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# Original Article

# Study of Sociodemographic Profile of HIV Positive Patients Attending ART Centre of a Medical College

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#### ABSTRACT:

It is estimated that 90% of the HIV infected persons live in the developing countries and with the estimated number of infected Indian being 2.31 million, with an adult prevalence of 0.3%. In india HIV prevalence is highest in the **south** - **western state** (e.g.-Maharashtra, Karnataka, Tamil Nadu and Andhra Pradesh) where sexual transmission is dominant, and in the **North-east state** (e.g. Manipur Meghalaya, and Nagaland) where injecting drug use (I.V.D.U) is the most common route of infection . The present study is carried out in the department of medicine at ART centre of Sanjay Gandhi Memorial Hospital & Shyam Shah Medical College, Rewa (M.P.). In present study majority (90.92%) of HIV patient were within 20-49 years of age and maximum number of HIV patients (25.63%) were from the 35-39years of age. In this study 68.97% patient were from rural area and 31.03% were from urban area (i.e. R/U ratio=2.22/1). out of 1135 adult HIV patients, 99.55% (n=1130) [96.31% male and 100% female] were have heterosexual habit of sex and only 0.16% (n=2) were have homosexual and 0.24% (n=3) were have bisexual habit of sex and no female have homosexual or bisexual sex habit in our study.

Key Words: HIV, male, female, drivers, homosexuals.

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### INTRODUCTION

HIV infection is a global pandemic. HIV continues to be a Burden globally and presents serious public health problems in the developing countries, especially in India [1]. AIDS (sometime called as "Slim Disease") is a fatal illness caused by a retrovirus known as Human Immunodeficiency Virus (HIV), Which breaks down the body's immune system, leaving the victim vulnerable to a host of life-threatening opportunistic infections/ unusual malignancy & unusual neurological disorders [2]

According to the UNAIDS and WHO reports of November 2010, there are approximately 33.3 million people living with HIV/ AIDS worldwide (known as PLHA) with a global prevalence of 0.8%. it is now the leading cause of 'adult-deaths' in the world due to infectious diseases [1].

It is estimated that 90% of the HIV infected persons live in the developing countries and with the estimated number of infected Indian being 2.31 million, with an adult prevalence of 0.3% [1].

In india HIV prevalence is highest in the **south -western state** (e.g.-Maharashtra, Karnataka, Tamil Nadu and Andhra Pradesh) where sexual transmission is dominant, and in the **North-east state** (e.g.Manipur Meghalaya, and Nagaland) where injecting drug use (I.V.D.U) is the most common route of infection [3].

This study is contemplated in the semi-rural tertiary health care hospital at Rewa with an objective to throw light on the demographic profile of HIV positive patient attending 'ART center' at S.S.M.C & S.G.M.H Rewa (M.P.) in between Jan. 2010 to Dec.2012.

## **Material and Methods**

The present study is carried out in the department of medicine at ART centre of Sanjay Gandhi Memorial Hospital & Shyam Shah Medical College, Rewa (M.P.).

In this study 1224 cases of all age group, those were registered in ART center from Jan. 2010 to Dec.2012 are taken. A pre-formed questionnaire (proforma) was made to enquire about socio-demographic-economic variables such as - age, sex, education, community, marital status, occupation, native place, monthly income, HIV status of

spouse, history of migration (out of district/native place), and any high risk behavior (i.e. IDUs/MSM/FSW).

As this study is data based and extremely influence by the rate of registration from different age/sex group, different community and different region, and social factor such as gender bias/cast bias also influence to the 'rate to seek medical help' in these area.

#### RESULTSO

**Table No. 1:** Distribution of HIV patients in adults / Children's (n=1224)

| Patients           | Male | Female | Total | %      |
|--------------------|------|--------|-------|--------|
| Children (<15yrs.) | 63   | 26     | 89    | 7.27%  |
| Adult              | 652  | 483    | 1135  | 92.73% |
| (>15yrs)           |      |        |       |        |
| Total              | 715  | 509    | 1224  | 100%   |

In above table, total number of ART attendees (patients) were 1224 and out of these 1224 patients, 7.27% (n=89) were children (15years) and 92.73% (n=1135) were adult (>15 years). Out of these 89 children, 5.15% (n=63) were male child and 2.12% (n=26) were female child. Out of these 1135 adult patients, 53.26% (n=652) were male and 483 39.46% (n=483) were female.

M/F ratio in child patients was 2.4/1, M/F ratio in adult patients was 1.3/1

**Table No. 2:** Distribution of the total HIV patient according to their age group and sex (n=1224).

| Age in Year                | Male |        | Female | e e    | M/F Ratio | Total |         |
|----------------------------|------|--------|--------|--------|-----------|-------|---------|
| Age in Tear                | No.  | %      | No.    | %      |           | No.   | %       |
| • CHILDREN<br>N=89 (7.27%) |      |        |        |        |           |       |         |
| < 18 month                 | 4    | 00.32% | 1      |        | 4/1       | 5     | 00.41%  |
| 18mon- 4yrs                | 17   |        | 6      |        | 2.8/1     | 23    | 1.88%   |
| 5- 10yrs                   | 31   | 02.53% | 14     | 01.14% | 2.2/1     | 45    | 3.68%   |
| 11-15yrs                   | 11   |        | 5      |        | 2.2/1     | 16    | 1.31%   |
| • ADULTS<br>N=1135(92.73%) |      |        |        |        |           |       |         |
| 15-19yrs.                  | 7    | 0.61   | 4      |        | 1.75/1    | 11    | 0.89%   |
| 20-24yrs.                  | 32   |        | 64     |        | 1/2       | 96    | 7.84%   |
| 25-29yrs.                  | 73   |        | 80     |        | 0.9/1     | 153   | 12.5%   |
| 30-34yrs.                  | 121  | 09.88% | 89     | 07.27% | 1.4/1     | 210   | 17.2%   |
| 35-39yrs.                  | 172  |        | 119    |        | 1.5/1     | 291   | 23.77%% |
| 40-44yrs.                  | 112  |        | 61     |        | 1.8/1     | 173   | 14.2%   |
| 45-49yrs.                  | 70   |        | 39     |        | 1.8/1     | 109   | 8.9%S   |
| >50yrs.                    | 65   | 05.31% | 27     | 02.20% | 2.5/1     | 92    | 7.51%   |
| TOTAL HIV PATIENTS         | 715  | 58.42% | 509    | 41.58% | 1.4/1     | 1224  | 100.0%  |

Chi-square: 44.270

The P value is < 0.0001.

In above table, out of total 89 HIV children, majority 76.40% (n=68) of the HIV positive children were between 18 month-10year, and maximum number 50.56% (n=45) of HIV children occur at the age of 5-10years. Children less then 18month were only 5(05.61%) and children more than 10 year were only 16(17.98%).

In above table, out of total 1135 adult HIV patients, majority, 90.92% (n=1032) of adult HIV patients were in age of 20-49 year and at the age below 20 year it was 00.97% (n=11) and at the age above 49 year it was 08.10% (n=92).

Maximum number of adult HIV patients, 25.63% (n=291), occurred at 35-39 year of age and minimum number of adult HIV patients 00.97% (n=11), occurred at the age of 15-19 year. In the age of 15-19 years (0.89%) number of adult HIV patients were increased steeply (~9 time) at the age of 20-24 years (7.84%).

**Table No. -3:** Year Wise Distribution of the total HIV patients (n=1224)

| Year of registration | Chile            | d patients (<15    | yrs)         |                | Total            |           |      |
|----------------------|------------------|--------------------|--------------|----------------|------------------|-----------|------|
|                      | Male<br>children | Female<br>children | M/F<br>Ratio | Adult<br>Males | Adult<br>Females | M/F Ratio |      |
| Jan.2010-Dec.2010    | 32               | 14                 | 2.3/1        | 267            | 199              | 1.24/1    | 511  |
| Jan.2011-Dec.2011    | 12               | 6                  | 2/1          | 176            | 129              | 1.27/1    | 323  |
| Jan. 2012-dec. 2012  | 19               | 6                  | 3/1          | 209            | 156              | 1.28/1    | 390  |
| Total                | 63               | 26                 | 2.4/1        | 652            | 483              | 1.35/1    | 1224 |

In above observation, in year 2010 total number of patients registered in ART center were 511, and in 2011 and 2012 it were 323 and 390 respectively. M/F ratio of adult patients in these three years (2010, 2011, 2012) were-1.24:1, 1.27:1 and 1.28:1 respectively

M/F ratio of child patients in these three year (2010,2011,2012) were- 2.3/1, 2/1, 3/1 respectively. \*As, year 2010 was the year of beginning of this ART centre, so more number of patients were registered in this year (as it included the transferred patients from nearby other ART Centres), that is why the number of patients registered in subsequent year were less than year 2010.

**Table No. 4:** Distribution of the total HIV patient according to their Religion (n=1224)

| Community | M   | Male   |     | male   | M/F Ratio | Total |       |
|-----------|-----|--------|-----|--------|-----------|-------|-------|
| ·         | N0  | %      | N0  | %      |           | N0    | %     |
| Hindu     | 692 | 56.54  | 501 | 40.93  | 1.38/1    | 1193  | 97.46 |
| Muslim    | 17  | 01.38  | 6   | 00.49  | 2.83/1    | 23    | 01.87 |
| Sikh      | 2   | 00.16  | 1   | 00.08% | 2.00/1    | 3     | 00.24 |
| other     | 4   | 00.32  | 1   | 00.08% | 4.00/1    | 5     | 00.41 |
| Total     | 715 | 58.42% | 509 | 41.58% |           | 1224  | 100%  |

In above table, out of 1224 patients majority of patients 97.46% (n=1193) were Hindu, followed by Muslims 1.8% (n=23) and Sikh 0.24% (n=03). Other community were only 00.41% (n=05).

M/F ratio in Hindu, Muslim and Sikh community was 1.38/1, 2.8/1, and 2/1 respectively.

Table No. -5: Distribution of the patient according to their living place (Rural/Urban) (n=1224)

|              | Child patients(<15yrs) |        | Adult pati | ients(>15yrs) |              |
|--------------|------------------------|--------|------------|---------------|--------------|
| Living place | Male                   | Female | Male       | Female        | Total        |
| Rural        | 44                     | 20     | 453        | 326           | 843 (68.97%) |
| Urban        | 19                     | 6      | 199        | 157           | 381 (31.03%) |
| Total        | 63                     | 26     | 652        | 483           | 1224         |

In the above table, out of 1224 HIV patients, 68.97% (n=843) were belonged to the rural areas and 31.13% (n=381) were of urban areas (Rural-Urban ratio was 2.2/1).

M/F ratio in rural and urban area were 1.35/1 and 1.34/1 respectively. (no difference in gender preference of HIV in rural/urban area).

**Table No. 6:** Distribution of the total HIV patient according to their education status (n=1224)

|    |                                | N   | Male   | F   | emale  | M/F Ratio | 7    | [otal  |
|----|--------------------------------|-----|--------|-----|--------|-----------|------|--------|
| Ec | lucation Status                | No. | %      | No. | %      |           | No.  | %      |
| •  | Preschool children (i.e.<5yrs) | 21  | 01.71% | 7   | 00.57% | 3/1       | 28   | 2.3%   |
| •  | Illiterate                     | 168 | 13.72% | 190 | 15.52% | 0.88/1    | 358  | 29.24% |
| •  | Literate                       | 526 | 42.97% | 312 | 25.49% | 1.68/1    | 838  | 68.46% |
| a. | Up to Primary School           | 227 | 18.54% | 148 | 12.09% | 1.53/1    | 375  | 30.6%  |
| b. | Up to Middle school            | 41  | 03.34% | 40  | 03.26% | 1.02/1    | 81   | 6.6%   |
| c. | Up to High School              | 44  | 03.59% | 42  | 03.43% | 1.04/1    | 86   | 7.0%   |
| d. | Up to Higher secondary school  | 160 | 13.07% | 83  | 06.78% | 1.93/1    | 243  | 19.9%  |
| e. | Up to Graduation &<br>Above    | 35  | 02.85% | 18  | 01.47% | 1.94/1    | 53   | 7.6%   |
|    | Total                          | 715 | 58.42% | 509 | 41.58% | 1.40/1    | 1224 | 100.0% |

In the above table, out of 1224 patients, 68.46% (n=838) were literate while, 29.24% (n=358) were Illiterate and 2.3% were pre-school children (i.e. age <5 years).

Out of these total 838 (68.46%) literate patients, 30.60% (n=375) of HIV patients educated up to the primary school and 37.82% (n=463) were educated above the primary (i.e. up to middle school 6.6%, up to high school 7.0%, up to higher secondary school 19.9% and graduate & above were 7.6%).

**Table No. 7:** Distribution of the total HIV patients according to their occupation (n=1224)

| Occupation                          | N   | <b>Iale</b> | Fe  | male   | T    | otal   |
|-------------------------------------|-----|-------------|-----|--------|------|--------|
| -                                   | No. | %           | No. | %      | No.  | %      |
| Child <15yrs.*                      | 63  | 05.14%      | 26  | 02.13% | 89   | 7.27%  |
| Labourers (n=213/17.40%)            |     |             |     |        |      |        |
| a. Agricultural<br>Labourer         | 134 | 10.95%      | 12  | 00.98% | 146  | 11.93% |
| b. Non<br>Agricultural.<br>Labourer | 65  | 05.31%      | 2   | 00.16% | 67   | 05.47% |
| Service Man/women                   | 99  | 08.08%      | 14  |        | 113  | 10.9%  |
| Business Man/women                  | 34  | 02.74%      | 3   |        | 37   | 03.02% |
| Student                             | 45  | 03.68       | 23  |        | 68   | 05.55% |
| House Wife                          | 0   |             | 434 | 35.45% | 434  | 35.45% |
| Driver                              | 164 | 13.39%      | 0   |        | 164  | 13.39% |
| CSW*                                | 0   |             | 0   |        | 0    | 0.00%  |
| Unemployed                          | 35  |             | 7   |        | 42   | 3.40%  |
| Other                               | 57  |             | 7   |        | 64   | 05.22% |
| Total                               | 715 | 58.42%      | 509 | 41.58% | 1224 | 100.0% |

<sup>\*</sup>CSW( Commercial sex workers)

In above table, out of 1224 patients, 89 (7.27%) were children <15 years of age, they were are not included in any occupation category.

Out of the total 1224 HIV patients, majority of the HIV patients 66.24% (n=811) were from the three groups, which were housewife 35.45% (n=434), labourers 17.40% (n=213) and drivers 13.39% (n=164).

Out of the total adult male (652) patients most of were Driver 25.15% (n=164), Agricultural labourer 20.55% (n=134) and rest of them were either service class 15.18% (n=99), Non Agricultural labourer 9.96% (n=65), student 6.90% (n=45), business class 5.21% (n=34), or other occupation 8.74% (n=57).

Out of the total adult female (483) patients, most of were housewives 89.85% (n=434) and rest of them were students 04.76% (n=23), service class 02.89% (n=14), agricultural labourers 02.48% (n=12), unemployed 01.45 % (n=7), business class 00.62% (n=3), or other occupation 01.45% (n=7).

As out of total HIV patients, 3.43% patients were unemployed and 7.27% patients were children <15 yrs of age (i.e. unemployed.) So total number of unemployed patients in our study was 10.7% and there were no known CSW in this study.

Table No. 8: Distribution of the total HIV patient according to their Socio-Economic Status (n=1224)-

| Socio Economic Status      | N   | Male Female |     | M/F ratio | 1      | Total |       |
|----------------------------|-----|-------------|-----|-----------|--------|-------|-------|
| ( income per months in Rs) | No. | %           | No. | %         |        | No.   | %     |
| Class – I (>25000Rs)       | 1   | 00.08%      | 1   | 00.08%    | 1/1    | 2     | 0.16  |
| Class – II (25000-15000Rs) | 6   | 00.49%      | 1   | 00.08%    | 6/1    | 7     | 0.57  |
| Class – III (15000-5000Rs) | 58  | 04.73%      | 35  | 02.85%    | 1.65/1 | 93    | 7.6   |
| Class – IV (5000-2000Rs)   | 164 | 13.39%      | 98  | 08.00%    | 1.67/1 | 262   | 21.4  |
| Class – V (<2000Rs)        | 467 | 38.15%      | 393 | 32.10%    | 1.18/1 | 860   | 70.3  |
| Total                      | 715 | 58.42%      | 509 | 41.58%    | 1.40/1 | 1224  | 100.0 |

In above table, out of total 1224 HIV patients, majority of patients 99.23% (n=1215) were from lower three classes [i.e. Class III (7.6%) + Class IV (21.4%) +V (70.3%)].

Maximum number of HIV patients 70.3% (n=860) were from Lower class (i.e. class V) and minimum number of HIV patients 0.16% (n=2) were from upper class (i.e. class I).

**Table No. 9:** Distribution of the total HIV patient according to their Marital Status (n=1224)

|   |                        | ]   | Male   | Female | M/F Ratio |        | Total |       |
|---|------------------------|-----|--------|--------|-----------|--------|-------|-------|
|   | <b>Marital Status</b>  | No. | %      | No.    | %         | No.    | No.   | %     |
| • | Children <15 year      | 63  | 5.14   | 26     | 2.13      |        | 89    | 7.27% |
| • | Unmarried adult        | 43  | 02.94% | 17     | 01.06     | 2.7/1  | 60    | 4.9%  |
| • | Married adult          |     |        |        |           |        |       |       |
|   | a. Married             | 493 | 40.27% | 341    | 27.85%    | 1.44/1 | 834   | 68.1% |
|   | b. Widows/ widower     | 104 | 09.06% | 121    | 11.51%    | 0.78/1 | 225   | 20.6% |
|   | c. Divorced/ Separated | 9   | 00.16% | 3      |           |        | 12    | 0.2%  |
| • | Live-in                | 0   |        | 0      |           |        | 0     | 0.0%  |
| • | Unknown                | 03  | 00.16% | 01     | 00.08%    |        | 04    | 0.2%  |
|   | Total                  | 715 | 58.42% | 509    | 41.58%    | 1.40/1 | 1224  | 100%  |

In above observation out of total 1224 HIV patients 7.27% (n=89) were children <15 years of age (pre-marriage age group) and 92.27% (n=1135) were adult patient. Out of the total (1135) adult patients, 1071 (87.5%) were married or married once (i.e. widow/widower + divorce/ separate) and 4.9% (n=60) were unmarried.

Out of these adult patients, 0.2% (n=04) patients marital status were either unknown or unclear and there were no patients with live-in relationship in our study.

Out of these total (1071) married adult patients 46.03 % (n=493) male and 31.83% (n=341) female were married, 0.84% (n=9) male and 0.28 % (n=3) female were divorced/separated, 9.7% (n=104) male and 11.29% (n=121) female were widower and widow respectively so they had no live spouse.

| <b>Table No10</b> : Distribution of the total HIV patients according to their sexual habits (n-1224) | 1) |
|--|----|
|--|----|

|                                  | N        | <b>Tale</b> | Fe       | male   | M/F Ratio | Total |        |
|----------------------------------|----------|-------------|----------|--------|-----------|-------|--------|
| Sexual habit                     | No.      | %           | No.      | %      |           | No.   | %      |
| Children<15yrs.                  | 63 5.14% |             | 26 2.13% |        | 2.4/1     | 89    | 7.27%  |
| Adult HIV pts<br>(n=1135/92.73%) |          |             |          |        |           |       |        |
| Heterosexual                     | 647      | 51.30%      | 483      | 41.01% | 1.24/1    | 1130  | 92.32% |
| Homosexual                       | 2        |             | 0        | -      | -         | 2     | 00.16% |
| Bisexual.                        | 3        |             | 0        | -      | -         | 3     | 00.24% |
| Total                            | 715      | 58.42%      | 509      | 41.58% | 1.40/1    | 1224  | 100%   |

In the above observation, out of 1224 HIV patients, 89/7.27% were children <15 years of age and these were not consider as sexually active group of population, so there were no history of sexual habits in children. In above observation, 1135 were 'adult' patients and they were considered as sexually active group of patients. Out of 1135 sexually active adult patients, 1130/92.32% patients had heterosexual sex habits and only 2/0.16% were homosexual and 3/0.24% were bisexual sex habits and no female have homosexual or bisexual sex habit. Out of these 92.32% (n=1130) heterosexual patients 96.31% (n=647) were male and 100% (n=483) were female.

## DISCUSSION

In present study majority (90.92%) of HIV patient were within 20-49 years of age and maximum number of HIV patients (25.63%) were from the 35-39years of age. Our findings were comparable to the study done by Hitendra Kumar et al<sup>4</sup> where 89.3% ART attendees were between 20-50 yrs of age. Our study comparable to the study done by Umesh et al<sup>1</sup> where it was 81.4%(20-49 years) and by Parameswari Srijyanth et al<sup>5</sup> where it was 77.4%(18-41years).

In present study, out of total HIV patients male patients (58.41%) outnumbered the female patients (41.58%) and average M/F ratio in adult patients was 1.3/1 and in child patients it was 2.4/1. M/F ratio in a study done by Umesh et al $^1$  was 2.3/1 and in a study done by Kaiser Ahmed Wani et al $^6$  it was 7/1 .

In this present study 68.97% patient were from rural area and 31.03% were from urban area (i.e. R/U ratio=2.22/1). Number of rural patients in present study was comparable to the study done by Parameswar Srijayath et al <sup>5</sup>(68.5%) and to the study done by Umesh et al <sup>1</sup> (70.5%).

In our present study majority of HIV patients were from the Hindu community (97.46%) followed by Muslim (1.87%) and Sikh (0.24%). In a study done by Agrawal P et al<sup>7</sup> the Hindu were 94.8% and a study done by Umesh et al<sup>1</sup> where Hindu were 90.4%, Muslim were 5.8%, and 5.2% were belong to the Buddha community.

A study done by Baig vaseem N. et al $^8$  it was found that, Hindu were 86%, Muslim were 8.4% and Christian were 5.5%.our results are also comparable to this study.

In this present study with regard to the level of education 29.24% were Illiterate, 68.46 % were literate, and 2.28% were pre-school children (i.e. child<5 years of age). In a study done by Baig vaseems N et al<sup>8</sup> where illiterate patients were 31.0% and a study done by Hitendra Kumar et al<sup>4</sup> where illiterate patients were 24.0% these result were comparable to this study.

In our present study, out of total (1224) HIV patients, majority of HIV patients 811 (66.25%) were from three category of occupation i.e. housewife 434 (35.45%), labourer 213(17.40%), and driver 164 (13.39%). Only 3.43% HIV patients were unemployed and 7.2% were child <15years of age. In a study done by Agrawal P et al<sup>7</sup>, the Housewife were 28%, Driver were 25.5% and Labourers were 15.16%. In our study drivers were 13.39% that were 6.0% in a study done by Umesh et al <sup>1</sup>

In present study very minimum number of patient were in class I and II. It might be due to the two fact that is, in this rural area the number of people those who have income more than >15000-25000/month were 'very few', or, higher income directly related to the high education level it means high level of awareness for HIV. In a study done by Agrawal P et al<sup>7</sup> where middle class

and lower class constitute 34% and higher class constitute 4.3% of total HIV patients.

In our study, out of total 1224 HIV patients, 7.27% (n=89) were children <15years of age (premarriage age group) and 92.27% (n=1135) were adult patient. And out of these total adult patients (n=1071) were married or married at once (i.e. widow/widower + divorce/ separate) and 4.9% (n=60) were unmarried. A higher number of married (70.3%) person having HIV/AIDS was also reported in a study done by Jayrama et al<sup>9</sup> and in this study 'almost all' HIV positive widow gave history of death of their husband due to HIV/AIDS. It means most of women get infection from there husband. Similar finding were also reported by Baig Vaseem et al<sup>8</sup> where married patients were 75.5%. In our present study out of 1135 adult HIV patients, 99.55% (n=1130) [96.31% male and 100% female] were have heterosexual habit of sex and only 0.16% (n=2) were have homosexual and 0.24% (n=3) were have bisexual habit of sex and no female have homosexual or bisexual sex habit in our study. These finding were comparable to the study done by Umesh et al1, where heterosexual patient were 94% and to the study done by Gupta V et al 10, where heterosexual patients were 97%.

#### REFERENCES:

- Umesh S. Joge, Deepali S. Dev, and Rajesh N. Lakde et al. Socio-demographic and clinical profile of HIV/AIDS patient visiting to ART center at a rural tertiary care hospital in Maharashtra state of India. Available at , J Biomed Res 2012;3(2):1568-1572.
- Park K. Park's Text Book of Preventive and Social Medicine. 22<sup>th</sup>.ed Jabalpur (India): M/s Banarsidas Bhanot; 2011 page 316-319.
- National AIDS Control Organization. Combating HIV/AIDS in India, 1999-2000. New Delhi: Ministry of Health and Family Welfare, Government of India.

- 4. Hiten Kumar P Sonani and Ashwani Kumar M unghad et al. Clinical and demographic profile of patient registered at ART centre Smimmer, Surat. National journal of Community Medicine 2011: 2 (1):130-132.
- Parmeshwari Siyaram and S Valarmathi et al. Sociodemographic profile of HIV/AIDS patients at ART centre in Chennai, India. Accessed at http://www.biomedcentral.com /1471-2334/12/S/1/p53. Published on 4 may 2012.
- Kaiser Ahmed Wani. Clinical profile of HIV/AIDS patients in Srinagar, Kashmir, India. At dept. of microbiology Govt. medical college Srinager, Kashmir. Accessed at international journal of collaborative Research on internal Medicine & public Health. Vol.4 no .9 (2012).
- Agrawal P. and Mehta S et al. A study to the demographic profile of HIV positive patients registered at ART center SMS medical college & hospital Jaipur, India. Accessed on a journal (japi) topic –infectious diseases .page 106.
- Baig Vaseem N and Swanker Madhusudan et al- A study of Socio demographic profile and risk factor present in HIV infected patients attending ART centre in tertiary care hospital in Rajasthan, India. Available on National journal of Community Medicine Vol. 3 Issue 2 April-June 2012.
- Jayarama S and Shaliny Shenoy et al. Profile of Attendees in VTCT of a Medical college in costal Karnataka. Available at Indian journal of community Medicine (www.ijcm.org) , Volume 33, no 1;43-46, January 2008.
- Gupta V. Single N and Lehl S S et al. Clinicoepidemiological profile of HIV infection over a period of Six Year in a north India tertiary care hospital. Accessed at Indian journal of Med Microbol 2007;25:171.

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