The Joint United Nations Programme on HIV-AIDS (UNAIDS) put forward an ambitious vision of “three zero” which consisted of zero new HIV infections, zero discrimination and zero AIDS-related deaths. In other words, it is envisaged there will be no new HIV infections, no more discrimination towards people living with HIV and no more AIDS-related deaths. UNAIDS also set the target of “ending AIDS” as a public health threat by 2030. In order to end the HIV epidemic by 2030, in 2014 UNAIDS established a fast track strategy namely “90-90-90” which means by 2020, 90% of all people living with HIV will have their HIV status known, 90% of all people with diagnosed HIV infection will receive sustained access to antiretroviral therapy (ART) and 90% of all people receiving antiretroviral therapy will achieve viral suppression. If this target of “90-90-90” is achieved, it is estimated that by 2020 at least 73% of all people living with HIV worldwide will experience viral suppression; further modeling suggests that if this target is achieved this will bring about the “end of AIDS” by 2030.

Several studies have shown that the sustained use of ARVs decreases the mortality rate of AIDS-related illness. UNAIDS reported that through increasing use of antiretroviral drugs, the annual mortality due to AIDS-related illness has declined from a peak of 1.9 million (1.4–2.7 million) in 2004, to 940,000 (670,000–1,300,000) in 2017 and AIDS-related mortality has declined by 34% compared to 2010.

Several other studies have shown that the use of antiretrovirals can inhibit HIV transmission, therefore new HIV infections can be reduced. When people with HIV effectively adhere to ARVs, the HIV concentration in their bodies becomes undetectable and transmission to others is prevented. Thus, the use of antiretroviral drugs has a dual effect, namely reducing mortality and HIV transmission (new infection). In other words, ARVs serve as a treatment and also as a prevention mechanism (treatment as prevention).

Reported achievements regarding the 90-90-90 target vary widely between regions and between countries. In 2017, UNAIDS reported that the Eastern and Southern Africa regions had reached 76%-79%-83%, Western and Central Africa reached 42%-83%-73%, Asia and the Pacific 71%-66%-83%, Latin America 81%-72%-79%, Caribbean 64%-81%-67%, Middle East and North Africa 58%-41%-66%, Eastern Europe and Central Asia 63%-45%-77%. Countries incorporated in the European Union (European Economic Area) have reported to have reached 86%-91%-92%.

Achievements between countries also vary greatly, for example in the Asia and the Pacific Region, target achievements are reportedly quite high in Australia (>89%-89%-79%), Cambodia (82%-89%-89%), Thailand (89%-75%-79%) and Vietnam (70%-67%-73%). While in several other countries it is still very low such as in Indonesia (35%-36%-NA), Bangladesh (33%-46%-NA) and Afghanistan (29%-26%-86%).

In the Indonesian context, epidemics are concentrated in key populations namely female sex workers, men who have sex with men (MSM), people who inject drugs and clients of female sex workers. The number of female sex workers in Indonesia in 2016 was estimated to be 226,791 (95%CI: 128,114-364,313), men who had sex with men as many as 754,310 (95%CI: 648,641-866,840), transgender women numbered at 38,928 (95% CI: 33,492-44,353), and clients of female sex workers estimated at 88,812 (95%CI: 84,016-93,610), and clients of female sex workers estimated at 5,254,065 (95%CI: 4,415,776-6,159,431). In 2015 HIV prevalence among female sex workers in several cities in Indonesia reportedly varied between 2.0-15.0%, among MSM between 13.2-36.0%, transgender women between 10.2-34.0% and people who inject drugs estimated at between 4.8-43.6%.

Some studies showed that the high prevalence of HIV among sex workers and men who have sex with men is compounded by stigma, discrimination and criminalization, which hampers their access to HIV testing services and ART services. Analysis conducted by a team of health experts showed that the decriminalization of sex work would reduce new HIV infections by 33-46% over the coming decade.

Public campaigning for the ongoing discrimination and criminalization of sex workers and MSM remains high in Indonesia both at the local and national level. This undeniably impacts negatively upon achieving “90-90-90” in Indonesia, which sits at only 35%-36%-NA. The results of a cohort
A study on female sex worker and MSM communities in three cities in Indonesia indicated that from 100 individuals who were enrolled as many as 85% were linked to care, 73% had initiated ARV treatment, only 55% had a visit history of at least 2 times within 3 months after ARV initiation and only 35% presented with a suppressed viral load after 6 months of beginning treatment.16 Low levels of ARV retain and unsuppressed viral load were caused by low adherence. Many studies have shown that adherence is indisputably linked to stigma at the intrapersonal, interpersonal and structural level.16,19

In order to be able to mirror the achievements of other countries towards 90-90-90, addressing stigma and discrimination towards key populations and people with HIV+ is crucial. Without these efforts ending the AIDS epidemic by 2030 will be challenging to realize and remain a lofty aspiration.

REFERENCES

1. UNAIDS. The AIDS epidemic can be ended by 2030. Geneva, Switzerland. 2016.


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