Enrollment of HIV/AIDs patients in Federal Medical Centre, Umuahia, Abia State, South East Zone, Nigeria

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Abstract: Introduction: Nigeria is one of the countries with high cases of HIV/AIDs and is a resource limited country that depends on donor agencies for control of HIV/AIDs. In Abia state there has been steady increase in the incidence of HIV from 1999 to 2010 in the sentinel survey done. It is therefore necessary to check the enrollment of HIV/AIDs in a tertiary health facility if there is a corresponding increase in the reporting of these cases. Objective: To determine the cases of HIV/AIDs that enrolled into the ART centre Methodology: Review of records in which the data in the ART Centre, Federal Medical Centre, Umuahia was collected from 2008 to 2011 and analyzed with Excel and Epi-Info. Result. The result collected: enrollment of patients 2008 (1436), 2009(948), 2010(679) and 2011(792). Out of total 3855 newly enrolled from 2008 to 2011, 2480 (64.3%) were newly initiated on treatment and transfer in 204(5.3%). Females (62.8%) are more than males (37.2%) p value <.05. Children enrolled were 245 (6.4%) Conclusion: There has been reduction in enrollment of cases from 2008 to 2010 with slight increase in 2011. This showed an inverse proportion of the result from sentinel survey in Abia State. There could be increase in the number of centers treating HIV/AIDs where they are going to or increase in stigmatization and under reporting. Extensive data from other centers in Abia State should be reviewed.

Keywords: Enrollment, HIV/AIDs

1. Introduction

This century has continued to face the challenges of the HIV epidemic where greater than 34 million people are infected with HIV. New infections are still occurring despite all effort being made to combat this. In 2006 member states of the UN got committed to universal access to HIV prevention, treatment, care and support by 2010[1]. In 2011 not only were 2.2million people infected but also1.7million died of AIDS. According to the model of essential package of integrated health sector intervention for HIV prevention, treatment, care and support; health facility based interventions include-information and education on preventing HIV transmission, HIV testing and counseling, prevention of mother to child transmission of HIV, prevention of sexual transmission, harm reduction for injecting drug users, prevention of transmission in healthcare settings, prevention services for people living with HIV/AIDs and clinical management of people living with HIV/AIDs[2]

Care of HIV/AIDs patients has been a focus of health care in the past 2 decades requiring serious considerations and attention from professionals, government and corporate bodies. Access to antiretroviral therapy was largely restricted to few people in the developing world at the dawn of the 21st century. This was not only due to the reason that ARVs were very expensive but also international patents that deterred the production of such drugs at cheaper and affordable prices. This situation to an extent got ameliorated in 2001 when drug producers in these developing countries started producing generic drugs by provisions made by the international trade law as well as laws passed by some developing countries enabling them to purchase generic drugs from abroad. Sequel to this drop in prices of drugs was the global expansion of treatment [3]

In 2011 ten years after the historic UN special session on HIV/AIDS search for HIV/AIDS cure has continued to be
the concern of research and innovations. A UNAID report of March 4, 2013 said that a child born to an HIV positive mother who was not accessing care appears to be functionally cured after 18 months of treatment with triple ART drugs from the 3rd day of life which if confirmed will be the first documented case of an HIV positive child with no detectable HIV levels and no HIV-specific antibodies [4].

 Though some countries still have restrictions and bans on travel and residence due to HIV/AIDS, it is a breakthrough to note that Mongolia has removed every restriction on travel and other discriminations against people living with HIV. This was started on Feb. 15 2013[5].

Significant changes have occurred in the inpatient presentation of the HIV infected patients over the years. From the early years when patients presented with accumulating opportunistic infections highly ravaging the picture and led to an early death to the HAART era with reports of dramatic decreases in opportunistic infections and improvements in life expectancy, though evolution of inpatient HIV care has been a challenge to the clinician with diversification in the presentation of the HIV inpatient in the HAART era. [6]

The rates of hospitalizations (per 100 person-years) fell from 24.6 in 1994 to 11.8 in 2005 (P < 0.0001) in a prospective cohort study of 7155 patients enrolled in the HIV Outpatient study at 10 US HIV clinics with rates of hospitalizations for AIDS opportunistic infections decreased from 7.6 in 1994-1996 to 1.0 in 2003-2005 (P < 0.0001). AIDS opportunistic infections were present at 31% of hospitalizations in 1994-1996 versus 9.5% in 2003-2005, and chronic end-organ disease conditions were present at 7.2% of such hospitalizations in 1994-1996 versus 14.3% in 2003-2005. The decreased rate of hospitalizations for HIV-infected patients during 1994-2005, was attributed mainly to reductions in the AIDS opportunistic infections. Higher CD4+ cell counts characterized patients in the highly active antiretroviral therapy era who were hospitalized more frequently for chronic end-organ conditions compared with the period 1994-1997.[7]

Also among all inpatient hospitalizations of 2,151 HIV-positive patients enrolled in Johns Hopkins University-based HIV clinic between January 1, 1994 and December 31, 1998 with a CD4 count within a 6-month calendar semester it was found that Hospitalization rates decreased between 1995 and 1996 but increased between 1997 and 1998 with analysis showing White race, low CD4 count, and no antiretroviral treatment were strong predictors of hospitalization for an opportunistic infection while female gender (IRR, 1.45; p <.001), African-American ethnicity (IRR, 1.22; p =.05), no antiretroviral treatment, and low CD4 counts were predictive of higher hospitalization rates for non opportunistic infection-related diagnoses; and female gender (incidence rate ratio [IRR], 1.45; p <.001), injection drug use (IRR, 1.36; p <.001), and having received no antiretroviral therapy were strong predictors of total hospitalization.[8]

Studies done earlier in this century have shown some disparity in the hospitalization rates which was higher among the minority or disadvantage group giving clues to existing inequalities in care while inpatient utilization in children showed some dissimilarities to adults compared with previous studies as well as less pronounced racial/ethnic or gender disparities in healthcare utilization for HIV-infected children unlike adults [9, 10].

Research has also suggested that though opportunistic infection have declined with the introduction of HAARTs, there is an upsurge of decompensate liver disease and increase in admission rates of HIV/HCV co-infected patients and IDU meaning worsened hospitalization rates for liver related complications [8, 11,12,13].

In a country based qualitative study done in rural Kinesa district Tanzania which explored perception of and experience of barrier to accessing the national ARV programme among self-identified HIV-positive persons showed that most patients were willing to join a support group while some changed attitude to disclosure, both experienced and anticipated discrimination persisted to hinder wide spread use of ART and simple measures reduced perceived barrier initially while passive stigma remained a problem [14].

Many other studies have demonstrated changes in trend and pattern of HIV patient admission in the hospital and also in different sections of health facilities, a decline in ADI associated with patient admission and possible effects on utilization of care [15, 16, 17, 18, 19].

It is also noted that partnership is increasing in African region in order to raise awareness of HIV/AIDS.

A Nigerian Survey revealed a National prevalence of 4.1%, this ranged between 1.0% in Kebbi State to 12.7% in Benue State with Abia state having 7.0 prevalence rate. The dynamics of HIV/AIDS Nigeria is driven by ignorance, poverty and disease HIV is a “social disease” disrupting the fabrics of society through stigmatization of sufferers, as well as through years of education and of productivity lost. The fight against HIV especially in developing countries has to be the duty of all stake holders. While an effective vaccine remains to be found, education has been described as a social vaccine for the HIV pandemic [20].

There has been persistent increase in the survey result for prevalence of HIV in Abia State (1999 (3%), 2001 (3.3%) 2003 (3.7%), 2005 (4%), 2008 (5%), 2010 (7.0%)), it is therefore necessary to find out if there is corresponding increase in the enrolment of HIV in the only Federal health facility in the State.

Objective: To determine the cases of HIV/AIDS that enrolled into the ART centre

2. Methodology

Federal Medical Centre, Umuahia is the only Federal tertiary health facility in Abia State, Southeastern Nigeria. The facility started the ART Centre in 2006 where the Anti retroviral drugs are given free. Data was collected from
records under the following headings:- Newly Enrollment, newly initiated and Transferred in from 2008 to 2011. The data was analyzed with Excel and Epi-info.

3. Result

The result collected: enrollment of patients 2008 (1436), 2009(948), 2010(679) and 2011(792). Out of total 3855 newly enrolled from 2008 to 2011, 2480 (64.3%) were newly initiated on treatment and Transfer in 204(5.3%). Females (62.8%) are more than males (37.2%) p value <.05. Children enrolled were 245 (6.4%) The number of cases that enrolled was more in 2008, followed by 2009 and 2011 and then 2010. This showed yearly enrollment with 32% in 2008, 25% in 2009, 18% in 2010 and 20% in 2011 The patients that started Anti retroviral was more than 60% while 2011 had the lowest number that started ART 47% while in 2009 with highest percentage 79%. The yearly transferred in were more in 2008 and 2011.

4. Discussion

The enrollment of HIV/AIDS patient in the Health facility reduced in the subsequent years which are in contrast with the result of sentinel survey in the country which showed increase in the prevalence of HIV from 1999 to 2010 in Abia State. Instead of increasing in enrollment due to increase in prevalence of HIV in the State there was decrease. This could be due to the fact that the patients are not enrolling into the services, because of the stigmatization attached to it or many are not testing to know their status. This patient could be going to other health facilities that are offering the ART services.
This study showed that more than 60% of people enrolled were initiated on the treatment this is in contrast to the study done in Rwanda where less than 50% were initiated on treatment and care with 90 days of diagnosis[21] and also in Tanzania[22]. There has been different levels of CD4 cell count for initiation into treatment of HIV/AIDS. Initially it was a the level of 200 cells/mm³ and later 350 cells/mm³ but now it is recommended that all cases should be started on treatment and this will actually improve the rate of cases that are initiated on treatment. However in this study as seen in fig 3 those that started ART were less in 2011 and highest in 2009.

This study also showed greater number of the patients that enrolled was females this is in contrast with the study were males were more than 60% [23]. However similar results were gotten in some studies where females enrolled were more than males [24, 25]. These discrepancies in sex may be due to the fact that more females are infected since there is easy infectivity in females or more women seek for care. The former is more realistic. It was also noted that in children there was no difference in the sexes that enrolled. The enrollment of male and female in pediatrics are the same fig 5, this could be due to, the mode of transmission in both are the same mainly mother to child transmission. The children percentage in this study is lower than what is reported in HIV/AIDS Resource Centre in Bori General Hospital, Khana Local Government Area, and Rivers State, Nigeria of 12% [26].

In this study, more patients were transferred in 2008 and 2011 in fig 4; this could be that there were more support, financial, material including drugs and human resources for patients from other centers to be accepted into the programme in the centre.

5. Conclusion and Recommendation

There has been reduction in enrollment of cases from 2008 to 2010 with slight increase from 2010 to 2011. This showed an inverse proportion of the result from sentinel survey in Abia State. There could be increase in the number of centers treating HIV/AIDS where they are going to or increase in stigmatization and under reporting. Extensive data from other centers in Abia State should be reviewed. There should be increase in awareness creation of need for counseling, testing and enrollment into treatment and care.

Ethical Consideration

Ethical approval was gotten from the ethical committee of Federal Medical Centre, Umuahia: Assigned number: FMC/QEH/G.596/Vol.10/041

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Competing Interest

The authors declare no competing interest.

Approval by the Authors

The authors approved the publication of the manuscript.

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