



Survey on the Cognition of HIV/AIDS Among Freshmen of Midwifery Major in Nursing Department

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Abstract: *Background:* Midwives were a special group of nurses whose jobs were to assist obstetricians in ensuring the safety of mothers and newborns. It was important that their high knowledge of preventing human immunodeficiency virus (HIV) transmission for preventing mother-to-child transmission of HIV. In order to understand and strengthen their knowledge of HIV and acquired immunodeficiency syndrome (AIDS). When the new students of midwife first came to college the study of their awareness for HIV was carried out. *Objective:* The main aim of this study was to understand the awareness rate and provide basis of health education about the AIDS among new students of midwife. *Materials and Methods:* 146 new students of midwives were surveyed about the knowledge of AIDS with questionnaire survey method. *Result:* Findings revealed that knowledge level of AIDS were low among the new students of midwives. *Conclusion and Recommendation:* Learning of sexual knowledge and HIV/AIDS should be strengthened for the new students of midwives. The curriculum about HIV/AIDS knowledge should be specially set up.

Keywords: HIV, AIDS, Midwife, New Student

1. Introduction

AIDS was a serious human immunodeficiency disease caused by infection with HIV. After human body were infected by the HIV, the immune system of the human body were destroyed and resulted in the exceeding low the ability of resisting disease, which eventually led to systemic failure and death.

The three ways of AIDS transmission were sexual transmission, blood transmission and mother-to-child transmission. The sexual transmission was through male homosexual contact or male and female heterosexual contact. The blood transmission was through blood and blood products transfusion. Contaminated injection needles and needle tubes and surgical and dental instruments. The mother-to-child transmission was perinatal transmission through the placenta,

the birth canal of childbirth and breastfeeding.

Job of the midwife was to perform normal delivery or dystocia delivery under the guidance of obstetricians every day. If the midwife had a wealth of knowledge about the pathogens, transmission routes, and hazards of HIV/AIDS and how to prevent and block the transmission of AIDS, it was of great significance to block mother-to-child transmission among the three transmission routes of AIDS.

AIDS caused by HIV infection not only brought catastrophic harm to human health, but also infected vertically through mother-to-child reproductive links and affected the rare reproduction of human offspring. Since AIDS and its pathogens were recognized by scientists, people had realized its harm to human survival and development. Effective measures to prevent and treat AIDS had been formulated worldwide such as effective treatment drugs and prenatal care

for pregnant women with HIV. So that pregnant women with HIV received continuous education and support throughout their pregnancy to achieve a healthy perinatal outcomes of women and newborns [1-4].

Midwifery students were a special group in the nursing specialty of medical specialties and the main force for future maternity work. Their work included nursing general pregnant women and pregnant women with HIV/AIDS. They not only need to prevent HIV/AIDS themselves, but also spread prevention knowledge about HIV/AIDS to the pregnant women. Therefore, they are not only the goals of AIDS health education, but they also bear inevitable responsibilities in the health education of AIDS prevention [3].

In order to effectively block the mother-to-child transmission of HIV/AIDS, midwives played a very important role in their delivery arrangements. Midwives must understand in who receives care and when, who provides care, the working conditions of those who provide care, coordination of care amongst different providers, where care is provided, the use of information and communication technology to deliver care, and quality and safety systems [4-6].

Midwives were the main force in future maternity work. They worked dealing with mothers and babies and performed the important task of preventing iatrogenic transmission every day. Their knowledge of preventing AIDS directly affected the prevention of AIDS and their own health [3, 7].

In order to understanding knowledge of HIV/AIDS mastered by the midwifery students, The investigation of AIDS-related knowledge was executed between 146 midwifery students who just entered the Zunyi Medical College in 2014.

2. Methods and Materials

146 of midwife students enrolled in the 2014 grade of Zunyi Medical College were selected as the survey subjects. All of

them were girls. The youngest was 18 years old and the oldest was 25 years old, with an average of (20.23±2.53) years old.

The forms formulated with reference to relevant domestic and foreign materials of midwife students were issued uniformly by the teacher. They filled out the forms followed the requirements of the form items when students, they filled out the form, according to the requirements of the form items.

The forms filled out were anonymous. When they fill out the form they don't inspire, discuss, or communicate with each other. The items in the form were filled out independently by the students. The questionnaire was turned in on the spot when it was completed. There were 146 people in this survey, and 146 valid questionnaires were collected. The recovery rate was 100.0%.

3. Results

Although 143/146 (97.94%) midwife students knew that AIDS was an infectious disease, only 1/146 (0.58%) student can write HIV and AIDS word correctly. The definition of HIV was known to be 7/146 (4.79%). The abbreviation (AIDS) of acquired immunodeficiency syndrome was known to be 26/146 (17.80%), 25/146 (17.12%) Knew how AIDS was transmitted. 35/146 (23.97%) Knew that the incidence of AIDS had increased in recent years in China. 12/146 (8.22%) Knew that the AIDS cannot transmitted by mosquito biting. 10/146 (6.85%) Knew that the AIDS cannot transmitted by swimming and squatting in the toilet. 15/146 (10.2%) Knew that AIDS cannot be transmitted through shaking hands and eating together. 8/146 (5.4 8%) Knew that the AIDS cannot transmitted by kissing. 86/146 (58.90%) knew HIV can be transmitted to the fetus through the mother's placenta and infant through the mother's milk. 1/146 (0.58%) Knew that women infected with HIV can get pregnant after intervention with anti-HIV drugs. (Table 1)

Table 1. Awareness rate of AIDS knowledge among midwifery freshmen.

Knowledge area	Correct Answer No (%)	Incorrect Answer No (%)
AIDS was an infectious disease	143/146 (97.94)	3/146 (2.06)
wrote HIV and AIDS word correctly	1/146 (0.58)	145/146 (99.42)
definition of HIV	7/146 (4.79)	139/146 (95.21)
Abbreviation of AIDS)	26/146 (17.80)	120/146 (82.20)
how AIDS was transmitted	25/146 (17.12)	121/146 (82.88)
Increasing AIDS incidenced in China	35/146 (23.97)	111/146 (76.03)
mosquito cannot transmitted AIDS	12/146 (8.22)	134/146 (91.78)
AIDS cannot transmitted by		
Swimming and squatting toilet	10/146 (6.85%)	136/146 (93.15%)
AIDS cannot be transmitted through		
shaking hands and eating together	15/146 (10.20%)	131/146 (89.80%)
AIDS cannot transmitted by kissin	8/146 (5.4 8%)	138/146 (94.52%)
AIDS can be transmitted by the		
placenta and mother's milk	86/146 (58.90%)	60/146 (41.10%)
women with HIV may be pregnant		
after intervention with anti-HIV drug 1/146 (0.58%)	145/146 (99.42%)	

4. Discussion

Midwives were a special team of nurses whose job was to assist obstetricians and gynecologists to ensure the safety of mothers and newborns. They used their understanding and knowledge of AIDS prevention and treatment to educate women in the perinatal care period and young women who want to become pregnant. Modern study of treatment showed that the married couples infected by HIV can delivered healthy babies through effectively anti-AIDS drug blocking. It was a very important that midwives had a good grasp of HIV/AIDS prevention knowledge to prevent and treat HIV/AIDS during pregnancy and pregnancy. In order to decide whether to increase or decrease the learning content about HIV/AIDS in future medical courses, we did this survey before they studied medical courses.

The current incidence of AIDS in the China was around 9%. According to statistics, there were about 1.25 million people with HIV in the China that there were 1.4 billion people in the country. The main way of transmission of AIDS was through extramarital sex without protective measures. The main way of transmission of AIDS for men was male homosexuality. Other transmission ways were invasive operations in informal institutions, intravenous drug use, and mother-to-child transmission. AIDS cannot be spread through the sweat, saliva, tears, and urine.

In a hospita, research by Liu Zhimei [8] find out that there wrer 868 cases of HIV positive antibody patients through HIV screening in 54784 cases inpatients of internal medicine requiring blood transfusion and 271,431 cases of surgical inpatients requiring surgery and 49,697 cases of Sexually transmitted diseases (STD) outpatients in STD clinics from January 2002 to December 2012. Before admission all 375912 cases did not provide to the doctor with an HIV-positive medical history. Among 868 cases of HIV positive antibody patients, there were 7 cases of college students and 3 cases of middle school student. It indicated that the epidemic situation of HIV infection is still severe due to insufficient sex knowledge education and awareness of the harmfulness of HIV infection. College students and middle school students are at greater risk of HIV infection. College students had been listed as the high-risk group of HIV/AIDS by National Health Commission and of people's Republic of China [9-11].

The awareness rate of/HIVAIDS among new midwives was worrying according to the survey results, Although the vast majority of students (97.94%) knew AIDS was an infectious disease, but they know a little about the detailed knowledge of HIV/AIDS. For example, no student could write the full English name of HIV/AIDS correctly, only 2 students could answered the three transmissible routes of AIDS completely, and only 25 students (17.12%) could answer the correct one or two routes. There had been poor understanding whether HIV can spread by the mosquito bites, the swimming pools, shaking hands, eating, kissing and toilets.

During the 12 years of primary and secondary education before entering university, Chinese college students spend a

lot of time on learning all kinds of examinative knowledge. Education of sexual knowledge was not well carried out in many schools. Boys and girls have less knowledge about sex, especially about infectious diseases that can be transmitted through sexual contact such as HIV/AIDS. A little of the sexual knowledge was learned only occasionally from the press, the news and the television. The midwife profession was a special group in the nursing profession. They were the target of AIDS health education before working and instructor of HIV/AIDS prevention after working with pregnant women and newborns every day, It's of great significance to improve the quality of HIV/AIDS prevention and treatment in China if midwife had mastered the knowledge of HIV/AIDS prevention and control and carry out publicity among pregnant women especially in preventing mother-to-child transmission of HIV/AIDS.

A survey had been conducted on the knowledge of HIV/AIDS among university students in some domestic colleges and universities in the China. The results were not satisfactory. The knowledge of prevention and treatment of HIV/AIDS was related to sexual knowledge education and HIV/AIDS knowledge rather than with the increasing of learning years [12-15]. Our investigatiive results shew that it was very important to strengthen the HIV/AIDS knowledge education of midwives. We will invite relevant experts to carry out prevention and treatment lectures of HIV/AIDS to improve the ability of midwives to prevent and treat HIV/AIDS.

Midwives and obstetricians played a very important role in interrupting the transmission of HIV/AIDS. Prevention and treatment courses of HIV/AIDS should be studied by the midwives during their medical school and Strengthened in the work. These midwives then organized pregnant women and parturients to learn about the knowledge to prevented HIV/AIDS. These are very important to prevent the mother-to-child transmission of HIV/AIDS and the mother's physical and mental health [16, 17]. The HIV/AIDS prevention and treatment courses are recommended in the midwife profession.

Conflict of Interests

The authors declare that there is no conflict of interests regarding the publication of this paper.

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