HIV/AIDS-Related Stigma and Prevalent Attitude among Healthcare Trainees in Delhi

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ABSTRACT

Background: Despite growing awareness of HIV/AIDS the exact level of knowledge regarding the associated stigma among healthcare trainees needs to be ascertained. Their knowledge reflects the quality of care delivered by them in the future. Aims: This study aimed to assess the knowledge of stigma associated with HIV/AIDS among trainee healthcare students in Delhi. Settings and Design: cross-sectional survey design. Methods and Material: A total of two hundred healthcare students were contacted for the survey. The HIV stigma scale with 18 items was administered one-one /mail after receiving the informed consent. Finally, data were collected from one hundred and twenty-seven subjects after excluding the dropouts. Related statistical analysis was performed to examine the data. Statistical analysis used: Descriptive statistics were used for the variables. Results: Scores on the three domains reflected that the maximum number of subjects had awareness of the negative attitude and equity issues related to HIV/AIDS. Also, there seemed to be less recognition of the perceived discrimination prevalent within the community. Conclusions: This study reports on HIV/AIDS-related discriminatory attitudes and stigma encountered by persons living with HIV/AIDS. Such attitudes contribute to missed opportunities for prevention, education and treatment, undermining efforts to manage and prevent HIV. Thus, knowledge of healthcare trainees about HIV/AIDS-related stigma that can hinder efforts to manage and prevent HIV needs to be addressed.

Keywords: Stigma, attitude, HIV/AIDS, health care, awareness

INTRODUCTION

Stigma is common in many medical conditions including HIV. It has negative attributes of devaluing a person’s social identity resulting in the exclusion or avoidance of the person attached to such negative stereotypes.¹ The phenomenon of HIV is particularly remarkable due to fear, misunderstanding, secrecy, silence, and assumptions around it. Advances in treatment after the introduction of antiretroviral therapies (ART) have transformed an HIV diagnosis from a near-death stage to a manageable chronic stage. The related stigma and discrimination continue to be major barriers to the care, treatment, and prevention of HIV/AIDS. Stigma has a significant impact on the health and mental health of people living with HIV/AIDS (PLWHA).

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Over the past few decades, India has made substantial progress in its attempt to handle the HIV epidemic as compared with other countries in the region. The National AIDS Control Programme (NACP) Phase IV, targets high-risk groups with a major focus on stigma and discrimination. The implementation of the HIV AIDS (Prevention and Control) Act 2017 prohibits discrimination against PLWHA within employment, healthcare, education, public facilities, and public office, as well as protecting property and insurance rights. However, people living with HIV continue to experience high levels of discrimination. In 2016, a study demonstrated that a third of adults showed a discriminatory attitude towards people living with HIV. This is a similar level recorded a decade earlier in 2006, suggesting that current stigma-reduction activities do not work as expected.

Persons living with HIV/AIDS face high stigma in all spheres of life across the globe including India. Whether felt or enacted, there are universal human tendencies to think and behave in ways that label, blame, stigmatize, alienate, and discriminate against others. AIDS is perceived as a disease of others – where PLWHA is often considered wrong and sinful. A study of doctors, nurses, and ward staff in government and non-government clinics in Mumbai and Bengaluru in 2013 found that discriminatory attitudes were common. Similar findings were reported from Ujjian, Odisha and Delhi studies where stigmatizing behaviour was found across all categories of HCWs. This included a willingness to discourage women living with HIV from having children, endorsement of mandatory testing for female sex workers and surgery patients, and stating that people who acquired HIV through sex or drugs received what they deserved.

Such stigmatizing beliefs are then enacted, creating a distance either in perceived or real form PLWHA. If the stigmatizing individual is a healthcare provider the consequences are very impactful as this can influence access to and quality of care. Negative attitudes of healthcare providers toward PLWHA manifested through practices such as charting, isolation, breach of confidentiality, refusal to care, and testing without consent have been documented. Therefore, some PLWHA does not receive the needed support because of either low healthcare-seeking behaviour due to fear of stigma, or because of negligence by healthcare workers (HCWs). Stigmatizing interactions are often not recognized by healthcare providers as stigmatizing. For instance, visibly marking the files of PLWHA is considered an appropriate practice by some HCWs. Individual-level factors that affect the practice of HCWs include fear of casual transmission and limited knowledge of what stigma is and its negative consequences.

Stigma also impacts the well-being of healthcare professionals as they may be living with stigmatizing conditions (secondary stigma). It prevents them to disclose their work with HIV /AIDS patients, revealing their health status to colleagues, and being reluctant to access and engage in care. Despite recognizing stigma as a roadblock to HIV prevention efforts much less attention has been paid to developing effective stigma reduction programs and activities globally.

In India, research on this important topic is gaining momentum but is still in its infancy stage. The majority of the studies conducted to date have focused mainly on matters such as the pathogenesis of HIV infection, universal precautions related to HIV/AIDS, virology, and how HIV is transmitted. Studies focused on the HIV/AIDS patients’ perspectives and experiences have also documented the stigma and discrimination they face while availing of the treatment. Being in the healthcare discipline can mean knowing the disease but may not ensure a stigma-free compassionate approach in actual practice. A study showed that even the most senior HCWs do not have a complete understanding of HIV transmission and prevention.

A growing body of literature has shown the existence of stigma among healthcare professionals. Most of them measured the attitude of healthcare professionals towards PLWHA or attitude towards stigma-related issues in healthcare settings but none of them have enquired regarding their views and awareness about HIV-related stigma prevalent in the community. Hence a study that measures knowledge of HIV-related stigma in the community may be a better indicator of one's belief and also reflective of what one is
practising or going to practice in the field. Given the fact that health service settings and health care providers play a central role in testing, treatment, care, and rehabilitation available to PLWHA. Further, very few studies focussed on future professionals’ i.e. healthcare students particularly those in allied health.

Keeping these facts in mind the present study was planned. Students from the third to fourth years of Bachelors-of Nursing and Occupational Therapy both clinical disciplines with varying degrees of patient contact were included in the present study. This would provide a better understanding of students’ prior knowledge about stigma and their ability to recognise the prevalent attitudes and behaviour towards HIV/AIDS in the community. Having good information about HIV transmission is not, enough to guarantee that people will remember and act on the knowledge when encountering PLWHA. Also, students had a higher tendency to improve than HCPs.6

**Aim of the Study:** The present study aimed to assess and explore the knowledge of stigma associated with HIV/AIDS among trainee healthcare students in Delhi.

**MATERIALS AND METHODS**

This cross-sectional survey was conducted from October 2019 to December 2019 on healthcare trainee students of three government and two private nursing and occupational therapy colleges in Delhi. A total of two hundred students were contacted. Those unwilling or who had any apprehensions about participating in the study were excluded. A few of them contacted through emails did not respond within the stipulated time. Hence, the final sample size consisted of 127 bachelors of nursing and Bachelor of occupational therapy students. Data were collected by administering the stigma scale in person and through mail after obtaining their consent. Confidentiality and anonymity were ensured.

**Measures:** Data related to socio-demographic variables were collected with the help of a semi-structured Performa especially designed for the present study.

The HIV Stigma Scale3 by Genberg, et al. (2009) was used to study the HIV/AIDS stigma and attitudes prevalent among students. The scale comprises three subscales, negative attitude towards people who are living with HIV/AIDS (eight items), perceived discrimination in the community (six items), and support for equitable treatment of PLWHA (four items). It is a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). It is easy to administer and score. It took approximately fifteen minutes to fill it.

The response given for each item of the scale was entered into a Microsoft Excel spreadsheet and analyzed manually by the authors.

**RESULTS**

**Table 1: Socio-demographic characteristics of the participants (N=127)**

<table>
<thead>
<tr>
<th>Variables</th>
<th>N(%) /Mean ± SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disciplines</td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>77 (60.62%)</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>50 (39.37%)</td>
</tr>
<tr>
<td>Age (range = 20-24yrs)</td>
<td>21.99±1.01</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>15 (11.81%)</td>
</tr>
<tr>
<td>Female</td>
<td>112(88.19%)</td>
</tr>
<tr>
<td>Religion</td>
<td></td>
</tr>
<tr>
<td>Hinduism</td>
<td>107 (84.25%)</td>
</tr>
<tr>
<td>Sikhism</td>
<td>10 (7.87%)</td>
</tr>
<tr>
<td>Islam</td>
<td>4 (3.15%)</td>
</tr>
<tr>
<td>Christianity</td>
<td>4 (3.15%)</td>
</tr>
<tr>
<td>Jain</td>
<td>2 (1.57%)</td>
</tr>
</tbody>
</table>

Table 1 shows the socio-demographic characteristics of the participants. Out of the total of 127 participant training students, 77(60.62%) were Bachelor of Nursing and 50 (39.37%) were Bachelor of Occupational Therapy (O.T). The mean age of the BSc Nursing students was 21.8 years (Range 20-23years) with a standard deviation of ±0.95 whereas the mean age of Bachelor of Occupational Therapy Students was 22.16 years (Range 20-24 years) with a standard deviation of ±1.16 years. 67(87.01%) of the BSc Nursing students were female and 10 (12.99%) were male whereas 45 (90%) of the BSc Occupational Therapy were female and 5 (10%) were male. The majority of them i.e. 64(83.11%) of BSc Nursing students and 43(86%) Bachelors of Occupational Therapy were Hindu.
Table 2 HIV Related Stigma: Negative Attitude, Perceived Discrimination & Equity to PLWHA (N=127)

<table>
<thead>
<tr>
<th>Domain</th>
<th>Description</th>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Agree</th>
<th>Strongly Agree</th>
<th>No Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Negative Attitude</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Families of PLWHA should be ashamed</td>
<td>95 (74.0)</td>
<td>21 (16.0)</td>
<td>1 (.78)</td>
<td>7 (5.5)</td>
<td>0 (0.0)</td>
<td>3 (2.36)</td>
<td></td>
</tr>
<tr>
<td>2. PLWHA should be ashamed</td>
<td>93 (73.2)</td>
<td>26 (20.47)</td>
<td>5 (3.93)</td>
<td>3 (2.36)</td>
<td>0 (0.0)</td>
<td>0 (0.0)</td>
<td></td>
</tr>
<tr>
<td>3. PLWHA are cursed</td>
<td>88 (66.1)</td>
<td>36 (28.34)</td>
<td>5 (3.93)</td>
<td>1 (.78)</td>
<td>0 (0.0)</td>
<td>1 (.78)</td>
<td></td>
</tr>
<tr>
<td>4. PLWHA are disgusting</td>
<td>86 (67.7)</td>
<td>37 (29.13)</td>
<td>2 (1.57)</td>
<td>1 (.78)</td>
<td>0 (0.0)</td>
<td>1 (.78)</td>
<td></td>
</tr>
<tr>
<td>5. PLWHA deserve to be punished</td>
<td>109 (85.8)</td>
<td>11 (8.66)</td>
<td>4 (3.14)</td>
<td>2 (1.57)</td>
<td>1 (.78)</td>
<td>0 (0.0)</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>It is reasonable for an employer to fire people who have AIDS</td>
<td>89 (70.07)</td>
<td>25 (19.68)</td>
<td>9 (7.08)</td>
<td>3 (2.36)</td>
<td>1 (.78)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>7.</td>
<td>PLWHA should be isolated from other people</td>
<td>79 (62.2)</td>
<td>31 (24.4)</td>
<td>6 (4.72)</td>
<td>5 (3.93)</td>
<td>4 (3.15)</td>
<td>2 (1.57)</td>
</tr>
<tr>
<td>8.</td>
<td>PLWHA should not have the same freedom as other people</td>
<td>88 (69.2)</td>
<td>20 (15.74)</td>
<td>5 (3.93)</td>
<td>11 (8.66)</td>
<td>3 (2.36)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>2.</td>
<td>Perceived Discrimination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>PLWHA in the community face rejection from their peers</td>
<td>15 (11.8)</td>
<td>12 (9.45)</td>
<td>16 (12.6)</td>
<td>47 (37.01)</td>
<td>36 (28.35)</td>
<td>1 (.78)</td>
</tr>
<tr>
<td>10.</td>
<td>PLWHA in this community face verbal abuse or teasing</td>
<td>14 (11.0)</td>
<td>7 (5.51)</td>
<td>18 (14.17)</td>
<td>63 (49.61)</td>
<td>23 (18.11)</td>
<td>2 (1.57)</td>
</tr>
<tr>
<td>11.</td>
<td>PLWHA in this community face neglect from their family</td>
<td>9 (7.08)</td>
<td>12 (9.44)</td>
<td>31 (24.4)</td>
<td>54 (42.51)</td>
<td>21 (16.53)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>12.</td>
<td>People who are suspected of having HIV/AIDS lose respect in the community</td>
<td>15 (11.8)</td>
<td>10 (7.87)</td>
<td>19 (14.96)</td>
<td>57 (44.88)</td>
<td>26 (20.47)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>13.</td>
<td>PLWHA in this community face physical abuse</td>
<td>16 (12.5)</td>
<td>13 (10.23)</td>
<td>33 (25.98)</td>
<td>51 (40.15)</td>
<td>14 (11.02)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>14.</td>
<td>Most people would not buy vegetables from a shopkeeper or food seller that they knew had AIDS</td>
<td>9 (7.08)</td>
<td>18 (14.17)</td>
<td>23 (18.11)</td>
<td>52 (40.94)</td>
<td>24 (18.89)</td>
<td>1 (.78)</td>
</tr>
<tr>
<td>3.</td>
<td>Equity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>People with AIDS should be treated similarly by health professionals as people with other illnesses</td>
<td>8 (6.29)</td>
<td>10 (7.87)</td>
<td>7 (5.51)</td>
<td>30 (23.62)</td>
<td>72 (56.69)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>16.</td>
<td>People with AIDS should be allowed to fully participate in social events in this community</td>
<td>10 (7.87)</td>
<td>2 (1.57)</td>
<td>8 (6.29)</td>
<td>31 (24.41)</td>
<td>75 (50.05)</td>
<td>1 (.78)</td>
</tr>
<tr>
<td>17.</td>
<td>People with AIDS should be allowed to work with other people</td>
<td>10 (7.87)</td>
<td>5 (3.93)</td>
<td>6 (4.72)</td>
<td>35 (27.55)</td>
<td>70 (55.11)</td>
<td>1 (7.8)</td>
</tr>
<tr>
<td>18.</td>
<td>PLWHA should be treated the same as everyone else</td>
<td>14 (11.02)</td>
<td>3 (2.36)</td>
<td>4 (3.15)</td>
<td>30 (23.62)</td>
<td>76 (59.84)</td>
<td>0 (0.0)</td>
</tr>
</tbody>
</table>
DISCUSSION

Despite global progress in the treatment and care of PLWHA, substantial evidence from different parts of the world highlights HIV/AIDS-related stigma as a barrier to HIV prevention work and in mitigating its impact. In healthcare facilities, the manifestations of stigma are preventing an individual from seeking health services at a time when they are in most need of them. Therefore, the present study attempted to assess the knowledge of HIV-related stigma among healthcare trainees who are going to be healthcare providers. Hence, it would be a more direct indicator of the quality of care to be delivered by them in the future.

Socio-demographic characteristics of the participants

The majority of the students in the present study were females (88.18%) and Hindus (84.25%) which is consistent with the findings of Ekstrand et al. and Shivali while Christianity was the next most common. This indicates that both professions are historically female-dominated. A study by Vyas et al. within religious communities in rural Gujarat, India suggested that HIV/AIDS awareness programs may need to focus on young unemployed men because they may be the most susceptible to stigmatic thinking.

The knowledge regarding stigma and attitudes prevalent towards HIV/AIDS

In the present study in Domain 1 majority of the students (from items No.1-8) had disagreed with statements about Negative attitudes and thus had a favourable attitude towards PLWHA (Table 2 Section Domain 1). These findings are contrary to the results of previous studies. This could be because many of the nursing participants were involved in tertiary care hospitals with ART centres and PPTCT centres. In a study by Steward et al., 71% of HIV-positive individuals reported no instance of discrimination, consistent with many studies in India where it was found that...
enacted stigma is not very high but the perceived stigma is high.\textsuperscript{21}

Findings of \textit{Perceived Discrimination in the community in Domain 2} showed that most of the participants took a neutral to slightly favourable stand as depicted between items no.9-14 (Table 2 Section Domain 2). This indicates the lack of complete understanding of the disabling consequences of HIV/AIDS faced by PLWHA in society. The reason could be that healthcare trainees share the same belief as a part of the larger society. Thus, the current sample size w

The results of items 15 to 18 (Domain 3), as represented in Table 2 revealed that a good number of the respondents had opined for equity for PLWHA and were in favour of providing equal treatment, opportunity, and participation similar to others. The current findings are contrary to the previous study done by Nyblade et al.\textsuperscript{13} The probable reason may be the change of approach from a welfare approach to a rights-based perspective. It also reflects the changing attitude among trainee health professionals and the ethical responsibility associated with it. Most of the respondents advocated for an equitable approach may be due to the training and increased understanding of the equitable rights of people with disabilities in general contrary to Indian studies on students.\textsuperscript{30}

Despite a very favourable finding, in contrast to previous studies,\textsuperscript{6,7,9} there were subtle issues that indicated that knowing may not translate into compassionate behaviour; for example, many nursing students were apprehensive of disclosing their names even though they were willing to participate in the study. Many expressed discomfort with the idea of working with such a population out of fear, due to lack of exposure and training.

\textbf{Limitations}

This study has the following limitations:

- The sample was collected using a convenient sampling technique and the sample size was small; hence, the generalization of the results remains doubtful.
- Males were underrepresented in the current sample. The sample predominantly consisted of females, which cannot be seen as representative of the community populations.
- Only two groups of healthcare trainee professionals were involved. Hence one cannot be certain to what extent our findings can be generalized to other groups.
- A Self-administered questionnaire was used

\textbf{Future Direction}

1. In the future, such a study should be carried out with a larger sample with equal representation of genders, crossed discipline and cross-disease.
2. Develop culture-specific sensitive tools for stigma measurement in HIV.
3. Develop and test stigma reduction interventions tailored to the local context and culture that tackle multiple stigmas at once, target all levels of staff and focus on empowerment.

\textbf{CONCLUSION}

The trainee health care students agreed less to statements on negative attitudes and more to the need to offer equity to PLWHA. However, they had less awareness of perceived discrimination within the community. Since some gaps about discriminatory practices persist in the participant’s knowledge. A better understanding of the student's prior knowledge about stigma and recognition of the prevalent attitudes and behaviour towards HIV/AIDS would serve as a tool to create better educational programs dealing with stigma and encouraging empathy toward patients.

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\textbf{REFERENCES}


18. Agarwal AS, Maurya AA and Siddiqui WA. Knowledge and attitude of medical

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