. Among the main limitations imposed by the disease are peripheral neuropathy, especially neural thickening, and muscular dystrophies [3]. Consequently, leprosy is strongly associated with chronic neuropathic pain and this may occur before, during or even after the disease is cured [4]. The global leprosy situation and the number of new cases detected globally each year have been declining steadily [5]. The number of new cases of leprosy detected worldwide and the prevalence during 2012 were reported by 105 countries. The countries most affected by leprosy are India, Brazil and Indonesia [6]. In addition, there continues to be a stigma attached to leprosy [7–9].

Both developed and developing countries exhibit social stigma toward patients with leprosy in several important life contexts [10]. The stigma attached to leprosy occurs not only because of skin lesions, but also from the involvement of peripheral nerves causing deformities and possibly multiple complications. This problem is not limited to the dermatological aspect, but also a history of segregation, which is socially rooted in our social imagination, and strongly associated with the portrayal of leprosy in the Bible. Historically, being affected by leprosy meant experiencing social exclusion, isolation and discriminatory practices. Up to the present day, stigma leads to the socio-economic effects of leprosy through discriminatory behavior and unemployment [8]. People affected by leprosy experience major problems as regards participation restrictions, perceived stigma, feelings of shame, problems related to marriage and difficulties in employment [11]. Furthermore the stigma of leprosy leads to the process of social estrangement and progressive loosening of social bonds between an individual and their family and society [10]. Subduing the leprosy stigma requires a variety of strenuous efforts [10,12]. The overall strategy 2011–2012 [11] emphasizes the need to promote lessening the stigma and discrimination against persons affected by leprosy and their families.

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The World Health Organization (WHO) aims to reduce and control the disease in the world [13] and believes that leprosy is a disease that causes, around the world, annually, around 12,000–14,000 new cases of grade-2 disability [6]. Such loss of bodily function is certainly highly relevant to and contributes toward the psychological impact.

Psychological factors may be compounded upon the dermatological conditions of leprosy. Common psychiatric symptoms such as anxiety and depression can modulate the tactile perception of the patient [14], affecting the prognosis and adherence to treatment. On the other hand, comorbid psychiatric disorders may arise secondary to dermatological lesions due to the visibility and social value given to the skin and also in response to stress, social isolation and stigmatization [15].

In this present study we aim to investigate the frequency of mental disorders in leprosy patients from two reference centers in a metropolitan area in Northeastern Brazil.

Methods

Study design

The original study was of a descriptive, census and observational nature.

Participants

A sample of 120 consecutive leprosy outpatients seeking treatment in two reference centers for leprosy, Hospital Dom Rodrigo de Menezes and University Hospital-Com-HUPES, Salvador, Northeast, Brazil, were invited to participate. Eligible patients were more than 18 years of age and had a confirmed leprosy diagnosis, and were undergoing antimicrobial treatment. The local Institutional Review Board approved the study protocol (062.2010 Protocol on August 5, 2010–0042.0.442.000-10 CAAE).

Procedure

After providing written consent, patients were evaluated in person with a research team member who administered a socio-demographic questionnaire and the Mini-International Neuropsychiatric Interview (MINI-Plus) – a short, structured diagnostic psychiatric interview for Diagnostic and Statistical Manual of Mental Disorders, fourth Edition (DSM-IV) disorders, validated to Portuguese. The interview was conducted by three research psychologists trained on these scales, under the supervision of a psychiatrist regarding the clinical history and mental status exam. MINI-Plus was also used to assess the risk of suicide. All subjects detected with mental disorders were referred for specialized psychiatric or psychological clinical assistance. The period of data collection was from October, 2009 to June, 2010 in Hospital Dom Rodrigo de Menezes and September, 2010 to January, 2012 in Com-HUPES.

Data was registered and analyzed using the Statistical Package for Social Sciences (SPSS for Windows, version 15.0; SPSS, Chicago, IL, USA). Due to the explorative character of the study, sample size was not calculated beforehand. Data describing quantitative measures are expressed as median or mean \pm SD unless indicated otherwise. Qualitative variables are presented as counts and percentages.

Results

The study included 120 patients undergoing antimicrobial treatment for leprosy. Those interviewed were mostly male (52.5%), with an average age of 42.6 years (SD 15.8 years) (ranging from 18 to 79). Regarding marital status, 49% were married, 43% were single, 6% widowers and 2% divorced. Concerning religion, 24% didn't belong to any; most participants said they were Catholic (47%), followed by Protestant (26%), Spiritualist (2%) and other religions (2%). [Table 1].

The assessment using the MINI-Plus showed that 34 (28.3%) patients did not have any psychiatric diagnosis and 86 (71.7%) had at least one. Of these 86 patients, 25 (20.8%) met the criteria for one diagnosis, 26 (21.7%) had two diagnoses and the rest, 35 (29.2%), had three or more psychiatric diagnoses. Of the total samples, 73 (60.83%) had multibacillary

Table 1

Socio-demographic data for leprosy patients being treated at two hospitals for leprosy in Salvador, Bahia, 2009–2012

Variable	Total (n)	Total (%)
Gender		
Male	63	52.5
Female	57	47.5
Marital status		
Single	52	43.3
Married	52	43.3
Remarried	7	5.8
Divorced	2	1.7
Widowed	7	5.8
Religion		
No religious affiliation	29	24.2
Catholic	56	46.7
Protestant/evangelical	31	25.8
Spiritist	2	1.7
Other religion	2	1.7
Age		
Age < 40	60	50
Age \geq 40	60	50
Schooling		
People who had no schooling	19	15.8

clinical classification compared with 47 (39.17%) who had the paucibacillary type of the disease.

The diagnosis of major depressive disorder was the most common. Of all patients, 37 (30.8%) were diagnosed with current depression and 39 (32.5%) had depression in the past.

From the entire sample of 120, 19 (15.8%) met the diagnostic criteria for panic disorder, 14 (11.7%) for agoraphobia and 18 (15%) for obsessive-compulsive disorder. In addition, 14 (11.7%) had body dysmorphic disorder (BDD), 11 (9.2%) generalized anxiety disorder, 11 (9.2%) social phobia and 7 (5.8%) somatoform pain disorder. Regarding the risk of suicide, it was absent in 99 subjects (71.3%), low in 20 (16.7%), moderate in 5 (4.2%) and high in 9 (7.5%) [Table 2].

All patients with moderate or high risk for suicide had one or more psychiatric comorbidities. Among the patients with moderate risk for suicide the following disorders were present: current depressive disorder (20%), depressive disorder in the past (80%), current hypomanic disorder (20%), manic in the past (20%), agoraphobia (40%), obsessive compulsive disorder (20%) and generalized anxiety disorder (20%). Among the patients with high suicide risk the following disorders were present: current depressive disorder (67%), depressive disorder in the past (44%), panic disorder (56%), current hypomanic disorder (11%), past hypomanic disorder (11%), current manic (11%), manic in the past (11%), agoraphobia (33%), social phobia (33%), obsessive compulsive disorder (22%), abuse and alcohol dependence (11%), generalized anxiety disorder (11%), BDD (44%), somatoform pain disorder (33%), and premenstrual dysphoric disorder (22%).

Among the entire sample, only four patients (3.3%) had been previously accurately diagnosed and only one was currently receiving psychiatric/psychological treatment (0.8%) [Table 3].

Discussion

Patients with leprosy had a high prevalence (11.7%) of BDD, compared with the general population, which is 7% [16]. In the general population, individuals with BDD reported higher rates of suicidal ideation (19% v. 3%) and suicide attempts due to concerns about appearance (7% v. 1%) than individuals who did not meet the criteria for BDD [16].

Moreover, the prevalence of leprosy patients with pain disorder (5.8%) was lower in comparison to the general population without leprosy (30.3% \pm 11.7%) [17] as well as the population with chronic non-malignant pain (16–18%) [18].

The most frequent diagnosis was of major depressive disorder (37, 30.8%). Similarly, in other studies, depressive illness was diagnosed with prevalence of 8% [19], 12% [20–22], 20% [23], 25% [24], 35% [25], 46% [26], 49% [27], 55% [28].

The results show that leprosy patients have a high prevalence of psychiatric comorbidities. Beyond that, most of them had no previous psychiatric diagnosis and the majority were not undergoing psychological treatment. These findings are in accordance with previous studies of other clinical populations such as HCV-infected patients [17]. In the present study, 71.6% of patients screened positive for psychiatric diseases. Similar morbidity rates were found in a study conducted in

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