



An Evaluation of the Nature and Impact of HIV and AIDS: Implications for Counselling Practice

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Author's contribution

The sole author designed, analysed, interpreted and prepared the manuscript.

Article Information

DOI: <https://doi.org/10.9734/ajrn/2024/v7i1179>

Open Peer Review History:

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here: <https://www.sdiarticle5.com/review-history/127708>

Review Article

Received: 09/10/2024

Accepted: 12/12/2024

Published: 29/12/2024

ABSTRACT

This paper evaluates the nature and impact of human immunodeficiency virus (HIV) and acquired immunodeficiency syndrome (AIDS), focusing on their implications for counselling practice. The World Health Organization (WHO) estimates that 39.9 million people worldwide live with HIV and AIDS. These conditions have multifaceted effects on individuals, families, and communities, encompassing physical health challenges, psychological distress, and social stigma. The biological progression of the disease and the psychosocial dynamics of living with HIV and AIDS have widespread implications for mental health and societal relationships. Counselling is critical in addressing the emotional, cognitive, and behavioural challenges affected individuals face. This paper discusses effective counselling approaches, emphasising the importance of empathy, cultural sensitivity, and psychoeducation in mitigating stigma and promoting resilience. The paper underscores the need for counsellors to adopt holistic and evidence-based interventions that integrate medical, psychological, and social dimensions. By addressing these interconnected issues, counselling practices can empower individuals and communities, fostering better-coping mechanisms and enhancing the overall quality of life for those impacted by HIV and AIDS.

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Keywords: Counselling; HIV and AIDS; impact; pandemic; poverty; prevention.

1. INTRODUCTION

The scale of the HIV epidemic has exceeded all expectations since its identification 42 years ago. HIV is a global concern. The WHO estimates that in 2023, 39.9 million people worldwide (approximately 0.7% of the global population) lived with HIV, including 1.5 million new cases. Furthermore, 73% of those cases received antiretroviral therapy (ART), but 680,000 people died from HIV-related causes [1]. Africa displays a higher prevalence of HIV than any other continent, with an estimated 3.9% (ranging from 3.3% to 4.5%) of the population living with HIV. The virus is believed to have evolved from the simian immunodeficiency virus (SIV), crossing the species barrier from primates in Central Africa, likely through human contact with infected primates' blood [2].

This highlights that HIV and AIDS remain significant global public health challenges, despite advancements in medical research, treatment, and prevention strategies. The complex interplay between biological, social, cultural, and psychological dimensions necessitates a multifaceted approach to understanding their nature and impact [3,2]. HIV and AIDS affects individuals, families, and communities profoundly, influencing physical health, mental well-being, social interactions, and economic stability. Gouda [4] argues that to improve HIV and AIDS prevention efforts in Africa, it is essential to assess their effects and implement pragmatic policy options [5,6]. Additionally, this assessment can measure the impact of HIV and AIDS educational programmes on their target populations, particularly in changing sexual behavior [7].

This evaluation explores the multifaceted nature of HIV and AIDS and its far-reaching implications, particularly for counselling practice and policy development. It examines how stigma and discrimination surrounding the disease, alongside the psychological burden of living with a chronic condition, create unique challenges for affected individuals. Moreover, the evaluation highlights the essential role of culturally competent, evidence-based counselling interventions in promoting resilience, adherence to treatment, and overall quality of life. Policy frameworks addressing structural barriers to care, ensuring equitable service access, and fostering supportive environments are essential. By integrating research and practice insights, this

evaluation provides actionable recommendations for improving counselling approaches and shaping policies that meet the evolving needs of individuals and communities affected by HIV and AIDS.

2. THE NATURE OF HIV AND AIDS

HIV is a lentivirus from the retroviridae family that attacks the immune system by destroying helper T lymphocytes, making the affected person susceptible to common infections and malignant tumours [8]. HIV causes AIDS if appropriate treatment is not provided [9]. AIDS is the end-stage manifestation of HIV infection, characterized by immune deficiency that places individuals at risk for opportunistic infections. These infections include pneumonia, tuberculosis, herpes, chronic diarrhoea, Kaposi's sarcoma, oesophageal candidiasis, toxoplasmosis, and many others that exploit the weakened immune system.

Honge et al. [10] identified two variants of HIV: HIV-1 and HIV-2. Though both have similar transmission modes, HIV-1 is more virulent and responsible for the global pandemic, while HIV-2 is localized to West Africa and parts of Europe and Asia. Bekker et al. [9] note that the first AIDS case was identified in 1981, and a blood test to detect HIV infection became available in 1985. Despite over 40 years of awareness about the virus and its effects on the immune system, the disease continues to spread because neither an effective vaccine nor a cure has been discovered.

3. PROFILES OF SOME AFRICAN COUNTRIES WITH THE HIGHEST HIV PREVALENCE

3.1 Eswatini

With over 27% of its population living with HIV, Eswatini has the highest HIV prevalence worldwide. HIV/AIDS is the leading cause of death in Eswatini [11]. However, the country's HIV rate has been declining. Between 2011 and 2016, Eswatini reduced its rate of new infections by nearly half through expanded treatment and prevention services. The percentage of adult HIV patients receiving ART increased from 34.8% to 97% in recent years. Certain marginalized groups, such as sex workers (with a 60.5% prevalence rate), are particularly affected [12].

3.2 Lesotho

Lesotho has the second-highest HIV prevalence globally, with 20.5% of its population living with HIV. In 2023, the country reported 48,000 new HIV infections and 4,000 AIDS-related deaths [13]. Although 97.5% of people living with HIV in Lesotho now receive ART, poverty-affecting 57% of the population-complicates treatment availability and contributes to low life expectancy (55 years for men and 57 years for women).

3.3 Botswana

Botswana has an HIV prevalence rate of 19.7%, making it the third-highest in the world. Challenges such as gender inequality and punitive laws against marginalised groups hinder HIV prevention efforts. Despite these barriers, Botswana has progressed through universal free ART, reducing mother-to-child transmission to 1.91% by 2020 [14].

3.4 South Africa

With a prevalence rate of 16.6%, South Africa has the world's fourth-highest rate of HIV. Given its large population, this represents 7.7 million HIV-positive individuals, approximately one-fifth of global cases. South Africa boasts the world's largest ART program, with 68% of HIV-positive individuals receiving treatment and 93% achieving viral load suppression by 2021 [15].

These efforts have significantly increased national life expectancy and reduced mother-to-child transmission rates.

3.5 Nigeria

Nigeria's HIV prevalence was estimated at 2.1% in 2023, with 75,000 new infections and 45,000 HIV-related deaths reported. Approximately 59% of people living with HIV in Nigeria are women aged 15 years and older. Efforts to achieve the 95-95-95 target require reaching an additional 3.5 million individuals with undiagnosed HIV [16].

3.6 Ghana

Ghana's HIV prevalence is 2.3 per cent. In 2023, 334,095 people in Ghana were living with HIV, including 115,891 males and 218,204 females [17]. Infections reported 17,774 new HIV, representing a 14.8% decrease in the last decade. Additionally, 12,480 persons living with the infection died, with 11.2% of the number being children. According to the UNAIDS estimates (2023 data, published in the 2024 Global AIDS Report), in Ghana, 18,000 people were newly infected with HIV (an incidence of 0.56 per 1000). The data showed that the HIV population increased by nine per cent between 2013 and 2023 and was expected to increase by 6.8 per cent by 2030. Similarly, the projections show that 12,480 Ghanaians died from AIDS-related illness in 2023 [18].

Table 1. Top 50 Countries with the highest HIV prevalence in the world

Country	HIV Prevalence Among Adults_2023	Deaths From HIV-Related Causes_2023	Number of People Living With HIV_2023	Number of New Infections Per 1000 Uninfected_2023
Eswatini	27.5	3100	230000	4.2
Lesotho	20.5	4000	270000	3.0
Botswana	19.7	3900	360000	1.9
South Africa	16.6	50000	7700000	2.7
Mozambique	11.8	44000	2400000	2.6
Zimbabwe	11.7	19000	1300000	0.98
Namibia	11.5	3700	230000	2.2
Zambia	11	17000	1300000	1.2
Malawi	7.6	11000	980000	0.61
Uganda	5.6	20000	1500000	0.86
Tanzania	4.4	25000	1700000	0.85
Kenya	3.7	21000	1400000	0.31
Republic of the Congo	3.1	6300	120000	1.7
Gabon	3.1	1800	51000	0.79
Rwanda	2.7	2600	230000	0.24

Country	HIV Prevalence Among Adults_2023	Deaths From HIV-Related Causes_2023	Number of People Living With HIV_2023	Number of New Infections Per 1000 Uninfected_2023
Guinea-Bissau	2.4	1000	34000	0.53
Ivory Coast	2.2	9500	420000	0.35
Togo	1.8	2200	100000	0.26
Haiti	1.7	1500	140000	0.48
Guyana	1.7	200	10000	0.73
Suriname	1.6	500	7400	0.83
Ghana	1.5	12000	330000	0.56
South Sudan	1.5	5600	140000	0.56
Gambia	1.5	1300	26000	0.53
Nigeria	1.4	45000	2000000	0.34
Angola	1.4	12000	320000	0.44
Guinea	1.4	3200	130000	0.33
Sierra Leone	1.3	1800	77000	0.39
Mauritius	1.2	690	13000	0.86
Belize	1.2	200	3600	0.39
Bahamas	1.2	100	4100	0.16
Chad	1.1	3500	110000	0.25
Jamaica	1.1	740	26000	0.42
Burundi	1.0	1200	81000	0.12
Dominican Republic	1.0	1400	84000	0.36
Papua New Guinea	1.0	980	77000	0.65
Cape Verde	1.0	100	4000	0.52
Ethiopia	0.9	10000	610000	0.1
Thailand	0.9	12000	580000	0.13
Mali	0.9	4400	120000	0.24
Liberia	0.9	800	34000	0.15
Panama	0.9	500	30000	0.35
Djibouti	0.9	540	7300	0.29
Barbados	0.9	100	2100	0.14
Benin	0.8	1400	68000	0.1
DR Congo	0.7	11000	520000	0.17
Myanmar	0.7	6400	280000	0.19
Moldova	0.7	500	16000	0.3
Estonia	0.7		7300	0.1

Source: [19] (worldpopulationreview.com)

As shown in Table 1, Eswatini had the highest rate of HIV infections worldwide, with 27.5%. With 7,700,000 HIV-positive individuals, South Africa had the highest number of cases worldwide. It also revealed that, with 50,000 fatalities from HIV and AIDS in 2023, South Africa had the highest number of deaths.

4. IMPACT OF HIV AND AIDS

HIV and AIDS is a global health problem that affects individuals, communities and societies

across many nations worldwide. Some of the key impacts include:

4.1 Demographic Impact

Since the discovery of the deadly HIV and AIDS epidemic in 1981, millions of people have succumbed to AIDS-related illnesses. In 2014, it was reported that 1.2 million people worldwide had died due to AIDS [20]. According to the United Nations AIDS Report of 2001, by the year 2000, Africa had lost more than 17 million people to AIDS, accounting for 75% of global AIDS-related deaths. Data from the Ghana AIDS Commission (GAC) reveals that 12% of all

deaths in Ghana in 2000 were attributed to HIV and AIDS-related illnesses [17]. Africa continues to lose millions of its young population to the epidemic, which significantly affects the continent's demography.

One major demographic effect of HIV and AIDS is the impact on mortality and fertility rates. AIDS predominantly affects individuals in their most fertile years, thereby altering the demographic structure in many countries across sub-Saharan Africa by reducing fertility rates. Duh [21] noted that "young adult females are three times, and teenage girls are five times, more likely than their male counterparts to be infected with HIV." A decline in the number of females directly correlates with fewer births. As more women contract and succumb to HIV and AIDS, an imbalance emerges, with an excess of males in some regions. This imbalance may force some men to either leave their countries or seek partners from other nations to marry [22].

HIV and AIDS also affect the dependency ratio, which measures the number of dependents (children under 15 and adults over 64) per 100 working-age adults (15–64 years) [18]. Although Africa comprises only 10% of the world's population, it is home to over 70% of young people living with HIV and AIDS globally. Additionally, Africa accounts for 80% of children living with HIV and AIDS [20].

This situation has severe implications for uninfected older adults. In many African communities, individuals above the age of 60 depend heavily on their adult children for financial support. When these young adults succumb to HIV and AIDS, their elderly parents are left without economic assistance. This often leads to destitution and premature death for the older population [23].

4.2 Social Impact

Another significant problem caused by AIDS is the large number of orphans it creates. South Africa, the African country hardest hit by the HIV and AIDS epidemic, had approximately 800,000 orphans by the end of 2000 [24]. In Ghana, an estimated 124,779 orphans resulted from HIV and AIDS [17]. Since most African countries are developing nations, there is limited support available for individuals affected by HIV and AIDS. Consequently, these orphans often have no choice but to rely on their immediate families for care.

However, the financial strain incurred by these families due to the care of AIDS patients often leaves them unable to adequately support the orphans. As a result, many of these children are forced to drop out of school to fend for themselves. Eventually, they may become street children, increasing their vulnerability to HIV infection through sexual abuse or engaging in prostitution out of necessity. Additionally, these children face the stigma associated with having parents who died from HIV and AIDS [24,23].

Another pressing issue is the caregiving burden faced by families, which disproportionately affects women and girls. While some men play important roles, particularly in the care of other men, caregiving responsibilities typically fall on women [25]. A survey conducted in various provinces of South Africa revealed that in more than two-thirds of households affected by HIV and AIDS, women or girls were the primary caregivers.

In nearly a quarter (23%) of caregiving households, the caregivers were over the age of 60, and nearly three-quarters of these older caregivers were women. Similar trends were observed in Zimbabwe, where most caregivers for children orphaned by HIV and AIDS were over 50 years old. Of these, over 70% were 60 years or older.

The stress on caregivers is immense. They often struggle with challenges such as inadequate food and clothing, high medical costs, and an inability to afford school fees for orphans. These difficulties take a toll on the physical and emotional health of caregivers, particularly older ones, whose health often deteriorates under the strain [21].

4.3 Economic Impact

Every country relies on its human resources for economic development. The size of the workforce and the skills possessed by its people serve as the engine driving economic prosperity. A country risks economic jeopardy if it lacks technical expertise, resourcefulness, and a vibrant, hard-working youth population [21,26]. In some countries, such as South Africa, young people who would otherwise be trained to join the workforce are instead battling HIV and AIDS. A World Bank study found that income growth per capita in Africa has been reduced by 0.7% annually due to HIV and AIDS. The report further noted that income per capita could have grown at

a rate of 1.1% per year between 1997 and 1999 had the prevalence rate of HIV and AIDS not reached 8.6% in 1999 [23]. The reduction in income growth per capita is largely attributed to the shrinking workforce caused by the epidemic.

HIV and AIDS-related illnesses and deaths have also been identified as leading causes of absenteeism and workforce reductions, resulting in low productivity. As employees become ill with HIV and AIDS, they leave their jobs, particularly unskilled workers whose roles often require physical labour. The deaths of these workers impose additional financial burdens on companies, which must recruit and train new employees to replace them [20] cited in [21]. Research by Fredrickson and Kanabus [27] revealed that some Southern African countries experienced profit reductions of 6% to 8% due to absenteeism, reduced productivity, healthcare costs, and expenses associated with hiring and training new staff.

The agriculture sector is another critical area of the economy severely impacted by the morbidity and mortality caused by HIV and AIDS, resulting in reduced productivity. In most parts of Africa, small-scale or peasant farmers in rural communities dominate both cash crops and food production. Family members, especially young adults and women, typically perform most of the physical labour on family-owned lands. Additionally, families often hire day labourers to assist with planting and harvesting.

As families lose young adults to AIDS, the burden of maintaining the farms falls on the very young and the elderly. The financial strain of caring for sick family members and covering funeral expenses often leaves families unable to hire labourers. Furthermore, labourers themselves are not exempt from the population segment affected by HIV and AIDS, leading to a labour shortage. This tragic situation results in abandoned farms and decreased agricultural production [21,26].

4.4 Impact on Health

HIV and AIDS place a heavy burden on health systems, which is evident in the increased health budgets of many countries and the diversion of funds from other healthcare needs to support HIV and AIDS patients. New services, such as HIV Testing and Counselling (HTC), Prevention of Mother to Child Transmission (PMTCT), patient monitoring, and the provision of

Antiretroviral Therapy (ART), must be introduced, further stretching the limited health resources of a country. For instance, in Swaziland, it was reported in 2001 that about 50% of beds in some healthcare centers were occupied by people living with HIV (PLWH). Additionally, a study in Côte d'Ivoire revealed a 400% increase in healthcare costs for families living with HIV and AIDS patients [27].

Ayisi-Boateng et al. [24] argues that the Government of Ghana supports the treatment of PLWH with approximately GH¢ 4 million annually, providing each patient with GH¢ 4,500 per year. This funding covers test kits, medication, and care. However, addressing the HIV and AIDS epidemic often means that other essential healthcare services are compromised, as scarce resources are redirected to HIV and AIDS care.

Moreover, HIV and AIDS contribute to a shortage of healthcare manpower due to the death of health workers who may become infected [28]. Healthcare workers are among the most vulnerable to HIV infection because they care for those affected by the disease. Young adults, including doctors, nurses, and biomedical technicians, who acquire the disease often die, leading to the loss of essential staff [21]. Since it takes years to train healthcare professionals, the healthcare system is likely to suffer long-term shortages. For example, in Ghana, it takes up to seven years to train a doctor. The ongoing brain drain, where doctors and nurses seek better-paying opportunities abroad, further complicates the replacement of lost staff in the health sector.

Additionally, there is a high level of absenteeism due to HIV and AIDS-related illnesses. The ill health of healthcare workers infected with HIV is a significant cause of lost work time. Moreover, health workers are often relied upon by their families for their professional skills in caring for relatives suffering from AIDS. As per cultural customs, they may also need to take time off work to perform funeral rites for deceased family members. This high level of absenteeism increases the workload for the remaining staff, contributing to burnout [29]. As a result, staff may resist transfers or postings to areas with high HIV and AIDS prevalence due to the additional strain.

4.5 Impact on Education

According to Duh [21], the education system is one of the hardest-hit sectors in terms of the

supply of both students and teachers, as well as the overall quality of education. There is a decrease in the number of students attending school, as HIV-infected women tend to have fewer children, and some young women may die from HIV and AIDS-related diseases before having the opportunity to bear children. As a result, fewer children are available to attend school. Additionally, when both parents die from AIDS, orphans are often forced to drop out of school due to an inability to afford school fees and other related costs. A study in Uganda revealed that the likelihood of an orphan attending school was reduced by half when both parents died from AIDS [22].

The education system is further strained by the loss of teachers, undermining the critical human resources needed to run schools. HIV and AIDS-related illnesses often result in the death of experienced and qualified teachers, negatively impacting the quality of education. In some cases, this creates teacher shortages, which leads to larger class sizes and a decline in student performance. In countries that have been hardest hit, such as the Central African Republic, Zambia, and South Africa, the teacher shortage has been so severe that more teachers have died from AIDS than have been trained [21]. The impact of AIDS also extends to school management, as the deaths of school administrators reduce supervision and further degrade the quality of education.

In a nutshell, the devastating impact of HIV and AIDS extends beyond the demographic, social, economic, health, and educational sectors, as shown in the literature reviewed. This epidemic threatens not only the progress but also the survival of communities, nations, and regions with high HIV and AIDS prevalence.

5. SOCIOECONOMIC FACTORS INFLUENCING THE SPREAD OF HIV AND AIDS

Several studies have shown that socioeconomic factors, such as poverty and unemployment, strongly influence individual sexual behaviour. Countries with the lowest standards of living tend to have the highest HIV incidence rates [30,31]. In both rich and poor nations, poverty is associated with HIV and HIV, in turn, exacerbates poverty. The proposed mechanisms for this relationship include non-cohabitation between young married couples, which can result from economic challenges such as urban

migration, seasonal work, truck driving, sex work, civil disturbances, and war [27].

Civil disturbances and war lead to displaced populations and refugees who lose their social and familial support systems. These individuals become highly vulnerable to HIV due to intense social and economic strain in unfamiliar environments [31]. In such situations, HIV concerns are often given low priority in the hierarchy of risks, and any prior or planned HIV control efforts are disrupted or completely undone.

Social theories and models aimed at addressing these issues incorporate the concept of creating enabling environments and understanding contextual factors. According to Nilsen [32], elements of these models and theories include:

- a. Moving from seeing people as objects of change to recognizing them and their communities as agents of change, shifting from delivering messages to supporting dialogue.
- b. Moving away from focusing solely on individual behaviour to emphasizing social norms, policies, culture, and supportive environments.
- c. Fostering negotiation and partnership instead of merely persuasion.
- d. Finally, transitioning from relying solely on external technical expertise to integrating communities in assessing and addressing issues of concern.

6. CONCLUSION

Based on the national reports reviewed, it is clear that HIV and AIDS are no longer solely a crisis for the healthcare sector but a challenge that spans across all sectors. Consequently, HIV and AIDS should be viewed as a development issue. The disease is hindering development by causing a steady decline in key human development indicators, thus reversing the social and economic gains that African countries are striving to achieve. As both a cause and a consequence of poverty and underdevelopment, HIV and AIDS presents a challenge to human security and development by reducing the chances of alleviating poverty and hunger, achieving universal primary education, promoting gender equality, reducing child and maternal mortality, and ensuring environmental sustainability. By shortening lives, eroding people's dignity and self-esteem, causing social exclusion, and traumatizing and impoverishing

individuals, families, and entire communities, HIV/AIDS threatens to undo the progress made in human development in recent years. Given its unpredictable impact on economic and social sectors, the relationship between HIV/AIDS and human development must be acknowledged at all levels. The principles of sustainable development must be a central focus of policies and programs in African countries. The complexity and danger posed by this disease highlight the need for multidisciplinary approaches that model, estimate, and predict its true impact on the human development of African countries. These approaches will help optimize the strategies proposed by individual countries, international institutions, and their partners.

7. IMPLICATION FOR COUNSELLING PRACTICE

The findings of the study indicate that extensive counselling is necessary to address the multifaceted challenges faced by individuals affected by HIV and AIDS. Since the condition affects physical health, mental well-being, and social interactions, counselling interventions must be comprehensive, empathetic, and tailored to the unique needs of clients. This highlights the following key roles for counsellors:

- a. **Addressing Stigma and Discrimination:** Many individuals living with HIV and AIDS experience stigma and discrimination, leading to feelings of shame, isolation, and depression. Counsellors must create a safe, nonjudgmental environment where clients can openly discuss their fears and experiences. Advocacy and psychoeducation are also crucial for combating misconceptions and fostering community acceptance.
- b. **Supporting Emotional and Psychological Well-being:** A diagnosis of HIV and AIDS often triggers a range of emotional responses, including anxiety, fear, anger, and grief. Counsellors should utilise evidence-based approaches such as cognitive-behavioural therapy (CBT), acceptance and commitment therapy (ACT), or trauma-informed care to help clients manage these emotions and build resilience. For clients who lose loved ones to AIDS-related illnesses, grief and bereavement counselling is essential for processing loss and navigating feelings of guilt, sadness, or hopelessness.

- c. **Promoting Adherence to Antiretroviral Therapy (ART):** Effective management of HIV and AIDS requires strict adherence to ART. Counsellors can support clients in overcoming barriers to adherence, such as forgetfulness, fear of side effects, or lack of social support, through motivational interviewing and problem-solving strategies.
- d. **Addressing Intersectional Challenges:** Individuals living with HIV and AIDS often face compounded challenges related to factors such as poverty, gender, sexual orientation, or substance use. Counsellors should adopt a holistic approach that considers these intersecting issues. Collaborating with other professionals and organisations can help provide comprehensive support to address these complexities.
- e. **Advocating for Systemic Change:** Counsellors also play a vital role in advocating for systemic changes to reduce barriers to care and support. This includes promoting policies that ensure access to affordable healthcare, mental health services, and anti-discrimination protections.

8. IMPLICATIONS FOR WORLDWIDE RELEVANCE

The study highlights that HIV and AIDS remain global health priorities, affecting millions of individuals across diverse cultural, social, and economic contexts. Despite advances in treatment and prevention, the epidemic continues to pose significant challenges, particularly in low-resource settings and marginalised communities, such as those in sub-Saharan Africa. Addressing these disparities requires international collaboration to ensure equitable access to antiretroviral therapy (ART), diagnostic tools, and prevention programs. Bridging healthcare resource gaps is essential to reducing global health inequities. Furthermore, the economic impact of HIV and AIDS, especially in low-income regions, underscores the need for sustainable funding mechanisms. Investments in healthcare infrastructure, education, and social support systems are critical to alleviating the economic burden of the epidemic. International funding bodies, governments, and non-governmental organizations (NGOs) must work together to prioritize resource allocation, ensuring that vulnerable populations receive the support they need.

9. LIMITATIONS OF THE STUDY

I recognise the importance of the topic addressed in this paper and the necessity of approaching it with seriousness and precision. However, the study relied exclusively on published data from various African countries and international institutions. As a result, the analysis was constrained by the availability of data, which may hinder a comprehensive understanding of this complex and significant subject.

DEDICATION

This paper is dedicated to all individuals in Africa who are either infected or affected by HIV and AIDS epidemic.

CONSENT AND ETHICAL APPROVAL

It is not applicable.

DISCLAIMER (ARTIFICIAL INTELLIGENCE)

Author(s) hereby declare that NO generative AI technologies such as Large Language Models (ChatGPT, COPILOT, etc) and text-to-image generators have been used during writing or editing of this manuscript.

COMPETING INTERESTS

Author has declared that no competing interests exist.

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