

Original Article



Elder abuse among older persons in a local government area in southwest Nigeria: A cross-sectional study

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Abstract

Introduction: Elder abuse is a major but subtle social problem affecting millions of older adults globally. Nigeria, a developing nation with about 4% of her 200 000 000 population being older persons is not left out. This study aimed to determine the prevalence and correlates of elder abuse in Oye Ekiti Local Government, Ekiti State, Nigeria.

Methods: A cross-sectional study of 275 consenting seniors residing in households located in Oye Ekiti Local Government Area was conducted. A correlational matrix was constructed using Pearson correlational coefficients to determine the association between the various sociodemographic characteristics and abuse.

Results: Most respondents were males (62.5%) and aged 65 to 74 years (66.9%). Financial abuse was the most prevalent form of abuse (13.8%). The prevalence of abuse increased with age and 15.8% of those aged 65–74 years had suffered a form of abuse compared to (37.5%) aged 85 years and above (OR=3.21, CI: 1.28 – 8.02, $P=0.001$). Low income and poor formal education were more associated with abuse.

Conclusion: Targeted measures and policies should be employed against elder abuse, especially among the oldest old.

Introduction

Elder abuse is a huge but easily overlooked problem in the society. Despite its significantly distressing effects on the victims, it is often given little or no attention for mitigation and possible litigation of abusers. The World Health Organization (WHO) has described elder abuse as ‘a single or repeated act or lack of appropriate action, occurring within any relationship where there is an expectation of trust, which causes harm or distress to an older person’.¹ Also described as a knowing, intentional, or negligent act by a caregiver or any other person that causes harm or serious risk of harm to a vulnerable adult usually above 65 years of age, it can be in the form of physical abuse, sexual abuse, emotional abuse, financial exploitation, neglect or abandonment.² No single sign necessarily indicates abuse and suffering is often in silence. Abuse is a major social problem affecting millions of older adults across the globe. It is made worse by the fact that older persons are less likely to report abuse.^{2,3} Victims might also protect abusers or be too frightened or disabled to talk about the abuse.

A systematic review of articles on elder abuse in community settings from inception to 2015 showed

that 1 in 6 older adults (15.7%) were victims of abuse.⁴ Additionally, 64.2% of staff in another systematic review admitted to elder abuse in an institutional setting.⁵ However, only a small fraction of this was reported to the appropriate authorities. Abuse can occur in institutional settings like hospitals and care homes by carers as well as in domestic/private household settings by a family member or an intimate partner.⁶ A report submitted to the UK Parliament revealed that 67% of abuse was traceable to victims’ homes, 12% to nursing homes, 10% to residential care, 5% in hospitals, 4% occurred in sheltered housing and 2% in other locations.⁷ Likewise, findings from research in Israel showed that 52% of carers reported being involved in abuse.⁸

The health consequences of elder abuse are very significant and could reduce the quality of life of older persons by causing a decline in functional abilities, increased stress, depression, dementia, malnutrition, and eventually, early death. The risk of death for victims is three times higher than for non-victims. Possible signs of abuse in older persons include bruises, fractures, fear, depression, loss of sleep, unexplained change in behavior, unusual activity in bank accounts or a sudden drop in

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finances, unkempt and dirty appearance, and sexually transmitted diseases.⁹

The risk factors for abuse usually involve an interaction of multiple victim or carer factors. Circumstances such as memory or communication defect, fear of loneliness or shame, substance use by the abuser, poverty, inadequate support system, unemployment, family history of domestic violence, inexperienced or unwilling caregiver, poor implementation of laws, policies, and poor supervision, mental illness in carer or victim, poor family relationship, as well as social isolation are related to elder abuse.¹⁰ In addition, previous abuse is closely linked to the likelihood of continuity of domestic abuse (lifespan approach described by Dixon and colleagues¹¹) and is said to be involved in 64% of cases by Akpan and Umobong.¹²

In Nigeria, a study from Akwa Ibom identified emotional abuse as the most prevalent form of elder abuse.¹³ In about half of the cases, mistreatment was by a spouse/partner (51%), while another family member, a care worker, and a close friend were responsible for 49%, 13%, and 5% respectively.⁶ An establishment of trust has been found to exist in most instances of elder abuse.¹⁴ Another study from Northern Nigeria found no case of physical, financial, or psychological abuse but reported neglect among one-third of its participants.¹⁵ Along the same line, various and different factors have been associated with elder abuse by other research conducted in the country. In Osun, Nigeria, only religious affiliation was shown to have any significant contribution to elder abuse.¹⁶

While focus had been drawn to the phenomenon of elder abuse in the developed world as far back as the 1980s, it is still much not discussed in developing countries particularly in Nigeria.¹⁷ Although some research has been done on elder abuse in some Nigerian communities, there is room to explore abuse among older adults in other populations. About 4% of the Nigerian population is aged 65 years and above according to the national population census report this population is expected to increase.¹⁸ As at the time of this research, there is no policy addressing elder abuse in Nigeria. Thus, there is a need to initiate further research into the prevalence and correlates of elder abuse to set the base for adequate national and international data collection which would assist in the development of appropriate policy to mitigate the problem of elder abuse in developing countries. This study intends to explore the pattern of elder abuse among older persons in the Oye Ekiti Local Government Area. It will add to the existing knowledge and literature on the subject. It is expected that this will help encourage further research and data collection that would help in the formulation of guided policies and solutions.

Methods

This was a cross-sectional analytical study carried out in a Local Government Area in South West Nigeria. For

this study, we defined the elderly as anyone aged 65 and above.¹⁹ The study population consisted of persons aged 65 years and above residing in households located in the Oye Ekiti Local Government who were able and willing to respond to the questions and participate in the research procedures were included in the study. Older persons who were critically ill, or in a hospitalized setting were excluded as well as those who did not give consent for participation.

A total of 275 respondents were included in the study after adding 10% to the calculated sample size to cover for non-response. The sample size was estimated using the formula $n = (Z^2 P(1 - P)) / d^2$ Where n is the sample size, Z is the statistic corresponding to level of confidence and P is the expected prevalence that was obtained from similar study.¹¹ Multi Stage Sampling Techniques was used to select the respondents in this study. Multi-stage sampling technique was used to select the respondents in this study. Oye-Ekiti LGA is divided into 12 wards. The following stages of the sampling technique were used (Figure 1):

- Stage 1: One ward was selected from the twelve wards using a simple random sampling technique by balloting. This selected ward had eight communities.
- Stage 2: In stage 2, two communities were selected by simple random sampling technique by balloting method without replacement.
- Stage 3: In each of the communities selected in stage two, proportionate allocation of calculated sample size was used to apportion the number of respondents to be sampled. House numbering was done in each

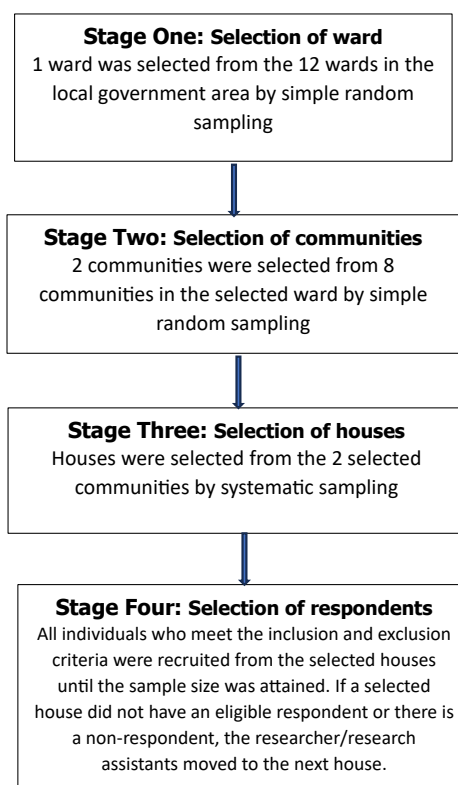


Figure 1. Flow diagram showing the selection of eligible respondents

community. Systematic random sampling was used: the first house was selected by simple random sampling and subsequent houses to be involved in the study were selected based on the sampling ratio.

- Stage 4: In each house selected in Stage 3, total sampling was used and all those who met the study criteria were recruited for this study until the sample size was attained. If a selected house did not have an eligible respondent, the researcher/research assistants moved to the next house. Also, non-respondents were replaced by moving to the next house to reduce non-response bias. The reason for the non-responses was a lack of consent by a few potential respondents.

An interviewer-administered questionnaire adapted from the Vulnerability to Abuse Screening Scale (VASS) was used for this research.²⁰ This questionnaire has been validated across countries and cross-culturally and it is shown to have adaptability to various populations²⁰ so we did not validate it for use in this study. Informed consent was obtained from each respondent before the study. The questionnaire elicited information on the respondents' socio-demographic characteristics, economic characteristics, abuse, and support. Physical abuse was defined as being restrained, hit, shoved, kicked, or burned; psychological/emotional abuse as humiliation, controlling attitudes, and threats; sexual abuse as inappropriate touching or rape; financial abuse as stealing of money belonging to an older person or taking over their property without consent; neglect as mistreatment from abandonment; and verbal abuse as negative defining statement or reviling. In addition, emotional support was defined as being able to find companionship, empathy, love, and trust if and when needed; physical support as being able to get assistance for mobility and other activities of daily living if and when needed; and financial support as being able to get money and other resources for daily living if and when needed. Multiple responses were allowed on support and forms of abuse suffered by the respondent.

Data collation and editing were done manually to detect omissions and to ensure uniform coding. The data were entered into a computer and analysis was done using SPSS version 21. The income was categorized (<20 000 Naira and 20 000 Naira and above) based on the minimum wage cutoff as at the time of study. Frequency tables and cross-tabulations were generated as necessary. The chi-square test was used to determine the statistical significance of observed differences in cross-tabulated variables, odds ratio and confidence interval were also presented. *P* value < 0.05 was considered significant.

Ethical approval for the study was obtained from the Ethical Review Committee of the Federal Teaching Hospital, Ido-Ekiti. The welfare of all research participants was ensured throughout this research. The respondents were identified by serial numbers on the questionnaires which were stored in a locked cabinet. The computer

used for data entry and analysis was also locked with a password known only to the researcher.

Results

A total of 275 elderly were studied comprising 172 (62.5%) males and 103 (37.5%) females (Table 1) with the majority (66.9%) between the ages of 65 to 74 years. More than half of the respondents (72.7%) earned below 20 000 Naira each month while 76.4% spent less than 20 000 Naira per month. More than a third of the respondents (38.5%) owned their houses and 200 (72.8%) were married. Furthermore, almost half of the research participants (41.8%) had no formal education while about half (49.1%) had primary education as the highest educational level.

Financial abuse was the most prevalent form of abuse with 13.8% of respondents having experienced it (Table 2) while physical and verbal forms of abuse were the least common with a prevalence of 1.8% each among respondents.

More than 70% of the respondents had financial, physical, and emotional support from relatives and friends (Figure 2). However, physical support was the

Table 1. Sociodemographic characteristics of respondents

Characteristic	Category	Frequency (N = 275)	(%)
Age interval (years)	65–74	184	66.9
	75–84	67	24.4
	85 and above	24	8.7
Gender	Male	172	62.5
	Female	103	37.5
Income	<20 000 Naira	200	72.7
	20 000 Naira and above	75	27.3
Expenditure	<20 000 Naira	210	76.4
	20 000 Naira and above	65	23.6
Tenure of house	Owned	106	38.5
	Family house	69	25.1
	Owned by sibling	23	8.4
	Rented	77	28.0
Education level	No formal education	115	41.8
	Primary	135	49.1
	Secondary	20	7.3
Occupation	Post-secondary	5	1.8
	Trader	73	26.5
	Farmer	157	57.2
	Artisan/Technician	10	3.6
	Civil servant	5	1.8
Marital status	Retired	30	10.9
	Single	25	9.1
	Married	200	72.8
	Divorced	10	3.6
	Widowed	40	14.5

Table 2. Prevalence of different forms of abuse

Abuse (N=275)	No (%)	Yes (%)
Physical	270 (98.2)	5 (1.8)
Psychological/ Emotional	261 (94.9)	14 (5.1)
Sexual	266 (96.7)	9 (3.3)
Financial	237 (86.2)	38 (13.8)
Neglect	261 (94.9)	14 (5.1)
Verbal	270 (98.2)	5 (1.8)

most prevalent form (80.4%) while financial support was the least (70.9%).

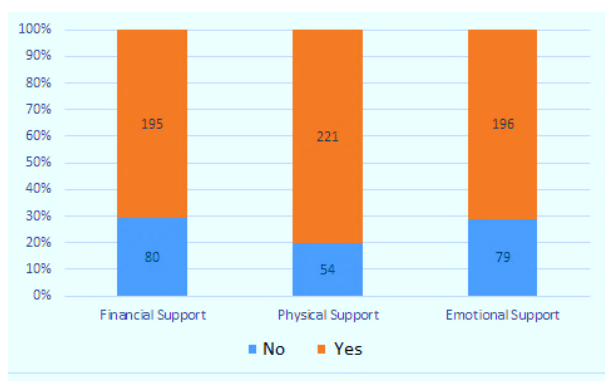
There was an increasing trend in the prevalence of abuse with age. While 15.8% of respondents aged 65–74 years had suffered a form of abuse, 37.5% of respondents aged 85 years and above were abused. The association between belonging to an older age group and abuse was statistically significant (OR=3.21, CI: 1.28–8.02, $P=0.001$). Also, a higher proportion of males (23.8%) than females (19.4%) reported abuse although without statistical significance (OR=0.77, CI: 0.42–1.40, $P=0.393$) (Table 3).

Furthermore, 25.5% of respondents who earned less than the minimum wage were abused while 13.3% of those who earned above that were abused (OR=0.45, CI: 0.21–0.94, $P=0.031$). More (29.6%) of respondents with no formal education were abused compared with 20% and 0% of respondents with primary and post-primary education respectively. This association between level of education and abuse was also statistically significant (OR=0.60, CI: 0.33 – 1.07, OR≤0.01, CI:<0.01 – <0.01, $P=0.004$).

Although 27.4% of those who owned their house were abused compared to 18.9% of respondents who did not own their house, this difference was not statistically significant (OR=0.62, CI: 0.35–1.10, $P=0.102$). There was also no statistically significant association between occupation, marital status, and abuse ($P>0.05$).

Discussion

This study assessed the pattern and correlates of elder abuse in a local government area of Ekiti State, Nigeria. Financial abuse was the most prevalent form of abuse (13.8%) which is in contrast to the findings in studies carried out in other parts of the world. Nemati-Vakilabad et al¹⁰ in Iran, as well as Ben Natan and Ariela⁸ in Israel, reported neglect as the most prevalent form of abuse in their research. In addition, neglect was the most common form of abuse in the UK National Prevalence Study of Elder Mistreatment.⁶ The Nigeria poverty headcount ratio at \$2.15 a day was 31% which ranked much higher than that of Israel and the United Kingdom at 0.5% and 0.2% respectively.²¹ Nigeria is one of the lower middle-income countries with about a third of her population living below the poverty line and the elderly are equally not spared which could explain the pattern of abuse seen among them.

**Figure 2.** Support available to respondents

Moreover, the finding on the commonest form of abuse in our study is also in contrast with that from similar studies done in Nigeria in which neglect was identified as the commonest form of abuse.^{11,12} Another study in Nigeria identified emotional abuse as the most prevalent form of elder abuse.¹³ This disparity may be due to the increasing sensitization to the rights of older persons which makes them identify more breaches in their finances. The differences in identified patterns of abuse among the different populations may also be the results of using different research tools in assessing the prevalence of elder abuse. Furthermore, physical and verbal forms of abuse were the least common with a prevalence of 1.8% each among respondents. This is not far-fetched because 80.4% of respondents had adequate physical support compared to 70.9% who considered their financial support adequate. This may also be a pointer to why financial abuse was more reported in this study.

There was an increasing trend in the prevalence of abuse with age in this study. This is consistent with the study by Biggs et al. where abuse was found to have worsened with age as the prevalence of financial abuse among those aged 66–74, 75–84, and ≥85 was 0.4%, 0.9%, and 1% respectively.⁶ Abuse also seems to worsen with poor health.⁶ As the elderly person grows older, his body organs and system undergo changes that may cause deterioration in the general health and he or she gets more socially isolated, and becomes more reliant on people for care making them exposed and more vulnerable to abuse. A higher proportion of males (23.8%) than females (19.4%) reported abuse, though there was no significant association between abuse and gender. In contrast, women were found to be affected more in the study by Akpan and Umobong.¹²

Also, the prevalence of abuse tends to be higher among those with low economic status compared to those with good financial standing. Abuse was also found to have worsened with illiteracy. More (29.6%) of respondents with no formal education were abused compared with 20% of respondents with primary and 0% of respondents with post-primary education respectively. This revealed the impact of socioeconomic inequality on abuse and

Table 3. Sociodemographic distribution and abuse of respondents

Characteristic	Category	No (%)	Yes (%)	χ^2	P value	OR	CI LB-UB
Age	65 – 74 years	155 (82.4)	29 (15.8)	13.384	0.001	1.00	1.47–5.31
	75 – 84 years	44 (65.7)	23 (34.3)				
	≥85 years	15 (62.5)	9 (37.5)				
Gender	Male	131 (76.4)	41 (23.8)	0.729	0.393	1.00	0.42–1.40
	Female	83 (80.6)	20 (19.4)				
Income	<20000 Naira	149 (74.5)	51 (25.5)	4.678	0.031	1.00	0.21–0.94
	≥20000 Naira	65 (86.7)	10 (13.3)				
Expenditure	<20000 Naira	154 (73.3)	56 (26.7)	10.353	0.001	1.00	0.09–0.60
	≥20000 Naira	60 (92.3)	5 (7.7)				
Tenure of house	Owned	77 (72.6)	29 (27.4)	2.678	0.102	1.00	0.35–1.10
	Not owned	137 (81.1)	32 (18.9)				
Educational level	No formal education	81 (70.4)	34 (29.6)	11.130	0.004	1.00	0.33–1.07
	Primary education	108 (80.0)	27 (20.0)				
	Post-primary education	25 (100.0)	0 (0.0)				
Occupation	Trading	59 (80.8)	14 (19.2)	7.085	0.069	1.00	0.78 – 3.04
	Farming	115 (73.2)	42 (26.8)				
	Retired	25 (83.3)	5 (16.7)				
	Others	15 (100.0)	0 (0.0)				
Marital status	Married	154 (77.0)	46 (23.0)	0.284	0.594	1.00	0.43 – 1.61
	Unmarried	60 (80.0)	15 (20.0)				

OR: Odds ratio, CI: Confidence interval, LB: Lower border; UB: Upper border.

maltreatment among the elderly population. The lower prevalence of abuse among the more educated elderly might be because those who are more educated were likely to be gainfully employed and financially stable than the less educated without requiring much help from others.²² Furthermore, the less educated elderly were less likely to be aware of their rights and lack of awareness of one's rights may make abuse thrive more.²³

Among the older population studied, financial abuse was the most prevalent form of elder abuse. Lower level of financial compared to physical support was also reported by respondents while associations were found between low educational level, low income, and abuse. Although efforts were made to verify the claims of respondents, the conclusion drawn from this study depends entirely on respondents' responses which may be subjective and can be affected by recall bias. Additionally, the use of a cross-sectional study design limits the ability to demonstrate causation between abuse and the independent variables. Further research could consider the use of longitudinal design for investigating the cause-and-effect linkages between abuse and these factors.

Conclusion

Elder abuse is a prevailing but silent menace among community-dwelling older persons. Since abuse is associated with low education and income, it is recommended that education should be made compulsory

Study Highlights

What is current knowledge?

- Elder abuse is associated with increasing age.
- Higher incidence of abuse had been reported among those living with multiple morbidity and disability.

What is new here?

- The lower the household income, the higher the risk of elder abuse.
- In addition, there is a significantly higher prevalence of elder abuse among people with low education levels.

and affordable to all. This will ensure that as people age, they are better prepared financially, and are aware of their rights. Health workers and older persons should also be sensitized about the forms of abuse and encouraged to report them. Government can incorporate care of the elderly into health care programs. Financial support and attention should also be given to the elderly as these measures will go a long way to reduce their risk of abuse in society.

Authors' Contribution

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Competing Interests

The authors have no conflict of interest.

Ethical Approval

Ethical approval (Protocol number: ERC/2014/04/15/19A) for the study was obtained from the Ethical Review Committee of the Federal Teaching Hospital, Ido-Ekiti.

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