# G ender Differences in Students-Staff Violence in U rban and R ural Secondary Schools of $\mathbf{O}$ sun State, South Western Nigeria. 

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#### Abstract

Background School violence is of public health importance. O ne important but often overlooked dimension is student-staff violence. The aim of the study was to assess the gender differences in the pattern of students-ttaff violencein urban and rural areas of $O$ sun state with the hypothesisthat male students and staff perpetrate violence morethan female studentsand staff respectively.

\section*{Methodology}

A cross sectional study conducted among 800 secondary school studentsfromJSS 2 to SSS 3(400 in urban and 400in rural areas) selected by multi-stage samplingtechnique.

\section*{Results}

The mean age for all the respondents was 14.3 years $\pm 2.0$, with the mean age for males as $14.2 \pm 2.0$ and females as $14.3 \pm 2.0$. Male respondents were $51.5 \%$ in urban schools and $51 \%$ in rural schools. M ales were the main perpetrators in both urban and rural areas but morefemales in the rural areas perpetrated violence than their urban counterparts. O ut of those who verbally abused school staff in urban areas, males constituted $61.5 \%$ compared to $38.5 \%$ of femal es. Respondents al so experienced violencein thehands of academic staff (male and female).

\section*{Conclusion}

All forms of violence were perpetrated against school staff with preval ence higher in rural than urban areas. $M$ ales perpetrated most forms of violence than females in both urban and rural schools, though this was marked in urban schools. Female respondents in rural areas experienced significantly higher perpetration of most forms of school-related violence than urban females.


## INTRODUCTION

School violence is of public health importance ${ }^{1}$ and it is increasingly becoming a major problem in developing countries such as N igeria. It has been defined as "aggressive and violent behaviours committed in schools and during school-based activities and institutional violence perpetrated by iatrogenic policies and practices." ${ }^{2 "}$ Violence is considered "schoolassociated or school-related" if such behaviour occurs on school grounds, while travelling to or from school, or during school-sponsored events ${ }^{3}$. School violence and school related
violence are often used interchangeably. School violence "includes all nature of intentional harm or discomfort inflicted on learners, including incidents such as schoolyard fights, bullying and drug abuse" . ${ }^{4}$ However, school violence is not just among students but it may also involve teachers, parents and entire communities. Dimensions of violence that have been recognised in N igerian schools include: student to student; student to school authority; student to teacher and vice versa; teacher to teacher; teacher to school-head and viceversa ${ }^{5}$.

School violence takes various forms; it has been broadly classified into physical and psychological. ${ }^{6}$ Specific types or forms of violence that have been recognised in literature include verbal abuse, such as calling names, racial slurs, and cursing; social violence, such as isolating a student or a group of students; indirect violence, including media-related victimization (e.g. showing private pictures over the internet and spreading rumours through cell phones\{cyber-bullying\}); physical assault, both moderate physical violence, such as pushing and shoving, and moreseveretypes of physical violence such as serious beating; property related violence, including vandalism, theft, and damages to students and staff property; sexual violence, including verbal harassment and physical forms of unwanted sexual behaviours; as well as weapon-related violence, including the possession and use of a range of weapons, such as pocket knives and guns. ${ }^{7}$ Other well recognised forms of violence include fighting, bullyingand corporal punishment. ${ }^{6}$

Theeffects of school violenceincludenot only physical consequences but also deep psychological and social effects not just on affected individuals but on the society as a whole. For every assault, there is a victim and countless witnesses who may experience physical injury, psychological effects, and social, emotional and behavioural problems. The consequences are serious and may include post-traumatic stress disorder (PTSD), failure to acquire competence in peer relations, adoption of or highly aggressive behaviour, use of psychoactive substances and incurring of dissociation ${ }^{8}$. V iolence impact on the ability of students to get to and from school, to learn effectively while in school, and to remain in school long enough to reap the benefits of education. ${ }^{9.10}$ School violence may also result in death as revealed in the killing of a secondary school teacher and mother of two by her students accompanied with destruction
of school buildings and properties at G andu Secondary School in Tudun Wada district, Gombestatein M arch $2007^{11}$.

In terms of gender, males appear to be much more likely to engage in serious violence than females, possibly because boys are socialized into roles that encourage higher levels of physical aggression. Females more often express hostility through indirect and verbal forms of aggression, such as alienation, ostracism, and character defamation. Females al so often display relational aggression vis-a-vis exclusion of peers, gossip, and collusion directed at relational bonds betw een friends. ${ }^{12}$ In a Nigerian study, females experienced a higher degree of social and verbal bullying when compared to males ${ }^{13}$. There is wide consensus that males are both perpetrating physical violence and being victimized in school more than females.' H owever, a few studies showed that though males generally perpetrate more violence than females in schools there is no difference when it comesto being at the receiving end of violence. ${ }^{12}$ In a multinational "H ealth Behaviour in SchoolA ged C hildren" (H BSC) survey, it was found that males tended to bully others more than females in most counties but gender differences in victimization to bullying arefar lessconsistent. ${ }^{7}$

Studies from developed countries have reported rural-urban disparity in the rate and pattern of school violence with rates being higher in urban slums in many countries though in recent times it has also been on the increase in rural areas. ${ }^{14}$ Because of the different characteristics of urban and rural areas in terms of population, family values, social amenities including exposure to mass media and other forms of modern technology, the pattern of violence is expected to be different between the areas. Thus, it is expected that the prevalence and pattern of school violence may differ between rural and urban areas, hence the comparative nature of
this study. Although, school violence is increasingly being recognised as a problem in N igeria, not much attention has been given in particular to student to staff or staff to student violence. This study was done to assess the prevalence and gender differences in the pattern of violence among school staff and students in 0 sun state which has a total net attendance ratio (NAR) percentage of the secondary-school age (13-17 years) population that is attending secondary school of $75.1 \%$ compared to the South-West zone and the national figures of $68.7 \%$ and $49.1 \%$ respectively ${ }^{15}$.

## METHODOLOGY

This study was a comparative cross-sectional study conducted among junior and senior secondary students of 0 sun State, Nigeria. O sun State has three senatorial districts and 10 Local G overnment A reas (LGAs). Sample size was determined using the formula for comparing independent proportions. Prevalence estimates for sample size calculation werebased on the findings of a national study that reported prevalence estimates of $80 \%$ and $90 \%$ for physical violence in urban and rural areas respectively. ${ }^{1.6}$ $U$ sing a power of $90 \%$, a minimum sample of 266 respondents per group was determined. This was however increased to 400 per group.

Selection of respondents was by multi-stage sampling technique. In the first stage, all the LGA sin theStatewerestratified into urban or rural LGAs based on the 1991 N ational Population Commission's census definition (Such a definition is yet to bepublished for the 2006 census). ${ }^{17}$ From each of the three senatorial districts, one urban and one rural LGA were selected using simple random sampling method (SRS) to make a total of six LGAs three rural and three urban. All the secondary schools in the selected LGA s were then stratified into public (government) or private. O ne public and one private school were also selected from each selected LGA usingSR Stechnique. Samplequotaswerethen allotted to each selected school proportionately to the size of students'
enrolment to achieve the desired total sample size of 800 respondents, that is, 400 for the urban and 400 for therural secondary schools. E xcluding the junior secondary school one (JSS1) dass from the study because the students had spent less than the study's recall time period of oneyear in school; respondents were drawn from the remaining five class sets - JSS2 to SSS3 of each school by proportional allotment and ensuring male and female are selected at the rate of $51 \%$ for males and $49 \%$ for girls based on the 2005 enrolment figures for boys and girlsin O sun state ${ }^{18}$.

Q uantitative data was collected from students using a facilitated self-administered questionnaire with trained assistants at hand to providehelp. ${ }^{19}$ M ost of the questions were adopted from the "Experiences of violence questionnaire" from anon-profit organisation known as RIVA (Research Into Violence and A ggression $)^{20}$ and the " H ealth Behaviour in School- A ged Children (HBSC)" Q uestionnaire by $\mathrm{WHO}^{21}$ while a few others were developed for the study. The questions were suitably modified where necessary to fit Nigeria's socio-cultural context. The questionnaire was translated to the Y oruba language (the language spoken in the western part of the country) and back-translated into English. The Y oruba translation was quite useful in somerural schools. T hedata was analysed using SPSS 16.0 and appropriate univariate, and bivariate analyses were done. The outcome measures and their definitions areasfollows:
V erbal abuse Insults, threats, shouting, intimidating language ect.
Physical assault/ Fighting-Slaps, punches, kidk s, chokes, head butts etc where the aggressor is attempting to cause physical harm and injury without using a weapon.
Injured in a physical assault- Refers to bruises, cuts, lacerations, swellings, fractures etc sustained asaresult of physical assault.
Threat with a weapon-U se of aknife, club or other available sharp or pointed objects in a threatening manner which in itself is not causing physical harm.
A ssault with a weapon- $U$ seof a knife, stick (club), bottle or other available sharp or pointed objects to cause
actual harm e.g. being clubbed or stabbed.
Sexual harassment- $V$ erbal sexual comments, offensive jokes or gestures, unwanted sexual touching, kissing, forced sexual intercourse with or without peneration ecc.
School staff was defined for therespondents as academic staff (maleand female) and non- academi cstaff.

Ethical clearance was obtained from the Research and Ethics Committee of the O bafemi Awolowo University Teaching Hospitals' Complex, Ilelfe. Permission to carry out the study was taken from the 0 sun State Ministry of Education, the Local Inspectorate of Education in each LGA and the relevant school authority. Furthermore, general consent was obtained from the Parent Teachers Association (PTA) of each but participation by the individual student completely voluntary. The purpose of the study was explained to the students but consent was sought and obtained individually. They were also assured of confidentiality. A s with studies based on self-reports, a major limitation is inadvertent and deliberate misreporting. However, anonymous data collection and reassurances about confidentiality should minimisesuch.

## RESULTS

A bout 50\% of the respondents in both urban and rural schools were in the age group 14-16 years while about a third of them ( $35.8 \%$ in urban schools and $34.3 \%$ in rural schools) were in the age group 10-13 years; $51.5 \%$ and $51 \%$ of the respondents from urban and rural schools were males. A bout three quarters of the respondents were from public schools in
both urban (73.2\%) and rural (76.5\%) areas. N early three quarters (73.0\%) of the respondents were in senior secondary schools in urban areas and $52.8 \%$ in rural areas as shown in tablel.

Table 2 shows respondents' experience as perpetrators of school related violence against school staff in both urban and rural areas. The respondents in the rural areas perpetrated all forms of violence against school staff more than those in urban areas except for verbal abuse (55.2\% of cases for urban and $44.8 \%$ for rural). Of those who sexually harassed school staff $68.8 \%$ were from rural schools while $31.2 \%$ were from urban schools. Similarly $73.2 \%$ of respondents who assaulted staff with a weapon were from rural schools compared to $26.8 \%$ from urban schools. T he differences were statistically significant for all the forms violenceassessed except verbal abuse.

When the gender of respondents was taken into consideration, urban males perpetrated in a greater dimension all the forms of school related violence against school staff compared to their female counterparts. Of the 117 urban respondents who verbally abused school staff, $61.5 \%$ of them were males and $38.5 \%$ were femal es. Similarly, of the 29 respondents who sexually harassed staff in urban schools, 79.3\% were males while 20.7\% were females. There was a statistically significant difference between proportions of male and female respondents who verbally abused or sexually harassed school staff. (Seetable3).
M ale respondents in rural schools perpetrated all the forms of violence against school staff morethan their counterparts in urban schools except for verbal abuse. 0 ut of the 41 males

Table 1: Socio-demographic characteristics of the respondents

| V ariable | LGA D esignation |  |  |  | Total, $\mathrm{n}=800$. |  | Remark $\chi^{2}(p$ <br> value) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U rban, n Number | $\begin{gathered} =400 \\ \% \end{gathered}$ | Rural, $n$ N umber |  | N umber | \% |  |
| Age (years) |  |  |  |  |  |  |  |
| 10-13 | 143 | 35.8 | 137 | 34.3 | 280 | 35.0 | 6.95 (0.03) |
| 14-16 | 217 | 54.2 | 198 | 49.5 | 415 | 51.9 |  |
| > 17 | 40 | 10.0 | 65 | 16.2 | 105 | 13.1 |  |
| Sex |  |  |  |  |  |  |  |
| M ale | 206 | 51.5 | 204 | 51.0 | 410 | 51.2 | 0.02 (0.88) |
| Female | 194 | 48.5 | 196 | 49.0 | 390 | 48.8 |  |
| Type of school. |  |  |  |  |  |  |  |
| Public. | 293 | 73.2 | 306 | 76.5 | 599 | 74.9 | 1.12 (0.28) |
| Private. | 107 | 26.8 | 94 | 23.5 | 201 | 24.1 |  |
| School stratum |  |  |  |  |  |  |  |
| Junior Secondary School | 108 | 27.0 | 189 | 47.2 | 297 | 37.1 | 35.13 |
| Senior Secondary School | 292 | 73.0 | 211 | 52.8 | 503 | 22.5 | (<0.001) |

Table 2: Respondents' experience as perpetrators of school related violence (SRV) carried out against school staff by ruralurban location in the last one year.

| SRV | U rban students $\mathrm{n}=400$ <br> Perpetrated violence against staff <br> No (\%). | Rural students $n=400$ <br> Perpetrated violence against staff No (\%). | $\chi^{2}$, (p value) |
| :---: | :---: | :---: | :---: |
| Verbal abuse | 117 (55.2) | 95 (44.8) | 3.106, (0.078) |
| Physical assault/ fighting | 34 (33.0) | 69 (67.0) | 13.651, (0.001)* |
| Injured in a physical assault | 20 (25.3) | 59 (74.7) | 21.363, (<0.001)* |
| Threat with weapon | 23 (24.7) | 70 (75.3) | 26.877, (<0.001)* |
| Assault with a weapon | 19 (26.8) | 52 (73.2) | 16.832, (<0.001)* |
| Sexual harassment | 2 91.2) | 64 (68.80) | 14.905, (< 0.001)* |

*Statistically significant at $\mathrm{p}<0.05$. No $=\mathrm{N}$ umber

Table 3: School-related violence (SR V) perpetrated against school staff by male and female respondents in the last one year in rural and urban schools.

| SR V | U rban students: <br> Violence perpetrated by |  |  | $\chi^{2}$ <br> (p value) | Rural students: <br> Violence perpetrated by- |  |  | $\begin{aligned} & \chi^{2}(p \\ & \text { value }) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male <br> (\%) | Female <br> (\%) | Total (\%) |  | Male <br> (\%) | Female (\%) | Total (\%) |  |
| Verbal abuse | $\begin{aligned} & \hline 72 \\ & (61.5) \end{aligned}$ | $\begin{aligned} & 45 \\ & (38.5) \end{aligned}$ | $\begin{aligned} & \hline 117 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 6.672, \\ & \left(0.010^{*}\right) \end{aligned}$ | $\begin{aligned} & 48 \\ & (50.5) \end{aligned}$ | $\begin{aligned} & 47 \\ & (49.5) \end{aligned}$ | 95 (100.0) | $\begin{aligned} & 0.011, \\ & (0.916) \end{aligned}$ |
| Physical assault/ fighting | $\begin{aligned} & 22 \\ & (64.7) \end{aligned}$ | $\begin{aligned} & 12 \\ & (35.3) \end{aligned}$ | $\begin{aligned} & 34 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 2.594, \\ & (0.107) \end{aligned}$ | $\begin{aligned} & 34 \\ & (49.3) \end{aligned}$ | $\begin{aligned} & 35 \\ & (50.7) \end{aligned}$ | $\begin{aligned} & 69 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 0.099, \\ & (0.753) \end{aligned}$ |
| Injured in a physical assault | $\begin{aligned} & 12 \\ & (\mathbf{6 0 . 0}) \end{aligned}$ | 8 (40.0) | $\begin{aligned} & 20 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & \text { 0.609, } \\ & (0.435) \end{aligned}$ | $\begin{aligned} & 32 \\ & (54.2) \end{aligned}$ | $\begin{aligned} & 27 \\ & (45.8) \end{aligned}$ | $\begin{aligned} & 59 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 0.290 \\ & (0.590) \end{aligned}$ |
| Threat with weapon | $\begin{aligned} & 14 \\ & (60.9) \end{aligned}$ | 9 (39.1) | $\begin{aligned} & 23 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 0.858, \\ & (0.354) \end{aligned}$ | $\begin{aligned} & 35 \\ & (50.0) \end{aligned}$ | $\begin{aligned} & 35 \\ & (50.0) \end{aligned}$ | $\begin{aligned} & 70 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 0.034 \\ & (0.854) \end{aligned}$ |
| Assault with a weapon | $\begin{aligned} & 13 \\ & (68.4) \end{aligned}$ | 6 (31.6) | $\begin{aligned} & 19 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 2.287, \\ & (0.130) \end{aligned}$ | $\begin{aligned} & 28 \\ & (53.8) \end{aligned}$ | $\begin{aligned} & 24 \\ & (46.2) \end{aligned}$ | $\begin{aligned} & 52 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 0.194 \\ & (0.660) \end{aligned}$ |
| Sexual harrassment | $\begin{aligned} & 23 \\ & (79.3) \end{aligned}$ | 6 (20.7) | $\begin{aligned} & 29 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 9.682, \\ & \left(0.002^{*}\right) \end{aligned}$ | $\begin{aligned} & 27 \\ & (42.2) \end{aligned}$ | $\begin{aligned} & 37 \\ & (57.8) \end{aligned}$ | $\begin{aligned} & 64 \\ & (100.0) \end{aligned}$ | $\begin{aligned} & 2.368 \\ & (0.124) \end{aligned}$ |

Table 4: School-related violence (SR V ) perpetrated against school staff by respondents of the same sex in the last one year in rural and urban schools.

| SRV | M ale Students: Violence perpetrated in |  |  | $\chi^{2}$ ( $p$ value) | Female Students: <br> Violence perpetrated in |  |  | $\mathrm{X}^{2}$ (p value) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban (\%) | Rural (\%) | Total (\%) |  | Urban (\%) | Rural (\%) | Total (\%) |  |
| Verbal abuse | 72(60.0) | 48(40.0) | $\begin{aligned} & \hline 120 \\ & (100.0) \end{aligned}$ | 6.459 (0.011*) | $\begin{aligned} & \hline 45 \\ & (48.9) \end{aligned}$ | $\begin{aligned} & \hline 47 \\ & (51.1) \end{aligned}$ | $\begin{aligned} & 92 \\ & (100.0) \end{aligned}$ | 0.033, (0.855) |
| Physical assault/ fighting | 22(39.3) | 34(60.7) | $\begin{aligned} & 56 \\ & (100.0) \end{aligned}$ | 3.115 (0.078) | $\begin{aligned} & 12 \\ & (25.5) \end{aligned}$ | $\begin{aligned} & 35 \\ & (74.5) \end{aligned}$ | $\begin{aligned} & 47 \\ & (100.0) \end{aligned}$ | 12.531, (<0.00%) |
| Injured in a physical assault | 12(27.3) | 32(72.7) | $\begin{aligned} & 44 \\ & (100.0) \end{aligned}$ | 10.404 (0.00\%) | 8 (22.9) | $\begin{aligned} & 27 \\ & (77.1) \end{aligned}$ | $\begin{aligned} & 35 \\ & (100.0) \end{aligned}$ | 11.118, (0.00\%) |
| Threat with weapon | 14(28.6) | 35(71.4) | $\begin{aligned} & 49 \\ & (100.0) \end{aligned}$ | 10.456 (0.00\%) | 9 (20.5) | $\begin{aligned} & 35 \\ & (79.5) \end{aligned}$ | $\begin{aligned} & 44 \\ & (100.0) \end{aligned}$ | 17.019 (<0.00*) |
| Assault with a weapon | 13(31.7) | 28(68.3) | $\begin{aligned} & 41 \\ & (100.0) \end{aligned}$ | 6.261 (0.012*) | 6 (20.0) | $\begin{aligned} & 24 \\ & (80.0) \end{aligned}$ | $\begin{aligned} & 30 \\ & (100.0) \end{aligned}$ | $11.501\left(0.00{ }^{*}\right)$ |
| Sexual harrassment | 23(46.0) | 27(54.0) | $\begin{aligned} & 50 \\ & (100.0) \end{aligned}$ | 0.410, (0.522) | 6 (14.0) | $\begin{aligned} & 37 \\ & (86.0) \end{aligned}$ | $\begin{aligned} & 43 \\ & (100.0) \end{aligned}$ | 24.763 (<0.00*) |

[^0]Table 5: Respondents affected by school related violence (SR V) perpetrated by male and female academic staff in urban and rural schools in the last one year.

| SR V. | Students affected by violence perpetrated by male academic staff |  |  | Students affected by violence perpetrated byfemale academic staff |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { U rban } \\ & n=400 .(\%) \end{aligned}$ | Rural $n=400 .(\%)$ | $\chi^{2}$, (p value) | $\begin{aligned} & \text { U rban } \\ & n=400 .(\%) \end{aligned}$ | $\begin{aligned} & \text { Rural } \\ & n=400 .(\%) \end{aligned}$ | $\chi^{2}$, ( $p$ value) |
| V erbal abuse | 179 (44.8) | 163 (40.8) | 1.307 (0.253) | 173 (43.2) | 129 (32.2) | 10.298 (0.001*) |
| Physical assault/ fighting | 96 (24.0) | 123 (30.8) | 4.584 (0.032*) | 84 (21.0) | 117 (29.2) | 7.236 (0.007*) |
| Injured in a physical assault | 68 (17.0) | 106 (26.5) | 10.606 (0.001*) | 71 (17.8) | 102 (25.5) | 7.088 (0.008*) |
| Threat with weapon | 59 (14.8) | 90 (22.5) | 7.926 (0.005*) | 61 (15.2) | 95 (23.8) | 9.205 (0.002*) |
| A ssault with a weapon | 62 (15.5) | 82 (20.5) | 3.388 (0.066) | 53 (13.2) | 94 (23.5) | 14.010 (<0.001*) |
| Sexual harrassment | 48 (12.0) | 88 (22.0) | 14.174 (<0.001*) | 47 (11.8) | 87 (21.8) | 14.343 (<0.001*) |

. $\quad$ Statistically significant at $p<0.05$.

## DISC USSIO N

School violence is a global phenomenon and even within countries it cuts across the various strata of the society. In the school setting, the perpetration and/or experience of violentrelated behavioursarenot confined to students but have been found to affect school staff and everybody connected with the school system. Schools are meant to be safe and conducive places for learning but school violence could threaten this. In this study, 29.2 \% of urban students and $23.8 \%$ of rural students admitted that they verbally abused school staff, figures for those who assaulted staff with a weapon in the last one year were $4.8 \%$ and $13 \%$ respectively. These rates are quite high and disturbing. One author commented that school violence appear to beon the increase in A frica. ${ }^{22}$

Violence is not limited by either school location (e.g. urban, semi-urban, or rural) or school type since schools of all types and in
virtually all locations are affected by violence in various ways ${ }^{23}$. W orldwide the prevalence of school violence is increasing in rural areas although it is traditionally held to be commoner in urban slums. The findings of this study corroborated emerging facts from many parts of the world that the perpetration and/or experience of violence in schools especially between students and staff were commoner in rural areas than urban areas. Of the six outcomes variables on school related violence carried out against school staff by the respondents in this study, five occurred more in rural schools than urban schools. Students physically assaulted, caused injury, threatened and assaulted staff with weapons as well as sexually harassed staff more in rural areas than in urban areas. In aSouth A frican study, it was found that rural schools were more prone to both learner and educator violence and violence related behaviour. ${ }^{24}$ In Nigeria, a recent national study showed a higher
prevalence of physical violence in rural areas compared to urban areas. ${ }^{16}$

O ne reason that has been given for the increased pattern of violence in rural areas is the apparent neglect of rural societies compared to urban ones. "Research on rural crime remains sparse; more research efforts have been focused on trying to understand urban patterns of crime as well as the economic, social, and cultural forces associated with rising levels of crime, violence and delinquency. Perhaps because rural communities often lag behind the cities on crime and other social problems, policymakers have often left rural communities out of resource allocation decisions. ${ }^{25}$ A nother plausible reason for increased violence in rural areas is the unwillingness of school staff to stay in rural areas compared to urban; school teachers have a major roleto play in violenceprevention and control, thus inadequacy of teachers in rural areas may be contributing significantly to the observed pattern of violence in this study as well as others. It is of public heal th significance that more violence occur in rural areas compared to urban areas since N igeria's rural population is greater than its urban population; ${ }^{17}$ consequently a greater percentage of N igerians are exposed to the dangerous effect of school violence. F urthermore, theusual pattern of migration in N igeria is rural-urban, thus it is likely that failure to control violent tendencies in schools located in rural areas will ultimately manifest in urban areas. Thus, there is a great need to pay attention to the apparently rising levels of school violencein rural areas.

M ale respondents in this study perpetrated virtually all forms of school violence against school staff than their female counterparts in both urban and rural schools, but this observation was stronger in urban schools than rural schools. Violence in schools has been shown to be commoner among males
than in females from previous studies ${ }^{7,12}$, but, it perpetration and/ or experience of violence by females is also on the increase ${ }^{26}$. Despite the observed increase in violence among young females in recent years, young males are responsible for far more violent acts than females ${ }^{27,28,29}$. This may be reflective of the male-female distribution of violent crime, abuse, and incarceration in the larger society. According to a Canadian report, "Sex differences in rates of violence by men and women are consistent, with men outnumbering women by a very large margin. This is so across countries, over time, at all ages, and in relation to different types of violence. This assertion holds true in all types of violent or aggressive behaviour, including bullying in schools, in sports, on the street, in the home, among hospital patients or prison populations ${ }^{\prime 30}$. O ne common reason given by researchers for male predominance on violence related issue compared to females is that many cultures promote male dominance and teach boys to behave like men and not to be timid ${ }^{12}$. Thus, violent tendencies in males are seen as manliness and are often subtly encouraged. A nother reason for male 'dominance' in school violence that may be related to this is the influence of violent peers on non-violent males who otherwise would have been non-violent, but, for the influence of negative peer pressure.

There were significant gender differences in the rates of perpetration of violence against school staff by respondents in urban schools with more males perpetrating violence compared to females. In rural schools however, there was little or no difference in terms of gender. Thefindings in urban schools are congruent with literatures on school violence which have shown that males perpetrate violence more than females. The findings in rural schools are however not in agreement with most studies that have examined gender patterns in violence. It may be difficult to attribute the almost equal rates
of perpetration of violence in rural schools by both males and females respondents to one particular factor, but one probable reason that can account for this is the increased rate of violencein rural areas. It may bethat females in rural areas interact more with their male counterparts within and outside of the school setting and therefore are ableto learn and adopt violent tendencies from their male counterparts.

A part from the near equal rates of violence between males and females in rural schools, a related finding in this study that will require greater attention from researchers is the observation that rural females had higher frequency of virtually all forms of school related violence compared to urban females. This may be due to the higher incidence of violent related behaviours in rural areas as stated earlier, but, this explanation may not be sufficient because there are no corresponding differences between urban and rural males. It is plausible that this is a sort of synergism between two emerging facts in violent related studies; firstly, that violence is increasing in rural areas and secondly, that violence is increasing among females as well ${ }^{26}$. Although, not much has been done on gender differences in school violence in $N$ igeria, the trend of school violence generally in N igeria actually showed there has been a consistent increase in violence in Nigeria. In a study carried out in O sun State, Nigeria in 2004, 70.6 \% of respondents had experienced bullying ${ }^{13}$. In another study conducted in the same year among school teachersin A nambra State, the rate of bullying among students was estimated at $75 \%{ }^{31}$. Similarly, a study conducted in Benin City in 2007 reported that $78 \%$ of the students experienced bullying and $85 \%$ bullied others ${ }^{32}$ while a national study conducted in the same year reported a rate of $\mathbf{8 5 \%}$ for physical violence among students at basic education level. ${ }^{16}$

With regards to violence perpetrated by male
and female academic staffs against students, students who reported that male academic staffs had perpetrated violence against them were slightly more than those reporting for female academic staffs. Perhaps, the same reasons adduced for violence perpetration by male students may sufficeto explain thehigher number reporting violence perpetration by male academic staffs against students. The hypothesis of the study that more males (students and staff) perpetrate violence than their female counterparts is thus upheld. It is also noteworthy that the number reporting femal eacademic staffs as perpetrators of school violencelike that of female students weremore in rural than in urban areas.

## C O N C L U S I O N <br> A N D RECOMMENDATIONS

School violence is prevalent among students and staff and there is a need to explore its determinants so as to be able to achieve effective control. Respondents in rural areas perpetrated most forms of school violence against school staff than those in urban areas. $M$ al es perpetrated most forms of violencemore than females in both urban and rural schools, though this was marked in urban schools. Female respondents in rural areas experienced significantly higher perpetration of most forms of school-related violencethan urban females.
In the light of the above findings, it is recommended that violence prevention should be given topmost priority and proactive measures such as development of pertinent school policies, inclusion of violence prevention in students' curricula, employment of counsellors and/or psychologists and the teaching of skills-based education should beput in placein N igerian schools. Skills-based health education can impart vital violence prevention skills such as conflict resolution skills to students. Government at all levels, through relevant stakeholderslike health and education officials should embark on public enlightenment or education on the deleterious effects of school violence. Schools located in
rural areas should be closely monitored and given priority in violence prevention programmes. The programme should be gender sensitive so as to address the peculiar aspects of violence in males and females. Finally, training and re-training of school teachers on violence prevention and control should beembarked upon.

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## REFERENCES

1. Hazemba A, Siziya S, Muula AS, Rudatsikira E. Prevalence and correlates of being bullied among inschool adolescents in Beijing; results from the 2003 Beijing global schoolbased health survey. A nn. G en Psychiatry [serial online] 2008; 7:6. Available from: http://www.annals-generalpsychiatry.com/content/ 7/ 1/ 6 . [A ccessed 2009] an 30]
2. G reene MB. Reducing violence and aggression in schools. Trauma V iolence A buse. $2005 \mathrm{Jul} ; 6$ (3): 236-253. Doi: 10.1177/ 1524838005277406.
3. Furlong M, M orrison G . The school in school violence: definitions and facts. J E mot B ehav D isord. 2000; 8(2): 71-82.
4. Burton P. Experiences of school violence in South Africa. $N$ ational Schools Violence Study (NSVS), Centre for Justice and Crime Prevention. M onograph Series No. 4. Cape Town, A pril 2008. In van der W esthuizen C N, Maree JG . The scope
of violence in a number of G auteng schools. Acta Criminologica. 2009; 22(3).
5. Alabi AO. School violence and guidelines for establishing disciplinary committee in schools. J Educ Admi Policy Stud. 2010 May; 2(4): 63-66.
6. U nited $N$ ations Secretary General's Report on Violence 2006. W orld report on violence against Children. A vailable from: www.violencestudy.org [A ccessed 2009Jan 5].
7. Benbenishty R, Astor RA. School violence in an international context. A call for global collaboration in research and prevention. Intl J V iolence Sch. 2008, 7 D ec; 2002: 5960.
8. Singer MI, Anglin TM, Song L, Lunghofer L. A dolescents' exposure to violence and associated symptoms of psychological trauma. J A m M ed. 1995; 273(6): 477-482.
9. Leach F et al. A $n$ investigative study of the abuse of girls in A frican schools. Education Research Report No 54. London; Education Department, DFID;2003.
10. U nited $N$ ations Secretary General's study on Violence against Children. Regional C onsultation outcome reports. 2005. Available from: http:// www.violencestudy.org /r27. [A ccessed 2009 Jan 25].
11. Mail \& Guardian online. N igerian muslim students beat teacher to death. M ail \& G uardian online. M onday Mar 22 2007. H ttp:// www.mg.co.za/ article/ 2007-03-22-nigerian-muslim-students-beat-teacher-to-death. [A ccessed 2008 Oct 4]
12. Valois RF, M acD onald JM., Bretous L, Fischer MA, Drane JW. Risk factors and behaviours associated with adolescent violence and aggression. Am J Health Behav 2002; 26(6): 454-464.
13. Popoola BI. Prevalence of peer victimisation among secondary school
students in N igeria. Intl E duc. J. 2005; 6(5): 598-606.
14. Mink MD, Moore CG, Johnson A O, Probst JC, M artin AB. Violence and rural teens; teen violence, drug use and school based prevention services in rural A merica. Columbia: South Carolina rural health research centre [Online]. Available from: www.ruralhealthresearch.org/ projects/ 100000131 [A ccessed 2009] an 5].
15. National Population Commission. Federal Republic of $N$ igeria. $N$ ational D emographic H ealth Survey (N D H S) 2008. N ovember 2009.
16. Federal Ministry of Education/ UNICEF. A ssessment of violence against children at the basic education level in Nigeria. Abuja. September 2007.
17. National Population Commission, Nigeria. N igeria Population Census 1991 analysis N ational and State population projections. 2002. pg 11.
18. Federal M inistry of Education. Basicand senior secondary education statistics in $N$ igeria, 2004 and 2005. A buja 2005.
19. A ndersson N , and H o-F oster A. 13,915 reasons for equity in sexual offences legislation; a national schoolbased survey in South A frica. Int J E quity $H$ ealth. 2008; 7: 20. D oi: 10.1186/ 1475-9276-7-20.
20. Research into Violence and A ggression (R.I.V .A ). Experiences of violence questionnaire. A vailable from: www.researchintoviolence.org/ viole nceandaggression (A ccessed 2009 J an 15).
21. WH O. H ealth Behaviour in School- A ged Children (H BSC); A W orld H ealth Organization's Cross- N ational study, Q uestionnaire 1997/ 98.
22. Ikoya PO. M anaging the impact of societal crime and violence on school systems: implications for safer schools. J E duc Res. 2005; 24: 1928.
23. van der Westhuizen $\mathrm{CN}, \mathrm{M}$ aree JG. The

[^0]:    *- Statistically significant relationships at $p<0.05$ using chi- square test.

