

ORIGINAL RESEARCH

Investigating the Effect of Adherence to Antipsychotic Therapy on the Length of Stay and Number of Hospitalizations in Patients with Schizophrenia – A Descriptive Analysis

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Background: Optimizing long-term outcomes in schizophrenia treatment requires effective pharmacological interventions. Medication adherence is known to influence clinical outcomes, yet there is a scarcity of studies examining its correlation with factors like Length of Stay (LOS) and re-hospitalization frequency. These outcomes are crucial indicators of how medication adherence affects overall patient well-being.

Purpose: This study aims to describe the effect of medication adherence on the length of stay (LOS) and number of hospitalizations in patients with schizophrenia.

Patients and Methods: A total of 157 subjects from the West Java Psychiatric Hospital were included in this cross-sectional retrospective study. Data, including demographics, comorbidities, duration of illness, antipsychotic adherence, LOS, and the number of hospitalizations, were collected from the patients' medical records. All the data were analyzed using the Chi-Square (χ^2) test with a significance level set at p < 0.05.

Results: Our findings showed that 88% of all schizophrenia inpatients were in the nonadherence group. The highest (40.7%) LOS (>30 days) was found in the non-adherence group with discontinued therapy/stopped therapy group, while the highest percentage of patients with less than five hospitalizations was identified in the obedient and regular therapy group (94.4%). In the statistical results, we observed a significant association between therapy adherence (p = 0.043) and therapy regimen (p = 0.014) with gender. Additionally, the distinction between male and female schizophrenia patients demonstrated statistical significance (p = 0.000).

Conclusion: In this study, therapy adherence and therapy regimen were found to have a significant association with gender, as well as differences between the number of male and female schizophrenia patients that were statistically significant. While other variables may exhibit clinical associations, their statistical significance has not been fully depicted. The results of this study could be preliminary study for subsequent observational studies.

Keywords: adherence, antipsychotic, hospitalization, LOS, schizophrenia

Introduction

Schizophrenia is a psychosis, a mental disorder characterized by disruptions in thought processes, perceptions, emotions, sense of self, and social interactions, including language and behavior. In brief, schizophrenia is a chronic and severe illness affecting a large number of people, approximately 20 million, and it is one of the top 15 leading causes of disability worldwide. Furthermore, schizophrenia is also associated with increased mortality rates – as well as

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shortened lifespan that are reported to be two to four times higher than in the general population,³ rendering this disorder a serious threat.

Neurotransmission abnormalities, such as excess or deficiency of dopamine, serotonin, and glutamate, have provided the theoretical framework upon which the pathophysiology of schizophrenia is based. Furthermore, numerous studies have implicated aspartate, glycine, and gamma-aminobutyric acid in neurochemical imbalance of schizophrenia.⁴ Genetic factors also play a substantial role in the development of schizophrenia, a role that is both straightforward and incredibly complicated.⁵ Genetic studies, especially those on genetic polymorphism, have strongly suggested that many different genes increase the risk of developing schizophrenia.¹ In addition, genetic polymorphism related to the therapeutic response of antipsychotics has been extensively studied.^{6–8}

The goal of pharmacological and non-pharmacological treatment of schizophrenia is to improve symptoms, prevent potential relapse, and increase adaptive functioning so that patients can be integrated back into the community. Both types of treatment must be used to optimize long-term outcomes. The use of antipsychotics as a pharmacological therapy in schizophrenic patients is recommended by the American Psychiatric Association (APA) and other psychiatric associations. APA states that the use of antipsychotics should be monitored and observed for its subsequent effectiveness and side effects.³ The effectiveness of antipsychotic therapy can be evaluated by clinical response, which is influenced by various factors, including age, mode of onset of illness, gender, duration of psychosis, schizophrenia subtype, primary negative symptoms, signs of extrapyramidal or other side effects, genetic factors, and adherence to therapy. 10-12 Failure to adhere to antipsychotic medication regimens results in prolonged antipsychotic treatment. Research indicates that individuals with moderate or light medication adherence have a 52% to 72% higher likelihood of being hospitalized for schizophrenia, with confidence intervals ranging from 30% to 75% and 49% to 100%, respectively, compared with the prolonged use of antipsychotic.¹³ Patients with schizophrenia switched to lurasidone experienced significantly fewer hospitalizations for all causes and mental health reasons, with comparable rates of schizophrenia-related hospitalization compared to those switched to quetiapine. 14 Other study related to the increasing dose of antipsychotic does not give an impact on the decreased number of LOS and hospitalization. These findings align with previous research indicating that higher antipsychotic dosages do not provide clinical benefits. Optimized medication practices may offer positive effects, not only in managing schizophrenic symptoms but also in addressing violence in schizophrenic patients'.

In general, medication adherence improves clinical outcomes, thus adherence to antipsychotics is bound to improve outcomes in mental illnesses such as schizophrenia. 15,16 Nonadherence to antipsychotic drugs can exacerbate negative symptoms and prognosis and increase the respective morbidity rates. 16–20 Factors related to medication adherence involve age, substance abuse, poor insight, cognitive impairments, low level of education, minority ethnicity, poor therapeutic alliance, high intensity of delusional symptoms and suspiciousness, low socioeconomic status, and the development of an effective therapeutic relationship between patients and clinician/pharmacist. 16–18 Besides, medication nonadherence also related to increased risk for relapse, extended length of stay (LOS) in hospital settings, and high risk for rehospitalization. 21,22 A comparative study on oral versus long-acting injectable antipsychotics (LAIAs) stated that the actual type of antipsychotic, including its preparation form, affects patients' compliance and therapy response, which is indicated by the number of rehospitalization events. 23 The present study analyzed the adherence to antipsychotic therapy among schizophrenic patients and its association to LOS and the number of hospitalization events. We conducted a study to assess the impact of adherence to antipsychotic treatment on clinical outcomes, aiming to identify the primary factors associated with Length of Stay (LOS) and the frequency of hospitalizations. This study aimed to provide new insights into the relationship between medication adherence and these clinical parameters. This study therefore provides greater insight into the urgency of seeking antipsychotic compliance, especially among schizophrenia cases in Indonesia.

Materials and Methods

Study Design and Population

This is a nonexperimental, descriptive cross-sectional, and retrospective study among schizophrenia patients at the West Java Psychiatric Hospital (Rumah Sakit Jiwa Jawa Barat). A total of 305 data were collected from medical records data, including demographics, comorbidities, duration of illness, antipsychotic adherence, LOS, and the number of hospitalization events.

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The patients who met the inclusion criteria were 18–65 years old and diagnosed with schizophrenia spectrum disorder based on diagnostic and statistical manual of mental disorder IV (DSM IV). The data that are incomplete or cannot be traced and patients who have other psychiatric disease such as bipolar, depression, etc., would be excluded. A total of 157 patients are included in this study, as illustrated in Figure 1. All procedures and patient consent for reviewing medical records were waived by the Health Research Ethics Committee of Universitas Padjadjaran (No. 1127/UN6.C.10/PN/2017) due to the retrospective and anonymized nature of the study, in compliance with the Helsinki Declaration.

Statistical Analysis

From this research, data on patient characteristics and clinical outcomes were obtained. To determine the relationship between patient characteristics and clinical outcomes, hypothesis testing was performed using the Chi-Square (χ^2) test or the Fisher's exact test for dichotomous data, and the Mann–Whitney U-test was used to assess the relationship between polytomous characteristic variables when the chi-square conditions were not met. The interpretation of the analysis results is based on the significance value (p-value). If the significance value is <0.05, it indicates a relationship between patient characteristics and clinical outcomes.

Results

Characterization of Patients Based on Medication Adherence

The majority of patients did not adhere to their medications (88.5%) (Table 1). The nonadherence group included patients with a history of discontinuing medication/drugs withdrawal or patients with medication-related issues, such as the

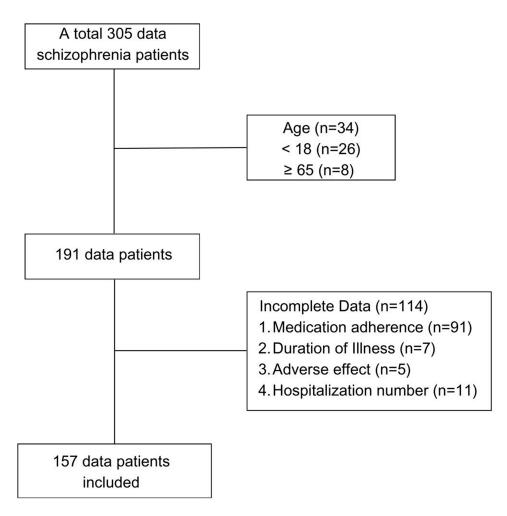


Figure I Research flowchart.

Table I Frequency of Medication Adherence

Frequency of Adherence	Frequency	Percentage (%)	Cumulative Percentage (%)
Adherent	18	11.5	11.5
Non-adherence	139	88.5	100.0
Total	157	100	

development of adverse effects and accessibility to the therapy, which affected medication adherence. Many studies have investigated the association between medication adherence and the effectiveness of antipsychotic therapy. It has been known that adherence to an appropriate therapy is bound to increase the efficacy of the therapy and possibly reduce disease progression.^{24–26} Nevertheless, in this study, statistically significant differences were not found concerning the correlation between medication adherence and patient characteristics.

Characterization of Patients Based on Gender

Males and females responded differently to medication adherence, including duration of the disease, age of onset, adverse side effects, LOS, and hospitalization events (Table 2). In addition, medication adherence between the two genders also has slight differences. The percentage of male patients was greater than females (70.1% vs 29.9%), and the

Table 2 Characteristic Based on Gender

Characteristic Based on Gender		Female	%	Male	%	p-value
Sex		47	29.9	110	70.1	0.000
Age (years old)	≤20	2	4.3	5	4.5	1.000*
	>20	45	95.7	105	95.5	
Duration Of Illness (years)	<10	22	46.8	62	56.4	0.542
	≥10	22	46.8	39	35.5	
	>20	3	6.4	9	8.2	
Diagnose	Hebephrenic	17	36.2	36	32.7	0.710**
	Katatonic	0	0.0	I	0.9	
	Chronic	0	0.0	1	0.9	
	Paranoid	23	48.9	52	47.3	
	Residual	2	4.3	10	9.1	
	Resistant	0	0.0	I	0.9	
	Unidentified	5	10.6	9	8.2	
Length of Stay (days)	≤30	30	63.8	66	60.0	0.482
	>30	17	36.2	44	40.0	
Hospitalization (Times)	≤5	44	93.6	100	90.9	0.756*
	>5	3	6.4	10	9.1	

(Continued)

Table 2 (Continued).

Characteristic Based on Gender		Female	%	Male	%	p-value
Adverse Effect	Yes	3	6.4	9	8.2	1.000*
	No	44	93.6	101	91.8	
Regiment Therapy	Mono	12	25.5	10	9.1	0.014
	Combined	35	74.5	100	90.9	
Medication Adherence Obedient And Reg		6	12.8	12	10.9	0.043
	Drug-Taking Problem	9	19.1	7	6.4	
Stopped Therapy		32	68.1	91	82.7	

Notes: X²-test *Fisher test **Mann–Whitney test, bold text: statistically significant.

majority of patients were over 20 years of age (95.7% and 95.5%, respectively) (Table 2). Most male patients had been diagnosed with schizophrenia less than 10 years (56.4%), whereas most female patients had been diagnosed less than 20 years (93.6%). Females were found to require less hospitalization time than men as indicated by the LOS (<30 days) among females and males (63.8% vs 60.0%). Meanwhile, the percentage of female patients with LOS of more than 30 days was 36.2% compared to 40.0% among males. In line with the LOS data, females had a lower number of rehospitalization events than men. More specifically, the percentage of female patients with less than five hospitalizations was greater compared to that among males (93.6 vs 90.9%), while hospitalization events of more than five times in females were lower than that in males (6.4% vs 9.1%). A relatively small number of patients (less than 10.0%) was identified to experience adverse effects, especially extrapyramidal syndrome (6.4% and 8.2% in females and males, respectively). Furthermore, discontinuation of therapy was more common among men than women (82.7% vs 68.1%), a finding which is consistent with the higher rate of adherence to therapy in females than in males (12.8% vs 10.9%), although the difference was small. In the statistical results, we observed a significant association between therapy adherence (p = 0.043) and therapy regimen (p = 0.014) with gender. Additionally, the distinction between male and female schizophrenia patients demonstrated statistical significance (p = 0.000).

Characterization of Patients Based on Adherence

This study showed that medication adherence can be associated with several factors, including age, duration of illness, incidence of adverse effects, and regiment of therapy (Table 3). Although we did not find statistically significant associations between medication adherence and patient characteristics in this study, previous research has suggested that medication adherence to antipsychotics may indeed influence the length of stay (LOS) and the likelihood of rehospitalization events in individuals with schizophrenia. A high percentage of patients in all medication adherence categories was over 20 years of age (Table 3). In contrast, several parameters were found to affect medication adherence and the duration of illness, including the percentage of patients with obedient and regular medications, which decreased with increasing duration of illness (66.7% for <10 years, 22.2% for \ge 10 years, and 11.1% for >20 years). Similarly, the percentage rate in the stopped therapy group decreased with the increasing duration of illness (56.1% for <10 years: 35.8% for \ge 10 years, and 8.1% for >20 years). However, a distinct difference was found in the drug-taking group. The stopped therapy group had the highest percentage of patients with LOS > 30 days (40.7%). In addition, the obedient and regular therapy group had the highest percentage of patients with less than five hospitalization events (94.4%), whereas the stopped therapy group had the highest percentage of patients with more than five hospitalization events (8.9%). The drug-taking group had the highest percentage of adverse effect incidence (18.8%) followed by the stopped therapy group (7.3%), whereas there were no cases of adverse effect in the obedient and regular therapy group.

Table 3 Patients Characteristic Based on Medication Adherence

Characteristic Based on Adherence		Obedient and Regular	%	Drug-Taking Problem	%	Stopped Therapy	%	p-value
Age (years old)	≤20	I	5.6	0	0.0	6	4.9	0.701*
	>20	17	94.4	16	100.0	117	95.1	
Duration of Illness (years)	<10	12	66.7	6	37.5	69	56.1	0.166**
	≥10	4	22.2	7	43.8	44	35.8	
	>20	2	11.1	3	18.8	10	8.1	
Diagnose	Hebephrenic	7	38.9	5	31.3	41	33.3	0.932**
	Katatonic	0	0.0	0	0.0	1	0.8	
	Chronic	0	0.0	I	6.3	0	0.0	
	Paranoid	8	44.4	8	50.0	59	48.0	
	Residual	0	0.0	I	6.3	П	8.9	
	Resistant	0	0.0	0	0.0	1	0.8	
	Unidentified	3	16.7	1	6.3	10	8.1	
Length of Stay (days)	≤30	11	61.1	12	75.0	73	59.3	0.516
	>30	7	38.9	4	25.0	50	40.7	
Hospitalization (Times)	≤5	17	94.4	15	93.8	112	91.1	0.565*
	>5	I	5.6	I	6.3	П	8.9	
Adverse Effect	Yes	0	0.0	3	18.8	9	7.3	0.967*
	No	18	100.0	13	81.3	114	92.7	
Regiment Therapy	Mono	2	11.1	3	18.8	17	13.8	0.958*
	Combined	16	88.9	13	81.3	106	86.2	

 $\textbf{Notes} \colon X^2\text{-test *Mann-Whitney test **Kruskal-Wallis test.}$

The Effect of Regiment Therapy on Clinical Outcomes

The monotherapy group had a higher percentage of LOS < 30 days than the combined therapy group (63.6% vs 60.7%) (Table 4). In addition, the monotherapy group had lower hospitalization rates than the combined therapy group (95.5% and 4.5% vs 91.1% and 8.9%). Meanwhile, the monotherapy group had zero cases of adverse effects, suggesting that all adverse effect cases occurred in the combined therapy group. It should be mentioned that the majority of patients who had been diagnosed with schizophrenia more than 10 years ago underwent a combined therapeutic approach rather than monotherapy (63.0% vs 45.5%). Our findings showed that patients with obedient and regular therapy had a smaller LOS (≤30 days) compared to the stopped therapy categories (61.1% vs 59.3%). Adherence to medication, not only to antipsychotic agents but also to almost all types of therapies, including antibiotics, has been known to influence clinical outcomes. The present study showed that the number of hospitalizations was higher on the stopped therapy group rather than the drug-taking and obedient or regular therapy groups (8.9%, 6.3%, and 5.6%, respectively). As mentioned before, adherence could be a predictor factor of 30-day hospital readmission events.

Table 4 Regiment Therapy and Clinical Outcomes

Regiment to Clinical Outcomes		Mono	%	Combined	%	p-value
Length of Stay (days)	≤30	14	63.6	82	60.7	0.847
	>30	8	36.4	53	30.1	
Hospitalization (Times)	≤5	21	95.5	123	91.1	0.695*
	>5	I	4.5	12	8.9	
Adverse Effect	Yes	0	0.0	12	13.8	0.219*
	No	22	100.0	123	91.1	
Duration of Illness	<10	12	54.5	75	55.6	0.996
	≥10	8	36.4	47	53.4	
	>20	2	9.1	13	9.6	

Notes: X²-test *Fisher test.

Discussion

In general, mental illnesses require long-term therapy; thus, adherence to therapy has been recognized as a significant challenging aspect of the overall treatment.^{27,28} Basically, the use of long-term antipsychotic therapies can be explained by the provision of initial as well as maintenance therapy, of which the latter likely contributes to improving clinical practice and care for patients with psychotic diseases.²⁹ Our findings are consistent with that statement and demonstrate that clinical outcomes tended to be worse in psychotic patients who had not received maintenance therapy. A large proportion of patients, ranging from 19.0% to 48.2%, were not on maintained therapy.³⁰ The results of a meta-analysis study from 26 studies investigating the factors related to antipsychotic medication adherence and 17 studies investigating interventions to improve adherence in patients with psychosis spectrum disorders revealed that adherence to the antipsychotic agent was associated with the positive attitude shown by both patients and their families toward medication, family involvement, and illness insight. Consequently, it can be inferred that comprehensive intervention strategies should be designed to address factors associated with psychotropic medication nonadherence.³¹

Recent studies have shown that males and females have different prevalence rates, symptoms, onset, and clinical responses to psychiatric disease treatment, including schizophrenia. 32-34 In addition, this study revealed statistically significant differences between male and female individuals diagnosed with schizophrenia (p = 0.000). Recent genetic studies have also suggested the presence of a significant sex-specific pathway in schizophrenia. Most of these studies indicate that genetic factors can influence the molecular pathogenesis of schizophrenia and can thus be considered a predictor of risk factors. 35 The study found that gender influences the corresponding drug response through the amount of drug concentration related to the pharmacokinetic mechanism and the number of neurotransmitter receptors to which it can bind. 10,36,37 Gender differences were also speculated to influence the pharmacokinetic process and predict the adverse reaction specifically in females. Furthermore, studies related to the influence of genetics on the risk of schizophrenia conducted in the UK found that 70.1% of patients with schizophrenia were males. 10 which is consistent with the results of a previous review and meta-analysis studies stating that the incidence of schizophrenia was two to three times higher among males than females.³⁸ Following the inclusion of all these studies (effect size: 49), the incidence risk ratio between men and women in terms of developing schizophrenia was 1.42 (95% confidence interval [CI], 1.30–1.56). In contrast, the incidence risk ratio was 1.31 (95% CI, 1.13–1.51) when studies that minimized selection biases were analyzed separately (effect size: 23) and 1.39 (95% CI, 1.15-1.68) when only high-quality studies were included (effect size: 11).³⁹ The previous study concluded that the male sex is a major risk factor for more severe and therefore more easily recognizable forms of schizophrenia. ^{39,40} Other previous studies also showed that genetic variations in Interferon gamma receptor 2 (IFGNR2) in the Tunisian population and Chromogranin B (CHGB) in the Korean

population are significant risk factors for the development of schizophrenia in males. 41,42 In the context of medication adherence, previous studies have shown that gender differences result in significant disparities between women and men regarding the intensity of their medication use, their adherence to prescribed medications, and their likelihood of receiving guideline-based drug therapy. Furthermore, with respect to the utilization of therapeutic regimens, it has been observed that women are more inclined towards combination therapies as compared to men. 43 This aligns with the findings of our study, which identified statistically significant differences in medication adherence and therapy regimen based on gender.

Although schizophrenia can occur at any age, the age of onset is typically classified into two categories, before 20 years old or after 20 years old, based on the average onset of schizophrenia, which tends to be in the late teens to the early 20s for males and late 20s to early 30s for females. It is uncommon for schizophrenia to be diagnosed in people younger than 12 or older than 40. 44,45 In the present study, we found that more than 95% patients with schizophrenia were over 20 years of age. In contrast, slightly more males than females were found to have an early onset at an age of less than 20 years (4.5% vs 4.3%, respectively).

A linear regression analysis of a Norwegian, multicenter, observational cohort demonstrated a trend towards shorter LOS when LOS was analyzed in patients after hospitalization with symptoms of schizophrenia who had been discharged alive (predicted mean difference -0.47, 95% CI (-1.02, 0.07), p = 0.081). In a competing risk analysis of LOS, the adherent group had a subdistribution hazard ratio (SHR) of 1.17 [95% CI (1.02, 1.34), p = 0.025] for discharge compared to the nonadherent group. Conclusions of adhering to antibiotic guidelines when treating infections in hospital inpatients were associated with favorable patient outcomes in terms of mortality and LOS. 46 Another study on Parkinson's Disease stated that strict protocol adherence to the therapy could reduce LOS with a decrease in the actual/expected LOS ratio from 1.54 to 1.32 (p < 0.05). The dosage form is one of the factors that affect compliance. Some studies suggested that compliance could be maintained significantly more effectively when using injectable antipsychotics compared to oral antipsychotics. However, some studies stated that LOS was not statistically significantly reduced in patients receiving LAIAs following treatment with oral antipsychotics. 23,47,48 Meanwhile, another study showed that LOS was associated with patients discharged from hospital [aOR: 3.65 (1.66-8.01), p = 0.001] and treatment for antipsychotic extrapyramidal side effects during hospitalization [aOR: 3.45 (1.32–9.03), p = 0.012]. Patients who had more interactions with medical providers during psychotic episodes prior to presentation at the unit were less likely to have a long LOS [aOR: 0.35 (0.16-0.76), p = 0.008]. between medication adherence and LOS, adherence can also be used as a predictor factor of the 30-day hospital readmission, and thus to the number of hospitalization events in psychiatric patients. 50 A study performed in Thailand demonstrated that 140 (24.1%) patients with schizophrenia had a significantly longer LOS rather than patients with optimal adherence (0.56 ± $2.64 \text{ days vs } 0.06 \pm 0.57 \text{ days; p} < 0.01$). The association between medication adherence and LOS has also been proved in several other diseases such as diabetes.⁵²

Monotherapy versus combined therapy on antipsychotic treatment for schizophrenia has been widely studied. Monotherapy (single agent of SGA or FGA) versus combined therapy (SGA + FGA/ ECT/other agent) on antipsychotic treatment for schizophrenia has been widely studied. As per established algorithms, agents that used for schizophrenia are the Second Generation of Antipsychotics (SGAs) like aripiprazole, clozapine, olanzapine, quetiapine, risperidone, and ziprasidone, First Generation of Antipsychotics (FGAs) such as chlorpromazine, haloperidol, and fluphenazine, Electroconvulsive, and/or other agent such as mood stabilizer like lithium.⁵³ Monotherapy has several advantages, including the ease of monitoring adverse side effects and medication adherence in patients. However, the availability of antipsychotic medications and their effectiveness on individuals can vary, indicating that not all patients can fully respond to a single antipsychotic drug. Consequently, prescription of a combination of antipsychotics might be necessary. A previous study showed that patients with low and intermediate adherence (combined therapy) had higher readmission rates compared to patients with high adherence (of 20.0% vs 9.3%, p = 0.005). In addition, the authors found that patients with low and intermediate medication adherence had an adjusted 2.54-fold higher odds of readmission compared to those in patients with high adherence (95% confidence interval [CI]: 1.32–4.90, p = 0.005). The model of predictive power, as measured by the c-statistic, improved from 0.65 to 0.70 after adding adherence.⁵⁰ In the other case study performed in Thailand, patients with low adherence had the highest hospitalization rates (14 and 10 for all-cause and schizophrenia-related hospitalizations, respectively).⁵¹ Although that study does not provide a statistically clear picture

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regarding the association between adherence and hospitalization, the percentages obtained from our research study could be used as a predictor that adherence is indeed related to the hospitalization rates, an association that has already been verified in patients with cardiovascular or other diseases. Finally, even though our data has not been able to statistically described, our descriptive study confirmed the findings of a systematic review of prospective observational studies in that nonadherence to medication was associated with hospital admission. Figure 1.

Drug-related factors such as the choice of medication, dosage, administration, and medical adherence are well recognized for their impact on clinical outcomes. Medical adherence is recognized as a factor that necessitates collaboration between healthcare providers and patients. The findings furnish pertinent insights into how both patient and hospital-related factors contribute to determining health status. These outcomes have the potential to guide improved targeting of mental health service policies and enhance the precision of information gathering and resource allocation. ⁵⁶

However, in addition to these drug-related factors, non-pharmacological elements, including psychosocial, environmental, and systemic factors such as education and economic status, can also influence Length of Stay (LOS) and rehospitalization rates. A retrospective study conducted in China revealed the significance of these non-pharmacological factors in relation to the clinical outcomes of schizophrenia. This study represents the first attempt to investigate the influence of various factors, including biochemical indices, on the LOS for a specific mental disorder. Particularly noteworthy were the findings that marital status and Thyroid-Stimulating Hormone (TSH) levels were significantly associated with LOS in schizophrenia patients. These findings provide valuable reference points for LOS within the field of clinical psychiatry, potentially improving hospitalization management and the allocation of healthcare resources.⁵⁷

Conclusion

In summary, this study suggests that the correlation between medication adherence to antipsychotic treatment in individuals with schizophrenia and both length of stay (LOS) and hospitalization numbers may exhibit clinical associations, but their statistical significance has not been definitively established. These findings provide a preliminary foundation for further observational studies to delve deeper into this relationship. Furthermore, our study has underscored the significance of gender differences within the schizophrenia population and demonstrated that gender is indeed associated with medication adherence. This adds to the growing body of knowledge regarding gender-specific factors influencing treatment adherence in individuals with schizophrenia. This information might encourage collaboration among healthcare professionals, including physicians, pharmacists, nurses, and social workers. Facilitate regular communication and information sharing to ensure a holistic approach to medication management.

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Disclosure

The authors report no conflicts of interest in this work.

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