Public Perception of Pharmacists

in Delta State

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ABSTRACT

Background: Pharmacists are rated as one of the top three professionals who serve the society but it is not Pharmacist to educate occurring in the profession of clear whether the public fully consumers/patients one at a time on pharmacy are being recognized, and appreciates what Pharmacists cando. a daily basis about their this can be achieved by examining the Public perceptions and expectations responsibilities. of Pharmacists in Delta state.

Method: Eighteen local government Public, Responsibility areas in Delta state were randomly selected as study sites. Adults, 18 INTRODUCTION item pretested questionnaire.

of the respondents were female drugs in a patient centered manner.1 respondents (6551, 99.5%) have medicine.2 heard of the term Pharmacist, (4249, The recognition of the expertise of 64.5%) usually have difficulty Pharmacists have been welcomed by knowing which person behind the many in the Pharmacy profession as it counter is the Pharmacist.

Conclusion: This study adds to our However it is not clear how the understanding of Public perception of general public perceives this change. Pharmacists and the potential for an While it is a good thing that the increased scope of practice, pharmacy profession appears to be Respondents in this study suggested trustworthy and held in high esteem, that the public has a good it is not clear whether the public fully

understanding of Pharmacists in appreciate what the pharmacists can Delta state, but there are still some do. The purpose of the study is to variations, so it is up to the individual understand whether the changes

Key words: Pharmacist, Perception, serves-the public.

years of age and over who were able Pharmacy as a profession goes to communicate in English were beyond filling prescription; it also randomly approached and promotes health awareness and anonymously interviewed using a 34- contributes to the well-being of the public/community at large. It is a Result: 7200 questionnaires were health profession that links the health administered and 6586 were sciences with the clinical sciences. It is completely filled and returned, giving also charged with ensuring the safe a response rate of 91.4%. A majority and effective use of pharmaceutical (3561, 54.1%). Most of the Pharmacist's professional standards respondents indicated that are internationally acknowledged to Pharmacists are Health care protect the well-being of patients professionals (5356, 84.3%), through ensuring good quality, Although a large number of the rational use and proven efficacy of

> tends to move from product-oriented roles towards patient-oriented roles.

perception of those the profession

METHODS

Study design

A cross-sectional study was carried out involving people from 18 randomly selected Local Government Areas in Delta state. These Local Government Areas are in the urban, sub-urban and rural areas of the state and their LGA headquarters was used for the study. The survey was carried out using a well structured 34-item questionnaire which was pre-tested for the purpose of the work. The questionnaire consisted of closedand open-ended questions covering information about sociodemographic characteristics of respondents, and specific questions on the public perception of Pharmacists in Delta state. To minimize bias, chance random sampling was done and the participants were the general public 18 years and above. The questionnaires were selfadministered to respondents in offices, schools, hospitals, markets churches, motor parks and even ir their homes. In cases where the respondents could neither read no

were read out and the options ticked Statistics 20) database and reviewed as the respondent indicated, for accuracy then analyzed using Appropriate authorization to carry descriptive analysis (frequencies, out this research was sought out for in places were authorization was required. Maximum effort was made to maintain confidentiality of information by omitting names of the respondents and making sure they were aware that no information they provided could be linked to them by anybody, including the researcher.

The sample size was calculated for each LGA and a sample size of 400 was obtained. Consequently, a total sample size of 7200 was used for the study. The estimated minimum sample size was calculated using the Fischer's statistical formula for calculating sample size.

$$n = N$$

$$1 + (e) 2$$

Where n = sample size

N = population size

e = level of precision or margin of error (0.05)

Data collection

Members of the public who were 18 years and above of age and able to communicate in English were randomly approached, provided with the study objectives, assured about data confidentiality and anonymity, and requested to participate. People who offered oral consent because they could neither read nor write were anonymously interviewed. Individuals who did not offer oral consent or were not able to answer the survey questions due to language barriers were excluded. Data collection took place over a 10-week period during normal daytime business hours within July 2013 to September 2013. A sample of 7200 people (400 people per study site) was selected.

Data analysis

Completed questionnaires were carefully sorted by coding them into Statistical Package for Social Sciences

write the questions and their options version 20.0 for windows (IBM SPSS percentages and mean) based on the total number of respondents. Fivepoint Likert scale responses were collapsed into three general categories (Agree, Undecided, Disagree).

RESULTS

The response rate was 91.4% where 7200 questionnaire was administered and 6586 was completely filled and returned.

According to Table 1, sociodemographic data of the respondents revealed that the majority of respondents were young

adults and adults, (63.4%). Most of the respondents were from age groups 23-27 years, followed by 28-32 and 18-22 years who contributed to 64.4% of the total respondents while the elderly 54-58 and >59 were only 3.7% of them. Male respondents were 45.9% while female respondents were 54.1%. Participants who were single were greater in number 52.5%. Majority of the respondents has tertiary education, (74.3%). Civil servants made majority of the respondents. Additionally, urban residents were more, (56.2%).

Table 1. Casia demographic information of recognidants

Characteristics of Respondents	Frequency (%)
Age	
18-22	1118 (17%)
23-27	1878 (28%)
28-32	1179 (17.9%)
33-37	794 (12.1%)
38-42	670 (10.2%)
43-48	526 (8.0%)
49-53	179 (2.7%)
54-58	86 (1.3%)
>59	156(2.4%)
Gender	
Male	3025 (54.9%)
Female	3561 (54.1%)
Marital status	
Single	3458 (52.5%)
Married	2874 (43.6%)
Divorced	88 (1.3%)
Widow/widower	105 (1.6%)
Separated	61 (0.9%)
Level of Education	
Primary	349 (5.3%)
Secondary	1293 (19.6%)
Tertiary	4896 (74.3%)
None	48 (0.7%)
Occupation	
Business tycoon	1627 (24.7%)
Student	1644 (25.0%)
Doctor	305 (4.6%)
Nurse	279 (4.2%)
Civil servants	1723 (26.2%)
Others	1008 (15.3%)
Residence	
Urban	3700 (56.2%)
Sub-urban ,	1924 (29.2%)
Rural	962 (14.6%)

Level of awareness

have heard of the term "Pharmacist", (0.5%).

Majority of the respondents. When asked where the Pharmacists majority of respondents (63.1%) said (18.5%), and community (6.9%).

When respondents were asked if they that Pharmacists are drug work in all three places; hospital Expert,17.2% said the Pharmacists community and industries. majority of the respondents said yes are people who sell drugs, 7.8% When asked whether it was (99.5%) while a few others said no indicated that they are chemist and important to see the Pharmacist 2.5% said they are doctors.

said community, and 7.1% industries. medication.

72.5% of the respondents believed 35.6% reported that pharmacists

before they get their medication, indicated that they heard the word work majority of the respondents it was important while (36.9%) felt it Pharmacist from the hospital (38.0%), (49.9%), reported that the was not important to see the followed by school (36.6%), family Pharmacist work in the hospital, 7.4% Pharmacist before getting their

Table 2: Participants response on their level of awareness towards the Pharmacist

Question: Have you heard of the term Pharmacist?	Frequency
Yes	6551 (99.5%)
No	35 (0.5%)
Question: Where did you hear it from?	
Family	1220 (18.5%)
Hospital	2504 (38.0%)
School	2408 (36.6%)
Community	454 (6.9%)
Question: Who is a Pharmacist?	
A drug expert	4774 (72.5%)
A person who sells drugs	1133 (17.2%)
Doctor	164 (2.5%)
Chemist	515 (7.8%)
Question: Where does the Pharmacist work?	
Hospital	3285 (49.9%)
Industry	469 (7.1%)
Community	490 (7.4%)
All of the above	2342 (35.6%)
Question: I' don't have to see a Pharmacist face-to-face before	
I get my medicine	
True	2428 (36.9%)
False	4154 (63.1%)

Publics' view of Pharmacist

agreed. The public in this study also agreed or strongly agreed that Pharmacist.

agreed or strongly (83.1%) that Pharmacists are friendly and have Fifteen items were used to assess Pharmacists are health care good relationship with patients. respondents' perception of professionals like Doctors and Nurses. 44.1% of the respondents disagreed Pharmacists (Table 2). There was a 64.5% agreed or strongly agreed to or strongly disagreed and 16.5% was high level of agreement that the the question, I usually have difficulty indecisive while 39.4% agreed or Pharmacists are Knowledgeable in knowing which person behind the strongly agreed to the statement, drugs (95.6%), agreed or strongly counter is a Pharmacist and 74.1% Patient care is an activity of the

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Table 3: Public's view of Pharmacists

ltem	Strongly agree n (%)	Agree	Undedded	Disagree n(%)	Strongly disagree n(%)
I usually have difficulty knowing which	1560	2689	439	1414	484
person behind the counter is the	(23.7%)	(40.8%)	(6.7%)	(21.5%)	(7.3%)
If the Pharmacist is busy I'd rather talk to	469	1608	454	2537	1518
the sales persons about my health situation than wait	(7.1%)	(24.4%)	(6.9%)	(38.5%)	(23.0%)
Pharmacists are knowledgeable and drug	3918	2376	116	148	28
experts	(59.5%)	36.1%)	(1.8%)	(2.2%)	(0.4%)
Pharmacist keep record of patients	1329	1752	1168	1834	503
medication	(20.2%)	(26.6%)	(17.7%)	(27.8%)	(7.6%)
Pharmacists are health care professionals	2215 -	3141	561	601	68
just like Doctors and Nurses	(33.6%)	(47.496)	(8.5%)	(9.1%)	(1.0%)
The Pharmacist cannot give me reliable	621	1578	1147	2348	892
advice about my food	(9.4%)	(24.0%)	(17.4%)	(35.7%)	(13.5%)
The Pharmacist cannot help me with my	427	1030	612	3249	1268
health problem	(6.5%)	(15,6%)	(9.3%)	(49.3%)	(19.3%)
The Pharmacist talk about prescription and	2378	2873	716	469	150
provide medication advice on request	(36.1%)	(43.6%)	(10.9%)	(7.1%)	(2.3%)
The Pharmacist is only useful where	966	2904	978	1351	387
medicines are concerned	(14.7%)	(44.1%)	(14.8%)	(20.5%)	(5.9%)
Patient care is an activity of the Pharmacist	937	1658	1087	2145	759
	(14.2%)	(25.2%)	(16.5%)	(32.6%)	(11.5%)
I don't really know what Pharmacists do	656	1703	1403	2150	674
beyond counting pills -	(10%)	(25.9%)	(21.3%)	(32.6%)	(10.2%)
Pharmadists are just business people who	626	1125	608	2936	1291
sell drugs in Pharmacies	(9.5%)	(17.1%)	(9.2%)	(44.6%)	(19.6%)
Pharmacists are friendly and have good	1758	3119	785	709	215
relationship with patients	(26.7%)	(47.4%)	(11.9%)	(10.8%)	(3.3%)
I can talk freely about my health related	1619	3153	796	759	259
problems with my Pharmacist	(24.6%)	(47.9%)	(12.1%)	(11.5%)	(3.9%)
I have total faith in the competence and	1893	2898	769	638	388
drug related knowledge of my Pharmacist	(28.7%)	(44.0%)	(11.7%)	(9.7%)	(5.9%)



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Who the public rely on for information

A majority of the respondents believed that Doctors (3637, 52.2%) were responsible for their general health and well being.

Table 4: Who the public rely on for information

	Medical Lab scientist	Nurses	Doctors	Pharmacists	Sales boy/gir
Information on non- prescription drug	777	433	2431	1910	1035
	(11.8%)	(6.6%)	(36.9%)	(29.0%)	(15.7%
Cost of prescription drugs	179	399	954	3359	1695
	(2.7%)	(6.1%)	(14.5%)	(51.0%)	(25.7%
Advice on how to take medication	130	459	2948	2899	150
	(2.0%)	(7.0%)	(44.8%)	(44.0%)	(2.3%)
Information on herbal products	855	233	1880	3095	523
	(13.0%)	(3.5%)	(28.5%)	(47.0%)	(7.9%)
Information on side effects and drug	485	392	2712	2867	130
interactions	(7.4%)	(6.0%)	(41.2%)	(43.5%)	(2.0%)
Advise for minor ailment	304	2304	2068	1720	190
	(4.6%)	(35.0%	(31.4%)	(26.1%)	(2.9%)

Tables 5. Responsibility for general health and the people's perception of themselves

Who is responsible for	Doctors (Sovernment	Pharmacists	Nurses	All above
ones general health and	3637	154	417	429	1949
well being	(55.2%)	2.3%)	(6.3%)	(6.5%)	(29.6%)
People who go to see the	Pharmacist, how	Customers	Client	Patient	Liability
People who go to see the do they see themselves	Pharmacist, how	Customers 1541	Client 792	Patient 4123	Liability

DISCUSSION

The response rate of 91.4% was high, counter. but some factors might have Respondents in this study accepted previous studies." 1).

heard of the term Pharmacist, 64.5% Professionals. a pharmacist is amongst persons Pharmacist talk about prescription care is the activity of a pharmacist

contributed to this high response that pharmacists are experts in drugs. A few study participants (26.1%) rate. This could be attributed to the unlike in the study carried out in the responded to seeking advice fact that majority of the respondents UK where the Pharmacists were medically from a pharmacist before were urban residents (56.2%) and regarded as chemist. Occasional the Physician as regards minor illness. (29.2%) were resident in sub-urban referral of the Pharmacists as Incontrast, the majority of the public areas. Also, 74.3% of respondents had business people like in India was not in Jordan (63%) and in Northern tertiary education as shown in (Table reflected in this study as the Ireland (67%) reported that would not Though, 99.5% respondents have regarded as Health Care advice, especially if the condition was

attending to patients behind the and provide medication advice on request. This is in contrast with

Pharmacists in this study were hesitate to ask the pharmacist for not serious enough to see the doctor." do not have a clear understanding of In this study, majority of the The majority of respondents were how pharmacists function behind the respondents reported that they could familiar with the activities of the counter. This is due to the fact that talk freely about health related issues Pharmacist. However 44.1% there is no clear identification of who with their Pharmacist and that the disagreed to the statement; Patient

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while 16.5% were undecided.

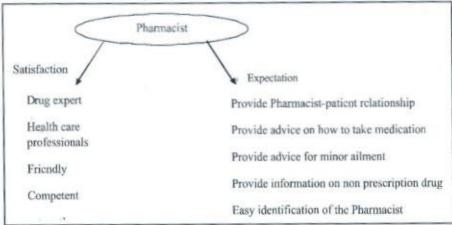
pharmacy and broaden the public that focuses on the level of expectations are high but are not met, perceptions of pharmacists, there is expectations one has in a service satisfaction is likely to suffer. There is need to revise the pharmacy encounter.' If expectations are high need therefore to meet the curriculum and make more emphasis and are met during the service expectations of the public in this which is centered on patient care encounter, then satisfaction is likely study to better improve their

in a patient centered manner.

courses to provide drug information to be assured. Similarly, if perceptions towards the pharmacist... expectations are low but those

expectations are met, satisfaction is To improve the professional image of A framework has been developed still likely to be achieved. In contrast, it

Figure 1: A chart illustrating public's satisfaction and expectation of Pharmacists but there are still some expectations from the public.



These expectations arise from the fact that many practicing pharmacists are not aware about their professional responsibilities.8

The basic reasons for this situation are, lack of individual's interest towards the practice, lack of motivation of regulatory bodies towards the profession and often times pursuit of money, thus an inconsistent message is being communicated to the general public about the role of the pharmacists.

Pharmacist should therefore play a pro-active role in becoming an effective and indispensable part of health care. They should equip themselves with appropriate knowledge and competencies in order to tender efficient countries. pharmaceutical health care."

participate in their "Know your practice for the profession. medicine, know your Pharmacist

campaign", so that the public gains a better understanding of the role the Pharmacists play, so this is up to the individual Pharmacists to educate consumers/patients one at a time on a daily basis about their responsibilities. While Pharmacists practice in a range of setting, all should have the same focus-"Optimal drug therapy outcomes through patient centered care", as highlighted in the "blue print for pharmacy".10

There were limitations to this study, as the research work was restricted to Delta State alone and the findings may not be applicable to other states in the country as well as other

CONCLUSION

The American Pharmacists The study revealed the perceptions of Association (AphA) has therefore the public about Pharmacists and the encouraged all Pharmacists to potential for an increased scope of

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