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Psychiatric patients' satisfaction in the therapeutic residence services: A positive experience of psychiatric deinstitutionalization

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Abstract

This study investigated the satisfaction level of psychiatric patients in the therapeutic residential services of Barbacena-MG. Total population comprised 154 individuals, of which 45 were sampled. Subjects were interviewed with the SATIS-BR scale and a sociodemographic questionnaire. Results showed a high degree of satisfaction with the service for the global score and its three dimensions staff competence and understanding, help received, infrastructure. Results were not related to sociodemographic and clinical variables analyzed individually. Multivariate analysis indicated higher satisfaction for literate patients and for those that underwent some other form of treatment (e.g., hydrogymnastics and fitness activities) besides medications or occupational therapy. We conclude that the therapeutic residence services appear to be a viable alternative for mental health public policy, from the patients' perspective.

Keywords: therapeutical residence; patient satisfaction; community service; mental disturbance; mental health.

Resumo

Satisfação dos pacientes psiquiátricos nos serviços residenciais terapêuticos: Uma experiência positiva de desinstitucionalização psiquiátrica. O estudo objetivou avaliar a satisfação dos pacientes psiquiátricos nos Serviços Residenciais Terapêuticos-SRTs de Barbacena-MG. A população era de 154 indivíduos, dos quais 45 compuseram a amostra estudada. Os sujeitos foram entrevistados com aplicação da escala SATIS-BR. Os resultados indicaram alto grau de satisfação com os serviços, globalmente e nas dimensões competência e compreensão da equipe, acolhida e ajuda recebida, e infraestrutura. O grau de satisfação foi independente da maioria das características sociodemográficas ou clínicas dos sujeitos, quando analisadas isoladamente. Análise multivariada indicou maior satisfação para pacientes alfabetizados e que faziam algum tipo de tratamento (e.g. hidroginástica e atividades físicas), além do medicamentoso e da terapia ocupacional. Conclui-se que os SRTs são uma alternativa viável de política de saúde mental, sob a perspectiva dos moradores.

Palavras-chave: residência terapêutica; satisfação do paciente; serviço comunitário; transtorno mental; saúde mental.

Resumen

Satisfacción de pacientes psiquiátricos con los servicios residenciales terapéuticos: Una experiencia positiva de desinstitucionalización psiquiátrica. El objetivo de este estudio fue evaluar la satisfacción de pacientes psiquiátricos en Servicios Terapéuticos Residenciales-SRT de Barbacena-MG. La población fue de 154 personas, de las cuales 45 fueron escogidos para ser evaluados. Los sujetos fueron entrevistados utilizando la Escala de Satisfacción de Servicios de Salud Mental-SATIS-BR. Los resultados indicaron alto grado de satisfacción con los servicios prestados en la escala global y en sus dimensiones competencia y conocimiento de equipo, bienvenida y asistencia recibidas, y infraestructura. El alto grado de satisfacción fue independiente de la mayoría de las características sociodemográficas o clínicas, cuando se analizaron por separado. Análisis multivariado indicó mayor satisfacción para los pacientes que saben leer y escribir, así como aquellos que hacen algún otro tipo de tratamiento (e.g. hidroginástica y actividades físicas), que no sea la droga o terapia ocupacional. En conclusión, los SRT son una política de salud mental alternativa viable, desde el punto de vista de sus residentes.

Palabras clave: viviendas terapéuticas; satisfacción del paciente; servicios comunitarios; transtorno mental; salud mental.

Mental health services have been changing substantially in the last decades around the world (Thorncroft & Tansella, 2010). From 1950 and beyond a gradual shift was made from the asylum/hospital models of mental health services towards the community-based services that are close to patients' home, the so-called psychiatric deinstitutionalization (Jaegger et al., 2004). In Brazil, the initial steps toward the psychiatric reform date back to the 1970 decade, when the Brazilian movement for sanitary reform was implemented. Psychiatric deinstitutionalization is a complex social and political process that covers a multitude of actors, institutions and sources: federal, state and county governments, universities, health care providers, professional councils, patients' associations, and family members (Delgado et al., 2007). In Brazil, the health care workers movement in the late 1970's denounced violence against patients in psychiatric hospitals, as well as the prevalence of a private profit-based rather than a public network of mental health services (Delgado et al., 2007). The years after 1980 marked the establishment of the first Center for Psychosocial Care ("Centro de Atenção Psicossocial" – CAPS) in the city of São Paulo, as well as the establishment of cooperatives, associations and residences for patients formerly in psychiatric hospitals (Delgado et al., 2007). A bill regulating psychiatric patients' rights and calling for gradual extinction of psychiatric hospitals was proposed in 1989 before the Brazilian Congress, and made into law through the 10.216/2001 Act. This act, passed in 2001, redirected mental health services towards community-based services, and established rights and protection to mental health patients. Psychiatric deinstitutionalization thus became a matter of public policy, whereby alternative community-based mental health services should be emphasized. Programs were created that established the basis for a planned steady decrease in hospital-based mental care (Furtado, 2006). From 2002-2005, a decrease of 6227 mental hospital beds was recorded nationwide (Delgado et al., 2007). In contrast, the number of community-based mental services has increased steadily (Andreoli, 2007).

Psychiatric deinstitutionalization in Brazil established community-based mental health programs and services, such as the *Family Health Program* ("Programa Saúde da Família" – PSF), the *Coming Back Home Program* ("Programa de Volta para Casa" – PVC), the *Centers for Psychosocial Care* ("Centros de Atenção Psicossocial" – CAPS), and the *Therapeutic Residence*

Services ("Serviços Residenciais Terapêuticos" – SRT). PSF is focused on the care of physical health, as well as on health education and disease prevention, but its agents may also attend people with mental health problems. PVC provides monthly cash stipends (less than one minimum wage) to patients released from psychiatric hospital after one or more years of continual hospitalization. The CAPS provide psychiatric patients with clinical assistance on a daily basis, with the purpose of avoiding hospitalization and promoting their social insertion. This service also provides mental health supervision by professionals of the general basic health system (Delgado et al., 2007). Psychiatric patients may be eligible also for social care programs, such as the *Social Assistance Benefit* ("Benefício de Prestação Continuada da Assistência Social" (BPC) – that provides a minimum wage income to senior citizens (age ≥ 65) or to handicapped people (of any age) with long-time physical or psychological impediments (Ministério do Desenvolvimento Social e Combate à Fome, 2014).

The *Therapeutic Residence Services* (SRT) are mental health services mainly designed to provide for the needs of psychiatric patients who were long term hospital internees. Even though the SRT residences are considered health facilities, they are nonetheless supposed to grant patients' rights to housing and help patients in their reinsertion in the community (Delgado et al., 2007). Each residence should be assisted by a mental health professional staff, including caregivers and nursing professionals. The SRT are services that are rather recent in Brazil, but are steadily increasing: between 2002 and 2011, their numbers rose from 85 to 625 (Ministério da Saúde, 2004).

Cities or counties such as Barbacena, in the State of Minas Gerais (MG), with long tradition of psychiatric hospitals (Vidal, Bandeira, & Gontijo, 2008), were among the first to adopt the alternative SRT model. Barbacena at one time had seven large psychiatric hospitals, all of which had difficulty in offering adequate treatment to patients. The city established its first therapeutic residence in 2000, and soon became a national reference in the SRT model (Vidal et al., 2008), with 28 residences and over 150 patients in 2014.

In order to improve the quality of care, mental health services should be monitored, as recommended by the World Health Organization (WHO). This organization also suggested the use of quality indicators and increased support for research in this area (WHO, 1996). Authors have generally agreed as to the need for

evaluation of mental health services (Contandriopoulos, 2006; Donabedian, 1966; Donabedian, 1990) and recognized the importance of including the patients' perspective in this evaluation (Thorncroft & Tansella, 2005). Patients' satisfaction is currently regarded as one of the best indicative parameters of the quality of health services (Ruggeri, 2010). Satisfaction has been considered a result of patients' subjective expectations, attitudes towards life, self-esteem, behavior regarding diseases and previous experience with health services, and can also influence their adherence to treatment and the frequency of utilization of services (Ruggeri, 1994; Ruggeri, 2010).

Patients' satisfaction with therapeutic residences has been evaluated in several countries (Greenfield, Stoneking, Humphreys, Sundby, & Bond, 2008; Hanrahan, Luchins, Savage & Goldman, 2001; Hawthorne et al., 2005; Hawthorne, Green, Lohr, Hough, & Smith, 1999; Kasprow, Frisman, & Rosenheck, 1999; Osborn et al., 2010; Piat et al., 2008) through the use of validated rating scales. In Brazil, several studies have evaluated patients' satisfaction with mental health services (Bandeira & Silva, 2012; Bandeira, Silva, Camilo, & Felicio, 2011; Camilo, Bandeira, Leal, & Scalón, 2012; Heckert, Teixeira, & Trindade, 2007; Kantorski et al., 2009; Silva, Bandeira, Scalón, & Quaglia, 2012) but they have focused on the non-residential mental health service CAPS. Only in one case (Jaegger et al., 2004) did the study aim to assess patients' satisfaction in a residential service, SRT. The results of this study showed that 86,6% of the patients declared themselves fully satisfied with the services. However, these conclusions, based on data from only one institution (Instituto Julio Moreira, in Rio de Janeiro) may not be applicable to other SRTs, and, furthermore, they comprised a limited patient sample (15 patients). Therefore, there is a need to develop more research on the patients' evaluation of residential services. The present study aimed to assess patients' satisfaction and its associated factors in the therapeutic residences (SRTs) of the city of Barbacena-MG. Those services were chosen for evaluation because they are situated in a city with a unique past history of psychiatric hospitalization, and because it was one of the first cities to establish the SRT program.

Method

Target Population

The target population comprised 154 psychiatric patients from 25 residence services units (SRT), in the

city of Barbacena-MG, Brazil. Each residence harbored at most ten patients. Residents were adults with serious and persistent psychiatric disorders, with precarious or non-existent family ties. The Barbacena residence services are part of a countywide network of health services which include other types of mental health services. Each residence is associated to a reference service unit (CAPS) that provides medication and assistance to its patients. Inclusion criteria for the target population were: age 18 or older, from both sexes. Patients who were not able to understand the questions asked during the interviews.

Sample Size

A non-random sample of patients was selected in the services among those who were available and agreeing to be interviewed. Sample size was previously calculated in order to achieve a type II error of 10%, admitting a sample power of $d = |d|/s = 0,5$, where: $d=0.5$ (established by the authors of this study) and $s=1$ (an overestimation of values obtained in previous satisfaction studies) (Bandeira, Ishara, & Zuardi, 2007; Jaegger et al., 2004; Silva et al., 2012). The necessary sample size was calculated as 44. Four patients were previously excluded from the study for not being able to understand the questions that were asked. Altogether, 45 patients were chosen that fulfilled the inclusion criteria indicated.

Assessment of Patients' Satisfaction

Patients' satisfaction was assessed through the use of the SATIS-BR scale, a validated instrument (Bandeira & Silva, 2012) for the evaluation of satisfaction with mental health services. The questionnaire that gave rise to this scale is based on a 19-country study originally conducted by the WHO (1996). The scale validation for the Brazilian context was conducted by the Mental Health Research Laboratory (LAPSAM) at the Universidade Federal de São João del-Rei (UFSJ) (Bandeira & Silva, 2012; Bandeira, Pitta, & Mercier, 2000). The SATIS-BR scale comprises 12 questions, distributed among three sub-scales: Subscale 1 includes seven questions assessing patients' satisfaction with the caregivers' competence and understanding of their problems. Subscale 2 has three questions which evaluate patients' satisfaction with the way they were treated and helped in the service. Subscale 3 includes two questions related to patients' satisfaction with the physical settings and general comfort provided by the

service. Response options are presented as a 5-point Likert scale, in which 1 indicates full dissatisfaction, and 5 indicates full satisfaction with the services.

Sociodemographic and Clinical Questionnaire

A sociodemographic and clinical questionnaire, previously developed and tested at the LAPSAM/UFSJ (Barroso, Bandeira, & Nascimento, 2007), was applied to the interviewees, in order to assess their sociodemographic & life conditions, and clinical variables. The questionnaire evaluates the following sociodemographic variables and patient life conditions: age, sex, marital status, education, income, number of persons in his/her residence, among others. Clinical variables evaluated were: diagnostic, comorbidity, number of years in psychiatric treatment, type of treatment, length of the last psychiatric hospital stay, numbers and types of medication taken.

Data Analyse

Patients' responses to the SATIS-BR instrument were tabulated as a function of the sociodemographic or clinical variables evaluated by the questionnaire. Descriptive statistics (means, standard deviations and frequency of responses) were obtained for each of the 12 questions in the SATIS-BR scale (Table 1). Kruskal-Wallis tests and multiple comparisons were performed to compare the SATIS-BR three subscales (Table 2).

Mann-Whitney two-sample tests were also performed for comparisons of SATIS-BR scores between levels of the categorical variables evaluated by the sociodemographical and clinical questionnaires (Table 3). Spearman correlations coefficients were calculated between SATIS-BR scores and the levels of the continuous variables of the questionnaire (Table 4).

In order to identify groups of sociodemographic or clinical variables that could be predictors of SRT residents' satisfaction, a *stepwise* procedure for multiple linear regressions was used. Only independent variables identified as significant ($p < 0.05$) and those identified as non-significant with ($p < 0.25$) were included in the initial *stepwise* procedures. For the *stepwise* procedure, the values of ($p = 0.15$) and ($p = 0.20$) were adopted, respectively, as input and output probability criteria (Table 5). Statistical analysis and procedures were performed with the use of the software SPSS, version 20.0.

Data Collection and Ethical Considerations

SRT officials were initially contacted by the first author in order to explain the objectives of the study

and the procedures to be deployed. The importance of evaluation of patients' satisfaction was pointed to these officials. The project proposal was submitted to and approved by our University Ethics Committee for Research with Human Beings, as well as by the Barbacena-MG Coordination of the SRT program.

Patient's participation was voluntary and they were interviewed only after they had signed a Consent Form, declaring to be informed of the objectives and procedures of the research, and that they agreed to participate in the survey. A copy of the consent form, signed also by the researcher, was given to each of the patients interviewed, along with a phone number for direct contact with the research team. The interviewer informed the patients that they could use the phone number to inquire about the research, to clarify any possible doubts they could have, or to withdraw their consent to participate in the interview.

The objectives and procedures to be followed, and the estimated length of the interview, were previously informed to all participants in the survey. Participants were informed that they could quit the interview at any time they wished, and that no consequences would arise from this decision. They were also informed that their participation in the interview would not interfere in any way either in their permanence in the residence or in the treatment they received in the CAPS. Participants were likewise informed that there was no right or wrong answer, that they should answer to the questions sincerely, and that their answers would remain secret and anonymous. The SATIS-BR instrument was applied, always by the same interviewer, in individual interviews with each of the 45 patients sampled, conducted from May through September 2014.

Results

Sample Description

Out of the 45 SRT residents in the survey, 53.33% were females and 46.66% males. Mean patient age was 59.35 years, with a range between 39 and 97. The overwhelming majority of patients (84.44%) were single, whereas 11.11% lived with a companion or spouse. Illiteracy was declared by 40.00% of them, whereas 44.00% were barely literate, and only 13.33% had completed high school. Out of 45 patients interviewed, 44 (or 97.77%) had at least one source of income, and 42.22% declared two sources of income, those of the governmental programs PVC and BPC. An overwhelming majority (93.33%) did not have any formal jobs.

A large majority of patients (91.11%) attended out-of-home activities such as literacy programs, art therapy or hydrotherapy. In-house activities such as general home cleaning or help in the kitchen were reported by 97.77% of the residents. Over two-thirds of the patients (68.89%) did not have individual bedrooms and 57.77% shared room with only one additional person, whereas 11.11% shared a bedroom with two additional people.

Results of the clinical survey indicated that in 66.66% of the cases information on diagnostic category could not be retrieved from patients' files in the Barbacena Coordination Center for mental health, but 20% of the cases indicated diagnostics in the category "Schizophrenia, Schizotypal Disorders and Delusional Disorders", according to the International Classification of Diseases of the World Health Organization (CID-10) (Organização Mundial de Saúde, 1998). The majority of residents (82.22%) showed no physical comorbidities. Patients' mean time undergoing psychiatric treatment was 29.53 years (standard deviation = 16.56 years). All patients interviewed had undergone long stays at

psychiatric hospitals, with a mean period of 23.5 years for the last hospitalization.

All interviewees underwent psychological treatment, 91.11% had medication treatment and over 50% underwent also other types of treatment, which included hydrogymnastics and fitness activities (60% had three and 6.66% four types of treatment). The mean number of medications taken per person was 5.47. Two-thirds (66.66%) of the residents took medication by themselves, and over 80% would willingly take it when given by a third party. A large majority (77.77%) took medications orally, while 15.55% took them both orally and injected. Over half the residents (57.77%) presented other physical diseases, and 68.88% declared to undergo or to have undergone treatment for these diseases.

Patients' Satisfaction with the SRTs

Individual analysis of each of the 12 SATIS-BR scale items indicated a high degree of satisfaction (64.44% to 82.22% of patients reporting maximum scores 4 and 5) regarding various aspects of the SRT services (Table 1). The highest percent of satisfied individuals were

Table 1. Mean Scores and Percent Patient Satisfaction in Responses to the Items of the SATIS-BR Scale.

Items	Mean (Std. Dev)	Dissatisfied or very dissatisfied	Fairly satisfied	Satisfied or very satisfied
		Number of respondents (%)		
		Answers 1 & 2	Answer 3	Answers 4 & 5
1. Are you treated with respect and dignity in this house?	4.36 (0.98)	1 (2.22%)	10 (22.22%)	34 (75.56%)
2. When you first talked to the person who brought you to this residence, did you feel that he/she listened to your history?	4.11 (1.28)	5 (11.11%)	10 (22.22%)	30 (66.67%)
3. Did the technician that brought you to this house appear to understand your problem?	4.16 (1.21)	3 (6.67%)	11 (24.44%)	31 (68.89%)
4. Do you think the caregivers in this house understand the type of help you need?	4.11 (1.13)	2 (4.44%)	14 (31.11%)	29 (64.44%)
5. What is your opinion about the help with which this residence provides you?	4.04 (1.41)	6 (13.33%)	10 (22.22%)	29 (64.44%)
6. Are you satisfied with the conversation you had with the technician/ caregivers about your treatment?	4.42 (1.18)	4 (8.89%)	4 (8.89%)	37 (82.22%)
7. Do you feel the house staff is helping you?	4.47 (0.89)	0 (0.00%)	12 (26.67%)	33 (73.33%)
8. How do you rate the way you were greeted by caregivers/ technicians in this house?	4.44 (0.97)	1 (2.22%)	9 (20.00%)	35 (77.78%)
9. Do you consider the house staff competent?	4.36 (1.03)	1 (2.22%)	12 (26.67%)	32 (71.11%)
10. Do you consider competent the technician and caregivers of this house?	4.40 (0.86)	0 (0.00%)	11 (24.44%)	34 (75.56%)
11. Are you satisfied with the comfort and aspect of this house?	4.44 (1.06)	2 (4.44%)	7 (15.56%)	36 (80.00%)
12. How do you rate the house facilities (bathroom, kitchen, meals)?	4.53 (0.84)	0 (0.00%)	10 (22.22%)	35 (77.78%)

found for items 6 “Are you satisfied with the conversation you had with the technician/ caregivers about your treatment?” (82.22%), item 11 “Are you satisfied with the comfort and aspect of this house?” (80.00%), and item 8 “How do you rate the way you were greeted by caregivers/ technicians in this house?” (77.78%). Items for which there were comparatively larger frequencies of dissatisfaction were item 5 “What is your opinion about the help with which this residence provides you?” (13.33% dissatisfaction) and item 2 “When you first talked to the person who brought you to this residence, did you feel that he/she listened to your story?” (11.11% dissatisfaction). Those frequencies were nonetheless largely surpassed by frequencies of satisfied individuals.

Mean patients’ satisfaction scores were high (> 4) not only for the global scale, but also for each of its three component subscales (Table 2). Mean satisfaction measured in the global scale had a score of 4.32 in the 5-point Likert scale, indicating that patients were either satisfied or highly satisfied with the services. The highest degree of satisfaction (score 4.48) was for subscale 3, whereas the lowest score (4.22) was for subscale 1. In spite of the high mean levels of satisfaction found, Kruskal-Wallis tests (Table 2) indicated nevertheless slightly lower levels of satisfaction for the dimension 1 “competence of caregiving staff and their comprehension of the patients’ problems” than for dimension 3 [$p(1-3) = 0.015$]. There were no significant differences in satisfaction scores between dimensions 2 and 3 [$p(2-3) = 0.268$], or between dimensions 1 and 2 [$p(1-2) = 0.145$].

Univariate analysis was performed for each of the categorical variables comprising the sociodemographic and clinical questionnaires (Table 3). Mean scores and their standard deviations were computed for these categories, and Mann-Whitney two-sample tests were used to compare means of categorical variables. Two clinical variables included in the questionnaire (“Do you currently undergo psychiatric treatment?” and “Have you been subject to treatment in psychiatric hospital”) had 100% of residents responding “Yes”, and therefore were not included in the analysis. Results indicated (Table 3) that there were no significant differences ($p > 0.05$) between means for any of the categorical variables, and global satisfaction scores were close to or higher than 4 for all categories from all variables (Table 3).

Table 2. SATIS-BR Subscale Means, Standard Deviations, and Kruskal-Wallis Tests for Comparisons between Subscales.

SATIS-BR subscales	Mean (SD)	Multiple comparisons: Dif = 19.75**		
		Dif(1-2)	Dif(1-3)	Dif(2-3)
1. Competence of caregiving staff and their comprehension of the patients’ problems	4.22 (0.71)			
2. Satisfaction with the way patients were received and helped in the service	4.42 (0.61)	11.74		8.32
3. Patient satisfaction with physical installations and general comfort provided by the service	4.48 (0.77)		20.06*	
SATIS-BR global score	4.32 (0.61)			

Note. Bilateral Kruskal-Wallis tests: Chi-square = 6.45; d.f = 2; $p = 0.04$; Dif(1-2) = mean rank difference between subscales 1 and 2; Dif(1-3) = mean rank difference between subscales 1 and 3; Dif (2-3) = mean rank difference between subscales 2 and 3; SD = standard deviation; ** Value obtained from multiple comparisons with the Kruskal-Wallis test.

Spearman correlation coefficients were computed between global satisfaction scores and each one of the continuous demographic and clinical variables present in the questionnaire (Table 4). The correlation coefficients found were close to zero in magnitude, and in no instance were they significant ($p > 0.05$ in all cases) (Table 4).

In spite of the fact that no single variable was clearly associated with SATIS-BR scores, a multiple linear regression approach was implemented, in an attempt to identify groups of variables that could be assumed to be predictors of patients’ satisfaction. The *stepwise* procedure adopted for inclusion/exclusion of variables yielded a significant ($F = 5.040$; $p = 0.015$) multiple regression model in which two variables (X_1, X_2) were included (Table 5): X_1 = *Education level* (0=illiterate, 1=literate); X_2 = *Do you undergo other types of treatments (other than with medications or occupational therapy)?* (0=No, 1=Yes) (Table 5).

Table 3. Univariate Analysis of Categorical Sociodemographic and Clinical variables with Respect to Global Satisfaction of Patients with the SRT.

Categorical variables	Categories	N	SATIS-BR GLOBAL SCORE	
			Mean (Std. Deviation)	P
Sex	Female	24	4.24 (0.58)	0.19
	Male	21	4.42 (0.66)	
Comorbidities	No	37	4.32 (0.58)	0.55
	Yes	8	4.33 (0.81)	
Do you undergo treatment with medicaments?	No	4	4.61 (0.43)	0.34
	Yes	41	4.29 (0.63)	
Do you undergo occupational therapy?	No	38	4.38 (0.54)	0.56
	Yes	7	4.01 (0.94)	
Do you undergo other types of treatments?	No	19	4.23 (0.63)	0.33
	Yes	26	4.38 (0.61)	
Do you take medicament by yourself?	No	12	4.22 (0.73)	0.90
	Yes	30	4.34 (0.59)	
Do you take medicament with help of other people?	No	1	4.17 (0.00)	0.62
	Yes	37	4.29 (0.66)	
What types of medicament do you take?	Oral	35	4.31 (0.63)	0.84
	Oral + Injection	7	4.28 (0.62)	
In addition to psychiatric disease, do you have any other physical disease?	No	15	4.34 (0.60)	0.82
	Yes	26	4.34 (0.64)	
Do you undergo treatment for these physical diseases?	No	13	4.27 (0.51)	0.26
	Yes	31	4.38 (0.64)	
Education	Illiterate	18	4.23 (0.70)	0.72
	Literate	27	4.38 (0.56)	
Do you live with a companion?	No	40	4.38 (0.58)	0.07
	Yes	5	3.85 (0.74)	
Do you get any money or income?	No	1	4.83 (-)	0.32
	Yes	44	4.31 (0.62)	
Income level	< minimum wage	14	4.51 (0.45)	0.27
	≥ minimum wage	29	4.22 (0.69)	
Are you currently working?	No	42	4.30 (0.63)	0.42
	Yes	3	4.67 (0.14)	
Do you perform any in-house activity?	No	4	3.79 (1.16)	0.44
	Yes	41	4.37 (0.54)	
Do you perform any activities outside the house?	No	1	3.75 (-)	0.34
	Yes	44	4.33 (0.62)	
Do you have a bedroom all by yourself?	No	26	4.29 (0.61)	0.65
	Yes	19	4.36 (0.64)	

Note. N = number of respondents; P = p-value (two-sided Mann-Whitney tests)

Table 4. Univariate Analysis of Continuous Sociodemographic and Clinical Variables with Respect to Global Satisfaction of Patients with the SRT Services.

Continuous variable	Mean (Std. Deviation)	SATIS-BR GLOBAL SCORE	
		(a) r	(b) p
Age (years)	59.4 (10.7)	-0.293	0.051
Time under psychiatric treatment (years)	29.5 (16.6)	-0.130	0.40
Years as SRT residents	9.3 (3.0)	-0.008	0.96
Number of current treatments	2.7 (0.7)	-0.021	0.89
Length of the last hospitalization (years)	23.5 (14.0)	-0.306	0.07
Number of medicaments taken	5.5 (3.8)	0.196	0.21
With how many people do you share your bedroom?	0.8 (0.6)	-0.230	0.13

Note. (a) r = Spearman correlation coefficients; (b) p = p-value

Table 5. Multiple Linear Regression of Sociodemographic and Clinical Variables Associated with Satisfaction Scores in Therapeutic Residences: Variables Included by the Stepwise Procedure.

Predictive variables	SATIS-BR Global Score			
	Beta	SD	t	P
Intercept	3.805	0.191	19.969	<0.001
X1 = Education (0=illiterate; 1=literate)	0.501	0.204	2.453	0.022
X2 = Do you undergo other types of treatments? (0=No; 1=Yes)	0.414	0.203	2.045	0.052

Note. SD = standard deviation; t = values of the t statistics; P = p-value; R² = coefficient of determination; DW = Durbin-Watson test

The multiple linear regression model obtained could be expressed as: Satisfaction score = 3.805 + 0.501 X₁ + 0.414 X₂. Adjusted R² for this regression indicated that these two independent variables were able to explain 24.4% of the variation among the data (Table 5). The regression indicates that literate patients tend to show satisfaction scores higher (0.510 points higher, on a 1 to 5 Likert scale) than those of illiterate patients. Likewise, patients that underwent other types of treatment (other than with medications or occupational therapy) tend to show scores 0.414 higher than those that do not undergo other types of treatment.

Even though this set of two variables was the one that best explained the patient satisfaction scores with the SRTs, the multiple regression model possessed nevertheless a low predictive value (adjusted R² = 0.244). A possible reason for this result can be put down to the fact that satisfaction scores were high (generally larger than 4 in the Likert scale from 1 to 5), as demonstrated

by the univariate analysis (Tables 3 and 4), with a very narrow range of variation among different levels of each of the variables.

Discussion

The results of the present study indicate that the psychiatric patients evaluated in the residential services (SRTs) of Barbacena showed a high degree of satisfaction with these services. For each one of the twelve items of the SATIS-BR scale measured with a *Likert* scale of five points, the overwhelming majority of residents (> 64% in all cases) declared themselves satisfied or very satisfied with the services, and only a minority (< 13% in all cases) declared to be unsatisfied or very unsatisfied, resulting in mean satisfaction scores higher than 4. Global satisfaction score mean was 4.32 in the *Likert* scale, and in the subscales of the SATIS-BR, mean satisfaction scores were always larger than 4.22, indicating satisfaction and high satisfaction.

Other than the present work, only one Brazilian study (Jaegger et al., 2004) assessed the satisfaction level of psychiatric patients who were residents in the SRTs. Their authors assessed the global satisfaction score (also through the SATIS-BR scale) of residents in the Instituto Juliano Moreira, Rio de Janeiro-RJ, Brazil. Similarly to our present study with the SRTs in Barbacena-MG, that study (Jaegger et al., 2004) indicated a high global degree of patients' satisfaction with the services (mean score of 4.52 in the 5-point scale). Unfortunately, no results were reported from the SATIS-BR subscales.

In the present study, the highest degrees of patients' satisfaction were found in the SATIS-BR subscale that evaluates physical installations and patient comfort. The physical installations of the SRTs may therefore have been comparatively a major contributor to the global high degree of patient satisfaction.

None of the sociodemographic or clinic variables analyzed separately, whether categorical or continuous, was associated with scores of patients' satisfaction. For the categorical variables, no significant differences in the degree of satisfaction were detected among the categories considered. For the continuous variables, there was no significant correlation with the global score or with any of the subscale scores. The degree of satisfaction was high regardless of sex, age, length of the last hospitalization, length of the SRT stay, education, marital status, income, use of medicaments, types of treatment undergone, or number of additional

people in sleeping in the same bedroom, among other variables.

The results allowed however for the identification of sets of variables more closely associated with satisfaction of the Barbacena-MG residents of the SRTs. A multiple linear regression analysis was performed in order to identify variables that, taken as a group, could explain possible differences in the perception of satisfaction among the interviewed patients. Even though the regression indicated that patient satisfaction tends to be higher for patients that were literate and for those that underwent other types of treatment (other than with medications or occupational therapy), the multiple linear model could explain only 24,4% of the total variation among responses, and had therefore a low predictive value.

Under these circumstances, the high degree of satisfaction observed in this study indicated that the implementation the SRT units lead to satisfactory results, regardless of sociodemographic or clinical patients' characteristics. This result reinforces the SRT model as a general instrument of public policy for social inclusion of a wide range of psychiatric patients.

The present results are similar to those reported by several authors in other countries (Greenfield et al., 2008; Hanrahan, et al., 2001; Hawthorne et al., 2005; Hawthorne et al., 1999; Kasproff et al., 1999; Osborn et al., 2010), in which, in spite of different methodologies, evaluation instruments, previous hospitalization histories and patient populations, no significant differences in the degrees of satisfaction were found among the patient subgroups studied. Wherever differences were detected in those studies, satisfaction scores were higher for patients of residential services.

Other studies in Brazil have also used the SATIS-BR scale as a measure of patient satisfaction (Bandeira et al., 2011; Camilo et al., 2012; Heckert et al., 2007; Kantorski et al., 2009; Silva et al., 2012). However, their objective was to evaluate satisfaction of patients, family members and mental care professionals of the Centers for Psychosocial Attention (CAPS), a non-residential patient service. It should be noted that in these studies the highest satisfaction scores were found for the dimension that evaluated satisfaction with the professional staff and the lowest satisfaction score for the dimension of services physical structure. In contrast, our SRT study indicated highest satisfaction (score 4.48) in the dimension that evaluated physical installations and patient comfort.

The high degrees of satisfaction with the SRT demonstrated by the residents in the present study, especially with physical installations/patient comfort, may reflect their past experience with the psychiatric hospital history of Barbacena-MG: pavilions in a precarious state of conservation, excessive number of patients, absence of suitable treatment, lack of remedies, and food scarcity (Vidal et al., 2008). The average period of time spent by the residents in those psychiatric hospitals under such deplorable conditions was 29.5 years – a fact that may have contributed to a high degree of satisfaction with the SRT, under comparatively more adequate facilities. The high degree of patient satisfaction could have resulted from a comparison between their previous expectancies and their actual experiences with the SRT, according to the *contrast model* of the expectancy approach (Pascoe, 1983), as conceptualized by Ilgen (1971) and Weaver and Brickman (1974).

The current research presents nonetheless some limitations. It is a correlational study, that is, it was designed to identify factors associated with patient satisfaction, but it could not establish causal relationships among the variables studied. Also, it was a cross-sectional study, so that it could not follow up possible changes in the degrees of patient satisfaction along a period of time. A final limitation is that this research dealt with SRT of only one county (Barbacena-MG), a fact that impairs generalization of the results to other counties' residential services. Because of these limitations, new similar studies, with random samples and with the same measurement instrument, would be necessary in order to obtain more general results.

It is rather clear that the SRT experience in Barbacena has nonetheless achieved, at least under the patients' perspective, a degree of success in the process of psychiatric deinstitutionalization. This conclusion indicates that the Barbacena SRT programme is in agreement with suggestions made by Niles (2013) in order to assist mental health professionals and the community at large in implementing programs to assist former patients integrate positively into the community. Deploying qualitative research methods, Franco and van Stralen (2015) reached similar conclusions about the SRT services, pointing out that Back Home Program ('Programa Volta Para Casa', practiced in the city of Belo Horizonte), as well as the psychiatric reform politics, have made possible the deinstitutionalization policy. Positive results with therapeutical residence services were also reported in Northeastern Brazil by Kinker (2017).

Similarly positive deinstitutionalization measures are reported in other countries: in the USA, the YMA-Young Minds Advocacy (2013) points out the positive results brought about by the Community Mental Health Act of 1963 and subsequent policy changes, that helped trigger a major transformation of the public mental health system by shifting resources from large institutions towards community-based mental health programmes, including community living.

In spite of the positive results achieved by therapeutical residence services and other deinstitutionalization programmes, there is some criticism about its effectiveness towards patients with severe mental illnesses. Davis, Fulginiti, Kriegel and Brekke (2012) indicated that the current U.S. decentralized community-based model of mental health care has generally benefited middle-class individuals with less severe disorders, while those with serious and persistent mental illness, with the greatest need, often fare the worst – a statement backed up by Pollack (2013). Underfunding by local and federal governments is reported by many authors (Davis et al., 2012; Pollack, 2013; Yohanna, 2013) as a probable cause of this limited success.

In Brazil, even though socioeconomic statistics on mental health patients is scarce, studies with patients discharged from psychiatric hospitalization and their caregivers (Cardoso & Frari-Galera, 2011), and with CAPS patients (Mangualde et al., 2012) indicated a picture of predominantly low income. The Barbacena SRT patients in our study were overwhelmingly illiterate or barely literate (>80%), held no formal jobs (>90%) and whatever income they had came from public funds. The underfunding issue is therefore particularly critical for therapeutic residence programmes in Brazil, since the initial expectation that community-based health services would be cheaper than hospital-based services do not necessarily turn out to be true (Yohanna, 2013).

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