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RESEARCH ARTICLE



**A STATISTICAL APPROACH AND STUDY OF KNOWLEDGE, ATTITUDE AND BELIEFS  
AND BEHAVIOUR AMONG ADOLESCENTS REGARDING 'HIV/AIDS' IN  
VISAKHAPATNAM CITY, A CASE STUDY**

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**ABSTRACT**

In India adolescents (10-19) constitute 21.4% of population, comprising one fifth of the total population. Growth monitoring by anthropometric measurement during this period is not only a health indicator but also a predictor of various morbidity in the community. Visakhapatnam is confronted with an increasing incidence of HIV/AIDS among adolescents and young adults. A priority of nurses and other health professionals in Visakhapatnam is the prevention of the spread of HIV infection. The first step in prevention is assessing the HIV/AIDS knowledge, attitudes and beliefs of adolescents. While there are no universally accepted definitions of adolescence and youth, the United Nations understands adolescents to include persons aged 10-19 years and youth as those between 15- 24 years for statistical purposes without prejudice to other definitions by Member States.<sup>1</sup> Together, adolescents and youth are referred to as young people, encompassing the ages of 10-24 years. Due to data limitations, these terms can refer to varying age groups that are separately defined as required. This paper reports an exploration of adolescents' knowledge, attitudes and

beliefs of HIV/AIDS in Govt and private schools in Visakhapatnam A cross-sectional correlation design was carried out in 2017-2018 in a govt, private schools, junior/degree College, vocational and Polytechnic College's total of 500 adolescents participated in the study. Two instruments were used: a demographic questionnaire and the Youth Survey, which included questions on knowledge, attitudes and beliefs. The majority of the adolescents had a moderate level of overall HIV/AIDS knowledge, but lacked knowledge in the areas of mode of transmission and prevention of HIV/AIDS. Female students(72%) have more positive attitude towards HIV infected persons when compared to male students(55%) regarding visit to friend home if she/he had HIV,78% to take care of friend or relative he had HIV(67%) allowing HIV children to go school with normal children Regarding attitude toward HIV infected persons there is no significant difference( $p>0.05$ ) among (47%) male and (49%) female students about persons with HIV/AIDSs working as teacher and by items(41%) male and (47%) female from a shopkeeper who is HIV positive. The study findings reveal that though a considerable percentage of adolescents had correct knowledge about HIV/AIDS, yet they lacked in dept knowledge about the disease. This result emphasizes the need of school adolescent education programmes in the country so that this high-risk group is properly informed about this disease and they would act accordingly. Both males and females have misconception on modes of transmission like drinking from same glass casual contact with infected persons like hand shake, kissing and hugging.

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## Introduction

HIV/AIDS has emerged as the single most formidable challenge to public health, human rights and development in the new millennium. AIDS is a pandemic disease without borders. Adolescent age group is an important segment of population and potential resource for prevention of HIV/AIDS transmission. On 5<sup>th</sup> June 1981, the U.S. Centers for Disease Control and Prevention(CDC) reported the identification of a new clinical entity called "Acquired Immunodeficiency Syndrome" among men having sex with men in New York and California. These men presented with rare Opportunistic infections (OI), Pneumocystis (carinii) Jiroveci pneumonia and Kaposi's sarcoma-a rare skin cancer that is usually seen only in immune-compromised persons. The causative agent of AIDS was identified two years later. In 1986, the international Committee on Taxonomy of Viruses recommended a separate name for the virus isolated from AIDS patients, the Human Immunodeficiency Virus (HIV). HIV is transmitted from one infected person to another through penetrative sexual acts both heterosexual and homosexual, though a contaminated blood transfusion or the sharing of needles and syringes, and from mother to child. Due to these restricted routes of transmission, the HIV epidemic was initially concentrated among high-risk groups. These 'high-risk groups' the population most vulnerable to HIV, are comprised of sex workers (male and female), men having sex with men, Trans Genders, and injecting drug users.

This has to be given a serious thought, especially in India where a wide gap exists in the curriculum of HIV/AIDS and the actual education imparted to the students. Today, around 25 per cent of the world's AIDS cases are in their twenties and it is assumed that these people might have been

infected with HIV/AIDS during their adolescent period. Adolescent stage is generally inquisitive. School children of today are exposed to the risk being victims of HIV/AIDS which quite unknown to their predecessors a few decades ago. The epidemic of HIV/AIDS is now progressing at a rapid pace among young people. Studies have reported that young people form a significant segment of those attending sexually transmitted infection (STI) clinics and those infected by HIV. Adolescents comprises about 22% of the population of India. Adolescents are defined by the World Health Organization (WHO) as persons between 10 and 19 years of age (WHO) 1998. Many adolescents around the world are sexually active and because many sexual contacts among them are unprotected, they are at risk of contracting sexually transmitted diseases (STDs) including HIV/AIDS. Most parents do not discuss topics related to sexual issues and hence many teens turn to peers and to the media and get inaccurate information. The risk of becoming infected with human immunodeficiency virus (HIV) during unprotected sex is two to four times greater for a woman (even higher in adolescent women) than for a man.

### Adolescents in World

Today's generation of young people is absolutely massive: Some 1.8 billion people are between ages 10 and 24. Most of them live in developing countries, often comprising a huge proportion of the population. How well they navigate adolescence will determine not only the course of their own lives, but that of the world. Yet too many youth are unable to participate fully in society. Around 175 million young people in low-income countries cannot read a full sentence. UNFPA partners with young people, helping them participate in decisions affecting them, and strengthening their ability to advance human rights and development issues such as health, education and employment.

| World Population (medium Variant) |                  |                  |
|-----------------------------------|------------------|------------------|
| Age Group                         | 2010 (thousands) | 2050 (thousands) |
| 10-14                             | 602,054          | 632,965          |
| 15-19                             | 606,144          | 627,881          |
| 20-24                             | 606,816          | 624,050          |
| Total                             | 1,815,014        | 1,884,896        |

### Adolescents in India Major states:

States in terms of the total size of youth population is presented in Statement 2.5. As in the case of adolescent population, Uttar Pradesh occupies the first rank in both the years, while Bihar ranks at 4 in 2011, one rank up from 2001. Uttar Pradesh has also increased its share of the total youth population of the country by 2 percentage points (15.4 in 2001 to 17.5 in 2011). Maharashtra and West Bengal rank second and third respectively, with no change in the ranking from 2001 Census. The top two states (Uttar Pradesh and Maharashtra) together account for 27 per cent of the entire youth population of the country in 2011, while the top five states (Uttar Pradesh, Maharashtra, West Bengal, Bihar and Andhra Pradesh) together are home to nearly half of the country's youth population (49%). Madhya Pradesh and Rajasthan are the other big states which have gained rank in 2011 as compared to 2001.

| Sl.No. | Name of the State | Total Adolescents as per 2001 | Percent to total adolescent of India 2001 | Total Adolescents as per 2011 | Percent to total adolescent of India 2011 |
|--------|-------------------|-------------------------------|---|-------------------------------|---|
| 1      | Uttar Pradesh     | 3,83,55,275                   | 17.4                                      | 4,89,10,661                   | 19.31                                     |
| 2      | Bihar             | 2,09,55,275                   | 9.29                                      | 2,33,92,577                   | 9.24                                      |
| 3      | Maharashtra       | 2,09,08,090                   | 8.11                                      | 2,13,61,802                   | 8.44                                      |
| 4      | West Bengal       | 1,82,53,965                   | 7.63                                      | 1,82,14,554                   | 7.19                                      |
| 5      | Andhra Pradesh    | 1,71,72,414                   | 7.25                                      | 1,62,95,342                   | 6.43                                      |
| 6      | <b>India</b>      | <b>22,50,62,748</b>           |   | <b>25,32,35,661</b>           |   |

**In Andhra Pradesh Estimated HIV cases as per 2019, shows very high**

| Andhra Pradesh District wise HIV Estimations as per 2019 |            |       |                    |          |                   |
|--|------------|-------|--------------------|----------|-------------------|
| District Name  | Prevalence | PLHIV | New Infection(15+) | ARD(15+) | District Priority |
| Ananthapur   | 0.519      | 19206 | 167                | 688      | High              |
| Chittoor   | 0.484      | 18234 | 203                | 646      | High              |
| East Godavari  | 0.95       | 45743 | 335                | 1621     | High              |
| Guntur   | 0.932      | 42108 | 238                | 1501     | High              |
| Krishna  | 0.888      | 37753 | 347                | 1355     | High              |
| Kurnool  | 0.448      | 16488 | 215                | 591      | High              |
| Prakasam   | 0.826      | 25247 | 90                 | 897      | High              |
| Srikakulam   | 0.501      | 12257 | 105                | 439      | High              |
| Nellore  | 0.571      | 15710 | 136                | 563      | High              |
| Viskhapatnam   | 0.615      | 25077 | 357                | 888      | High              |
| Viziaangaram   | 0.501      | 10713 | 134                | 384      | High              |
| West Godavari  | 0.906      | 33332 | 268                | 1194     | High              |
| YSR(kadapa)  | 0.457      | 11857 | 76                 | 425      | High              |

### Review of Literature

Pratibha Gupta et al a cross-sectional study was conducted between July and October 2011 in two randomly selected co-educational schools of Luck now District, India students from tenth to

twelfth grade were included in the study. A total of 215 students both boys and girls, were enrolled. In this study for majority of the students (85%), the source of information about HIV/AIDS was the television. Regarding knowledge about modes of transmission of HIV/AIDS was the television. Regarding knowledge about modes of transmission of HIV/AIDS among girl students, 95.1% of them told that it is through unprotected sex. A total of 75.8% students said that it was transmitted from mother to child. It was observed that the knowledge of the school students was quite satisfactory for most of the variables like modes of transmission, including mother-to-child transmission of the disease. However; schools should come forward to design awareness campaigns. The finding of the present study was satisfactory and consistent with previous research findings. In the present study, the source of information about HIV/AIDS was the television (85%) followed by the newspaper, and friends and relatives (39.5%). Similarly in a study conducted by **Singh et al**, in a district of northern India, for 90% women of reproductive age group, the source of information was the television.

In the present study, significant proportion had adequate knowledge regarding modes of transmission of HIV/AIDS, that it was transmitted through unprotected sex (92.1% students) and from mother to child (75.8%) amongst girls, 95.1% said that it was through unprotected sex followed by sharing injections (88.2%), blood transfusion (84.3%), and sex with multiple partners (69.6%), similar findings were observed amongst boys; about 92% said that it was transmitted through sharing injections followed by unprotected sex (89.4) and blood transfusions (86.7%). In a study by Singh et al, in a district northern India, the most common mode of transmission was heterosexual intercourse (79.1%), whereas according to the women of rural areas of the district, it was homosexual intercourse (74.1%), which was the mode most responsible for the transmission of HIV/AIDS. In the present study, however, knowledge of students about high-risk groups and curability (39.1%) of HIV/AIDS was not satisfactory. Similarly, in a study by Singh et al about availability of cure of HIV/AIDS in rural areas, 11.6% women told that cure was available for the disease. The response was the same by 32.6% women in urban areas about availability of a cure for the disease.

Pankaj Kumar et al 63% students were aware about HIV/AIDS. TV was the main source of information. A significant decrease in knowledge about misconceptions and significant increase in knowledge occurred about various modes of transmission of disease, prevention of HIV/AIDS in post testing. Family as a source of information was mentioned by very less students revealing probably less knowledge amongst parents or stigma about the disease to talk with the children about HIV/AIDS. School or teacher as a source of information was not revealed by any student indicating no or very less activity of school AIDS education programme. Regarding various modes of transmission of HIV/AIDS 61.7% students were aware about unsafe sex as a mode of transmission which was significantly increased to 84.31% after viewing film. Infected blood as a mode of transmission of HIV/AIDS was revealed by 66.66% students in pre test which significantly increased to 82.3% in post test. Mode of transmission by sharing infected needle of a HIV/AIDS infected person was opened by 61.76% student in pre-test and was significantly improved to 79.41% after the film. Lowerie 35.6% students of Chandigarh were aware about this mode of transmission in pre-test, and was significantly increased by 51.1% after discussion. One of the various modes of transmission ie infected by 51.1% after discussion. One of the various modes of transmission ie infected mother to her baby, 65.68% student had knowledge about this mode of transmission before viewing the film and which was further improved to 80.39%. There are lots of misconceptions about modes of transmission of HIV/AIDS amongst the students.

### Sample & Methodology

This study conducted oral from various students from Visakhapatnam area, A total of 500 students of Class X, Inter, Vocational, Polytechnic, Degree college were selected randomly, from different Government Higher secondary schools and colleges of Visakhapatnam city. Out of 500 students in which there were 2 Government co-educational school, 2 Private junior and Degree college(one for co-education & one for Mahila), 2 vocational and one Government polytechnic college. A total of 39 Students belonging to Class X,186 students from Inter mediate,76 students from Vocational,119 students from Polytechnic,80 students from Degree participated in the study, both boys and girls in that 362 Boys and 138 girls were enrolled between the age group of 14-19 years. The questions were explained to them, and they were asked to write answers of the questions on their own. Questionnaire includes questions related to general aspect,causativeagent,modes of transmission, high risk population, source of awareness, modes of prevention,attitutude and beliefs about people living with HIV/AIDS(PLWHA).The response rate of students was 100%.The students were administered a pre-designed proforma,which included multiple choice questions. They were asked to fill a pre-structred,pre-tested questionnaire within the school and college premises. Care was taken to minimize consolation utmost the school children. Written consent was obtained from the adolescents after explaining the purpose of the study to them.

### Data Analysis

A master chart was prepared with all the data that was collected MS Excel was used to summarize the data and SPSS version 19 software was used for analysis of data Z test (2Tailed) was done at 5% significance by means of simple comparison of proportions' value and P value were obtained by above test if Z value is  $<1.96$  the P value will  $>0.05$  that indicates there is no significant difference between two components. The results are then compared with other studies.

### Appendix:

**Table-1 Age Distribution of study Subject of HIV/AIDS**

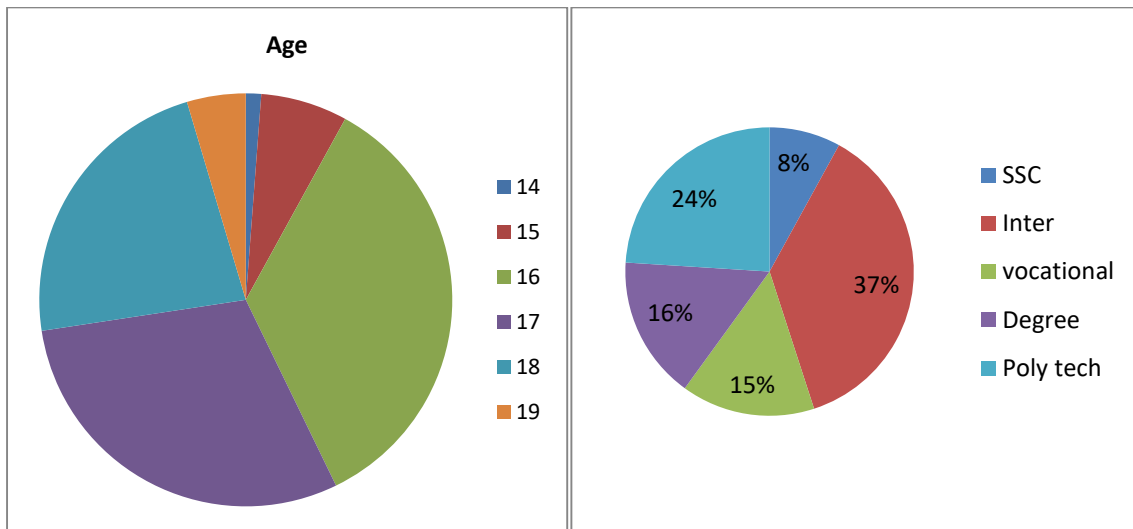
| Age Distribution of study subjects |     |            |
|------------------------------------|-----|------------|
| Age                                | N   | Percentage |
| 14                                 | 6   | 1.20%      |
| 15                                 | 34  | 6.80%      |
| 16                                 | 174 | 34.80%     |
| 17                                 | 149 | 29.80%     |
| 18                                 | 114 | 22.80%     |
| 19                                 | 23  | 4.60%      |

The Study group consisted of 500 Adolescents from 14 years to 19 years, of whome, majority were between 16 to 18 years. The Modal Age was 16.

**Table-2: Course wise students Data**

| Course wise students data |     |            |
|---------------------------|-----|------------|
| Class                     | N   | Percentage |
| SSC                       | 39  | 8%         |
| Inter                     | 186 | 37%        |
| vocational                | 76  | 15%        |
| Degree                    | 80  | 16%        |
| Poly tech                 | 119 | 24%        |
| Total                     | 500 | 100%       |

In the above mentioned various classes the Intermediate constituted 37% in this study group, this age group of people had very high risk so that the data highest taken from in these group.



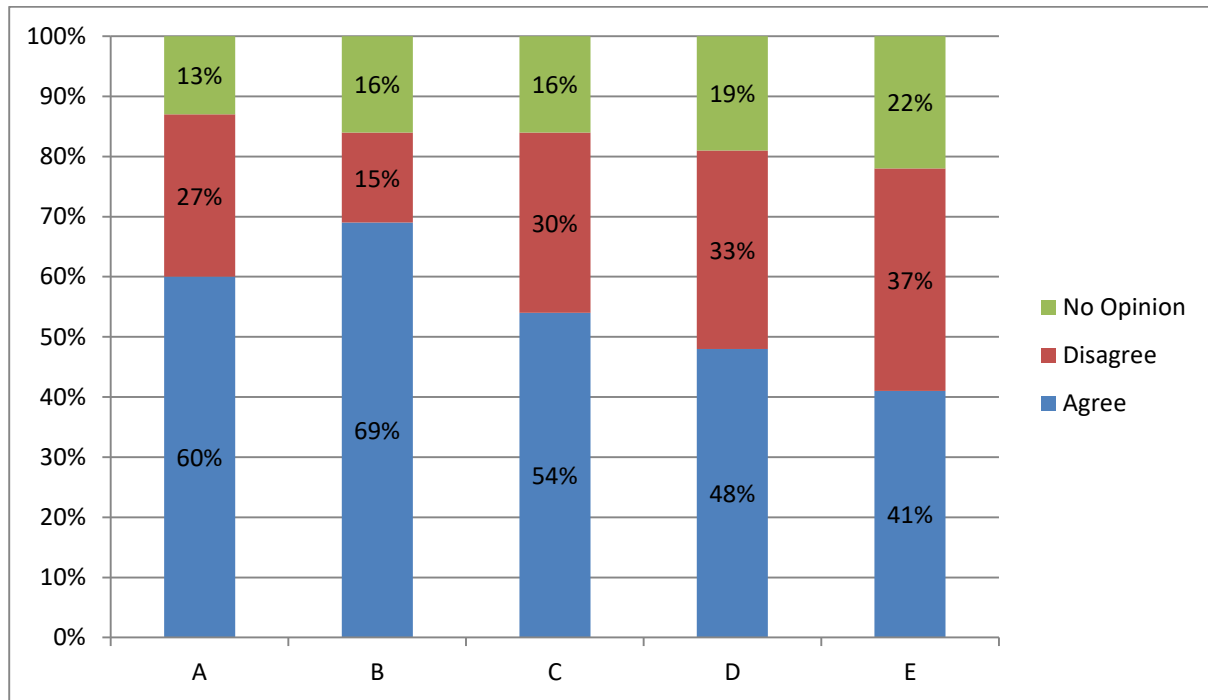
The age and their qualification are prepared pie chart mentioned above, shows that majority of age in intermediate and in these data Private College 53% where as Govt 47%.

Table-3 Attitude of Adolescent towards HIV infected persons

| Category  |            | Male N=362 |          |            | Female N=138 |          |            | Total N=500 |          |            | Z value | P value |
|---|------------|------------|----------|------------|--------------|----------|------------|-------------|----------|------------|---------|---------|
|   |            | Agree      | Disagree | No Opinion | Agree        | Disagree | No Opinion | Agree       | Disagree | No Opinion |         |         |
| Would visit my friend home if she/he had HIV                          | Number     | 200        | 113      | 49         | 100          | 23       | 15         | 300         | 236      | 64         | 3.51    | <0.05   |
|   | Percentage | 55%        | 31%      | 14%        | 72%          | 17%      | 11%        | 60%         | 27%      | 13%        |         |         |
| Would take care of my friend or relative if she/he had HIV            | Number     | 240        | 62       | 60         | 107          | 12       | 19         | 347         | 74       | 79         | 2.44    | <0.05   |
|   | Percentage | 66%        | 17%      | 17%        | 78%          | 9%       | 14%        | 69%         | 15%      | 16%        |         |         |
| Children with HIV should be allowed to go school with normal children | Number     | 177        | 128      | 57         | 92           | 23       | 23         | 269         | 151      | 80         | 3.56    | <0.05   |
|   | Percentage | 49%        | 35%      | 16%        | 67%          | 17%      | 17%        | 54%         | 30%      | 16%        |         |         |
| Persons with HIV/AIDS can work as teacher                             | Number     | 171        | 131      | 60         | 68           | 35       | 35         | 239         | 166      | 95         | 0.41    | >0.05   |
|   | Percentage | 47%        | 36%      | 17%        | 49%          | 25%      | 25%        | 48%         | 33%      | 19%        |         |         |
| Shopkeeper/food seller is HIV positive, would like to buy             | Number     | 150        | 140      | 72         | 57           | 44       | 37         | 207         | 184      | 109        | 0.03    | >0.05   |
|   | Percentage | 41%        | 39%      | 20%        | 41%          | 32%      | 27%        | 41%         | 37%      | 22%        |         |         |



Female students(72%) have more positive attitude towards HIV infected person, when compared to male students(5%),regarding visit to friend home if she/he had HIV,78% to take care of friend or relative if she/he had HIV and 67% allowing HIV children to go school with normal children



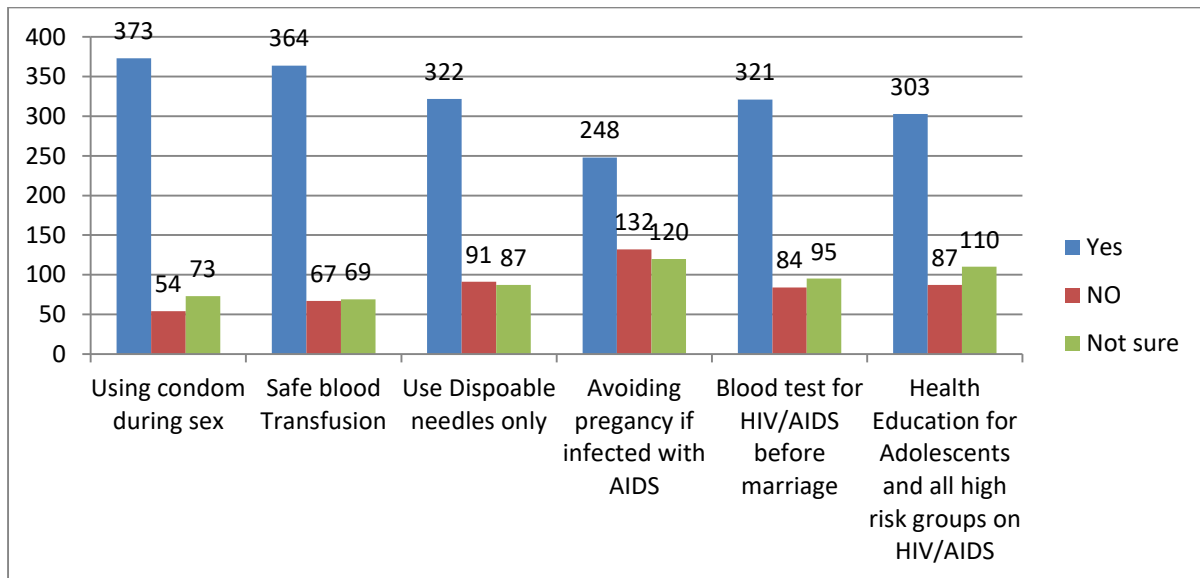
Regarding attitude towards HIV infected person there is no significant difference( $p>0.05$ ) among 57% male and 49% female students about persons with HIV/AIDS working as teacher any buy items41% male and 41% females from a shop keeper/food seller whose is HIV positive.

**Table-4 Knowledge about the method of prevention of HIV/AIDS**

| Knowledge about method of prevention of HIV/AIDS |            |            |     |          |              |     |          |             |     |          |         |         |
|--|------------|------------|-----|----------|--------------|-----|----------|-------------|-----|----------|---------|---------|
| Category   | Number     | Male N=362 |     |          | Female N=138 |     |          | total N=500 |     |          | Z value | P value |
|  | Percentage | Yes        | No  | Not sure | Yes          | No  | Not sure | Yes         | No  | Not sure |         |         |
| Using condom during sex                          | Number     | 284        | 40  | 38       | 89           | 14  | 35       | 373         | 54  | 73       | 3.21    | <0.05   |
|  | Percentage | 78%        | 11% | 10%      | 64%          | 10% | 25%      | 75%         | 11% | 15%      |         |         |
| Safe Blood transfusion                           | Number     | 263        | 51  | 48       | 101          | 16  | 21       | 364         | 67  | 69       | 0.12    | >0.05   |
|  | Percentage | 73%        | 14% | 13%      | 73%          | 12% | 15%      | 73%         | 13% | 14%      |         |         |
| Use disposable needles only                      | Number     | 235        | 66  | 61       | 87           | 25  | 26       | 322         | 91  | 87       | 0.39    | >0.05   |
|  | Percentage | 65%        | 18% | 17%      | 63%          | 18% | 19%      | 64%         | 18% | 17%      |         |         |
| Avoiding pregnancy if infected with AIDs         | Number     | 176        | 107 | 79       | 72           | 25  | 41       | 248         | 132 | 120      | 0.71    | >0.05   |
|  | Percentage | 49%        | 30% | 22%      | 52%          | 18% | 30%      | 50%         | 26% | 24%      |         |         |
| Blood test for HIV/AIDS                          | Number     | 233        | 64  | 65       | 88           | 20  | 30       | 321         | 84  | 95       | 0.12    | >0.05   |
|  | Percentage | 64%        | 18% | 18%      | 64%          | 14% | 22%      | 64%         | 17% | 19%      |         |         |

|   |            |     |     |     |     |     |     |     |     |     |      |       |
|---|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| before marriage   |            |     |     |     |     |     |     |     |     |     |      |       |
| Health education for adolescents and all high risk groups on HIV/AIDS | Number     | 227 | 66  | 69  | 76  | 21  | 41  | 303 | 87  | 110 |      |       |
|   | Percentage | 63% | 18% | 19% | 55% | 15% | 30% | 61% | 17% | 22% | 1.56 | >0.05 |

There is significant ( $P < 0.05$ ) among male and female students about method of prevention by using condom during sex, In this regard male students (78%) have more awareness when compared to female (64)



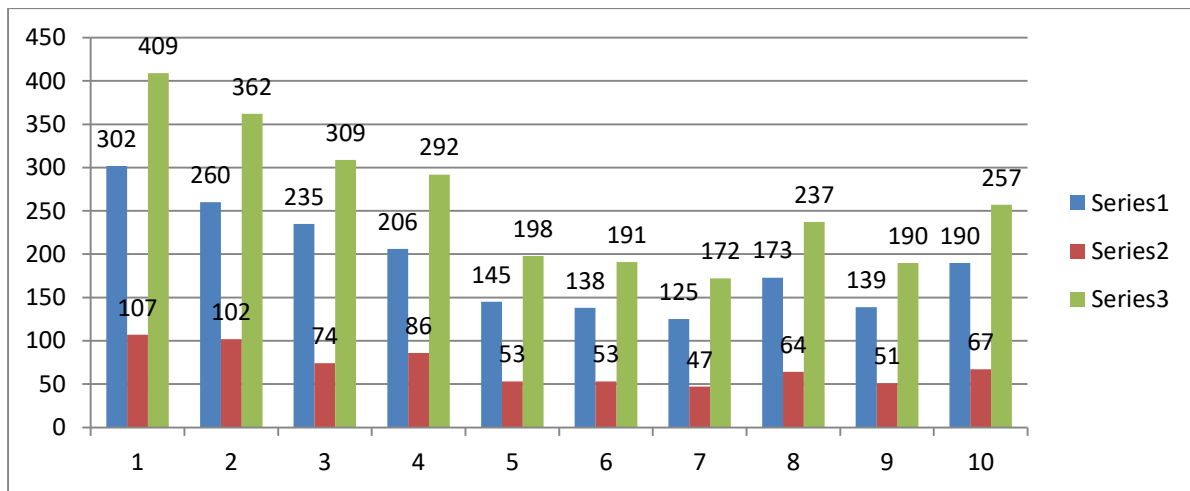
There is no significant difference ( $p > 0.05$ ) among male and female students about other methods of prevention clearly shows above diagram.

**Table-5 Knowledge about source of Awareness:**

| Category         |            | No. of Students getting awareness from the given source Male N=362 | No. of Students getting awareness from the given source Female N=138 | No. of Students getting awareness from the given source N=500 | Z value | p value |
|------------------|------------|--|--|---|---------|---------|
| Electronic Media | Number     | 302  | 107  | 409   | 1.53    | >0.05   |
|                  | Percentage | 83%  | 78%  | 82%   |         |         |

| Category    |            | No. of Students getting awareness from the given source Male N=362 | No. of Students getting awareness from the given source Female N=138 | No. of Students getting awareness from the given source N=500 | Z value | p value |
|-------------|------------|--|--|---|---------|---------|
| Print Media | Number     | 260  | 102  | 362   | 0.47    | >0.05   |
|             | Percentage | 72%  | 74%  | 72%   |         |         |
| Friends     | Number     | 235  | 74   | 309   | 2.32    | <0.05   |
|             | Percentage | 65%  | 54%  | 62%   |         |         |
| Teacher     | Number     | 206  | 86   | 292   | 1.1     | >0.05   |
|             | Percentage | 57%  | 62%  | 58%   |         |         |
| Father      | Number     | 145  | 53   | 198   | 0.34    | >0.05   |
|             | Percentage | 40%  | 38%  | 39%   |         |         |
| Mother      | Number     | 138  | 53   | 191   | 0.06    | >0.05   |
|             | Percentage | 38%  | 38%  | 38%   |         |         |
| Siblings    | Number     | 125  | 47   | 172   | 0.1     | >0.05   |
|             | Percentage | 35%  | 34%  | 34%   |         |         |
| Pamphlets   | Number     | 173  | 64   | 237   | 0.28    | >0.05   |
|             | Percentage | 48%  | 46%  | 47%   |         |         |
| NGOs        | Number     | 139  | 51   | 190   | 0.3     | >0.05   |
|             | Percentage | 38%  | 37%  | 38%   |         |         |
| Radio       | Number     | 190  | 67   | 257   | 0.79    | >0.05   |
|             | Percentage | 52%  | 49%  | 51%   |         |         |

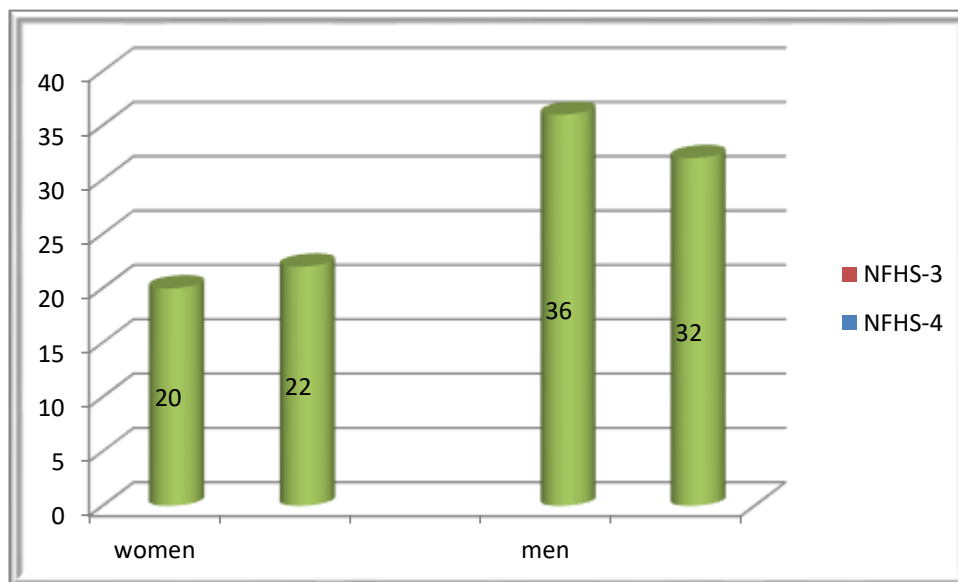
Electronic media was the source of awareness (82%) in majority of the students. There is no significant difference ( $p>0.05$ ) among male and female students about source of awareness



The number of students getting awareness from the above source is mentioned above diargaram.In addition, women and men were requested to provide a few drops of blood from a finger prick for laboratory testing for HIV if necessary yearly once a time.

**Comparison of NFHS data**

Comprehensive knowledge of HIV/AIDS among youth: Twenty-two percent of young women and 32 percent of young men age 15-24 have comprehensive knowledge of HIV. x Premarital sex among youth: Three percent of never-married women and 11 percent of never-married men age 15-24 have ever had sexual intercourse. x Higher-risk sex among youth: Thirty-five percent of men age 15-24 have had higher-risk intercourse (sex with a non-marital, non-cohabitating partner) in the 12 months preceding the survey, compared with 2 percent of women 15-24



In India, 22 percent of young women and 32 percent of young men age 15-24 have comprehensive knowledge of HIV, which includes knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting two common misconceptions about HIV transmission

**Trends:** The percentage of young women with comprehensive knowledge about HIV has increased only marginally from 20 percent in NFHS-3 to 22 percent in NFHS-4 and the proportion of young men with comprehensive knowledge has declined in the same period, from 36 percent to 32 percent.

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