Outpatients' Satisfaction with Pharmacists' Medication Counselling in a Nigerian Teaching Hospital

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ABSTRACT

Background and Objective: Medication counselling is an integral part of pharmacy practice both in hospitals and community settings. Effective medication counselling contributes largely to patient's adherence to medications, which in turn improves their satisfaction and health outcomes**.** This study aims to ascertain the degree of outpatients' satisfaction with pharmacist medication counseling in a Nigerian teaching hospital.

Methods: This was a cross-sectional study using a semi-structured questionnaire among outpatients visiting 5 clinics in the hospital. The questionnaire was interviewer-administered. Descriptive statistical analyses were used to summarize the findings. The chi-square test was used to determine the association between respondents' sociodemographic variables and their satisfaction with pharmacists' medication counseling. The predictors of satisfaction towards pharmacists' medication counseling were determined using Logistic regression.

Results: A total of 353 outpatients participated in the study. More female respondents (58.6%) than male respondents (41.4%), mostly within the age range of 18-28 years (36.3) participated in this study. Medical Outpatient Clinic has the highest satisfaction.

(50.4%) and dermatology clinic the least (5.4%). There is no correlation between patients' sociodemographic characteristics and satisfaction. However, there is a significant association between the clinics visited and patient satisfaction. Overall, about three-quarters of the patients (74.2%) were satisfied with pharmacists' medication counselling while a quarter was dissatisfied.

Conclusion: Patients typically exhibit a high level of satisfaction with the pharmacists' roles and medication counselling at the University of Nigeria Teaching Hospital. However, a fraction of the patients demonstrated some level of dissatisfaction which suggests the need for improved practice.

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ABBREVIATIONS

IBM: International Business Machine; SPSS: Statistical Package for Social Sciences (later changed to Statistical Products and Service Solutions).

1. INTRODUCTION

An essential component of pharmacists' professional activities is patient counselling [1, 2, 3]. It is an exchange of information about the patient's overall health and responsible drug usage between the pharmacist and the patient or caregiver [4]. Patients require both vocal and written information regarding side effects and lifestyle choices [5]. The delivery of the appropriate medication to the appropriate patient, assuring the necessary dosage and quantities, ensuring the package that maintains the medicines' potency and quality for the allotted time, providing clear medicine information counselling, and providing the necessary follow-up are all part of medication dispensing practice [6]. Counselling is a practice that enhances the rate of recovery. By providing patients with effective drug counselling and therapy monitoring, pharmacists are a vital part of the healthcare system that greatly improves the outcomes of medication therapy [7]. The

pharmacist has a role to play in the complex behavior of medication adherence, which can be influenced by factors affecting patients, providers, and the healthcare system [8].

The ability of a provider to successfully offer treatment that fulfills patients' expectations and needs is measured by patient satisfaction, which is the patient's "Personal evaluation of providers' ability of health care services" [9]. When evaluating the quality of services provided by various patient care services, systems, and programs, patient satisfaction is a key metric. These metrics are useful for enhancing healthcare and assuring increased compliance [2]. Proper medication counselling by pharmacists assists in recognizing and addressing potential medicine therapy issues, side effects, and adverse drug reactions. In addition to being a treatment aim in and of itself, it has been observed that patient satisfaction improves other treatment outcomes [1]. Therefore, when the pharmacist or other healthcare provider appropriately counsels patients, the patient will have the greatest level of pleasure [10]. Lack of effective medication counselling is one of the main causes of subpar therapeutic outcomes. Clinical and financial objectives will be incredibly challenging to

achieve without patients receiving good pharmacological guidance.

The satisfaction of patients with the pharmacy services provided to them has been the subject of numerous studies undertaken worldwide [11]. Diverse conclusions have been reported from research that used a range of methodologies. In Brazil, a study was conducted to compare client satisfaction with private community pharmacy services that offered pharmacological treatment to those that did not [12]. The levels of client satisfaction with the services of community and hospital pharmacies, respectively, were the subject of additional studies conducted in Qatar and Saudi Arabia [13,14]. Another study conducted in Botswana found that customers were satisfied with the standard of a primary healthcare center that included pharmacy services as one of its components [15]. Patients' levels of satisfaction with the services in each environment were also examined in studies conducted in Spain that focused on outpatient and community pharmacies [16,17]. Another study in Pakistan examined the satisfaction ratings of patients in the outpatient departments of a hospital in Islamabad and included a component that measured pharmacy services as well [18].

All the aforementioned studies were carried out outside Nigeria. Africa still lacks many of the facilities and staff required for healthcare systems. The study is important in the scientific community. Due to a lack of efficient infrastructure and staff, Nigeria, like other developing nations, has difficulty providing healthcare services. The University of Nigeria Teaching Hospital is the best teaching hospital in the southeast of Nigeria, and it regularly houses a significant number of patients with a wide range of medical ailments. This is a result of people's developing trust in the hospital. However, because of the setting and the staff, some procedures continue to be deficient. There is a critical need for this survey in the hospital since pharmacists are an essential component of hospitals and play a significant role in patients' clinical, humanistic, and economic health outcomes. As of the time of this investigation, no study has comprehensively examined the satisfaction of outpatients at the teaching hospital; this study aims to fill this gap thereby providing policymakers with evidence and literature to help them make policies that will improve pharmacists' practices in Nigerian hospital settings.

2. METHODS

2.1 Study Design

This was a cross-sectional survey with outpatients visiting the five major clinics in the University of Nigeria teaching hospital.

2.2 Setting

The study was conducted at the University of Nigeria Teaching Hospital, Ituku-Ozalla Enugu. Five clinics were conveniently sampled from the hospital. The clinics include medical outpatient, general outpatient, surgical outpatients, ophthalmology clinic, and dermatology clinic.

2.3 Sampling

The systematic sampling method was used. The average daily client flow to each of the pharmacy outpatient units was estimated to be about 78 and the number of clients to be interviewed in each outpatient unit per day during the 30 days of data collection was 12. By dividing the daily client flow to each of the pharmacy units with the number of clients to be surveyed per day, every seventh client was approached for the interview. The first patient was selected daily by drawing a number from 1 up to 7 and continuing with every seventh number until the daily sample limit was reached.

2.4 Eligibility Criteria

The study's inclusion criteria required that outpatients should have attained the age 18 and above, and should be visiting any of the aforementioned clinics either as first-time visits or follow-up visits. Eligible respondents who did not provide informed consent were excluded from the study.

2.5 Sample Size Calculation

The study was to cover the entire five outpatient clinics in the hospital. A total sample size of 353 was considered to be representative of the population assuming a 5% error margin, and 95% confidence interval. The sample size calculation was conducted using.

Slovins' formula [3] for Sample Size Calculation $(n = N/ (1 + N (e) 2)$

Where

   n= sample size,
   N= target population,

e = margin of error = 0.05

The average target population (N = 3021) that visits the outpatient pharmacies in the hospital per month was obtained from the hospital's pharmacy database. The sample size was proportionately distributed among the participating clinics. A 100% response rate was realized, primarily because data collection was equally shared among the authors based on the clinics they operate and perhaps because patients were visited at the early hours of the day when they were relaxed and willing to answer questions.

2.6 Participant Recruitment and Data Collection

Participants' information sheets were taken alongside the questionnaires to all potential participants who visit the clinic. If interested, they signed the consent form for the study. Those who indicated interest were administered the questionnaire through interview. All data collection for this study was undertaken between May 15 to June 20, 2022.

2.7 Instruments for Data Collection and Outcomes

A pretested, reliable and validated instrument designed to elicit patients' satisfaction towards pharmacist's medication counseling was adopted from the study by Surur et al. [19] and [2]. The instrument consists of 2 parts with the first part seeking information on the patient's demographics and the second part with 26 items that assessed the satisfaction of the patients with the pharmacists' medication counseling. The 26 items are variables that serve as predictors of medication counselling. Each item has 5-point Likert scale responses (very low = 1, low = 2, moderate = 3, high = 4, very high = 5).

2.8 Data Analysis

The data collected was coded and entered into Microsoft Excel 2010. The data was cleaned and checked for appropriateness. Descriptive statistics (frequency, percentage, and mean) were used to present respondents' socio-demographic characteristics. The chi-square test was used to determine the correlation between respondents' socio-demographic variables and their satisfaction with pharmacists' medication counselling. The predictors of satisfaction towards pharmacists' medication counseling were determined using logistic regression. P values ≤ 0.050 was considered statistically significant.

The tool used in this study to perform all analyses is IBM Statistical Product and Service Solution (SPSS) for Windows, version 21.0 (IBM Corp, version 21.0 and Armonk, NY, USA).

2.9 Ethical Considerations

This study did not involve the use of human subjects, hence, an institutional review board exception was obtained from the Health Research and Ethics Committee of the University of Nigeria Teaching Hospital (Reference Number: NHREC/05/01/2008B-FWA00002458-1RB00002323). Nonetheless, the confidentiality of the respondents' information was maintained during and after the study. No identifier information was obtained from them, as anonymity was ensured in the data collection and reports of findings.

3. RESULTS

A total of 353 outpatients participated in the study as shown in Table 1. Participants' demographics and clinic visit characteristics are shown in Table 1. A total of 207 (58.6%) were females and the most recorded age range was within 18-28 years (36.3) while 62 years and above was the least (10.5%). A total of 182 (51.6%), were married and 252 (71.4%) obtained a tertiary education. Medical Outpatient with a total of 178 (50.4%) recorded the highest number of visits within the period while dermatology recorded the least with a total of 19(5.4). The bulk of the participants were not insured (79%). Approximately 233(66%) of participants were follow-up visits.

Table 2 displays the results of the patient's satisfaction levels with various areas of pharmacists' medication counselling. Patients were pleased with pharmacists' interest in their health (66.3%), professionalism (60.9%), courtesy and respect (63.2%), care while dispensing the medication (62%), clarity of the pharmacists' instructions (68.3%), responses to questions about medicines (62.9%), perception of the medication's quality (68.8%), and cleanliness and comfort of the waiting area (62.3%). They expressed some level of discontent with the cost of the prescriptions they receive (68%), the accessibility of the

medications (60.6%), and the length of time they had to wait before the pharmacists could attend to them (57%).

The percentage distribution for the overall perception of the patient's satisfaction with medication counselling is shown in Table 3.

One of the key findings of this study is that 74.2% of outpatients were satisfied with pharmacists' medication counselling in the Nigerian Teaching Hospital while only 25.8% were not s e pharmacists' medication counselling in the hospital.

Table 1. Socio-demographic characteristics of patients and the outpatient clinics visited

Characteristics		Frequency	Percentage (%)
Age (years)	18-28	128	36.3
	29-39	91	25.8
	40-50	55	15.6
	51-61	42	11.9
	62 and above	37	10.4
	Total	353	100.0
Gender	Male	146	41.4
	Female	207	58.6
	Total	353	100.0
Marital Status	Married	182	51.5
	Single	163	46.2
	Divorced	1	0.3
	Widowed	7	2.0
	Total	353	100.0
Educational Level	Primary	21	5.9
	Secondary	80	22.7
	Tertiary	252	71.4
	Total	353	100.0
Outpatient visited	Medical Outpatient	178	50.4
	General Outpatient	96	27.2
	Surgical Outpatient	24	6.8
	Ophthalmology Clinic	36	10.2
	Dermatology Clinic	19	5.4
	Total	353	100.0
Occupational Status	Employed	167	47.3
	Unemployed	73	20.7
	Self Employed	113	32.0
	TOTAL	353	100.0
Monthly Income (Naira)	< 50,000	117	50.1
	50, 000-99, 000	87	24.6
	100, 000-199, 000	63	17.8
	200, 000-299, 000	12	3.4
	>300, 000	14	4.1
	Total	353	100.0
Religion	Christianity	347	98.2
	Islam	2	0.6
	Traditionalist	2	0.6
	Others	2	0.6
	Total	353	100.0
Health Insurance	Insured	74	21.0
	Not Insured	279	79.0
	Total	353	100.0
Patronage	First-time Visit	120	34.0
	Follow-up Visit	233	66.0
	Total	353	100.0

Table 2. Outpatients' level of satisfaction with predictors of medication counseling

Variable	Response, N (%)	
Satisfaction	**Satisfied**	**Not Satisfied**
Pharmacists' interest in your health	234 (66.3)	119 (33.7)
Pharmacists' professionalism	215 (60.9)	138 (39.1)
Pharmacists' courtesy and respect	223 (63.2)	130 (36.8)
Privacy of conversation	192 (54.4)	161 (45.6)
Pharmacists' explanation of side effects and interactions	191 (54.1)	162 (45.9)
Promptness of prescription medication services	171 (48.4)	182 (51.6)
Pharmacists' care while supplying medication	219 (62.0)	134 (38.0)
Fairness of the cost of medication	113 (32.0)	240 (68.0)
Time spent in pharmacy	151 (42.8)	202 (57.2)
Clarity of pharmacists' instruction	241 (68.3)	112 (31.7)
Pharmacists' information on medication storage	190 (53.8)	163 (46.2)
Answering drug information questions	222 (62.9)	131 (37.1)
Information on expected outcomes of medications	187 (53.0)	166 (47.0)
Collaboration between pharmacist and physician	217 (61.5)	136 (38.5)
Time spent waiting for prescription filling	133 (37.7)	220 (62.3)
Medication availability	139 (39.4)	214 (60.6)
Clarity of label on the medication	234 (66.3)	119 (33.7)
Feeling about the quality of medication	243 (68.8)	110 (31.2)
Cleanliness and comfort of the waiting area	220 (62.3)	133 (37.7)
Pharmacists' re-counselling on request	174 (49.3)	179 (50.7)
Pharmacy location relative to another service area	207 (58.6)	146 (41.4)
Pharmacists' effort to solve medication problem	200 (56.7)	153 (43.3)
Pharmacists' information on the type of food to take	166 (47.0)	187 (53.0)
Pharmacists' information on sufficient treatment period	193 (54.7)	160 (45.3)
Pharmacists' inquiry on adherence to previously dispensed prescription	175 (49.6)	178 (50.4)
Pharmacists' willingness to counsel on request	144 (40.8)	209 (59.2)

Table 3. Summary of the overall level of satisfaction with pharmacists' medication conselling

	n (%)	
	Satisfied	**Not Satisfied**
	262 (74.2)	91 (25.8)
Total	353 (100)	

Table 4 shows the correlation coefficient of the socio-demographics that determines whether or not there is an association. A P-value less than 0.05 is considered significant. It is evident from the table that there is association between patronage and patients' satisfaction (p-value = 0.01) as well as between the number of outpatient visits and patients' contentment (p-value = 0.001). There is no significant association between other predictors and patient satisfaction.

3.1 Result of Binary Logistic Regression Analysis

It could be deduced from Table 5 that patronage (taking first-time visit as the reference), the B value of -0.637 indicates that relative to patients who visited the hospital for the first time, the log-odd of satisfaction for patients who came for follow-up visit decreased by -0.637, but interpreting the log-odds would be meaningless, so it is preferable to interpret the odds ratio instead (where OR= Exp (B)). Therefore, the odds ratio for patients who came for follow-up visits who will be satisfied is 0.5.

Times are more likely than those for first-time visits.

4. DISCUSSION

4.1 Summary of Findings

This study assessed the satisfaction of outpatients with the medication counseling provided by pharmacists at the University of Nigeria teaching hospital. The hospital's five clinics were used for the study, and patients were contacted for in-person interviews. To measure how satisfied outpatients were with the hospital's pharmacists' medication counseling, data was gathered and various metrics were employed. The study's most important finding reveals that overall, 74.2% of patients were satisfied with the pharmacists' medication counseling, while just 25.8% of patients were not happy. According to the criteria used to gauge outpatients' satisfaction, the professionalism of pharmacists, their interest in patients' health, their ability to

Table 4. The correlation coefficient between sociodemographic characteristics of the patients, the outpatients visited, and satisfaction

Sociodemographic characteristics		N (%)			χ^2	P-value
		Satisfied	**Not satisfied**	**Total**		
Age (Years)	18-28	87 (24.6)	41 (11.6)	128 (36.3)		
	29-39	74 (21.0)	17 (4.8)	91(25.8)		
	40-50	44 (12.5)	11 (3.1)	55 (15.6)	7.558[a]	0.109
	51-61	28 (7.9)	14 (4.0)	42 (11.9)		
	>62	29 (8.2)	8 (2.3)	37 (10.5)		
Gender	Male	111 (31.4)	35 (9.9)	146 (41.4)	0.425[a]	0.515
	Female	151 (42.8)	56 (15.9)	207 (58.6)		
Marital Status	Married	141 (39.9)	41 (11.6)	182 (51.6)		
	Single	114 (32.3)	49 (13.9)	163 (46.2)	3.399[a]	0.334
	Divorced	0 (0.0)	1 (0.3)	1 (0.3)		
	Widowed	1 (0.3)	6 (1.7)	7 (2.0)		
Educational Level	Primary	17 (4.8)	4 (1.1)	21 (5.9)		
	Secondary	64 (18.1)	16 (4.5)	80 (22.7)	2.650[a]	0.266
	Tertiary	181 (51.3)	(71) 20.1	252 (71.4)		
Outpatient Visited	Medical Outpatient	144 (40.8)	34 (9.6)	178 (50.4)		
	General Outpatient	56 (15.9)	40 (11.3)	96 (27.2)		
	Surgical Outpatient	17 (4.8)	7 (2.0)	24 (6.8)	19.620[a]	0.001**
	Ophthalmology Clinic	31 (8.8)	5 (1.4)	36 (10.2)		
	Dermatology Clinic	14 (4.0)	5 (1.4)	19 (5.4)		
Occupational Status	Employed	125 (35.4)	41 (11.6)	166 (47.0)	1.098[a]	0.577
	Unemployed	57 (16.1)	17 (4.8)	74 (21.0)		
	Self Employed	80 (22.7)	33 (9.3)	113 (32.0)		
Monthly Income (Naira)	< 50,000	137 (38.8)	40 (11.3)	177 (50.1)		
	50, 000-99, 000	58 (22.1)	29 (8.2)	87 (24.6)		
	100, 000-199, 000	46 (13.0)	17 (4.8)	63 (17.8)	4.238[a]	0.375
	200, 000-299, 000	10 (2.8)	2 (0.6)	12 (3.4)		
	>300, 000	11 (3.1)	3 (0.8)	14 (4.0)		
Religion	Christianity	257 (72.8)	90 (25.5)	347 (98.3)		
	Islam	2 (0.6)	0 (0.0)	2 (0.6)	2.007[a]	0.571
	Traditionalist	1 (0.3)	1 (0.3)	2 (0.6)		
	Others	2 (0.6)	0 (0.0)	2 (0.6)		
Health Insurance	Insured	53 (15.0)	21 (5.9)	74 (21.0)	0.331[a]	0.565
	Not Insured	209 (59.2)	70 (19.8)	279 (79.0)		
Patronage	First-time Visit	79 (22.4)	41 (11.6)	120 (34.0)	6.685[a]	0.010**
	Follow-up Visit	183 (51.8)	50 (14.2)	233 (66.0)		

**p less than 0.05 shows a significant correlation

Table 5. Result of binary logistic regression analysis

	Unstandardized Coefficients		Standardized Coefficients	Wald	Df	Sig	95.0% Confidence Interval (Ci) For b	
	B	Std error	Exp (B)				Lower bound	Upper bound
Patronage(1)	- 0.637	0.252	1.891	6.403	1	0.011	1.154	3.098
(Constant)	0.688	0.290	1.990	5.619	1	0.018		

answer questions about medications, the clarity of their instructions and drug labeling, and the cleanliness of the waiting areas were the factors that generated the highest levels of satisfaction. On the other hand, some levels of dissatisfaction were noted concerning the price of medications, the availability of medications, and the amount of time spent waiting to be attended to by the pharmacist. Only the clinics attended and the patronage, which included first-time visits and follow-up visits, was positively associated with patients' satisfaction, according to the correlation analysis. Medical outpatient provided the highest satisfaction level to the patients while the dermatology clinic had the least satisfaction. Patients who return for follow-up visits are likely to be 0.5 times more satisfied than those who attend for the first time, according to the odd ratio from the binary regression analysis.

4.2 Comparison of Results

Interpreting the result in light of existing knowledge, much research has been carried out in this area in various parts of the world. The results of this study are consistent with those of a study conducted in 2013 [9], which assessed patients' satisfaction with pharmacists' roles in HIV clinics at Usman Danfodiyo Teaching Hospital and discovered that most patients were satisfied with pharmacists' medication counselling in these clinics. The results of this study can also be compared with those of a study by [6,20,21] which discovered that most patients were pleased with the pharmaceutical counselling given by the pharmacists. Also, the result is consistent with the findings by [22] which discovered that generally, the majority (83%) of the patients were satisfied with the services received from Aminu Kano Teaching Hospital, while only a few were dissatisfied. The relationship in the results could be a result of comparable pharmacists' competencies, working environment, remuneration, and other factors. These results, however, contrast with that of a study by Kebede, et al. [23], whose research revealed a low level of satisfaction (59%) with the outpatient pharmacy services offered by public

hospitals in Dessie town. These findings were also contrasted with those of a survey carried out at Black Lion Specialized Referral Hospital and in Brazilian Health Care, which revealed satisfaction scores of 58.4% and 51.6%, respectively [24]. Additionally, in contrast to a study by Molla, et al. [25] in an outpatient pharmacy in Northwest Ethiopia that comprised 401 samples, they discovered that analysis had an overall mean score satisfaction of 30.6 out of a maximum of 100 scores. In contrast to the results of this study, earlier studies by Surur, et al. [1] and [26] in outpatient pharmacies of several public hospitals showed a generally low satisfaction that varied across different sociodemographic categories. The same is true of a study conducted in 2016 by Yang, et al. [27] which assessed patients' satisfaction with medication counseling offered by community pharmacists. They discovered that just 34% of patients were pleased with the pharmacists' medication counseling. In contrast to the findings of this study, which found no relationship between patients' satisfaction and gender, a study by Bakar, et al. [28] in Malaysia found that female diabetic patients were more satisfied with pharmacists' medication counseling. This study contrasts with one by Salamatullah, et al. [29], which revealed that pharmacist worries about the patient's health state and pharmacist explanations of the anticipated adverse effects had the lowest satisfaction ratings.

5. CONCLUSION

The study's findings indicate that patients at the University of Nigeria teaching hospital generally express a high level of satisfaction with the responsibilities played by pharmacists and their medication counselling. Revealing information about outpatients' satisfaction with pharmacists' medication counseling in a Nigerian Teaching Hospital would contribute to the corpus of already available knowledge. The patterns of outpatients' satisfaction with pharmacist medication counseling would serve as a guide for health policymakers, pharmacists, patients, and the government in developing and putting into

practice training programs, educational initiatives, and regulatory changes aimed at raising outpatients' satisfaction with pharmacist medication counselling in Nigeria.

6. RECOMMENDATION

There is a need for further studies of this kind to be carried out in other hospitals in Nigeria especially those situated in the rural parts of Nigeria. The positive result of this study could be as a result of the setting of the hospital, encouraging incentives to the pharmacists, good management and other factors not mentioned, which may not be the case in the rural settings. Although this study is specifically aimed at the University of Nigeria teaching hospital, extending the research to other areas will help evaluate the pharmacists' practices in such areas, find out the major challenges, and improve practices to achieve optimum health outcomes across the country.

7. STRENGTH AND LIMITATIONS

This study is unique due to the lack of research of this kind in the hospital in question, the increasing number of patients visiting the hospital, and the need for improved health outcomes in the hospital. Again, the questionnaire was interviewer-administered, so respondent bias was greatly minimized. This study's limitations include but are not limited to the cross-sectional design, meaning causality cannot be implied. Finally, the sample size may not be an accurate representation of the sample population, and one hospital result cannot determine the pharmacists' practices in Nigeria.

CONSENT AND ETHICAL APPROVAL

However, informed consent was obtained from all the participants. Study participants were informed that participation in the study was voluntary and was at liberty to withdraw from the studyany time time without any consequences.

An exception was sought and obtained from the Health Research and Ethics Committee of the University of Nigeria Teaching Hospital (Reference Number: NHREC/05/01/2008B-FWA00002458-1RB00002323).

AVAILABILITY OF DATA

All data used and analyzed in the course of this study are included in Appendix 1.

COMPETING INTERESTS

The authors have declared that no competing interests exist.

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APPENDIX 1

Sociodemography of Participants

1. Age (18-28yrs, 29-39yrs, 40-50yrs, 51-61yrs, 62yrs and above)
2. Gender (male, female)
3. Marital Status (Married, Single, Divorced, widowed)
4. Educational Level (Primary, Secondary, Tertiary)
5. Outpatient unit visited (Medical outpatient, general outpatient, surgical outpatient, ophthalmology clinic, dermatology)
6. Occupational Status (Employed, unemployed, self-employed)
7. Monthly income (<50, 000 Naira, 50,000-99,000 Naira, 100,000-199,000 Naira, 200,000-299000 Naira, >300,000 Naira)
8. Religion (Christian, Islam, Traditionalist, Others)
9. Health Insurance (Insured, Not insured)
10. Patronage (first-time visit, follow-up visit)

Satisfaction of Respondents with Pharmacist Medication Counselling (Very low, Low, Moderate, High, Very high)

1. The pharmacist's interest in your health
2. The professionalism of the pharmacist
3. The courtesy and respect shown to you by the pharmacist
4. The privacy of your conversation with the pharmacist
5. How well the pharmacist explains possible side effects, drug-drug interactions, and drug-food interactions
6. The promptness of prescription medication service
7. The care the pharmacy professional takes while supplying your medication
8. The fairness of the cost of medications in the pharmacy
9. The amount of time the pharmacy professional spends with you
10. The clarity of the pharmacy professional's instructions about how to take your medication
11. The information the pharmacist gives you about the proper storage of your medication
12. How well does the pharmacy professional answer your questions
13. The information the pharmacy professional gives you about the results you can expect from your medication therapy
14. The way your pharmacist works together with your doctor to make sure your medications are the best for you
15. The amount of time you spend waiting for your prescription to be filled
16. The availability of medications that are prescribed to you in the pharmacy
17. The clarity of the label on the medication supplied to you
18. Your feelings about the quality of medications dispensed to you
19. The overall cleanliness and comfort of the waiting area
20. Pharmacists' additional counseling on request or re-counseling (if requested, they will provide).
21. The location of the pharmacy relative to other service areas
22. The pharmacists' efforts to solve problems that you have with your medications
23. Pharmacist provides me with any knowledge of dietary compliance regarding my disease (if provided any).
24. The pharmacist explains the treatment period sufficiently (especially when I receive medication for the 1st time)
25. The pharmacist inquires about my adherence to the previously dispensed prescription (if provided any).

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