1	Awareness, Patterns of Primary Health Care Preference, and Influencing Factors Among
2	Residents in a Sub-Urban Region, Southern Nigeria
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6	Abstract
7	Background: Primary health care (PHC) serves as the foundation of effective health systems,
8	yet its utilization in Nigeria is limited due to varying awareness and socioeconomic factors.
9	Understanding the determinants of PHC awareness and preference is crucial for promoting its
10	adoption and achieving universal health coverage.
11	Objective: To assess the awareness, patterns of PHC preference, and influencing factors among
12	residents of Ovia North East Local Government Area, Edo State, Nigeria.
13	Methods: A cross-sectional study was done, which included 380 respondents selected through
14	multistage sampling. Data were collected using structured, interviewer-administered
15	questionnaires and analyzed with IBM SPSS Statistics version 27. Descriptive statistics
16	summarized the data, while chi-square and Fisher's exact tests assessed associations.
17	Results: Of the 380 participants, 95.3% were aware of PHC centres, with the community being
18	the leading source of information (62.4%). Vaccination (74.0%) and maternal health services
19	(70.4%) were the most recognized services, while awareness of cancer screening was low
20	(3.3%). Only 24.5% of respondents preferred PHC centres, with affordability (65.7%) being a
21	major factor. Age, gender, education, and employment status, significantly influenced awareness
22	(p < 0.05). Income and satisfaction with services emerged as key determinants of preference.
23	Conclusion: Despite high awareness levels, PHC preference remains low due to service quality
24	and affordability concerns. Addressing these gaps through infrastructure improvements,
25	community education, and service quality enhancements is critical to improving PHC utilization.
26	Keywords: Awareness, Health Services Accessibility, Pattern, Primary Health Care, Health
27	Awareness
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31 Background

32 Primary healthcare (PHC) is the cornerstone of any well-functioning health system, designed to 33 provide essential, accessible, and equitable services that address communities' most common and pressing health needs¹. By bringing healthcare services closer to people's locations, PHC reduces 34 barriers to access and alleviates the burden on secondary and tertiary health facilities^{1,2}. Globally, 35 36 PHC is recognized as fundamental to achieving Universal Health Coverage (UHC), a vision 37 articulated in the Alma-Ata Declaration of 1978 and continually reinforced by the World Health Organization (WHO) through various initiatives^{3,4}. The WHO regards PHC as central to 38 39 promoting health equity, increasing access to care, and addressing a wide spectrum of health 40 needs, from prevention and treatment to rehabilitation⁵.

41 Despite its established importance, PHC utilization varies significantly across regions and countries, influenced by factors such as infrastructure, public awareness, and socio-economic 42 conditions^{6,7}. High-income countries like the United Kingdom have demonstrated the benefits of 43 effective PHC integration within broader health systems. For example, the National Health 44 Service (NHS) recorded over 347 million primary care appointments in 2023, highlighting the 45 46 reliance of the population on PHC as the primary point of contact within the healthcare system⁸. 47 Such achievements highlight the critical roles of structured systems, adequate funding, and public awareness in fostering PHC utilization 9,10 . 48

In Africa, the utilization of PHC services has been inconsistent, often constrained by systemic challenges such as inadequate infrastructure, shortages of healthcare personnel, and financial barriers^{11,12}. However, there are promising developments in some countries, such as South Africa, where government efforts have led to the construction and upgrading of more than 400 PHC centres, significantly reducing travel distances for rural communities^{13,14}. Additionally, the provision of free medical services at these centres has encouraged greater utilization, particularly among low-income populations. These examples illustrate the transformative impact of well targeted policies in enhancing access to and utilization of PHC services.

In contrast, Nigeria's PHC system continues to face significant challenges. Although the country 57 is estimated to have over 34,000 PHC centres, representing 85.3% of all healthcare facilities, 58 only about 20% of these centres are fully functional^{15,16}. Most of these facilities lack basic 59 equipment and adequate staffing, with a minority meeting the minimum standards required to 60 deliver primary health services^{17,18}. As a result, PHC services in Nigeria are underutilized, with 61 many individuals bypassing these centres in favour of traditional medicine or tertiary healthcare 62 63 facilities, and key factors driving this underutilization include poor service quality, high costs, and a lack of awareness about the benefits and availability of PHC services^{17,19,20}. 64

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66 MATERIALS AND METHODS

67 Study Area

68 This study was conducted in Ovia North East Local Government Area (LGA) of Edo State, 69 Nigeria. Ovia North East is a vast area with a total landmass of 2,301 km² and a population of 70 155,344 as recorded in the 2006 census. The LGA comprises several communities, including 71 Okada, Uhen, Utese, Okokhuo, Uhiere, Isiuwa, Ekiadolor, Oluku, Iguoshodin, Utoka, Oghede, 72 Egbeta, Ora, and Ogbese. The area is host to diverse economic and social activities, with 73 sawmilling being a prominent economic activity and Igbinedion University, the first private 74 university in Nigeria, as a notable institution. Other facilities in the area include a private 75 teaching hospital, a National Youth Service Corps camp, and various businesses. The population 76 is ethnically diverse, comprising tribes such as Bini, Igbo, Yoruba, Urhobo, Isoko, Hausa, Ijaw, 77 and Fulani, with Christianity as the predominant religion, alongside Islam and African 78 Traditional Religion. The area houses several primary healthcare facilities offering 24-hour 79 services, including antenatal care, immunization, HIV/AIDS services, family planning, health 80 education, and maternal and newborn care, making it an appropriate setting for the study of PHC 81 utilization.

82 Study Population

The study population included all individuals residing in Ovia North East LGA who had lived there for at least one year prior to the study. The selection of residents ensured the inclusion of individuals who were familiar with the healthcare services in the area.

86 Sampling Technique

87 A three-step multi-stage sampling technique was used in selecting respondents for the study. In 88 the first stage, communities within the LGA were selected through simple random sampling. 89 Each community was assigned a number, and a computer-generated table of random numbers 90 was used to select three communities: Okada, Iguomo, and Egbeta. In the second stage, 91 proportional allocation was used to determine the number of respondents from each selected 92 community based on its population size. The third stage involved the use of cluster sampling to 93 recruit eligible respondents from the selected clusters within the communities until the desired 94 sample size was reached.

95 Data Collection

96 Quantitative data was collected using structured, interviewer-administered questionnaires 97 adapted from existing validated tools and modified for the study context. The section on 98 awareness evaluated residents' knowledge of PHC services, including their existence, the range 99 of services provided, and availability. It also explored sources of information such as community 100 health workers, media, or personal visits, aiming to assess factors influencing awareness. For 101 patterns of utilization, respondents were asked about the purpose of visits to PHC centres, 102 including their last visit, services accessed, and reasons for choosing or avoiding them. The 103 section on determinants identified factors influencing PHC awareness, and factors affecting 104 PHC preference. Data collection accommodated varying literacy levels using languages familiar 105 to respondents, including Nigerian Pidgin English, to ensure accurate and reliable responses. 106 Pretesting was conducted in Usen, a community in Ovia South West LGA, which shares 107 similarities with the study area. A sample size of 42 participants, representing 10% of the 108 calculated sample size, was used for the pre-test to enhance the validity, reliability, and clarity of 109 the data collection tools.

110 **Ethical Considerations**

111 Ethical clearance for the study was obtained from the Ethics and Research Committee of 112 Igbinedion University, Okada. Participation in the study was entirely voluntary, and written 113 informed consent was obtained from all respondents after explaining the purpose and objectives 114 of the research. Confidentiality was maintained by ensuring that participants' names were not 115 recorded on the questionnaires. Respondents were informed of their right to withdraw from the 116 study at any point without penalty, and assurances were given that no harm would come to 117 participants as a result of their involvement. Data collected was securely stored in a locked 118 cabinet and on a password-protected device accessible only to the research team. Ethical 119 clearance certificate number: IUTH/R.24/VOL.I/103.

120 Data Analysis

The data were checked for completeness before being entered into IBM SPSS Statistics version 27 for analysis. Descriptive statistics, including frequencies and percentages, were used to summarize categorical variables. Univariate analysis was conducted to explore the distribution of variables, while bivariate analysis was performed to test for associations between dependent and independent variables using the chi-square test and Fisher's exact test where applicable. A pvalue of less than 0.05 was considered statistically significant. Results were presented in prose format, frequency tables, and pie charts for clarity.

128 **RESULTS**

129 Sociodemographic characteristics

The study sample consisted of 380 respondents, with a mean age of 35 ± 13.9 years. The majority were between 19 and 29 years old (34.5%), followed by those aged 30-39 years (24.2%) and 40-49 years (16.6%). Gender distribution showed 61.8% female and 38.2% male participants. Most respondents (98.4%) were Nigerian, with only 1.6% being non-Nigerian. In terms of marital status, 49.2% were married, 42.6% single, 6.6% widowed, and 1.6% divorced. Regarding education, 44.7% had completed secondary education, 40% had tertiary qualifications, and 14.7% had primary education. The sample also included 1.6% with no formal education. Occupation-wise, 38.9% were employed, 31.6% self-employed, 14.5% unemployed, and 15% students. Income distribution varied, with 23.2% earning \aleph 11,000-20,000, 21.3% earning \aleph 31,000-50,000, and 21.6% earning \aleph 51,000-100,000. Smaller groups earned less than \aleph 5,000 (11.1%) or more than \aleph 101,000 (11.5%).

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142 Awareness of Primary Health Care (PHC)

Of the 380 participants, 362 (95.3%) were aware of PHC centres, while 18 (4.7%) were unaware. The primary sources of information about PHC centres were the community, with 226 (62.4%) respondents, family and friends (143, 39.5%), and health personnel (82, 22.7%). The media, including television and radio, was a source for 38 (10.5%) respondents. Regarding the presence of PHC centres in their areas, 362 (95.3%) respondents lived in areas with PHC centres, while 18 (4.7%) did not. The study also explored respondents' awareness of various PHC services.

149 The most widely recognized services included vaccination (268, 74.0%), labour and delivery 150 services (255, 70.4%), and antenatal care (249, 68.8%). Other commonly known services 151 included malaria treatment (247, 68.2%), general health check-ups (244, 67.4%), and blood 152 pressure checks (237, 65.5%). Awareness of breastfeeding practices and family planning was 153 reported by 154 (42.5%), while personal hygiene and nutrition education was known by 123 154 (34.0%). HIV counselling and testing, blood group and genotype testing, and cancer screening 155 were less commonly recognized, with 94 (26.0%), 89 (24.6%), and 12 (3.3%) reporting 156 awareness, respectively.

157 Pattern of PHC preference

Of the 380 participants, 299 (78.7%) had ever visited a PHC centre, while 81 (21.3%) had not. The main reasons for visiting the PHC centres included monitoring personal health (225, 76.8%), monitoring the health status of their child/children (110, 37.5%), antenatal care (96, 32.8%), and family planning (49, 16.7%). When asked about the timing of their last visit to a PHC centre, 32 (8.4%) had visited in the past month, 118 (31.1%) had visited within 1-6 months, 149 (39.2%) had visited more than six months ago, and 81 (21.3%) had never visited. The majority preferred 164 general hospitals (163, 42.9%), followed by PHC centres (93, 24.5%), home treatment (60, 15.8%), private hospitals (51, 13.4%), and traditional healers (13, 3.4%).

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168 Factors associated with PHC awareness

169 Of the 380 participants, 362 (95.3%) were aware of PHC centres, while 18 (4.7%) were not. Age 170 showed a significant association with PHC awareness. Among those aged <18, 25 (100.0%) were 171 aware, while 12 (9.2%) of those aged 19-29 and 6 (6.5%) of those aged 30-39 were aware 172 (p<0.001). Among respondents aged 40-49, 63 (100.0%) were aware, and 69 (100.0%) of those 173 aged >50 were also aware. Gender also had a significant effect on PHC awareness. Among 174 males, 145 (100.0%) were aware, compared to 217 (92.3%) females, with 18 (7.7%) females 175 unaware (p<0.001). Marital status was similarly significant. Among married respondents, 187 176 (100.0%) were aware, while 150 (92.6%) of single respondents were aware, with 12 (7.4%) 177 unaware. All divorced respondents (6, 100%) were unaware, while 25 (100.0%) of widowed 178 respondents were aware (p<0.001). Education level influenced awareness. Among those with no 179 formal education, 6 (100.0%) were unaware, while all 56 (100.0%) with primary education and 180 166 (100.0%) with secondary education were aware. Among tertiary-educated respondents, 140 181 (92.1%) were aware, and 12 (7.9%) were unaware (p<0.001).

Employment status showed similar trends. Among employed respondents, 148 (100.0%) were aware, while 49 (89.1%) of the unemployed were aware, with 6 (10.9%) unaware. Among selfemployed respondents, 114 (95.0%) were aware, and 6 (5.0%) were unaware. Among students, 51 (89.5%) were aware, and 6 (10.5%) were unaware (p<0.001). Monthly income showed no significant association. Among those earning $\leq \mathbb{N}30,000, 161$ (93.1%) were aware, and among those earning $\geq \mathbb{N}30,000, 201$ (97.1%) were aware (p = 0.065).

188 Factors associated with PHC preference

Regarding monthly income, 135 (78.0%) of respondents earning $\leq \mathbb{N}30,000$ preferred PHC, while 38 (22.0%) did not. Among respondents earning $\geq \mathbb{N}30,000, 201$ (97.1%) preferred PHC, and only 6 (2.9%) did not. This difference was statistically significant (p<0.001). In terms of satisfaction with PHC services, 148 (64.3%) of those who preferred PHC were satisfied, whereas 82 (35.7%) were not. Among those who did not prefer PHC, 50 (33.3%) were satisfied, and 100 (66.7%) were dissatisfied. This association was also significant (p<0.001).

The most common reason for utilizing PHC services was affordability, with 142 (65.7%) citing it. Other reasons included the rapid response of health workers (75, 34.7%), good services (62, 28.7%), and personal decision (19, 8.9%).

When asked about factors that would encourage them to use PHC services more, 129 (50.2%) respondents mentioned more efficient service as a key motivator. Increased awareness of services provided was a factor for 82 (31.9%), while 78 (30.4%) preferred shorter distance, and 77 (30.0%) were influenced by cheaper costs. Friendly staff and better transport services were less frequently mentioned, with 37 (14.4%) and 31 (12.1%) respondents respectively identifying these as motivating factors.

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Table 1: Sociodemographic characteristics of respondents

Variables	Frequency (n=380)	Percentage (%)
Age (years)		
<18 years	25	6.6
19 - 29 years	131	34.5
30 - 39 years	92	24.2
40 - 49 years	63	16.6
≥50 years	69	18.2
Mean Age (± S.D)	35 ±13.9	
Gender		
Male	145	38.2
Female	235	61.8
Nationality	<i>Y</i>	
Nigeria	374	98.4
Non-Nigeria	6	1.6
Marital Status		
Single	162	42.6
Married	187	49.2
Divorced	6	1.6
Widowed	25	6.6
Level of Education		
Primary	56	14.7
Secondary	166	44.7
Tertiary	152	40.0
Others (no formal education)	6	1.6
Occupation	140	20.0
Employed	148	38.9
Unemployed	55	14.5
Self Employed	120	31.6
Student	57	15.0
Monthly Income (N)	40	11.1
<5000 5000-10,000	42 7	11.1 1.8

21,000-30,000	36	9.5
31,000-50,000	81	21.3
51,000-100,000	82	21.6
>101,000	44	11.5

Table 2: Awareness of Primary Health Care (PHC) among respondents

Variables	Frequency (n=380)	Percentage
Awareness of primary health care	(11=300)	
(PHC) centre		\ <i>7</i>
Yes	362	95.3
No	18	4.7
Source of information		
Community	226	62.4
amily/friends	143	39.5
lealth personnel	82	22.7
Iedia (television, radio)	38	10.5
Respondents who live in areas with		
PHC centres	. У	
<i>l</i> es	362	95.3
lo 💦	18	4.7
wareness of PHC services		
Vaccination	268	74.0
Labour and delivery	255	70.4
Antenatal care	249	68.8
Aalaria treatment	247	68.2
General health check-up	244	67.4
Blood pressure check	237	65.5
reastfeeding practices & family	154	42.5
lanning		
Personal hygiene & nutrition education	123	34.0
HV counselling & testing	94	26.0
Blood group & genotype	89	24.6
Cancer screening	12	3.3

Table 3: Pattern of PHC preference among respondents

Variables	Frequency (n=380)	Percentage
Respondents who have ever visited a PHC centre	4	
Yes	299	78.7
No	81	21.3
Reason for visit*		
Γo monitor my health	225	76.8
Fo monitor the health status of my child/ children \sim	110	37.5
Antenatal Care	96	32.8
Family Planning	49	16.7
Time of last visit		
Less than a month	32	8.4
1-6 months	118	31.1
More than 6 months	149	39.2
Never	81	21.3
Preferred place of treatment for respondents		
General Hospital	163	42.9
Primary Health Care Centre	93	24.5
Home	60	15.8
Private Hospital	51	13.4
Traditional Healers	13	3.4

Multiple response question

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Table 4: Factors associated with PHC awareness among respondents

Table 4: Factors associ	iated with PHC aware	mess among respon	odents	R
Variables		of PHC	Fischers exact	p-value
	Yes (n = 362) n (%)	No (n=18) n (%)		
Age (Years) <18 19 – 29 30 – 39 40 – 49 >50	25 (100.0) 119 (90.8) 86 (93.5) 63 (100.0) 69 (100.0)	0 (0.0) 12 (9.2) 6 (6.5) 0 (0.0) 0 (0.0)	14.137	<0.001*
Gender Male Female	145 (100.0) 217 (92.3)	0 (0.0) 18 (7.7)	11.659	<0.001*
Marital Status Single Married Divorced Widowed	150 (92.6) 187 (100.0) 0 (0.0) 25 (100.0)	12 (7.4) 0 (0.0) 6 (100.0) 0 (0.0)	133.768	<0.001*
Level of education No formal education Primary Education Secondary Education Tertiary Education Employment status	0 (0.0) 56 (100.0) 166 (100.0) 140 (92.1)	6 (100.0) 0 (0.0) 0 (0.0) 12 (7.9)	135.064	<0.001*
Employed Unemployed Self-employed Student Monthly Income (N)	148 (100.0) 49 (89.1) 114 (95.0) 51 (89.5)	0 (0.0) 6 (10.9) 6 (5.0) 6 (10.5)	16.255	<0.001*
≤30,000 >30,000	161 (93.1) 201 (97.1)	12 (6.9) 6 (2.9)	3.405	0.065

*Statistically significant

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243 Table 5: Factors associated with PHC preference among respondents

Variables	Pre	fer PHC	Fischers exact	p-value
_	Yes (n = 198) n (%)	No (n=182) n (%)	À	
Monthly Income (N)		4		
≤30,000	135 (78.0)	38 (22.0)	85.561	<0.001*
>30,000	201 (97.1)	6 (2.9)		
Satisfaction with PHC services				
Yes	148 (64.3)	82 (35.7)	34.944	<0.001*
No	50 (33.3)	100 (66.7)		

Table 6: Reasons related to PHC preference among respondents

Variables	Frequency (n=380)	Percentage
Reasons for utilizing PHC services		
Affordability	142	65.7%
Rapid response of health workers	75	34.7%
Good services	62	28.7%
Personal decision	19	8.9%
Factors that would encourage respondents to use		
PHC services		
More efficient service	129	50.2
Increased awareness of the services provided	82	31.9
Shorter distance	78	30.4
Cheaper cost	77	30.0
Friendly staff	37	14.4
Better transport services	31	12.1

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250 **Discussion**

251 The study revealed that 95.3% of respondents were aware of the existence of PHC centres, with 252 the community serving as the primary source of information for 62.4% of participants. Family 253 and friends contributed to awareness in 39.5% of cases, while health personnel and media 254 accounted for 22.7% and 10.5%, respectively. Awareness of specific PHC services was highest 255 for vaccinations (74.0%), maternal health services such as labour and delivery (70.4%), and 256 antenatal care (68.8%). However, awareness of services such as HIV counselling and cancer screening was notably low, at 26.0% and 3.3%, respectively. A comparable study conducted by 257 258 Okunade et al²¹. in Ekiti state reported similar levels of general awareness but identified media as 259 a more significant source of information, contributing between 70%-96.5%%. This difference 260 may reflect limited media penetration in rural areas such as Ovia North East compared to urban 261 centres. This finding accentuates the importance of leveraging community health workers to 262 address the gaps in awareness of lesser-known PHC services, which, if unaddressed, could 263 undermine early diagnosis and management of chronic conditions such as cancer.

264 A history of ever visiting a PHC was reported by 78.7% of respondents, with personal health 265 monitoring cited as the most common reason for visits (76.8%). Visits for child health 266 monitoring (37.5%) and antenatal care (32.8%) were also prominent. Despite this relatively high 267 level of utilization, 21.3% of respondents reported never having visited a PHC centre. When 268 considering treatment preferences, general hospitals were preferred by 42.9% of respondents, compared to 24.5% who favoured PHC centres. A similar pattern was observed in a study 269 conducted by Bigio et al.²² across 4 low to middle-income countries (LMICs), where health 270 maintenance, and physical symptoms such as headaches, body pain and fever were common 271 272 reasons for presentation to PHCs. Failure to prioritize PHC utilization can lead to increased 273 reliance on secondary and tertiary healthcare facilities for simple uncomplicated cases, 274 worsening resource constraints and prolonging waiting times. To address this, it is recommended

that PHC infrastructure be upgraded and that quality assurance programs be introduced toimprove patient confidence and satisfaction.

277 The study also demonstrated that awareness of PHC services was significantly influenced by 278 sociodemographic factors, including age, gender, education, and employment status. 279 Respondents aged below 18 and above 40 years demonstrated 100% awareness, while awareness 280 was lower among younger adults aged 19–29 years, at 90.8%. Males exhibited higher awareness 281 levels (100%) compared to females (92.3%). Education also played a pivotal role, with 282 respondents who had primary and secondary education reporting 100% awareness, 92.1% 283 reporting awareness among those with tertiary education, and none without a formal education reporting awareness. These results align with findings from a study by Sharma et al.²³ in India, 284 which similarly identified higher awareness among older individuals and individuals with higher 285 286 levels of education. The observed disparities in awareness may be attributed to the role of 287 education in health knowledge, and greater exposure to health education among older 288 individuals. These gaps in awareness are significant because they may contribute to 289 underutilization of essential PHC services, particularly among younger adults and the less 290 educated, populations that often require targeted health interventions. Community-based 291 awareness campaigns can aid in bridging these gaps.

292 Income and satisfaction with services were key determinants of PHC preference. Respondents 293 earning №30,000 or less were more likely to prefer PHC centres, with 78.0% indicating this preference, compared to 22.0% among those earning more than N30,000. Satisfaction also 294 295 strongly influenced preference, as 64.3% of respondents who were satisfied with PHC services 296 reported a preference for them, compared to 33.3% among the dissatisfied. These findings are consistent with the study by Zhang et al.²⁴ in China, which noted a similar relationship between 297 298 satisfaction, income and PHC preference. The strong correlation between satisfaction and 299 preference emphasizes the critical role of service quality in driving healthcare choices. 300 Dissatisfaction can delay healthcare-seeking behaviour, worsening health outcomes. Addressing 301 these issues requires continuous staff training, implementation of user feedback systems, and 302 measures to ensure consistent service delivery.

303 CONCLUSION

There is a high level of awareness of PHC among the residents of Ovia North East LGA, yet a relatively low preference for these services. Affordability and service quality emerged as critical determinants of PHC preference, while gaps in awareness of services, such as HIV counselling and cancer screening, show the need for targeted campaigns. Sociodemographic disparities in PHC awareness emphasize the necessity for inclusive health education strategies. Strengthening PHC systems is vital for equitable health access and achieving universal health coverage in Nigeria.

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