The Influence of Parent’s Socio Economic Status on Adolescents and Youths Health Risk Behaviors in Enugu Nigeria

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Abstract: Risk behaviors among the youth are associated with considerable negative health and developmental outcomes. The aim of the study was to examine the relationship between parent’s socioeconomic status and the risk behaviors practiced by adolescents and youths in Enugu. It was a cross-sectional descriptive study. Data was collected from students in 2 tertiary institutions, who were selected consecutively using semi-structured interviewer administered questionnaire. Data was analysed using SPSS version 20.0. The level of statistical significance was set at p<0.05. There was a high prevalence of priority health risk behaviors among the adolescents and youths. 35.8% drove recklessly, 41.2% used alcohol and 4.4% used “hard” drugs. 34.6% had unprotected sex, 18.7% smoked cigarette, 23.8% practiced unhealthy dietary behaviors while 38.1% indulged in sedentary lifestyle. Age, gender and socioeconomic class had profound influence on the practice of risk behaviors. The age range 15-24 years and the male gender were more involved. Sedentary lifestyle and unhealthy dietary habits were commoner among students from the upper socioeconomic class. Youths from all socioeconomic strata are susceptible to health risk behaviors, thus prevention efforts for these health concerns should be universal.

Keywords: Risk Behaviours, Socio Economic Status, Adolescents, Youths, Enugu

1. Introduction

Youth health risk behaviors are those behaviors practiced by young people that put their health at risk. Priority health risk behaviors which contribute to the leading cause of mortality and morbidity among youths and adults, are often established during youth, extend into adulthood, are interrelated, and are preventable. Some of these risk behaviors include smoking, cultism, alcoholism, teenage pregnancy, self injury, teenage suicide, domestic violence, child sexual abuse, panic disorder, eating disorder, social phobia, sexual violence, rape, sexual addiction, drug abuse, drug addiction. These risk behaviors contribute markedly to the leading causes of death, disability and social problems among youths and adults. [1]

Socioeconomic status is the relative position or standing of someone in the society in relation to his social, economic or educational attainment. Nigeria’s population is predominantly young. The estimated median age is 17.4 years and about 63% of the population is less than 25 years. [2]

Adolescent is a developmental period characterized by rapid physical, psychological, social/cultural and cognitive changes. Unfortunately this is a period fraught with many threats to health and well-being in which many suffer substantial impairment and disability. [3] Although many adolescents navigate the sometimes turbulent course from childhood to adulthood to become productive and healthy adults, there is growing concern that far too many others may not achieve their full potential. Many adolescents today and perhaps increasing numbers in the years to come are at risk for adverse health outcome stemming from their behaviors. Contemporary threats to adolescent health are primarily the consequence of risk behaviors and related outcome.

Alcohol consumption is a leading contributor to accidents, homicides and suicides, the three leading causes of teen
Cigarette smoking is the primary preventable cause of death in the United States. The majority of all American adult deaths results from cardiovascular disease and cancer, with many of the associated risk factors being initiated during adolescence. [3] Smoking has numerous negative effects such as lung cancer, other cancers, shorter life span, low birth weight, prematurity, higher perinatal mortality and more labor complications. [4] In Nigeria, smoking was once predominantly a male habit, but is now increasing quickly among women [4]. Most smokers first begin their habit when less than 18 years. One in five youths has smoked a whole cigarette and one in ten youths has tried marijuana before turning 13 years of age. [5] Substance abuse and other health risk behaviors carry an enormous price tag in terms of the toll on life, quality of life and economic costs. Drug use results in rising number of patients in mental hospitals and treatment centers. A particular concern of drug use is transmission of HIV and hepatitis B via needles. [4] Poor dietary behaviors and high rate of physical inactivity contribute to obesity with a potential complication of type II diabetes mellitus. This may further result in cardiovascular diseases, kidney failure and blindness. Besides these, overweight and obese children and adolescents are at risk of becoming overweight adults with problems of coronary artery disease, hypertension, stroke, respiratory problems, gall bladder disease, osteoarthritis, sleep apnoea and some forms of cancer. Obese individuals also face decreased productivity, social stigmatization, high health care costs and premature death. Youth who drink are more likely to have unplanned and unprotected sexual intercourse. [4] Young people are trying illicit drugs at early ages with almost one in three individuals having first experimented with alcohol (other than a few sips) before the age of 13 years. [5]

Youths in our country are increasingly linked to risky sexual behaviors and adolescent reproductive health and reports on the current situation in the country are hardly optimistic. No other single age group sustains the negative health outcomes from their sexual behaviors as do adolescents 10 to 19 years of age [6]. Early onset of sexual intercourse is associated with increased lifetime prevalence of sexual partners thereby increasing the risk of exposure to sexually transmitted diseases including HIV/AIDS, unwanted pregnancy and risk of human papilloma virus infection, due to cervical immaturity, and thus the risk of cervical cancer [6, 7]. Many of the health risk behaviors of the 21st century result from voluntary behaviors. They were once considered the result of faulty decision making but are now recognized as dynamic conditions (some with genetic predisposition) evolving across the lifespan. [8]

Some research has been done to document various types of health risk behaviors but few had focused on understanding the mechanisms and contextual factors responsible for the process of behavior change. Few studies to date have addressed these issues in the study environment. Understanding factors that influence youth’s decision to indulge in risky behaviors will inform prevention and intervention strategies and subsequently reduce unintentional injuries and death.

2. Methods
2.1. Study Area

The study was carried out in two of the three main tertiary institutions in Enugu, the capital city of Enugu state, South East Nigeria. They are: University of Nigeria, Enugu Campus (UNEC) and institute of management and Technology (IMT). The two institutions are located close to each other in the central urban part of the Town. They are co-educational and they provide accommodation facilities for the majority of the students. Very few students attend the schools from their homes. Each of the two institutions has a student enrollment of over 10,000 undergraduates, in different faculties and departments. The students are drawn from the various states of the federation. There is a high rate of interaction between the students in these schools both in academic and extra-curricular activities in a bid to develop their personalities to a high level.

2.2. Study Design

The study was a descriptive cross sectional study using representative samples of students in various faculties and departments.

2.3. Study Population

The study population comprised only of undergraduate students aged 15-29 years who gave consent for the study.

2.4. Consent

Ethical clearance was obtained from the Research and ethics committee of the UNTH Enugu. Permission was gotten from the Ministry of Education, Enugu State of Nigeria to use the schools for the study. Further permissions to use the selected students were obtained from the respective heads of the departments while assent was obtained from the adolescents and youths.

2.5. Data Collection

A validated pre tested interviewer administered questionnaire was used to collect data from the participants. This includes data on demographic characteristics as well as their practice of health risk behaviors.

2.5.1. Anthropometric Measurement

Weights were measured using standardized bathroom scale. Each measurement was recorded to the nearest 0.1 kilogram and the scale was recalibrated after every twenty measurements. Their heights were measured to the nearest 0.1cm, using stadiometer following standard protocols. Their body mass indices (BMI) were calculated using the formula:

\[
\text{BMI}= \frac{\text{Weight in kilograms}}{(\text{Height in metres})^2}
\]
2.5.2. Social Class Determination

The social class of each student was determined using the method advanced by Oyedeji. [9] Here, the social class was obtained with the highest educational attainment and occupation of the mother and father combined. The average of the four scores (two each for the father and mother respectively, that is, occupational status and highest educational attainment) to the nearest whole number was assumed as the social class of each student studied. The highest score is 1 while the lowest is 5. Social classes I and II; III; IV and V were classified as high, middle, and low socioeconomic class respectively. In situation where one of the parents is late, the social class of the surviving parent is used.

2.5.3. Data Analysis

The data was analysed using statistical package for social sciences (SPSS) version 20.0 Chicago Il. The level of statistical significance was set at p<0.05.

3. Results

Eight hundred and sixty-one (861) students were studied. This consists of 544 males and 317 females giving a male: female ratio of 1.7: 1. Majority of the students (94.4%) were single. Their mean body mass index was 23.31±2.57 kg/m² (Table 1).

| DEMOGRAPHIC VARIABLE | FREQUENCY (N=861) | PERCENT |
|----------------------|------------------|---------|
| Age group (years):   |                  |         |
| 15–19                | 41               | 4.8     |
| 20–24                | 600              | 69.7    |
| 25–29                | 220              | 25.6    |
| Gender:              |                  |         |
| Male                 | 544              | 63.2    |
| Female               | 317              | 36.8    |
| Marital Status:      |                  |         |
| Single               | 813              | 94.4    |
| Married              | 48               | 5.6     |
| Socioeconomic Status:|                  |         |
| Upper class          | 566              | 65.7    |
| Middle class         | 124              | 14.4    |
| Lower class          | 171              | 19.9    |
| Mean weight (kg):SD  | 66.38±8.46       |         |
| Mean height (m):SD   | 1.69±0.08        |         |
| Mean BMI (kg/m²):SD  | 23.31±2.57       |         |

The age groups 20–24 years were more involved in risky behavior. Out of 861 students that were studied, 802 (93.1%) students were involved in at least one type of risk behavior. 59 (6.9%) students were not involved in any risk behavior. 18.6% of students aged 15–19 years did not engage in any risk behavior whereas only 3.7% of students in the same age range engaged in risk behaviors. This was statistically significant. On the other hand, 28.8% of students aged 25–29 years did not engage in any risk behavior compared with 25.3% of students in the same age range who practiced risk behaviors. However, the age range 20–24 years was most affected in the practice of risk behaviors. 71% of them were involved in risk behaviors whereas 52.5% of them did not practice any risk behavior. This was statistically significant. There were more males in both groups 513 (64.0%) in the risk behavior group and 31 (52.5%) in the non risk behavior group. Majority of the respondents belonged to the upper socioeconomic class both in the risk behavior group 531 (66.2%) and non risk behavior group 35 (59.3%). There was no significant difference in the Gender, marital status and socioeconomic class of both groups. There was significant difference between the mean weight of the risk behavior group (66.5±8.5) and the non risk behavior group (64.2±7.9). However, there were no significant differences in the mean height and BMI of both groups. (Table 2)

| DEMOGRAPHIC VARIABLE | RISKY BEHAVIOR | No (%) | STATISTICS | P-VALUE |
|----------------------|----------------|--------|------------|---------|
| Age group (years):   | Yes (%) [n=802]| No (%) [n=59]|            |         |
| 15–19                | 30 (3.7)       | 11 (18.6)| 29.413     | 0.000*  |
| 20–24                | 569 (71.0)     | 31 (52.5)| 1.915      | 0.166   |
| 20–24                | 569 (71.0)     | 31 (52.5)| 1.915      | 0.166   |
| 25–29                | 203 (25.3)     | 17 (28.8)| 13.167     | 0.000*  |
| 15–19                | 30 (3.7)       | 11 (18.6)| 29.413     | 0.000*  |
| 25–29                | 203 (25.3)     | 17 (28.8)| 13.167     | 0.000*  |
| Sex:                 |                |         |            |         |
| Male                 | 513 (64.0)     | 31 (52.5)| 3.083      | 0.079   |
| Female               | 289 (36.0)     | 28 (47.5)| 3.083      | 0.079   |
| Marital Status:      |                |         |            |         |

Table 1. Demographic characteristics of the respondents.

Table 2. Demographic characteristics of respondents in relation to risky behavior.
Use of alcohol has the highest prevalence of 355 (41.2%) while use of cocaine, heroine, marijuana or other “hard” drugs has the lowest prevalence of 38 (4.4%). (Table 3)

The age group 20-24 years has the highest prevalence for all the risk behaviors except for eating too little or fasting for more than 6 hours in a day, which is more prevalent in the age group 25-29 years. This was statistically significant for use of alcohol, reckless driving, and use of tobacco. (Table 4)

The following risk behaviors: use of alcohol 310 (57.0%), reckless driving 207 (38.1%) unprotected sex 150 (27.6%), use of tobacco/cigarette 155 (28.5%), physical fight 55 (10.1%) and use of ‘hard’ drugs 37 (6.8%) were found to be commoner in the males whereas the remaining risk behaviors were commoner in the females. All these were statistically significant (P<0.05) except for reckless driving. (Table 5)
Respondents from the upper socioeconomic class indulged more in use of alcohol 241 (42.6%), staying idle 241 (42.7%), reckless driving 216 (38.3%), eating too much fatty foods 156 (27.6%). Those from the middle class indulged more in eating too little 45 (36.3%) while the low socioeconomic class respondents indulged more in unprotected sex 58 (33.9%), use of tobacco/cigarette 36 (21.1%), physical fight 22 (12.9%) and use of ‘hard’ drugs 20 (11.7%). Many of these differences were statistically significant. (Table 6)

### Table 6. Practice of health risk behaviors in relation to socioeconomic status of parents.

| HEALTH RISK BEHAVIOR                           | SOCIOECONOMIC STATUS               | X²      | P-VALUE |
|------------------------------------------------|-----------------------------------|---------|---------|
|                                                | Upper class (n=566)               | Middle class (n=124) | Lower class (n=171) |         |
| Use of alcohol                                 | 241 (42.5)                        | 43 (34.7) | 71 (41.5) | 2.629 | 0.269 |
| Staying idle e.g. watching films/TV, playing games for more than 4 hours in a day | 241 (42.7)                        | 43 (34.7) | 44 (25.9) | 16.330 | 0.000* |
| Reckless driving or driving under the influence of alcohol or not wearing a helmet or seat belt when in a car/bike | 216 (38.2)                        | 44 (35.5) | 48 (278.2) | 9.445 | 0.051 |
| Eating too little or fasting for more than 6 hours in a day | 184 (32.5)                        | 45 (36.3) | 58 (34.1) | 0.707 | 0.702 |
| Sex without use of protective measures e.g. condom | 125 (38.2)                        | 29 (23.4) | 58 (33.9) | 10.027 | 0.007* |
| Eating too much especially fatty foods | 156 (27.6)                        | 20 (16.1) | 29 (17.0) | 12.849 | 0.002* |
| Use of tobacco/cigarette | 106 (18.7)                        | 19 (15.3) | 36 (21.1) | 2.076 | 0.722 |
| Engaging in a physical fight or other forms of violence that may result to physical injury | 34 (6.0)                         | 6 (4.8) | 22 (12.9) | 11.109 | 0.025* |
| Use of cocaine, heroine, marijuana or other ‘hard’ drugs | 16 (2.8)                         | 2 (1.6) | 20 (11.7) | 27.179 | 0.000* |

*Statistically significant.

4. Discussion

This study confirms substantial rate of health risk behaviors among students in tertiary institutions in Enugu. 802 (93.1%) students were involved in at least one type of risk behavior whereas only 59 (6.9%) students were not involved in any risk behavior. During the 3 months preceding the study, it was found that numerous youth engaged in behaviors that increase their likelihood of death. The factors noted to be associated with health risk behaviors include: age, gender, marital status, parental socioeconomic status and parental practice of same behavior. There was significant difference in the prevalence of health risk behaviors among the various age groups of the respondents. The age group 20-24 years practiced most of the risk behaviors more than the other age groups. The reason is that most youths in this age range are in tertiary institutions, living away from home where parental supervision or influence may be lacking or inadequate. However, there was no significant difference in the practice of unprotected sex among the various age groups. This contradicts the finding in a Nigerian study [10] where older male and female youths were more likely to use condom protection. Significant gender difference was observed in the prevalence of health risk behaviors. Males engaged more in drug and alcohol use, however, females were found to be more likely to engage in antisocial behaviors in a study done in Ibadan, Nigeria. [10] Likewise some of the risk behaviors studied like sedentary lifestyle was commoner in females. There is significant difference in the socioeconomic background of the students who practice the various types of risk behaviors.

Sedentary lifestyle and unhealthy dietary practices which predispose to overweight and obesity were found to be commoner in youths of the upper socioeconomic class. On the other hand, unprotected sex, physical violence and use of ‘hard’ drugs were significantly more common among those from the lower socioeconomic class. An American study [11] noted that cigarette smoking was also commoner among the lower social class which agrees with this study, whereas sedentary life style and unhealthy dietary practice were also commoner among the lower social class contradicting the finding in this study. Another study in America [12] showed that overweight which results from the two risk behaviors above was commoner among higher income households which is in keeping with the finding in this study. However, Jin-won et al in Korea [13] found an inverse association between parental SES variables and the overweight status of children and adolescents. Their method of assessment of parental socioeconomic status was subjective and this may have influenced their findings. Other studies [14, 15] showed weak relationship between socioeconomic status and risk behaviours. Parents’ involvement in risky behavior did not significantly affect a youth’s practice of same behavior. This
study revealed that most risk behaviors practiced by the youth were not practiced by their parents. This contradicts an American study [16] where father’s involvement predicted a reduced likelihood of subsequent engagement in risky behavior among adolescents.

A comparison between the socioeconomic class of those students who practice risky behavior and those who do not practice any risk behavior did not reveal any significant difference. 66.2% of the students, who practice risky behavior and 59.3 of those who do not practice, belonged to the upper socioeconomic class, while 19.7% of the risky group and 22.0% of the non risky group belonged to the lower socioeconomic class. Hence there is no significant difference in the socioeconomic background of students who practice and those who do not practice risky behavior. Adolescents with high aspirations of life opportunities are more likely to delay risk behavior. Therefore, efforts to reduce youth risk behaviors should move beyond the health care system and include parents, schools and communities.

5. Conclusion

Health risk behaviours are common among adolescents and youths in the studied area and are found among all socioeconomic classes. Thus prevention efforts for these health concerns should be universal.

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