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## A study on customer buying pattern of generic medicines from Jan Aushadhi medical stores in Coimbatore city of Tamil Nadu

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### Abstract

India is popularly called as the “Pharmacy of the World” since it exports many different medicines to other parts of the world. But it is facing a problem of higher per capita medical expenditure due to expensive branded medicines in the market. Hence, to reduce the medical expenditure of individuals, the government came out with the concept of providing generic medicines, which is similar to the branded medicines, to the general public at a lower price through the Jan Aushadhi Kendra under the Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) scheme. This paper focused on the significant factors influencing the purchasing of generic medicines from Jan Aushadhi medical stores. It revealed cost and quality, promotional activities, customer awareness, and customer psychology and availability of required medicines in Jan Aushadhi medical stores were the key factors influencing customers buying behaviour.

**Keywords:** generic medicines, Jan Aushadhi medical store, key factors

### 1. Introduction

Everyone of us know that, India is a developing nation with the highest youth population, but poverty is still a significant problem in our developing economy. And the individual’s medical expenditure is found to be very high due to the presence of expensive branded medicines in the market. Due to the expensive branded medicines, the middle class and low-class people are highly affected. Hence to eliminate this government has come up with the Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) scheme. This scheme aims to provide quality medicines at a lower price to the general public. Hence to make this scheme a successful one, several Jan Aushadhi medical stores are to be created all around the country to provide generic medicines which are similar to the branded medicines in their chemical composition and quality. These Jan Aushadhi medical stores will have all kinds of medicines at a cheaper price. There are two types of medicines available in the market. The one which doctors and pharmacists highly promote is the expensive branded medicines that are patented. And the other one is the cheaply available and less promoted generic medicines. The interesting fact is that generic and branded medicines are similar in their chemical composition and quality<sup>[1]</sup>. In 2008, the Jan Aushadhi scheme was launched under the control of the Department of Pharmaceuticals, Ministry of chemical and fertilizers by the Government of India. This scheme is aimed to provide quality generic medicines at a cheaper price, especially to the poor and weaker section of the nation in all the Jan Aushadhi medical stores, which are to be established all around the country. These Jan Aushadhi medical stores are also known as the Jan Aushadhi Kendra. Sree Narendra Modi took several efforts in making this scheme a successful one by relaunching this scheme during 2014 with a noble cause of providing “Quality medicines at an affordable price for all”. In September 2015 “Jan Aushadhi scheme” was renamed as “Pradhan Mantri Jan Aushadhi Yojana”(PMJAY). Further in November 2016, it was again renamed as “Pradhan Mantri Bhartiya Janaushadhi Pariyojana”(PMBJP)<sup>[2]</sup>. A financial support of up to 2.5 lakhs for establishing Jan Aushadhi medical stores had been provided to the shop owners<sup>[3]</sup>. In March 2017, there were only 1008 Jan Aushadhi medical stores around the country, which was not enough to meet out the medicinal needs of the country. But the scenario has changed now; at present, more than 8000 Jan Aushdhi medical stores are in operation, and more other new stores are to be made functional in the future.

## 2. Review of Literature

Charan *et al.* (2019) [4] found that the age and education level of the patients were positively associated with the level of awareness they had about the generic medicines.

Nagarajappa and Srinivasan (2019) [5] reported that the customers highly considered the following factors: quality of the product, value for money, education by the doctors, and convenience to use the Jan Aushadhi medical stores before buying the generic medicine.

Solomon and Sundar (2019) [6] found the four critical factors influencing customers satisfaction with the service provided by the Jan Aushadhi medical store employees to its customers, which includes accessibility, tangibility, reliability and responsiveness. And they reported that the behaviour of the staff is negatively impacting its customers.

Rajasekaran *et al.* (2021) [3] found that the customers of Jan Aushadhi medical stores are satisfied with the quality of the generic medicines. They also found that the customers show good customer loyalty towards the Jan Aushadhi medical stores.

Pawar *et al.* (2021) [8] revealed no significant difference among the quality and efficiency of generic medicines available in Jan Aushadhi medical stores over the other brand medicines available in the market.

## 3. Objective of the study

To find out the major factors influencing the customers purchasing behaviour of generic medicines from Jan Aushadhi medical stores.

## 4. Methodology

This study follows a descriptive research design. The customers of Jan Aushadhi medical stores found in Coimbatore city were the sample respondents. And the sample respondents were chosen based on the convenience sampling technique since the actual population is unknown, and the accessibility of those customers is quite difficult. A well-structured questionnaire has been used to collect the primary data through periodic surveys. A 5-point Likert scale has been used to record the customer's response to the factors influencing their purchasing behaviour. (1=Strongly Disagree, 2=Disagree, 3=Neutral, 4=Agree, 5=Strongly Agree) To satisfy the objective exploratory factor analysis (EFA) has been used considering the following variables:

**Table 1:** List of Variables

Less Expensive than Branded Medicines
Doctor's prescription
Low Price
Family/Peer Influence
Good in Quality
Shopkeeper's Promotion
Availability of Required Medicines
Value for Money
Government Promotion Activities
Convenience to buy generic medicines from Jan Aushadhi Kendra
Similar to Branded Medicines
No Adulteration
Easily Affordable
The feeling of Emotionally Secured
Image
Trustworthiness of the Product

EFA was used to find out the relationship with the variables. The variables with an Eigenvalue of more than one were considered. Factor analysis was used to determine the factors influencing customers' purchasing of generic medicines from Jan Aushadhi medical stores.

## 5. Results and Discussion

The profile of the respondents is presented in table 2.

**Table 2:** Profile of Respondents

Demographic Variables	Frequency	Percentage	
Gender	Male	95	63
	Female	55	37
	Total	150	100
Age	Between 18-24	24	16
	Between 25-34	31	21
	Between 35-44	36	24
	Above 45	59	39
	Total	150	100
Educational Status	Illiterate	5	3
	Primary	20	13
	Secondary	34	23
	Higher Secondary	39	26
	Graduate	52	35
	Total	150	100
Monthly Household Income	Below 10000	22	15
	11000-20000	78	52
	20000-30000	29	19
	Above 30000	21	14
	Total	150	100
Profession	Public Sector Job	3	2
	Private Sector Job	48	32
	Business	47	31
	Student	17	12
	Not Working	35	23
	Total	150	100
Size of the Family	Up to 2	17	11
	Up to 3	31	21
	Up to 4	82	55
	Up to 5 & Above	20	13
	Total	150	100

Table 2 describes the demographic profile of the 150 respondents who participated in the survey. With respect to gender, 63% were male, and 37% were female. With respect to age, 16% of respondents were between 18-24 years of age, 21% of respondents were between 25-34 years of age, 24% of respondents were between 35-44 years of age, 39% of respondents were above 45 years of age. With respect to educational status, 3% of the respondents were illiterate, 13% of the respondents have completed primary education, 23% of the respondents have completed secondary education, 26% of the respondents have completed higher secondary education, and the rest of the 35% respondents were graduates. With respect to monthly household income, 15% of the respondents were earning below 10000, 52% of the respondents were earning between 11000 – 20000, 19% of the respondents were earning between 20000-30000, and the remaining 14% of the respondents were earning above 30000. With respect to Profession, 2% of the respondents are Public sector employees, 32% of the respondents were Private sector employees, 31% of the respondents are doing business, 12% of the respondents were students, and the remaining 23% of the respondents are not working. With respect to the size of the family, 11% of the respondent's family size is up to 2

members, 21% of the respondent's family size is up to 3 members, 55% of the respondent's family size is up to 4

members, remaining 13% of the respondents family size is up to 5 and above.

**Table 3: KMO and Bartlett's Test**

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.765
Bartlett's Test of Sphericity	Approx. Chi-Square	641.171
	df	120
	Sig.	.000

From Table 3, it is clear that the value of KMO statistics is 0.765 (> 0.5), which indicates that the sample is adequate and good for conducting the factor analysis. And from Bartlett's

test, the approximate chi-square statistic is found to be 641.171 with 120 degrees of freedom which is significant at 0.01 levels.

**Table 4: Total Variance Explained By the Included Variables**

Components	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of variance	Cumulative %	Total	% of variance	Cumulative %	Total	% of variance	Cumulative %
1	4.145	25.908	25.908	4.145	25.908	25.908	2.310	14.437	14.437
2	2.181	13.631	39.539	2.181	13.631	39.539	2.238	13.988	28.424
3	1.538	9.614	49.153	1.538	9.614	49.153	2.189	13.680	42.105
4	1.132	7.074	56.226	1.132	7.074	56.226	1.990	12.439	54.544
5	1.002	6.260	62.486	1.002	6.260	62.486	1.271	7.942	62.486
6	.856	5.351	67.837						
7	.776	4.847	72.684						
8	.668	4.175	76.859						
9	.624	3.901	80.760						
10	.574	3.586	84.346						
11	.546	3.412	87.758						
12	.496	3.100	90.858						
13	.436	2.728	93.586						
14	.417	2.605	96.191						
15	.347	2.169	98.360						
16	.262	1.640	100.000						

Extraction Method: Principal Component Analysis.

From Table 4, it's clear that five components have an Eigenvalue of 4.145, 2.181, 1.538, 1.132, 1.002 having a variance of 25.908, 13.631, 9.614, 7.074, 6.260 respectively. These five factors explain about 62.486 per cent of the

variance. But to get a meaningful conclusion of grouping the variables under certain factors, the rotation of components was done using varimax rotation with Kaiser Normalization.

**Table 5: Rotated Component Matrix**

	Component				
	1	2	3	4	5
Low Price	.836				
Less Expensive than Branded Medicines	.708				
Value for money	.641				
Quality	.424				
Shopkeeper's Promotion		.745			
Government Promotion Activities		.709			
Doctor's prescription		.636			
Family / Peer Influence		.636			
No Adulteration			.841		
Similar to Branded Medicines			.741		
Image			.655		
Easily Affordable	.448		.464		
The Feeling of Emotionally Secured				.751	
Convenience to buy generic medicines from Jan Aushadhi Kendra.				.726	
Trustworthiness of the Product				.722	
Availability					.903

**Table 6:** Factors Influencing Purchasing Behaviour of Generic medicines from Jan Aushadhi medical stores

Factors	Statements	Loadings
Cost and Quality Parameters	Low Price	0.836
	Less expensive than branded medicines	0.708
	Value for money	0.641
	Good in Quality	0.424
Promotional Factors	Shopkeeper's Promotion	0.745
	Government Promotion Activities	0.709
	Doctor's Prescription	0.636
	Family / Peer Influence	0.636
Consumers awareness	No Adulteration	0.841
	Similar to Branded Medicines	0.741
	Image	0.655
	Easily Affordable	0.464
Psychological Factors	The Feeling of Emotionally Secured	0.751
	Convenience to buy generic medicines from Jan Aushadhi Kendra	0.726
	Trustworthiness of the product	0.722
Availability	Availability of required medicines	0.903

Table 5 represents the Rotated component matrix which groups the 16 Variables taken for the analysis under 5 Factors that have factor loadings greater than or equal to 0.4.

Table 6 represents the Factors and its respective variables as follows:

Factor 1 is labeled as Cost and Quality Parameters, which includes Low Price with a factor loading of 0.836, less expensive than branded medicines with a factor loading of 0.708, value for money with a factor loading of 0.641 and Good in Quality with a factor loading of 0.424.

Factor 2 is labeled as Promotional Factors, which includes Shopkeeper's Promotion with a factor loading of 0.745, Government Promotion Activities with a factor loading of 0.709, Doctor's Prescription with a factor loading of 0.636 and Family and Peer influence with a factor loading of 0.636.

Factor 3 is labeled as Customer Awareness which includes No Adulteration with a factor loading of 0.841, Similar to branded medicines with a factor loading of 0.741, Image with a factor loading of 0.655 and Easily Affordable with a factor loading of 0.464.

Factor 4 is labeled as Psychological Factors, which includes The Feeling of Emotionally Secured with a factor loading of 0.751, convenience to buy generic medicines from Jan Aushadhi Kendra with a factor loading of 0.726, Trustworthiness of the product with a factor loading of 0.722.

Factor 5 is labeled as Availability which includes the availability of required medicines in Jan Aushadhi medical stores with a factor loading of 0.903.

## 6. Conclusion

The major factor influencing the purchasing of generic medicine from the Jan Aushadhi medical store is its cheaper price and quality. The study also revealed that customers' economic condition plays an important role in buying generic medicines over expensive branded ones. The customers trust the generic medicines, and they feel emotionally secured in using these generic medicines. The promotional activities of Jan Aushadhi medical store owners and government and the influence of doctors, friends and families making the customers aware that generic medicine is similar to the branded medicines in their chemical composition and quality and don't undergo any adulteration. Since the government promotes generic medicines through Jan Aushadhi medical stores, it gives a good image to the customers. These promotions and awareness of customers are highly impacting the purchasing behaviour of generic medicines from Jan

Aushadhi medical stores. The availability of customer required medicine in Jan Aushadhi medical store also plays a crucial role in customers purchasing behaviour.

## 7. Recommendations

Like the major pharmaceutical retail chains, these Jan Aushadhi medical stores also need to come up with the initiative of delivering the generic medicines at the patient's doorstep. And a specially designed web portal needs to be launched. The details of medicines available in the nearby Jan Aushadhi medical store, and the location of nearby Jan Aushadhi medical store are needed to be made available in that web portal for the benefit of the customers.

## 8. Limitations

This study is done only in Coimbatore city, which may not be a true representation of all other cities in India.

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