

Users Satisfaction Regarding the Service Provided in Community Pharmacies

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Abstract During the last century, the pharmacy professionals have significantly being professionalized, the user is a high priority and not just limited to the sale of pharmaceuticals. As such, it is necessary to know the users, their needs and expectations, their opinions and preferences. This transversal study, observational, correlational, aimed to: determine the degree of satisfaction with the attendance in community pharmacies, if there is a relationship between factors of a personal nature (age and gender) and satisfaction, trying to identify which aspects improve in order to increase satisfaction levels. The sample consisted of 525 respondents. Data collection was conducted in the period from October 2012 to January 2013 in four locations in northern Portugal. It was used a questionnaire consisting of three parts: the first contained items of personal characterization, the second consisted of the scale "Pharmacy Services Questionnaire" (FSQ) validated for the Portuguese language, developed by Larson et al. (2002) and the last had questions about the respondents' opinion. The results showed that the degree of satisfaction with the services of community pharmacies was in majority an average to 39 % and good for 46,1% . Having in mind the factor by gender, females showed a higher degree of satisfaction. Regarding the age group, older users had the highest degree of satisfaction. It was concluded that, generally, community pharmacies bring a higher degree of satisfaction in the older and the female users. "How the pharmacy professionals explain possible side effects" and "how the pharmacy professional answers your questions.", are the two aspects that must be improved to achieve a higher degree of satisfaction.

Keywords Satisfaction, Users, Customer Service, Pharmacotherapy Monitoring, Community Pharmacies

In last decades, the pharmacy professionals (PP) have made considerable efforts to shift its focus from dispensing medications to the attending service. They are becoming more interested in expanding their role beyond the distribution functions and preparation of medicines, services, assistance and pharmaceutical information.^[1]

The PP, due to his contribution in clarifying the use of prescribed therapy and also in monitoring pharmacotherapy, becomes co-responsible for the quality of life of the user. User and professional must be viewed as a whole, concepts of person, responsibility, justice, among others, should be internalized to shape professional conduct. The humanization of pharmacy service goes through all these aspects and also covers issues regarding the environment of the attending service.^[2] The attending based on attention, affection and responsibility for the health of the user is always the first and foremost loyalty factor. The PP should use a simple and understandable language, responding to the needs and problems of users quickly, offering the solutions. They should encourage the user to read the information available about the medicine and also provide all the information he needs. They should also be prepared to advise users about practical ways to implement information received.^[3] However, many people who work full-time in a pharmacy, due to the agitation created by the day-to-day, end up forgetting that the vast majority of people moving there, need help and are not feeling well, being the role of PP to provide that help.^[4] This relationship with the user is essential to promote health, prevent disease and to ensure that medicine therapy is safe and effective.^[5] The PP with a better attending performance contributes significantly to the outcome of medicine therapy and improves life quality of the user.^[6] Other factors, such a well organized comfortable space will only complement the attendance.^[7]

According to Kotler^[11], it makes no sense that Pharmacy promises an excellent service, without the prior staff being prepared to provide it. According to Aguiar^[8], the

1. Introduction

commercial relationship of the Pharmacy is supported on a model of personalized service, and one that makes customers continue, day after day, to seek their services.

According to the literature ^[9, 10] there are several factors that have an important role on the quality of a service, such as:

1. Tangibility - includes all physical evidence that the service is inserted;
2. Reliability - the service is delivered as agreed;
3. Responsibility - readiness to correctly solve the problems of users;
4. Courtesy - the professional is nice/polite/pleasant to meet the user's needs;
5. Availability – the ease and readiness of contact with the customer service personnel;
6. Communication – the professional is clear when giving information to the user;
7. Flexibility - promoting changes and desired adaptations by the user;
8. Accessibility - ease of access / contact with service providers;
9. Competence - the ability of professionals throughout the services;
10. Quality - durability, reliability and performance of the purchased product;
11. Image - reputation, credibility, seriousness;
12. Solidarity - help when the user has some kind of difficulty.

From the standpoint of users there are five crucial factors to achieve the quality needed ^[11]:

1. Trust in the service, that is, the performance of the professional providing the service is exactly as promised;
2. Be able to give a quick answer when customers need help;
3. Knowledge and courtesy of the pharmacy staff and their ability to convey trust and confidence;
4. Individualized attention given to users;
5. Appearance of physical facilities, equipment, staff pharmacy and communication material.

Thus, it is considered that the opinion of the user is essential, for monitoring the quality of health services, the identification of problems to fix or new expectations regarding care and, ultimately, the reorganization of health services. ^[12] For all these reasons it is necessary to listen to people, to know what they feel, what they think and why, what they prefer and why. It is, however, equally important to make good use of what you will learn from the points of view, perceptions and choices of citizens. ^[13]

According to Felipe ^[14], by listening to the users the PP can sense their needs and can tailor the service to each one. Research on user satisfaction with pharmacy services began less than three decades ago, and since then a significant amount of literature has been designed. ^[15, 16, 17] In the design of Laroche et al. ^[18] the satisfaction or dissatisfaction of the users is associated to the care of their needs and expectations, since the satisfaction and perceived quality of

the resulting expectations are related to attitudes or preferences. Laran et al. ^[19] support the idea that when a user is exposed to a consumption situation, it is accompanied by certain expectations or desires, or both. If the perceived service matches or exceeds expectations, the user will be satisfied (Parasuraman et al., 1985). ^[15]

Donabedian ^[16] describes the evaluation of the care of clients in two dimensions: technical performance for the balance achieved between the expected benefits and risks, and the professional - user relationship, corresponding to the reach of the expectations of the user (at this point inserted satisfaction) and social and professional norms.

Note that the expectations of users today are increasingly high, shaped by a level of demand supported on a greater knowledge and awareness of price and product features. So it is increasingly hard to please and meet their needs and desires. ^[16] The user satisfaction can be defined as "*a personal evaluation of the patient on the health care services and providers.*" ^[17]

According to the study Pharmaceutical Care: relevance and impact in the current context of Health, performed by Maria João NevesGuerreiroDurão Mauritius in 2009, applied to Portuguese pharmacies ^[20], concluded that females and older age users, have higher levels of satisfaction with pharmacy services, in another hand, users that go to the pharmacy regularly have higher levels of satisfaction.

The observed level of satisfaction becomes a useful tool because corrective measures aimed at constant improvement of the service user can be taken. ^[21] The questionnaires are usually the instruments used to assess user satisfaction and also constitute an important component of program evaluation and improvement of quality of care. These should be done regularly, because satisfaction is constantly changing and can be influenced by the personality of the user. In short, a high level of satisfaction, motivation and training of staff translates into better quality care, increasing satisfaction in the users. ^[22]

This study has the purpose to determine satisfaction levels with the care provided in community pharmacies, if there is a relationship between factors of a personal nature (age and gender) and satisfaction, evaluating if the proper care is related to continued treatment, analyzing the differences between care provided and expectations showing key aspects to improve in order to increase satisfaction.

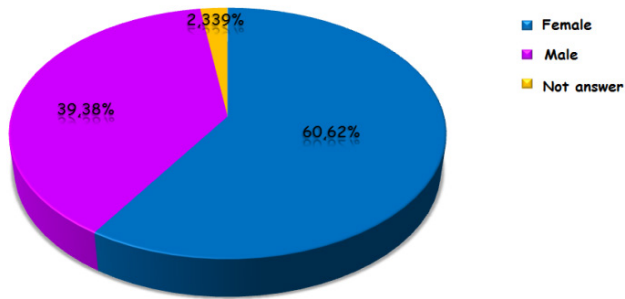
2. Materials and Methods

2.1. Participants

This transversal, observational and correlational study, was based on a non-probability accidental sample, consisting of 525 respondents.

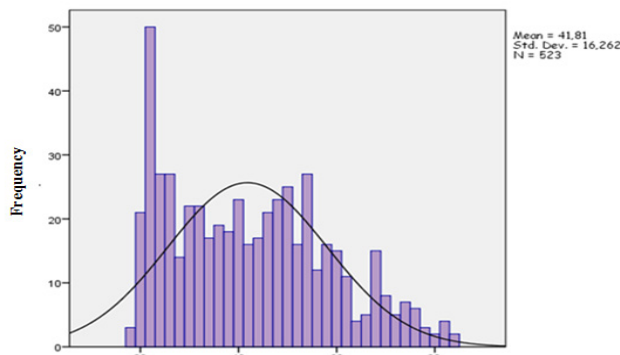
Regarding the gender of the respondents, it was found that 60,6% were female, 39,4% were male and 2,3% of

respondents did not answer the question (Graphic 1).



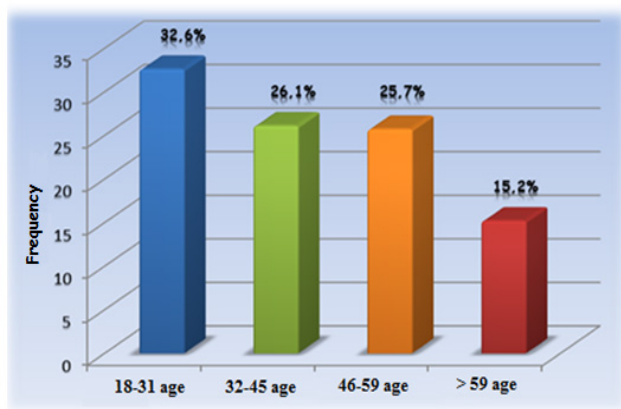
Graphic 1. Gender of respondents

Aged 18 to 83 years, with an average of 41,81 years (SD $\pm 16,26$) (Graphic 2).



Graphic 2. Age of respondents

Having in mind the age of respondents by age group, it was found 32,6% of respondents were in the age group of 18-31, 26,1% of respondents were between 32-45, 25,7% of respondents were between 46-59, and finally, 15,2% of respondents were over 59 (Graphic 3).



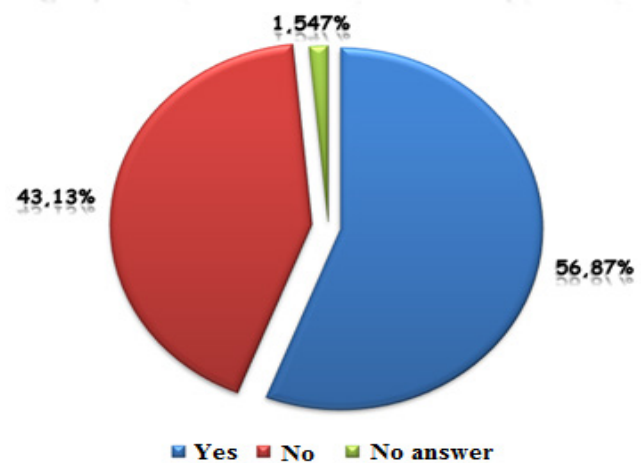
Graphic 3. Age groups of respondents

Regarding education of the respondents, 2,9% had no studies, 16,8% were between the 1st and 4th class, 9,5% were located in the 6th year, 12,4% had completed the 9th grade, 31,6% had the 12th grade, 23,2% had higher education and 3,6% did not answer this question (Table 1).

Table 1. Education of respondents

Scholarity		
	Frequency	Percentage
No studies	15	2,9
1st to 4thclass	88	16,8
6thyear	50	9,5
9th grade	65	12,4
12th grade	166	31,6
HigherEducation	122	23,2
No answer	19	3,6
Total	525	100

56,9% of the respondents said they are used to going to the same pharmacy, while 43,1% reported the opposite (Graphic 4).



Graphic 4. Ratio of the usual frequency of the same pharmaceutical facility

Regarding the respondents who answered "Yes" to the previous question (289 out of 525), it was found that 5,2% went more than once a week to the same pharmacy, 14,2% went once a week, 15,9% went three times per month, 23,5% went twice per month, 21,8% went once a month and 17,3% went less than once per month (Table 2).

Table 2. Frequency of going to the same pharmacy (n = 289)

How often will the same pharmacy		
	Frequency (n=289)	Percentage
More than once a week	15	5,2
Once a week	41	14,2
Three times per month	46	15,9
Twice per month	68	23,5
Once a month	63	21,8
Less than once per month	50	17,3
No answer	6	2,1
Total	289	100

2.2. Data Collection Instrument (DCI)

In order to collect the necessary data for this work we used a questionnaire on "Satisfaction of the Service Users in Community Pharmacies".

The questionnaire consisted of three parts, the first referred to characterization issues such as gender, age, education and frequency of going to the same pharmacy. The second part consisted of the scale, "Pharmacy Services Questionnaire" developed by Larson et al ^[23]. The authors of the scale were asked an authorization for its use in the preparation of this research. The scale contains twenty descriptive items about customer satisfaction. For each item there are several possible answers, using the respondent to effect a Likert scale, ranging from 1 (weak) to 5 (Great). The third part contains three questions on the opinion of respondents about their expectations regarding the attending, treatment and choice of pharmacy.

2.3. Procedures

The questionnaires were distributed in four locations selected for convenience (and in each location the number of questionnaires corresponded to at least 1% of the resident population), from October 2012 to January 2013. The questionnaires were distributed, delivered in paper directly to users in community pharmacies regarding internship sites and public places. Before distributing the questionnaires, researchers reported orally to each user what the questionnaire was about, referring also to the confidentiality, anonymity, voluntary participation and thanking them their collaboration. During filling respondents answered the questionnaires by themselves, accompanied by one of the investigators to clarify possible doubts. Nevertheless the investigators had to read the questions and answer options and writing answers of respondents with difficulties in reading and/or writing. To complete the questionnaire, respondents were required to be over 18 years old and were attending pharmacy services regularly. Users under 18 were excluded.

2.4. Statistical Analysis

After data collection we proceeded to the treatment and analysis of the results. For data analysis we used SPSS version 20.0. Data were subjected to descriptive statistics (mean, mode, median, standard deviation and frequencies). To identify satisfaction with the attending service provided to users by community pharmacies, we used exploratory factor analysis. For the extraction of the factors we used the method of principal components with Varimax rotation; it was made a reliability analysis to analyze internal consistency of factors (Cronbach's alpha), we used the parametric Student's t-test, One Way ANOVA to identify significant differences between independent groups and Pearson-R to determine the contribution of each factor on overall satisfaction and correlate the dimensions of each

other. The significance level was 5%.

3. Results

To sort the user's overall satisfaction and satisfaction with the "Service" and "Monitoring Pharmacotherapy" was considered the midpoint of the Likert scale, so the range 1 to 2,49 rated their satisfaction with the factor as "Reduced"; the range 2,5 to 3,49 factor classified as "Moderate", the 3,5 to 4,49 range factor classified as "Good" and the parameter > 4,5 factor classified as "Very Good".

According to Table 3, it was found that the respondents, in general, are satisfied with the service in community pharmacies, as in each item the average is higher than 3 which is considered good.

Table 3. Mean and SD of the scale items

	Mean	Standard Deviation
1. The professional appearance of the pharmacy.	3,70	0,772
2. The availability of the pharmacist to answer your questions.	3,66	0,779
3. The pharmacist's professional relationship with you.	3,66	0,844
4. The pharmacist's ability to advise you about problems that you might have with your medications.	3,55	0,840
5. The promptness of prescription drug service.	3,71	0,886
6. The professionalism of the pharmacy staff.	3,78	0,864
7. How well the pharmacist explains what your medications do.	3,56	0,858
8. The pharmacist's interest in your health.	3,34	0,919
9. How well the pharmacist helps you to manage your medications.	3,53	0,818
10. The pharmacist's efforts to solve problems that you have with your medications.	3,45	0,829
11. The responsibility that the pharmacist assumes for your drug therapy.	3,35	0,908
12. How well the pharmacist instructs you about how to take your medications.	3,65	0,854
13. Your pharmacy services overall.	3,72	0,831
14. How well the pharmacist answers your questions.	3,57	0,825
15. The pharmacist's efforts to help you improve your health or stay healthy.	3,45	0,878
16. The courtesy and respect shown you by the pharmacy staff.	3,82	0,860
17. The privacy of your conversations with the pharmacist.	3,64	0,944
18. The pharmacist's efforts to assure that your medications do what they are supposed to.	3,41	0,898
19. How well the pharmacist explains possible side effects.	3,21	1,011
20. The amount of time the pharmacist offers to spend with you.	3,41	0,932

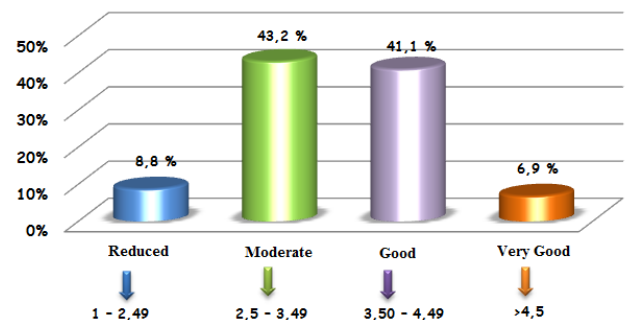
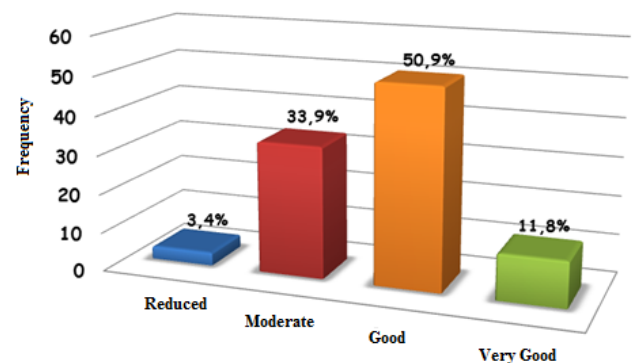
Table 4. Factorial matrix (loadings), explained variance and Cronbach's Alpha coefficients

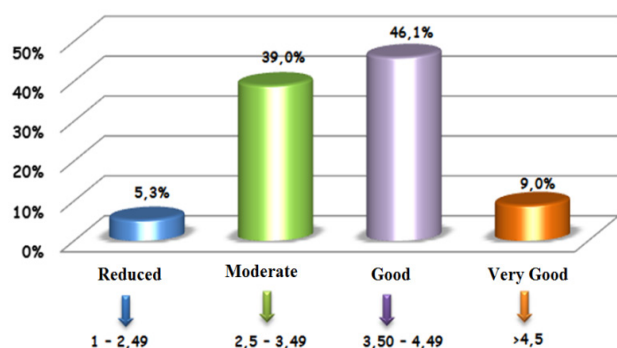
	1	2
7. How well the pharmacist explains what your medications do.	0,560	
8. The pharmacist's interest in your health.	0,705	
9. How well the pharmacist helps you to manage your medications.	0,687	
10. The pharmacist's efforts to solve problems that you have with your medications.	0,674	
11. The responsibility that the pharmacist assumes for your drug therapy.	0,707	
12. How well the pharmacist instructs you about how to take your medications.	0,549	
15. The pharmacist's efforts to help you improve your health or stay healthy.	0,662	
17. The privacy of your conversations with the pharmacist.	0,622	
18. The pharmacist's efforts to assure that your medications do what they are supposed to.	0,778	
19. How well the pharmacist explains possible side effects.	0,837	
20. The amount of time the pharmacist offers to spend with you.	0,687	
1. The professional appearance of the pharmacy.		0,724
2. The availability of the pharmacist to answer your questions.		0,776
3. The pharmacist's professional relationship with you.		0,752
4. The pharmacist's ability to advise you about problems that you might have with your medications.		0,682
5. The promptness of prescription drug service.		0,721
6. The professionalism of the pharmacy staff.		0,762
13. Your pharmacy services overall.		0,641
14. How well the pharmacist answers your questions.		0,612
16. The courtesy and respect shown you by the pharmacy staff.		0,628
Analysis of variance (64,230%)	32,365%	31,865%
Cronbach Alpha	0,941	0,929
Cronbach Alpha total	0,962	

The indicators of the validity of the factor analysis revealed a KMO = 0,972, considered very good^[24, 25]. The factor analysis revealed two factors (each item was assigned to the factor which had a correlation coefficient greater than 0,5 and when they were both above 0,5 were assigned to the factor which had a correlation coefficient greater) that explained 64,230 % of the total variance, they are only two factors with higher values greater than one. The first designated factor "Monitoring Pharmacotherapy" explained 32,365 % of the variance and included items : "How well the pharmacist explains what your medications do", "The pharmacist's interest in your health", "How well the pharmacist helps you to manage your medications", "The pharmacist's efforts to solve problems that you have with

your medications", "The responsibility that the pharmacist assumes for your medicine therapy", "How well the pharmacist instructs you about how to take your medications", "The pharmacist's efforts to help you improve your health or stay healthy", "The privacy of your conversations with the pharmacist", "The pharmacist's efforts to assure that your medications do what they are supposed to", "How well the pharmacist explains possible side effects" and "The amount of time the pharmacist offers to spend with you". The second factor called "Service" explained 31,865 % of the variance and consisted of the following items: "The professional appearance of the pharmacy", "The availability of the pharmacist to answer your questions", "The pharmacist's professional relationship with you", "The pharmacist's ability to advise you about problems that you might have with your medications", "The promptness of prescription drug service", "The professionalism of the pharmacy staff", "Your pharmacy services overall", "How well the pharmacist answers your questions" and "The courtesy and respect shown you by the pharmacy staff".

The overall Cronbach's alpha was 0,962, which indicates the reliability of very good internal consistency. The Cronbach's alpha for the factor "Monitoring Pharmacotherapy" was 0,941 and the factor "Service" was 0,929 and so was concluded that the instrument used to measure user satisfaction with the care provided by community pharmacies is highly reliable.

**Graphic 5.** Distribution of respondents by satisfaction levels for Factor Monitoring Pharmacotherapy**Graphic 6.** Distribution of respondents by levels of satisfaction for the Customer



Graphic 7. Distribution of respondents by levels of overall satisfaction

The response rate for the overall satisfaction and each of the factors of satisfaction are presented in Graphic 5, 6 and 7. The two factors had a greater number of respondents to classify the service as Moderate (43,2% for "Monitoring Pharmacotherapy" and 33,9% for the factor "Attending") and Good (41,1% for the factor "Monitoring pharmacotherapy" and 50,9% for the factor "Attending"). The overall satisfaction had a greater number of respondents rating the service to Moderate (39%) and Good (46,1%).

The factor "Attending" showed the greater contribution to the total satisfaction ($r=0,864$, $p<0,001$) compared to the factor "Monitoring Pharmacotherapy" ($r=0,848$, $p<0,001$).

The factor "Pharmacotherapy Monitoring" presented an Average Satisfaction (Mean=3,45; SD±0,71) and the factor "Attending" showed a good level of satisfaction (Mean=3,69; SD±0,67) (table 5).

According to the test results R-Pearson correlation, it was found that all items are statistically significant ($p=0,000<0,05$) are positively correlated from moderate to strong

with the level of overall satisfaction.

The contribution of the items on first factor varies from $r=0,671$ and $r=0,782$. Regarding the second factor, the contribution ranges from $r=0,689$ and $r=0,766$. That is, the items of the two factors have a high contribution to customer satisfaction. (Tables 13 and 14 – last pages of the article)

3.1. Gender

By using Student's t-test, it was found that the level of significance for the factor "Monitoring Pharmacotherapy" was 0,798 (greater than 0,05), concluding that there was no difference in satisfaction levels between people of different gender. Nevertheless, the factor "Attending" ($p=0,030<0,05$), there were statistically significant differences between the levels of satisfaction by gender. According to Table 6, it was found that women are the ones who experience higher levels of satisfaction compared to men.

3.2. Age

By using one-way ANOVA, it was found that the level of significance for the factor "Monitoring Pharmacotherapy" was 0,008 (less than 0,05), then it was concluded that there were differences between age groups in relation to the levels of satisfaction. In what regards the "Attending", there were no statistically significant differences ($p=0,109<0,05$). Through analysis of table 7, it was concluded that older are the ones showing higher levels of satisfaction.

Table 5. Rate of correlations, Mean and SD of the factors

Factors	Total satisfaction	Management therapeutics	Service	Mean	Standard deviation
Total satisfaction	1	-	-		
Monitoring pharmacotherapy	0,848	1	-	3,45	0,71
Service	0,864	0,712	1	3,69	0,67

** $p<0.001$

Table 6. Correlation between gender and the two factors - Pharmacotherapy Monitoring and Service

		Mean Ranking	P-value
Monitoring pharmacotherapy	Feminine	2,46	0,798
	Masculine	2,45	
Service	Feminine	2,77	0,030
	Masculine	2,63	

Table 7. Correlation of Age of respondents with two factors - Pharmacotherapy Monitoring and Service

		Mean Ranking	P-value
Monitoringpharmaco- therapy	18-31 years	2,33	0,008
	32-45 years	2,48	
	46-59 years	2,49	
	>59 years	2,68	
Service	18-31 years	2,63	0,109
	32-45 years	2,74	
	46-59 years	2,70	
	>59 years	2,86	

Finally, through the analysis of Tables 8, 9 and 10, it was concluded that 93,9% of respondents believe that the attending service influences the choice of pharmacy; approximately 85,5% consider that it influences the continuation of treatment and 95,8% of respondents believes that this service meets their expectations.

Table 8. Frequency and Percentage of the question

In your opinion, considers that the proper service influences the choice of pharmacy?		
	Frequency	Percentage
Yes	493	93,9
No	31	5,9
Unanswered	1	0,2

Table 9. Frequency and Percentage of the question

The proper care motivates him to continue the treatment?		
	Frequency	Percentage
Yes	449	85,5
No	74	14,1
Unanswered	2	0,4

Table 10. Frequency and Percentage of the question

Typically, the service provided meets your expectations?		
	Frequency	Percentage
Yes	503	95,8
No	21	4,0
Unanswered	1	0,2

In order to identify which items increase the level of users satisfaction of was decided to calculate the average of each of the items belonging to each factor. So it was concluded that the factor "Monitoring Pharmacotherapy"

items which recorded the lowest levels of satisfaction were: "How well the pharmacist explains possible side effects" (Mean = 1,76), "The pharmacist's interest in your health" (Mean = 2,02), "The responsibility that the pharmacist assumes for your medicine therapy" (Mean = 2,02) and "The amount of time the pharmacist offers to spend with you" (Mean = 2,02). The Attending factor, the items that showed lower levels of satisfaction were: "How well the pharmacist answers your questions" (Mean = 2,46) and "The pharmacist's ability to advise you about problems that you might have with your medications" (Mean = 2,50). (Table 15 – last pages)

4. Discussion

Of all the participants, most of them were women aged between 18-31 years. Regarding education, it was found that most of the population had the 12th grade.

In the investigation of Iglesias et al. ^[26], the dimension "Monitoring Pharmacotherapy"/"Therapy Management" scale included 12 items and "Nice Enlightenment"/"Service" owned 8 items. While the study by Larson et al. ^[23], the factor "Monitoring Pharmacotherapy"/"Therapy Management" presented nine items and the factor of "Nice Enlightenment"/"Attending" includes 11 items. In this study, the factor "Monitoring Pharmacotherapy" possessed 11 items and factor "Attending" included 9 items. This different distribution depends on the different distinction that users perform of the items associated with these two dimensions. In other words, what they understand by "Monitoring Pharmacotherapy" something related to the pharmaceutical care, and what they mean by "Attending" - something related to aspects of communication associated with information that is provided by the professional and to the communication. Table 11 shows the difference in the distribution of items in three studies. This table lists the items in decreasing order according to the importance of the factors. It is noted that the difference in the distribution of the items, compared to the study of Iglesias et al. ^[26] refers to the item 5, since factor is in "Monitoring Pharmacotherapy"/"Therapy Management", while this item belongs to this study factor "Attending". Concerning the study of Larson et al. ^[23], it was found that there was a difference in items 7 ("How well the pharmacist explains what your medications do") and 12 ("How well the pharmacist instructs you about how to take your medications"), they belong to the factor of "Nice Enlightenment"/"Attending", but in this study these items are in the factor "Monitoring Pharmacotherapy". One possible explanation for this difference may be related to the fact that often the pharmacies professionals are not available to provide to the user all the necessary information for taking the medication and in this way users do not recognize these services as part of the care.)

Table 11. Comparison of the factors with the items in order of decreasing weight factor between Larson et al. [23] study of Iglesias et al. [26] and the present investigation

Larson et al. (23)			Iglesias et al. [26]			This study		
Item	Factor 1	Factor 2	Item	Factor 1	Factor 2	Item	Factor 1	Factor 2
	Nice Enlightenment	Therapy Management		Therapy Management	Nice Enlightenment		Monitoring pharmacotherapy	Service
2.	0,800		19.	0,813		19.	0,837	
6.	0,784		15.	0,788		18.	0,778	
13.	0,733		8.	0,767		11.	0,707	
16.	0,729		11.	0,765		8.	0,705	
5.	0,728		20.	0,764		9.	0,687	
14.	0,721		10.	0,739		20.	0,687	
4.	0,714		18.	0,734		10.	0,674	
3.	0,701		9.	0,682		15.	0,662	
7.	0,677		12.	0,631		17.	0,622	
12.	0,674		17.	0,617		7.	0,560	
1.	0,662		7.	0,613		12.	0,549	
			5.	0,581				
15.		0,845				2.		0,776
18.		0,801	6.		0,834	6.		0,762
11.		0,788	2.		0,802	3.		0,752
9.		0,774	1.		0,755	1.		0,724
8.		0,774	3.		0,718	5.		0,721
10.		0,728	16.		0,696	4.		0,682
17.		0,718	13.		0,686	13.		0,641
20.		0,687	14.		0,680	16.		0,628
19.		0,667	4.		0,654	14.		0,612

The value of reliability in this study ($KMO = 0.972$) was similar to Larson et al. [23] ($KMO = 0.97$) and higher than the value found by Iglesias et al [26] ($KMO = 0.96$) (Table 12).

With regard to analysis of variance, it was found that, in this study, the factor "Monitoring Pharmacotherapy" possessed a variance of 32,36% and the factor "Attending" showed a variance of 31,85%. In the version of Iglesias et al. [26], the factor "Therapy Management" presented a variance of 66,9% and the factor of "Nice Enlightenment" registered a value of 5,1%. In the study by Larson [23], the factor of "Nice Enlightenment" possessed a variance of 67,7% and the factor "Therapy Management" was 5,1%. (Table 15)

The reliability of the scale and each factor was high (in three studies), which demonstrated that the instrument is highly reliable. In the version of Iglesias et al. [26], the Cronbach's alpha for the factor "Therapeutic Management" was 0,960 and the factor of "Nice Enlightenment" was 0,939. In the study by Larson et al. [23], the Cronbach's alpha for the factor "Therapeutic Management" was 0,962 and the factor of "Nice Enlightenment" was 0,957. In the present study, the overall Cronbach's alpha was 0,962, the Cronbach's alpha factor "Monitoring Pharmacotherapy" was 0,941 and the factor "Attending" was 0,929. (Table 12)

The factor "Pharmacotherapy Monitoring" presented an average level of satisfaction (Mean=3,45; $SD \pm 0,71$) and the factor "Attending" presented a good level of satisfaction (Mean=3,69; $SD \pm 0,67$) (Table 15).

Table 12. Comparison between the results of Larson et al. [23] study of Iglesias et al. [26] and the present investigation

Statistical analysis	Larson <i>et al.</i> ^[23]	Iglesias <i>et al.</i> ^[26]	This study
Test Kaiser-Meyer-Olkin	0,97 (n=371, retiraram-se os valores missing)	0,96 (n=178, retiraram-se os valores missing)	0,972 (n=525, retiraram-se os valores missing)
Factor analysis - extraction of principal components with varimax rotation	Factor 1 – 67,7% of the variance. Factor 2 – 5,1% of the variance. Extraction of 2 factors.	Factor 1 – 66,9% of the variance. Factor 2 – 5,1% of the variance. Extraction of 2 factors.	Factor 1 – 32,365% of the variance. Factor 2 – 31,865% of the variance. Extraction of 2 factors.
Cronbachalpha (external consistency)	Friendly explanation – 0,957 Management Therapeutics – 0,962	Friendly explanation – 0,939 Management Therapeutics – 0,960	Monitoring pharmacotherapy – 0,941 Service – 0,929
Mean ± standard deviation score for each dimension	Friendly explanation – 4,31±0,66 Management Therapeutics – 3,94±0,85	Friendly explanation – 4,17±0,68 Management Therapeutics – 3,96±0,72	Monitoring pharmacotherapy – 3,45±0,71 Service – 3,69±0,67
t-pares, to compare the scores of the respondents in the three scales	p<0,01, no statistically significant differences between the two dimensions	p<0,01, no statistically significant differences between the two dimensions	p<0,01, no statistically significant differences between the two dimensions

Table 13. Correlations Monitoring Pharmacotherapy (factor 1)

Factor 1 – Monitoring Pharmacotherapy		
7. How well the pharmacist explains what your medications do.	Correlation Coefficient	0,714
	Significance Level	0,000
8. The pharmacist's interest in your health.	Correlation Coefficient	0,718
	Significance Level	0,000
9. How well the pharmacist helps you to manage your medications.	Correlation Coefficient	0,771
	Significance Level	0,000
10. The pharmacist's efforts to solve problems that you have with your medications.	Correlation Coefficient	0,783
	Significance Level	0,000
11. The responsibility that the pharmacist assumes for your drug therapy.	Correlation Coefficient	0,763
	Significance Level	0,000
12. How well the pharmacist instructs you about how to take your medications.	Correlation Coefficient	0,711
	Significance Level	0,000
15. The pharmacist's efforts to help you improve your health or stay healthy.	Correlation Coefficient	0,721
	Significance Level	0,000
17. The privacy of your conversations with the pharmacist.	Correlation Coefficient	0,673
	Significance Level	0,000
18. The pharmacist's efforts to assure that your medications do what they are supposed to.	Correlation Coefficient	0,786
	Significance Level	0,000
19. How well the pharmacist explains possible side effects.	Correlation Coefficient	0,741
	Significance Level	0,000
20. The amount of time the pharmacist offers to spend with you.	Correlation Coefficient	0,715
	Significance Level	0,000

Table 14. Correlations Service (factor 2)

Factor 2 –Service		
1. The professional appearance of the pharmacy.	Correlation Coefficient	0,689
	Significance Level	0,000
2. The availability of the pharmacist to answer your questions.	Correlation Coefficient	0,750
	Significance Level	0,000
3. The pharmacist's professional relationship with you.	Correlation Coefficient	0,753
	Significance Level	0,000
4. The pharmacist's ability to advise you about problems that you might have with your medications.	Correlation Coefficient	0,716
	Significance Level	0,000
5. The promptness of prescription drug service.	Correlation Coefficient	0,734
	Significance Level	0,000
6. The professionalism of the pharmacy staff.	Correlation Coefficient	0,748
	Significance Level	0,000
13. Your pharmacy services overall.	Correlation Coefficient	0,718
	Significance Level	0,000
14. How well the pharmacist answers your questions.	Correlation Coefficient	0,766
	Significance Level	0,000
16. The courtesy and respect shown you by the pharmacy staff.	Correlation Coefficient	0,741
	Significance Level	0,000

Table 15. Average each of the items of each factor

Factors	Items	Mean
Factors	Items	Mean
Factor 1 Pharmacotherapy Monitoring	7. How well the pharmacist explains what your medications do.	2,20
	8. The pharmacist's interest in your health.	2,02
	9. How well the pharmacist helps you to manage your medications.	2,26
	10. The pharmacist's efforts to solve problems that you have with your medications.	2,24
	11. The responsibility that the pharmacist assumes for your drug therapy.	2,02
	12. How well the pharmacist instructs you about how to take your medications.	2,43
	15. The pharmacist's efforts to help you improve your health or stay healthy.	2,07
	17. The privacy of your conversations with the pharmacist.	2,48
	18. The pharmacist's efforts to assure that your medications do what they are supposed to.	2,17
	19. How well the pharmacist explains possible side effects.	1,76
	20. The amount of time the pharmacist offers to spend with you.	2,02
Factor 2 Care	1. The professional appearance of the pharmacy.	3,04
	2. The availability of the pharmacist to answer your questions.	2,80
	3. The pharmacist's professional relationship with you.	2,67
	4. The pharmacist's ability to advise you about problems that you might have with your medications.	2,50
	5. The promptness of prescription drug service.	2,57
	6. The professionalism of the pharmacy staff.	2,61
	13. Your pharmacy services overall.	2,67
	14. How well the pharmacist answers your questions.	2,46
	16. The courtesy and respect shown you by the pharmacy staff.	2,76

The two factors had a greater number of respondents to classify the service as the Moderate "Monitoring Pharmacotherapy" (43,2%) and "Attending" (33,9%), and the Good "Monitoring Pharmacotherapy" (41,1%) and "Attending" (50,9%). The overall satisfaction had a greater number of respondents rating the service to Moderate (39%) and Good (46,1%).

The factor "Attending" showed the greater contribution to the total satisfaction ($r=0.864$, $p<0,001$) compared to the factor "Monitoring Pharmacotherapy" ($r=0,848$, $p<0,001$). Moreover, all items of the two factors had a high contribution to the satisfaction of the users.

Regarding the gender of respondents, it was only found that only the factor "Attending" had differences, since it is the female are the most satisfied. Regarding the factor age, it was concluded that there were differences in the factor "Monitoring Pharmacotherapy", and users with older children are those with higher levels of satisfaction. These results are consistent with findings in other studies previously performed, as is the case study Pharmaceutical Care: relevance and impact in the current context of Health, performed by Maria João NevesGuerreiroDurão Mauritius in 2009^[20], applied to Portuguese pharmacies. A possible explanation of this fact is that these two groups that are most often visit the pharmacy and maybe even questioned more pharmacy professionals than men and younger people.

The results also showed that the vast majority (93,9 %) of respondents believe that the attendance influences the choice of pharmacy; approximately 85,5 % consider that this service influences continued treatment and 95,8 % of respondents believes that it meets their expectations.

Finally, it was found that the "Follow up Pharmacotherapy" was item to be improved, it registered the lowest satisfaction levels which are: "How the professional chemist will explain the possible side effects", "The interest pharmacy professional in your health", "The responsibility of the pharmacy profession takes for their treatment with medicines" and "the time that the pharmacy profession available to be with you". In the factor "Attending", we must improve aspects: "The way the pharmacy professional answers to your questions" and "The capacity of the pharmacy professional to advise you on the problems you may have with your medications".

5. Conclusion

By analyzing the results, we have withdrawn the following conclusions: through factor analysis extracted two factors, namely, the "Monitoring Pharmacotherapy" with 11 items and the "Attending" with 9 items, the internal consistency reliabilities of the scale, the factor "Monitoring Pharmacotherapy" and "Attending" were high, with alpha values of 0,962, 0,941 and 0,929, respectively. In general, users feel satisfied with the service in community pharmacies, the factor "Attending" is the one which contributes most to the overall satisfaction; females and

older users are those with greater satisfaction, and, finally, there are still some aspects to improve, so that users can have a greater satisfaction level.

In general, all the objectives were achieved, as well as analysis of the object of study "Satisfaction of users with the care provided in community pharmacies" presented with good results. Despite some limitations that have arisen, including: difficulty in obtaining 525 surveys, information overload on the subject and reduced time for data analysis. With this study, the objective is that health professionals never forget that a good relationship with the patient is key to treating it and highlight which aspects need to be improved in this area, so that the user always feel satisfied.

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