INTRODUCTION

Human Immunodeficiency Virus (HIV) that causes Acquired Immune Deficiency Syndrome (AIDS) is one of the world’s most serious health and nation-state destructions. It creates long-term economic and psychosocial impact on the lives of individuals, families and communities. Since the first reported case of HIV/AIDS in Malaysia in 1986, its prevalence has escalated significantly. As of December 2017, there are over 115,263 reported cases of HIV infections in the country and over 40,000 people died from HIV/AIDS. Although many religious people regarded HIV infection as a divine punishment for their sins of sexual promiscuity, Islamic teaching emphasises the prevention of the disease and care for people living with HIV or AIDS. It is imperative to discuss the Islamic perspectives in providing ways to prevent the spread of HIV and support to people living with HIV (PLHIV). This article focuses on epidemiological data; highlight the burden of HIV infection/AIDS in Malaysia and its impact on the society, HIV infection from medical perspective and its preventive measures from Islamic viewpoints. A good teamwork among healthcare providers and religious leaders is compulsory as it may improve the preventive strategies to curb the disease in the country.

DEMOGRAPHIC BACKGROUND

Since beginning of the epidemic, HIV burden relies heavily on government financial resource as in 2017, the total expenditure for HIV response was RM144 million and more than 95% was funded by domestic public source. Six states in Peninsula Malaysia; Johor (15.6%), Selangor (15.7%), Kelantan (10.3%), Pahang (9.6%) and Terengganu (8.4%) and WPKL (8.7%) account for more than two thirds of all PLHIV in Malaysia. Generally, PLHIV is predominant among males (89%) but over time, the percentage of new cases HIV positive in women is increasing from 9.5% in 2000 to 13.6% in 2017. Data in 2017 showed a total reported HIV infection in Malaysia as 115,263 (1986-2017), with total reported HIV among people who are injecting drug (PWID) and sexually transmitted HIV as 68,507 and 36,237 respectively. The pattern has shifted from PWID to sexual transmission with PWID/sexual transmission ratio reversing significantly from 3:1 to 1:18 in 2017. Out of 3,347 new HIV infections, 77% were between the aged of 20-39 years, 457 were female and 22 new cases of children aged less than 13 years old. Majority of new infection were from homosexual/bisexual (51%) and heterosexual (40%) transmission whilst vertical transmission (mother-to-child) was 1% and among PWID was 3%. The increasing rate of sexual transmission and HIV infection in women is alarming as it could increase mother-to-child transmission as the consequence if primary intervention is not effective. Table 1 shows regional and Malaysian HIV statistic as in 2017.

MEDICAL PERSPECTIVE

HIV Infection

HIV is a retrovirus that has several targets including dendritic cells, macrophages and CD4+ T cells which are important for body immune defense. HIV-1 generally enters the host through ano-genital mucosa and then disseminates to organs once it enters the blood. It reproduces and kills the cells. Eventually the body loses its ability to fight the HIV and is now unable to form protection from any kind of infection thus progresses to AIDS if untreated. Acute HIV infection can mimic other viral infections and can be difficult to diagnose unless it involves key population groups who are at increased risk of HIV. Key population group is defined as vulnerable and most-at-risk persons including: young men who have sex with men, drug users, injecting drug users and people who have had sexual contact with an infected partner. These groups are at increased risk of HIV-related complications and are therefore targets for special interventions. The prevention of HIV/AIDS is based on a combination of behaviour modification and early intervention with drug therapy and support. Prevention strategies target both individuals and communities and require a comprehensive and multidisciplinary approach. This article will focus on the prevention strategies from Islamic points of view.
-risk population which includes PWID, female sex workers (FSW), transgender people (TG) and men who have sex with men (MSM). They represent the most severely affected population with infection rates exceeding 5% and a large proportion of them are above 25 years old.\(^3\) In Malaysia, HIV serology test is used as a screening test to key population group and this test is also used in pre-marital and antenatal screening.

_Treatment as Prevention_

Basic principles of healing are to maintain good health, treatment of arising diseases and prevention. The act of healing is already Islamic and with guidance, Al-Qur’an offers the complete healing for all mental, spiritual and physical diseases as recited in surah al-Isra’ 17:82 “And We send down of the Qur’an that which is healing and merciful for the believers, but it does not increase the wrongdoers except in loss”.\(^4\) Significantly treating HIV infection is an important concern in Islamic perspective relating to maintaining good health and to curb the disease transmission. Antiretroviral therapy (ART) plays a pivotal role in preventing transmission and to help infected people to stay healthy. Antiviral drugs suppress the viral load to undetectable level and increase the CD4 count to improve immune competency and are thus essential to be taken lifelong. In Malaysia as of 2017, only 54\% of adults and children living with HIV have access to ART which was lower than the estimated target of 79\%.\(^3\)

Although Malaysia has made a significant progress since 1990 in expanding the availability and accessibility of the treatment and prevention, more efforts need to be engaged on psychosocial issues especially related to welfare, care and support in order to increase the number of PLHIV receiving treatment and to enhance long-term follow-up. The latest Malaysian Consensus Guidelines on ART (2017) recommends that starting ART to all adults (>18 years old) with HIV regardless of the CD4 count.\(^5\) The consensus indicates that all known PLHIV should receive ART no matter how psychosocially impoverished or geographically isolated they may be. Studies revealed that ART improves survival and delays progression of the disease. A few studies supported the initiation of ART regardless of CD4 count.\(^6,7\) Prophet Mohammad (Sallallaahu Alaihi Wasallam) said, “Allah has sent down diseases and for every disease there is a cure. So take your medicine but do not use anything haram (unlawful) as medicine.” [Narrated by Abu l-Darda (Radiallahu anha). Sunan Abu Dawud]. The hadith above point that more out-reach programme should be organized by medical and Islamic workforces to work hand in hand with local communities to educate and cultivate awareness of HIV infection so that people can come forward to test for HIV and subsequently if needful, to take early treatment to suppress the viral load as this would substantially contribute to HIV prevention.

_Eliminating Mother-To-Child Transmission as Prevention_

Mother-to-child risk of infection is 5\%-15\% during pregnancy, 20\% during delivery and 33\% during breast feeding. Without any intervention, between 30\%-45\% of children born to HIV positive mothers will become infected.\(^8,9\) The risk of mother-to-child transmission can be reduced to less than 2\% by prescribing ART during pregnancy, recommending caesarian section and avoiding breast feeding. Integrated strategies for eliminating mother-to-child transmission (MTCT) in Malaysia include premarital and antenatal screening of HIV, treatment policy for pregnant mothers, prevention of transmission through delivery and breastfeeding, treatment prophylaxis for infants delivered by PLHIV mother and HIV care for mother and child as shown in Figure 1. Some mother will feel demoralized for not breastfeeding their children. However, prevention of transmission through breast milk is necessary to ensure the child be free from the disease. The religious laws regarding breastfeeding may give parents a degree of flexibility as He says in the Quran al-Nisa’ 4:43 “And if you are ill, or on a journey, or one of you comes after answering the call of nature, or you have been in contact with women (by sexual relations) and you find no water, perform Tayammum with clean earth and rub therewith your faces and hands (Tayammum)”\(^4\) The recitation points toward that occasionally to maintain health, the ‘sick’ person is prevented from using water lest it harms him and alternative method is advisable.

Nonetheless, prevention of mother-to-child transmission (PMTCT) should start from adolescent period where engagement to premarital sex may have possibly occurred. The prevalence of adolescent aged 12-17 years old in Malaysia
and religious inputs by various agencies working as a team. When viewed through the Islamic principles of the preservation and protection of the faith, life and health, harm reduction programme is allowable and in fact provide an applied solution to the problem that could result in far greater damage to the society at large if left unaddressed. As He says in the Quran al-Baqarah’ 2:173 “But whoever is forced [by necessity], neither desiring [it] nor transgressing [its limit], there is no sin upon him. Indeed, Allah is Forgiving and Merciful”.

Figure 1: Eliminating MTCT Program in Malaysia from 2015 onward

reported with ever-had sex was 8.3%. Although the prevalence of premarital sex among school-going adolescents in Malaysia is relatively low, it could still give a great impact to the increment of HIV sexual transmission.

Figure-2 shows integrated strategies for PMTCT. Primary prevention should start early during adolescent period when the girls are already in childbearing age and more exposed to peer influence and curiosity. Harm reduction programme in Malaysia refers to methadone maintenance therapy (MMT) and needle syringe exchange programme (NSEP) which aims at preventing HIV infection by reducing sharing of contaminated needles, and was introduced in 2006. Additionally, free condoms are also made available in certain NGO and government outlets to prevent unprotected sex. Harm reduction programme has revealed a significant reduction of notification rate of new cases from 21.88% in 2006 to 16.74 in 2007 and continuously decreasing to 10.3% in 2017. These programme have also been shown to be cost-effective as well as averting approximately 12,000 new HIV infections. For future expansion, increased awareness and understanding of the concept of harm reduction from the Islamic perspective should be attempted. Harm reduction programme should be integrated with awareness, counselling, spiritual

Though the nation has provided PLHIV and their families undivided provision of care, treatment and supports; many PLHIV still fear stigmatization and discrimination which may lead to compromise of care. Emotional reactions which present as psychological distress through anger, fear, depression and denial worsened over time as the PLHIV faces family break-up, financial debility and loss of spouse. PLHIVs are more likely to develop mental distress in comparison with other chronic diseases. Effective counselling has a positive effect on patients coping with the disease and psychological distress. Counselling emphasizes on coping strategies which are essential for PLHIV. The involvement of religious leaders in these counselling sessions should be seriously considered. A study has shown when given proper training, religious leaders can become strong allies in HIV/AIDS prevention and control programme focused on awareness creation, constructive behavioral change, and the elimination of stigma and discrimination against PLHIV. Thus, cultivating spiritual and Islamic input during medical counselling could definitely give better outcome in curbing the disease.
ISLAMIC PERSPECTIVE

Religious Approaches As A Prevention Strategy For HIV Transmission

Malaysia is a country comprised of multi-cultural and multi-religious population with Muslim being predominant. Religious approach particularly Islamic approach for HIV prevention could be one of the key strategies in preventing HIV transmission. Studies have found that Muslims who adhere more to Islamic teaching such as fasting, praying and forbidding prohibited act have lower risk to get HIV infection.15 Another study found that circumcision, a compulsory act practices by all Muslim males have the potential to reduce HIV transmission from infected female to uninfected male partner.16 These findings support the Islamic approach as a prevention strategy to reduce HIV transmission. Since the current shift of HIV transmissions from intravenous drug user to sexual related activities, these Islamic practices should be the focus of any approach planned.

Preserving a Safe and Healthy Sexual Life as Part of Prevention from HIV Infection

The Islamic teachings on the prevention and treatment of HIV/AIDS cover various aspects. These include the Islamic teachings in which men and women are obligated to guide and preserve sexual life (al-zawaj wa almuhafazah ‘ala al-usrah). In this aspect, Islam presents integrated teachings that are set to guide and assist men and women to enjoy healthy and preserved marital life as mention in the Holy Quran chapter 2 verses 187 and chapter 30 verses 21.4

These integrated teachings address various aspects of healthy social relations including encouraging marriage, preservation of sexual health and fulfilling dignified sexual desires by encouraging fidelity. Fidelity approach has been suggested to reduce HIV transmission.17 Promoting fidelity have been found to be effective in reducing the HIV transmission especially in a community with high prevalence of ‘religious people’.18 This finding is definitely relevant in our country.

One of the basic Islamic teachings on social life is the promotion of marriage (al-zawaj); a legal union between man and woman by means of mutually agreed contract, and formally approved by relevant parts and authorities. As mentioned in chapter 24, verse 32.4 single men and women are invited to get married, whereby the Qur’an mentions that as long as unmarried individuals are physically and psychologically fit, financial challenges should not be an obstacle in preventing them to get married. Scientifically, studies have shown that being married reduced the risk for a man to have sex with other man.19 Marriage also reduced the behavior of unprotected anal sex among heterosexual intravenous drug users20 and another study found that being married will reduce the risk of having sex with multiple sexual partners.21 Additionally, a study also found that Muslim women perceived marriage as a way to protect them from abuse and oppression.22 Unlike other religious traditions, in which celibacy is promoted, Islam instead encourages marriage, which according to Islam is an effective way of guiding and appreciating sexual desires. Moreover, another study has found that promoting abstinence was ineffective in reducing HIV risk behaviors including sexual related activities.23

It is interesting to note that, in verse 32, chapter 17 of the Qur’an states that Islam aims for regulated sexual intimacy with the prohibition of adultery and

Table 1: Regional & Malaysia HIV Statistics—2017

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<th>Prevalence Of People Living With Hiv (Pihiv) (%)</th>
<th>Prevalence Of Women &amp; Girls With Hiv (%)</th>
<th>New Hiv Infection</th>
<th>New Hiv Infection In Children 0-14 Years Old (%)</th>
<th>Accessing Anti-Retroviral Therapy %</th>
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<tbody>
<tr>
<td>Asia and The Pacific</td>
<td>5.2 Million (14% Of Total Number Of Pihiv Globally)</td>
<td>280,000 (15% Of Total New Infection Globally)</td>
<td>10,000 (5.6% Of Total New Infection In Children Globally)</td>
<td>2.7 Million (53% Of Total Pihiv In Asia And The Pacific)</td>
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<tr>
<td>Malaysia</td>
<td>72,399 (1.4% Of Total Pihiv In Asia And The Pacific)</td>
<td>13,035 (11% Of Total Report Hiv In Malaysia)</td>
<td>3,347 (1.2% Of Total New Infection In Asia And The Pacific)</td>
<td>39,018 (54% Of Total Pihiv In Malaysia)</td>
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fornication as illegal sex (zina/homosex) opens the door to evil roads (wasa’a sabilun) including physical diseases and social chaos. This implies that achieving sexual desires through the right way honors marital life and leads to fa’ilah (success) of having legitimate offspring as mentioned in chapter 23, verses 1-6. Based on these teachings, Muslim jurists like al-Sheikh Yusuf al-Qaradawi, holds that diseases like HIV and AIDS appear due to the deviation from the right path or from the conducts of the natural course of life (الانحراف عن فطرة الله، وعن شرع الله، الممارسة الجنسية المحرمة). In his recent interview by Al-Jazeera News channel on the Muslim jurists’ perspective on the nature of HIV/AIDS, as well as the ways of treating the patients, he quoted the Prophetic Hadith in which the Prophet (s.a.w.) said that when illegal sex becomes acceptable in the public domain of the community, then such community is tested with diseases such as plague, diarrhea and other tribulations that were not known by their early generations. This means that HIV/AIDS is a test and tribulation to those who committed transgression in their sexual relations. Hence, the person with this disease should be seen as someone who is tested by Almighty, Allah (s.w.t.), due to his or her deviations from the right path. For PLHIV whom are considered among those who are tested (ibtila) in life, the public and relevant authorities should extend a helping hand to them, in terms of healthcare services, counseling, and adequate education and awareness on how to care for themselves and prevent transmission to others.

Antiretroviral Therapy and Harm Reduction Programme from Islamic Perspective

Based on the principle that “God never inflicts a disease without providing a cure for it”, Islam encourages everyone to seek medical treatment. This is so because, for “He who put diseases on earth, has also put its remedy there”, hence patients are advised to seek medical and healing remedy. Islam encourages a variety of medical treatments that are set to reverse disease pathology, mitigate its effects or stop further progress of its effect. Islam also permits using natural plants and products, as well as manufactured chemicals and surgical operations which are designed to correct reformatory baths of the body or to remove diseased tissues or perhaps to replace damaged cells and organs of the body. In line with the Islamic teachings on seeking medical treatment for a given ailment, HIV/AIDS patients are required to strive for seeking available treatment. As mentioned earlier, despite Islam seeing HIV and AIDS as ‘tests’ from Allah, the religion is not opposed to ART. In fact, it is part of the prevention efforts (from husband to wife and mother to child transmission) that is well within Islamic teaching. Thus, every effort and support by health and Islamic bodies as well as Muslim leaders in Malaysia is required to intensify this preventive strategy.

Harm reduction programme from Islamic perspective has been long discussed either in Malaysia or worldwide. The programme has received split opinion from religious body. Despite the fact that Malaysia has adopted the programme since 2006, it has brought its own challenges especially from Islamic perspective. Malaysia’s main Islamic authority namely Jabatan Agama Kemajuan Islam Malaysia (JAKIM) has made its statement in 2005 (prior to the national implementation of this programme) regarding its stand towards this programme. For example, the used of condom is restricted only to married couple on the principle of ‘dar’u al-mafasid muqaddam ala al-masolih’. Meanwhile, JAKIM went against the use of condom among unmarried couple for the reason that it may lead to ‘zina’ which is prohibited in Islam. As mentioned in chapter 17, verse 32 and elsewhere in the Holy Qur’an, Islam aims for regulated sexual intimacy with the prohibition of adultery and fornication. In this verse, the Almighty, Allah (s.w.t.), commands mankind, to avoid committing all forms of illegal sex, i.e., zina, be it in the form of adultery or fornication. As for needle exchange, JAKIM also went against it on the basis of ‘sad al-zarai’ik’ (blocking the means). This principle refers to the means which are most likely to lead to evil and rarely leads to benefit with most Islamic scholars have invalidated such means. However, JAKIM did support methadone used as part of the harm reduction programme stating that it is permissible in Islamic teaching. While this debate continues, the harm reduction programme is actively happening in Malaysia and it has showed positive impact in terms of the reduction of reported HIV cases as previously mentioned.

CONCLUSION

The preservation of the dignity of mankind which protects from harm and destruction are central to the teachings of Islam. The Quran and the Prophetic traditions or the Sunnah are the central sources of references for the laws and principles that guide the
Muslims’ way of life and treatment and by which policies and guidelines for responses including that of contemporary social and health care can be derived. Primary prevention should start from early adolescent period by integrating medical and Islamic teaching in schools addressing various aspects of social relations and preservation of sexual health as well as in cultivating noble way of living. God never inflicts a disease without providing a treatment for it and the treatment itself can also be a way of prevention. PLHIV should be self-empowered to take the treatment early and continue lifelong follow-up in which the process of healing and remedy should be conducted with efficiency and embraced with psychological support. It is critical for religious leaders to be meaningfully involved to support PLHIV and to aid those who have been deviated and are affected by this disease to come back to the true path of Islamic teaching and . with good quality of life.

It has been shown that religious leaders can play important roles in HIV/AIDS prevention in view of their influence and acceptance among their respective congregations. It is highly recommended for us to develop a culture and religious-specific training materials to empower both healthcare providers and religious leaders to work with each other in the prevention, care and support endeavors. Hence, it is crucial for health and religious authorities to sit together and discuss arising issues and differences from time to time on the latest evidence available without ignoring the principle of Islamic teachings.

REFERENCES


