Locus of Control and Vulnerability to Peer Pressure: a Study of Adolescent Behavior in Urban Ghanaian Context

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Abstract
Peer pressure is one thing that every individual is vulnerable to and has faced before at some point in their lives. It is becoming a serious health problem, especially for adolescents as well as concerned parents because, though not all peer pressure leads to health-related concerns or is negative, most are that need curbing, or treatment. Thus, NGOs, youth organizations, social welfare as well as parents, are looking for different ways to tackle this health-related issue in society. This research investigated locus of control on vulnerability to peer pressure in the African context. A survey was conducted using 144 adolescents from 2 Senior High Schools in Ghana with ages ranging from 15 to 19 years old. The following data collection instruments were used: Informed consent, Demographic data which used to group the students into categories based on age, class form and gender; the Nowicki-Strickland test (1973) and the Steinberg and Monahan resistance to peer influence scale (2007) measuring Locus of Control and Resistance to Peer Influence respectively. Statistical methods such as the independent t-test and Pearson Product Moment Correlation Coefficient (Pearson r) were used to study the relationships between age, locus of control, and resistance to pressure in the urban context. The findings revealed that there was no significant effect of locus of control on vulnerability to peer pressure, which still indicates that our study may be more bent towards the general idea that individuals with an internal locus of control are more likely to resist the pressure to conform by their peers.

Keywords: Adolescents; Locus of control; Peer Pressure; Health problems; Internal and External locus of control; Resistance

Introduction
Background of the study
Peer pressure also known as social pressure refers to the pressure to behave differently that is exerted by peers [1]. Peer refers to same aged friends who share same activities [2]. Peer groups are considered to have significant influence on adolescents in that most teenagers prefer to do things their peer groups suggest they do. The prevalence of smoking increases dramatically during adolescence [3]. It should be noted that not all peer influence is bad [4-7]. Organizations such as Red Cross use peer educators to teach teenagers about safe sex because they have found that teens are more likely to listen when the positive messages come from those in their age group. Susceptibility to peer pressure can be linked to several factors, including the level of persuasive skill of the influencer, the perceived authority of influencer as well perceived degree of choice by the individual, amongst others. Locus of control is a concept that was brought to light in the 1950s, and it is defined as people’s very general, cross-situational beliefs about who or what has control over the outcome of events in their lives [5,3]. Individuals are classified under having either internal or external locus of control, where those with internal locus of control, also called internalizers, believe that they have control over their lives as opposed to individuals who have external locus of control (externalizers) who believe that external forces such as luck and chance determine the outcome of events in their lives and they have no control over these forces [8]. These tendencies characterize a person’s perspective about self-independence and influence over others [9]. A study by [10] showed that their aggressive peer groups influence men with external locus of control in a way that promotes intimate partner aggression (IPA). There is proof in terms...
of research showing a link between peer pressure (social pressure) and locus of control.

In some cases, people can resist the pressure to conform or obey because of their personality. For example, research supports the idea that individuals with an internal locus of control are more likely to resist social pressure [11]. Rotter’s locus of control to determine whether the locus of control is linked to conformity. Using 157 students, he concluded that individuals with a higher external locus of control (externalizers), are more likely to conform as compared to internalizers. According to an article published by the Canadian Lung Association (2016), “my friends smoke” and “I thought it was cool” are two of the main reasons individuals between the ages of 12 and 17 start smoking. They also found that 70% of teens who smoked have friends who smoke or started smoking because of peer pressure. A study in Ghana by Bingenheimer suggests that the desire to impress friends or conform to perceived peer norms may be an essential driver of sexual initiation among young people, especially in sub-Saharan Africa.

Statement of Problem

Peer pressure influences teenagers to do things they would not normally do, most of which are negative and, in some cases, go against the moral upbringing of adolescents. Research shows that it is at this stage in life that individuals experience first-hand peer pressure and are more susceptible to succumb to it. If they do not conform, they are ridiculed. If they yield to the pressure, they are labeled as “cool” among their peers, and these “cool” teens also enjoy a sense of belonging. Such early indulgence in deviant acts can affect a youth for the rest of his or her life. There has been little research done in Ghana with respect to adolescents and peer pressure [12-15].

Purpose of Study

The purpose of the study is to investigate the effect of locus of control on resistance to peer pressure in adolescents. The study seeks to find out whether the type of locus of control a person has be it internal or external, has any influence on the person’s level of resistance to peer pressure.

Objective of Study

The study aims to examine the relationship between locus of control and resistance to peer pressure among adolescents in senior high schools in Ghana and also add to the small body of research existing with data covering the relationship between locus of control and resistance to peer pressure among adolescents in Ghana.

The specific objectives

a) To examine whether female students with an internal locus of control are more likely to resist peer pressure.

b) To determine if there is a positive relationship between sex, locus of control and resistance to peer pressure.

c) To examine if there is a relationship between locus of control and resistance to peer pressure.

d) To enquire if males with external locus of control are more likely to resist peer pressure as compared to females with external locus of control.

Research questions

a) Are female internalizers more likely to resist social pressure?

b) Is there a positive relationship between older adolescent internalizers and resistance to social pressure?

c) Are there gender differences among externalizers with resistance to social pressure?

d) Is there a link between locus of control and resistance to social pressure?

Statement of hypothesis

a) Female students with an internal locus of control are more likely to have a higher resistance to peer pressure than their male counterparts.

b) Male adolescents are more likely to have a higher resistance to peer pressure scores than female adolescents.

c) There is a positive relationship between locus of control and resistance to peer pressure.

Significance of study

This study will provide ideas about how locus of control can influence resistance to peer pressure and identify the type of locus of control that has a high resistance to peer pressure. This knowledge will help educators, parents, and all interested persons to be able to design interventions to aid adolescents in resisting social pressure/peer pressure. This study seeks to also encourage individuals to conduct more research in this area as well as others with respect to the Ghanaian population.

Delimitation of study

The population of interest consists of 150 students between the ages of 13 and 19 years.

Limitation of study

The following limitations characterized the study. Due to the sensitivity of the information the researcher was looking for, participants may have provided socially desirable responses despite measures taken during data collection to ensure privacy and confidentiality of the information shared by participants. Also, the
study was conducted only in selected schools in the Greater Accra region and the findings may not be representative enough to reflect the cases in the entire country, hence they cannot be generalized. In addition, the survey was executed within a school setting, which eliminates the responses of adolescents outside school.

**Operational Definition of Terms**

**Peer pressure**

a) For this study, peer pressure, also known as peer influence or social pressure, refers to the influence by peers to indulge in unhealthy and wrong behaviors such as drug use, pre-marital sex, amongst others.

b) Locus of control.

c) This refers to the degree to which a person believes he or she has control over the outcomes of events in their lives. It has two categories:

d) Internal locus of control, where individuals believe they have control over the outcome of events in their lives, and their lives as a whole.

e) External locus of control is where individuals believe they do not have control over the outcome of events in their lives and their lives as a whole is ruled by chance or some other uncontrollable force. Resistance.

f) Resistance signifies a person’s ability to not conform to the pressure exerted by peers to act or behave in a way contrary to their will.

g) Adolescents.

h) Adolescents in this study refer to individuals between the ages of 13 and 19 years old.

**Theoretical Framework**

**Erik Erikson’s theory on psychosocial development**

According to Erikson (1950), every human being goes through a developmental crisis at each stage of his/her life. Erikson came up with 8 stages at which we face a developmental crisis. His second stage, autonomy versus shame and doubt, occurs between the ages of 18 months and approximately age 2 or 3, and at this stage, the child struggles with autonomy and guilt. Erikson explained autonomy as a sense of independence [16-20]. If the child is successful in this stage, he achieves a sense of autonomy; he believes he has control over physical skills and a sense of independence. Failure leads to a feeling of doubt in one’s abilities and competence. Erikson proposes that parents allow their children at this stage to explore the limits of their abilities within an encouraging environment, which is tolerant of failure. The aim is to be “self-controlled without a loss of self-esteem”. If the child feels encouraged and supported in his independence, he becomes confident and hopeful as well as secured in his abilities to survive in the world. A study involving 29 males and 79 males taking the following tests, the 1986 Miller Hope Scale, Beck’s 1988 hopelessness Scale, Erikson’s psychosocial stage inventory, Levenson’s 1972 locus of control scale and rating their present state of hopelessness on a 10-point scale. They found that a lack of hope correlated positively with the belief that external forces control the events in one’s life, that is, external locus of control. This suggests that infants who are not successful in this stage of Erikson’s development are more likely to be externalizers. Also, Erikson’s third stage of psychosocial development initiative versus guilt [21,13].

According to Erikson, this occurs between the ages of 3 to 5. At this stage, children assess themselves more frequently. In this time, the primary feature involves the child regularly interacting with other children at school. Play is essential in this stage as it provides children with the opportunity to explore their interpersonal skills through initiating activities. If children are given the opportunity to initiate their activities, they develop a sense of initiative and feel secure in their abilities to lead and make decisions. If they are restricted, they develop a sense of guilt. They tend to prefer being followers and lack self-initiative. [20] he found out that success in 3 of Erikson’s stages, including stage 3, is linked with an internal locus of control [22].

**Social Learning Theory**

The social learning theory, as proposed by [11], represents a combination of learning and personality theories. According to [6], individuals before exhibiting a behavior consider the possible outcomes of that behavior and act on their beliefs. The relationship is symbolized by $BP = E+RV$ with $BP$ being behavior potential, $E$ being expectancy, and $RV$ being reinforcement value. The theory is compromised by 4 variables:

a) Behavior potential refers to the probability that an individual will act in a specific fashion relative to alternative behaviors.

b) Expectancy is the individual’s belief concerning the likelihood that a specific reinforcement will occur as a consequence of a particular behavior.

c) Reinforcement value refers to how much the individual values a particular outcome relative to other potential outcomes.

d) The psychological situation implies that the context of behavior is important. How the individual views the situation can affect both reinforcement value and expectancy.

His theory differs from the behaviorist’s social learning theory in the sense that according to [6], what drives a person’s behavior is not merely the environmental reinforcement but rather what the person thinks about that particular reinforcement [23-25].
developed his theory of locus of control based on these concepts. This theory, therefore, suggests that locus of control can be learned based on the person’s beliefs about what causes a particular outcome or reinforcer [26-32].

Theory of Learned Helplessness

While conducting a classical conditioning experimental research accidentally discovered the theory of learned helplessness. They noticed how the dogs that had received unavoidable electric shock failed to act in following situations, even with those with which avoidance was possible. The study was replicated with humans using loud noise in place of the electric shock [6,11]. They proposed the term learned helplessness to describe the expectation that outcomes are uncontrollable [12]. Evidence has supported that locus of control affects learned helplessness. All had similar results indicating that individuals with an external locus of control exhibit a higher level of learned helplessness as compared to individuals with an internal locus of control.

Conceptual

This section of chapter two deals with the main variables of the present study and how it influences resistance to peer pressure, which is how locus of control influences resistance to peer pressure. Locus of control refers to the general and cross-situational beliefs of individuals about who or what has control over the outcome of events in their lives [17]. There are only two dimensions of locus of control. One is either an internalizer, which has an internal locus of control or an externalizer, having an external locus of control. Individuals with internal locus of control generally believe the outcome of events in his/her life is determined by his/her hard work, attributes, or decisions. On the other hand, individuals with internal locus of control believes that the outcome of events in his/her life is out of his/her control and is determined by “fate”, or luck and is independent of his/her hard work or decisions. For instance, in a situation where an individual fails an exam, if the individual has an external locus of control, he/she may pass comments like “I didn’t study enough that’s why I failed”, whereas if he/she has external locus of control he/she may pass comments such as “the lecturer doesn’t like me that’s why he failed me”.

Several factors influence the development of a person’s locus of control. For instance, the inability to achieve autonomy during childhood development is linked with an external locus of control [12,5,8]. Also, success in achieving initiative during childhood development is linked to an internal locus of control [9,23]. From understanding what locus of control is, one would easily think or expect it to influence an individual’s ability to resist pressure from peers, and research does, in fact support it [11]. Due to the characteristics of internalizers, yielding to peer pressure is not likely though not impossible as compared to a higher chance of yielding to peer pressure by externalizers.

Review of Empirical Data

This part of the chapter looks at the works of other researchers on the topic or similar areas. It is vital to compare research findings to come to a better understanding of the relationship between the main variables of the issue of concern. The empirical review will be done under three sub-sections, namely: Gender and peer pressure, Age and resistance to peer pressure, the relationship between locus of control and peer pressure, as well as gender and locus of control.

Gender and Peer Pressure

Several studies indicate gender differences in the extent to which adolescents are affected by peer pressure. In a retrospective study [16] to determine the pressure peers exerted in various aspects of high school and how said pressure influences teenager’s attitudes and behaviors. In 297 college undergraduates, found that about 33% of the students experienced peer pressure and identified it as one of the hardest things they had to face. Besides finding that peer pressure was most influential for females, [4] realized the participants answered were not in harmony as to which areas peer pressure was strongest. [5,18,16] study involving 620 participants (46% females and 54% males) showed that conventional peer characteristics strongly influence intrinsic motivation. According to them, “conventional peer characteristics refer to behaviors that are considered positive or socially acceptable”. For example, an adolescent will have a strong intrinsic motivation to smoke, practice unsafe sexual activity, cheat during an exam if his/her friends endorse such behaviors.

Moreover, their results showed that the positive relationship between intrinsic value and conventional peer characteristics was stronger in females. Thus, females will feel a stronger intrinsic urge to indulge in activities their peer validate as compared to their male counterparts whose intrinsic motivation is not as affected by the same. This finding, therefore, highlights gender differences in peer pressure. The conventional peer pressure characteristics and negative peer orientation (NPO) issues assessed by [15] contained 6 and 4 items respectively which dealt with adolescent performance in school and breaking parent’s rules. There was a significant relationship between the NPO and the grade point average (GPA) of adolescents (r=.16, p<.01). It was concluded that the difference in how each gender is affected by peers can be attributed to social and behavioral pressures exerted by a desire to conform to gender role norms. Contrary to the above studies, Steinberg and Silverberg (1986)’s study involving 865 10-16 year olds in grades 5 (N=209), 6 (N=215), 8(N=231) and 9(N=210) in the Madison Unified School District from a variety of socio-economic backgrounds. The participants completed a questionnaire battery assessing three aspects of autonomy–emotional autonomy in relationships with parents, resistance to peer pressure, and the subjective sense of self-reliance. Results showed females at all age levels had a higher
score in all three measures of autonomy contrary to the notion about astonishing levels of autonomy in adolescent males.

**Age and resistance to peer pressure**

It is believed amongst developmental psychologists that in adolescent years, individuals are more influenced by peers than by parents. However, according to researchers, this occurrence is influenced by the type of behavior concerning the individual being influenced. A study involving 398 11-year olds and 449 14-year olds classified as pre-adolescents and adolescents respectively aimed at examining the influence parents had on children smoking behavior in comparison with the influence peers had on the same behavior. The results validated the belief that peers have more influence on each other than parents do [3,17]. In an investigation with similar results, [11] investigated changes in development with respect to conformance with parents and with peers as well as the relationship between both. This investigation was conducted in two parts. The first part (Study 1) involved 251 children from multiple grades responding to hypothetical situations where peers urge the child to engage in some specific behaviors. The second part of the study (study 2) involved 273 children from multiple grades as well. In this instance, the participants responded to situations that aimed at investigating conformance to peers on “antisocial and prosocial” behaviors and conformance to parents on “prosocial and neutral” behaviors.

Results from both parts of the study showed that in the 9th-grade peer conformity was at its highest. Conformity to parents was on a decrease as age increased. However, it is good to note that not all measures showed a negative correlation between conformity to peers and conformity to parents. Just as the results from the research above as well as others show an inverted U pattern with respect to adolescents and conformity to peers, a study on age differences in resistance to peer influence showed a peak between the ages of 14 and 18 with respect to peer conformity as compared to other age groups [21]. This study comprised a total of 3,600 males and females with ages ranging from 10 to 30. The study took the form of one longitudinal and two cross-sectional studies. All are concluded that mid-adolescence was the period an individual developed his or her autonomy over their behaviors as opposed to engaging in a behavior as a result of peer conformity.

**The relationship between resistance to peer pressure and locus of control**

General research supports that individuals with an internal locus of control are more likely to resist pressure from their peers. Undertook a study using the qualitative method in collecting their data. Of the 532 non-Jewish survivors of World War II who participated in the study, results showed that 406 of them were likely to have a higher internal locus of control as compared to the 126 who “simply followed orders”. The results were obtained by comparing those who identified as resisting orders against the Jews and those who did not. Though it is strenuous to conclude that locus of control was the sole factor that influenced their decisions, the results of the study do suggest that internal locus of control causes an unwillingness to follow orders. Furthermore, [6], in determining if locus of control is linked with conformity, assessed 157 undergraduates using Rotter’s locus of control scale. In support of findings, [6] found that individuals who identified with a high internal locus of control were less likely to conform. However, he tested locus of control across normative and informational social influences, and although his results did not show any difference with informational social influence, it appeared that in instances of normative social influence there was a negative correlation with internal locus of control. That is to say, individuals with an internal locus of control do not conform in order to “fit in”.

**Gender and locus of control**

In West Scotland, with the aim of determining gender differences in locus of control in terms of alcohol dependency, a study was conducted using 108 participants from alcohol dependence treatment centers. With the multidimensional health locus of control form-C as the test tool for locus of control and independent t-test as the analysis. Results yielded women having higher internal locus of control as compared to men. There is however, no statistical significance in this finding. Contrary to [14,17], however, [22] had results from their study; involving 281 adolescents aged between 14-18 years; showing that males score higher with respect to an internal locus of control than females do. Their study aimed at gender differences in locus of control. It could, however, be debated that this contrast is a result of the differences in age groups used for each study.

In another study on the gender differences in taking responsibility for academics, administered the Intellectual Achievement Responsibility (IAR) on 425 school children. Results from the study showed that females scored higher in internal locus of control with respect to success and failure outcomes however, only at the end of the school year. Females also echoed success as a product of effort a lot more than males. Researchers of the study nonetheless pointed out that gender differences though present, were small. In sync with findings of gender differences in locus of control from [16,7,13] in their search on the relationship between locus of control, level of ability and gender, using 14 and 15 year old Norwegian students found that females had notably higher internal locus of control scores than males.

**Summary of empirical review**

In summary, there seem to be conflicting results as to which gender resists pressure more as well as what age stages influence resistance to social pressure. Furthermore, with gender and locus of control, females appear to score higher on internal locus of control...
control scores as compared to males. However, there have not been extensive studies done with respect to the link between locus of control and resistance to peer pressure.

**Methodology**

This chapter of the study considers the research methodology as well as the procedures that were used to identify the link between the variables of the study. It will include the research design, population, sampling methods, procedures for data collection, measures of instrumentation, ethical consideration as well as data analyses.

**Research design**

This study used a cross-sectional survey that was designed to identify the effect of locus of control on resistance to peer pressure among senior high school students in Accra.

**Population**

The target population for this study was adolescent students in senior high school in Accra. The specific target population was students in 2 selected senior high schools namely: Tema Secondary School and Labone Senior High School. The schools were chosen out of convenience to the researcher in terms of cost and distance. It includes students from all three forms (Tables 1-4).

**Table 1:** The summary of the descriptive statistics of type of locus of control and sex.

| Variables               | Sex  | N   | M       | SD      |
|-------------------------|------|-----|---------|---------|
| Internal LOC            | Male | 19  | 2.6474  | 0.98622 |
|                         | Female | 14  | 2.6071  | 0.45143 |
|                         | Total | 33  | 2.6271  | 0.53782 |
| External LOC            | Male | 55  | 2.5527  | 0.59593 |
|                         | Female | 56  | 2.5893  | 0.47085 |
|                         | Total | 111 | 2.5893  | 0.51724 |

**Table 2:** The summary of the 2-way ANOVA comparing sex, locus of control and resistance to peer pressure.

| Variables              | Type III Sum of sq. | Df | Mean square | F     | P    | Effect Size |
|------------------------|---------------------|----|-------------|-------|------|-------------|
| Locus of control       | 0.07                | 1  | 0.79        | 0.21  | 0.64 | 0           |
| Sex                    | 8.40E-05            | 1  | 8.40E-05    | 0     | 0.98 | 0           |
| Locus of control*Sex   | 0.03                | 1  | 0.03        | 0.1   | 0.75 | 0           |
| Error                  | 51.52               | 144| 0.36        |       |      |             |
| Total                  | 1013.7              | 144|             |       |      |             |

**Table 3:** The summary of the independent t-test comparing females and males on scores of resistances to peer pressure scale.

| Gender    | N  | Mean | SD  | Df  | T    | p    |
|-----------|----|------|-----|-----|------|------|
| Females   | 70 | 25.92| 4.63| 126.48| 159  | 0.04 |
| Males     | 74 | 25.77| 7.1 |      |      |      |

**Table 4:** The summary of the Pearson r is presented below.

| Variable               | N    | M       | SD     | R     | P    |
|------------------------|------|---------|--------|-------|------|
| Locus of Control       | 144  | 89.14   | 17.04  | -0.16 | 0.04 |
| Res. To Peer Pressure  | 144  | 2.58    | 0.6    |       |      |

**Sample and sampling techniques**

With respect to sampling, an element is the person or object about which or from which the information is being collected [2]. This begins by first identifying a specific target group. The sample for this study was derived from two senior high schools namely: Tema Secondary School and Labone Senior High School. The sample consists of 150 participants both males and females in SHS 1, 2 and 3. The researcher used a random sampling method. Described simple random sampling as a process whereby a subject is drawn from a population in such way that each member of the population has the same opportunity of being selected for inclusion in the subset as all the others (Figure 1).

**Figure 1:** A direct mapping showing the conceptual framework of the study.
Instrumentation

The research instrument was divided into four (4) sections: Informed consent, Demographic data (which was used to group the students into categories based on age, form and gender); and the Steinberg and Monahan resistance to peer influence scale (2007) measuring Locus of Control and Resistance to Peer Influence respectively. Responses for the resistance to peer influence scale was ranked on a four-point Likert scale of “true, true for me, sort of true for me, really true for me and sort of true for me” whereas responses for the locus of control test was ranked on a five-point Likert scale of “strongly disagree”, “disagree”, “not sure”, “agree”, “strongly agree”. Piloting of the tools, for resistance to peer influence test as well as locus of control scale was done among adolescents (N=26) in different senior high schools who were not part of the initial population. The tools used were already existing ones that have been used before but to determine if items in both tools were understandable to the participants a pretesting had to be done. The results of the piloting showed that generally, the items in the test as well as instructions were understood by participants. Out of the 150 questionnaires distributed to the participants, all but 6 were fully completed, hence the response rate for this study was 96%. There were no signs of psychological, emotional, or other form of distress after the exercise hence debriefing wasn’t deemed necessary by the student.

Validity and reliability

Defined validity as the degree to which a measurement corresponds to the construct that was supposed to be observed. Simply, it is the extent to which a questionnaire accurately measures what it was designed to measure. Both questionnaires had good validity coefficient ranging from .55 to .75 and .52 to .80, respectively. Reliability refers to a measure’s stability or consistency across time. If used on the same stimulus, a reliable construct gives approximately the same results each time it is used for an instrument’s data to be used in a study meaningfully that instrument must be reliable. Using the Cronbach Alpha equation to test for the reliability of the resistance to peer pressure and locus of control scale, a result of .681 and .801, respectively.

Data analyses procedure

The first data collection section of the study which was the demographic data section was analyzed using descriptive statistics and represented in percentage form using the Statistical Package for Social Sciences (SPSS) 22.0. Specific tests were used in analyzing the hypotheses of the study. A two-way analysis of variance (ANOVA) test was used to analyze the first hypotheses which states that female adolescents with internal locus of control are more likely to have a higher resistance to peer pressure their male counterparts, because the researcher was interested in determining the difference between two groups. The second hypotheses: male adolescents are more likely to have higher resistance to peer pressure scores as compared to female adolescents. This hypothesis was tested using an independent t-test because the researcher was interested in finding the difference between two independent groups with respect to scores on a resistance test. And finally, the third hypotheses which is that there is a positive relationship between locus of control and resistance to peer pressure is analyzed using the Pearson Product Moment Correlation Coefficient (Pearson r), because the researcher is interested in the relationship that exists between the two variables.

Ethical consideration

The researcher executed the ethical procedures practiced by researchers in conducting research, which is approved by Regent University College of Science and Technology Ethical Research Committee, amongst them are the following:

Informed consent: With respect to the principle of informed consent, introductory letters were sent out to the school authorities to seek permission before conducting the survey. The topic, and purpose were clearly outlined in these letters to the school authorities as well as the participants. A copy of the questionnaire was also shown to the school authorities.

Assured confidentiality: The researcher assured the participants that their responses would not be disclosed to any third party and indeed it was not disclosed to any third party.

Anonymity: The participants of the study were assured that their identities would be concealed as there is no way to trace back responses to them. To achieve this there was no option for any form of identification by name or number on the questionnaires and participants were advice not to put down any.

Avoiding plagiarism: To avoid the issue of plagiarism in this study, all research works, and articles used in this study for reference or other reasons were acknowledged in reference.

Avoiding coercion: In administering the tool for data collection, all participants were informed that they were participating in the research at their own volition and could opt out at any point in time. The participants were made to understand that they were not obliged to participate in anyway. This Ethical research committee also agrees with the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

Results

The present study sought to examine the following hypothesis:

a) Female adolescents with internal locus are more likely to have a higher resistance to peer pressure than their male counterparts.

b) Male adolescents are more likely to have higher resistance to peer pressure score than female adolescents.
c) There is a positive relationship between locus of control and resistance to peer pressure.

The main goal of the study was to find out whether an individual’s locus of control, be it internal or external influences his or her resistance to peer pressure. Also, the main analysis apart from analyzing the influence locus of control has on resistance to peer pressure, analyzed the influence of age and gender between the variables. Below is a presentation of the results from the analysis of the data that was collected.

**Demographic data**

The sample was made up of 144 participants from two (2) senior high schools in Accra. In terms of gender, the participants consisted of 51.4% male and 48.6% female. Form Ones made up 38.2%, Form Twos 34.0% and Form Threes 27.8% of the participants. With regards to religion, findings show the following percentages for Christianity, Islam, Traditional and Other respectively: 81.9%, 14.6%, 2.1% and 1.4%. A two-way ANOVA was conducted that examined the effect of sex and locus of control on resistance to peer pressure. There was no statistically significant interaction between the effects of sex and locus of control on resistance to peer pressure, $F (1, 140) = 0.100, p = .752$. Hence, the hypothesis that “females with internal locus of control are more likely to have a higher resistance as compared to their male counterparts” was not supported.

**Hypothesis 2:** Males are more likely to have higher resistance to peer pressure scores as compared to females

This hypothesis was analyzed using an independent t-test because the researcher was comparing two independent groups (females and males).

**Hypothesis 3:** There is a positive relationship between locus of control and resistance to peer pressure

This hypothesis was analyzed with Pearson r Moment correlation in order to find the relationship between locus of control and resistance to peer pressure.

**Discussion**

The main aim of this study was to determine the effect of locus of control on resistance to peer pressure amongst adolescents in 2 selected senior high schools in Accra. The results revealed that no significant interaction exists between sex, locus of control and resistance to peer pressure. This means that the relationship between a person’s sex and his or her locus of control does not influence his or her level of resistance to peer pressure. There are several factors that can attribute for non-significant data they include: the methodology, the type of questionnaire used, the cultural background of participants, as well as intellectual capacity or ability. However, results of sex and locus of control showed that out the participants, 77.1% have external locus of control whereas 22.9% have internal locus of control. The results also showed that the majority of females (N=56) have external locus of control than males (N=55) with external locus of control. The difference, just like the study by Cooper et al. (1981) is very small. There was also a small difference found in the number of females and males with internal locus of control, a total of males (N=19) scored higher on internal locus of control as compared to females (N= 14). The results from the second hypothesis showed a significant (p<.05) difference in sex with relation to resistance to peer pressure. Contrary to the stated hypothesis that “male adolescents are more likely to have a higher level of resistance than female adolescents”, results show that female adolescents rather scored higher in resistance to peer pressure. This result agrees with the findings of Steinberg & Silverberg who also found that females have a higher score in resistance to peer pressure as compared to males. The third hypothesis which expected a positive relationship between locus of control and resistance to peer pressure also resulted in a statistically non-significant (p>.05) value but a negative correlation was obtained. This means that a person’s level of resistance cannot be used to predict his or her locus of control. It was expected that an individual with internal locus of control will score higher on the test for resistance to peer pressure according to the social learning theory [6].

**Conclusion**

The present study investigated the effect of locus of control on resistance to peer pressure. 144 adolescents participated fully in the study. The study hypothesized that: Female adolescents with internal locus are more likely to have a higher resistance to peer pressure than their male counterparts. Male adolescents are more likely to have higher resistance to peer pressure than female adolescents. There is a positive relationship between locus of control and resistance to peer pressure. Locus of control was measured using a structured questionnaire developed by [7]. Higher scores are associated with external locus of control. Resistance to peer pressure was measured using a structured questionnaire developed by [21] with higher scores indicating higher resistance to peer pressure. The first hypothesis, second and third hypotheses were tested using the following analytical tests respectively: a 2-way ANOVA, an independent t-test, and a Pearson-r moment correlation. The relationship between sex and resistance to peer pressure was found to be statistically significant with females scoring higher on the resistance to peer pressure scale as compared to male adolescents, whereas the effects of sex and locus of control on resistance to peer pressure as well as the relationship between locus of control and resistance to peer pressure were statistically non-significant thus had no link whatsoever to each other as stated.

To conclude, female adolescents generally scored lower on internal locus of control as compared to male adolescents.
**Recommendations**

This study provides support for continuing research regarding how locus of control affects resistance to peer pressure in the Ghanaian society.

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