Determinants Socio Economic of the use of HIV VCT dans Health Zone Kenge, RDC

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ABSTRACT

According to WHO (2008), HIV infection remains a major concern of public health. It is one of the most dreadful killer diseases that takes off the lives of 5,500 people daily out of 7,500 daily contaminations. Most of the people living with HIV/AIDS are found in the third world and about 70% live in Sub Saharan Africa; therefore, the Health Zone of Kenge can be not an exception to this drama. This study sought to determine the utilization ratio of the Counseling and Voluntary Screening (CVS) services of HIV/AIDS while describing the factors associated with the weak use of these services, in the Health Zone of the Kenge and exploit relationships between these variables. Results show that the proportion of the people having already used the CVS services in the health zone of Kenge is about 14 boxes per a thousand (14%). This utilization ratio of the CVS services is much lower than the national average 1.5% in 2013, 3.1% in 2014 and 3% in 2015. This study as well has been found the coverage of CVS services is 22.7% and there are five CVS out of 23 health units. There was also a significant relationship between socio-economic and organizational factors, on one end and the utilization ratio of the CVS Health services in the area of Kenge, on the other. The himself factors included my trial stat, age, household size and the knowledge of the CVS rental, among others. Based on these results the study concluded that HIV prevalence in the Health Zone of Kenge is likely to be superior to the national average. It may be highly linked to the low pace of utilization of CVS services. There is a great need for sensitization in the field of voluntary screening and the use of condoms, the distribution of ARVs and condoms to the health units, as well as the sponsorship of sick people by the political and health authorities in Gold to fight effectively HIV/AIDS.

SUMMARY

According to WHO (2008), the HIV infection remains one of the major public health problems in the world and one of the deadliest diseases, killing more than 5,500 people every day 7500 daily contaminations. About 70% of this population lives in Third World countries and more specifically in sub-Saharan Africa; therefore, the Kenge Health Zone is no exception to this tragedy. This study sought to determine the utilization rate of Voluntary Counseling and Screening (VCT) services to describe the factors associated with the low utilization of these services in the health zone Kenge and to explore relationships between these variables. The study used the quantitative Cross-sectional survey method with correlative explanatory statements to identify the factors inherent in the rejection of VCT services on a homogeneous sample of 422 respondents.
results indicate that the proportion of people who previously used VCT services in the Kenge health zone in 2016 would be 14 per thousand (14%). This utilization rate of VCT services would be lower than the national average of 1.5 % in 2013, 3.1% in 2014 and 3% in 2015 while the coverage rate for CVD services is 22.7%.

In addition, there are five VCTs on a set of 23 health training courses (FOSA). Finally, there is a significant relationship between the rate of VCT use in the Kenge Health Zone and socio-economic and organizational factors, including marital status, age, household size, and knowledge of community health, where the VCT is located. Based on these results, it can be concluded that HIV prevalence is above the national average in the Kenge Health Zone. It could be closely linked to the low use of VCT services. Hence the lively appeal to politico-health authorities to support awareness raising activities on the detection and use of condoms, the distribution of condoms and ARVs, as well as the care of patients to effectively fight against HIV/AIDS.

### Introduction

HIV infection is and remains one of the major public health problems in the world and one of the deadliest diseases, with higher mortality in third world countries, and more specifically in Sub-Saharan Africa around 70% of people are living with HIV (WHO, 2008). WHO (2007) [1] reported that about 29.5 million people were living with HIV/AIDS in 2001 and this figure was revised upwards to 33 million in 2007, as a result of new infections mainly from Africa Sub-Saharan Africa. According to the UNAIDS report (2005) updated by WHO (2008) [32], nearly 7500 people are infected with HIV every day and 5,500 are dying of AIDS. WHO (2015) states that the main facts related to the epidemiology of HIV indicate that this infection has already killed more than 34 million people since it was declared a global pandemic in 1985. WHO (2017) updated the number of infections 36.7 million people, including 2 million new infections, with 1.2 million deaths from one cause or another related to HIV during the year worldwide.

Today there are more than 35 million cumulative deaths since 1985. Thus HIV/AIDS remains the pandemic of 20th century and has negative consequences for all the sectors of development. UNAIDS (2008) adds that HIV/AIDS is pandemic in Africa and is the biggest health the continent has faced since 1983, when the first AIDS cases were reported. It is estimated that 22.5 million adults and children living with HIV, while the number of new infections among adults is estimated at 1.7 million in sub-Saharan Africa, and 1.6 million people die there. WHO (2016) adds that 40% of people with HIV (more than 14 million) do not know their status. This is an extrapolation based on the number of people tested positive for HIV who did not know it at the time of the test.

One of the reasons the pandemic continues to make its way home is certainly related to the low voluntary attendance of Voluntary Counseling and Testing (VCT) services for people with HIV/AIDS. The Public Health Agency of Canada (2010) has shown that the HIV/AIDS epidemic continues to disproportionately affect homosexual, bisexual and other men who have sex with men. WHO (2014) adds that key groups, including men who have sex with men, prisoners, injecting drug users, sex workers and transgender people, are most at risk of HIV infection because they have the least access to prevention, screening and treatment services.

Surveys in sub-Saharan Africa reveal that only 12% of men and 10% of women received counseling from Voluntary Counseling and Testing (VCT) and/or HIV testing and received the results (Karkouri 2010) [2]. These figures indicate that the number of people who have already used VCT services would not be significant in the DRC compared to the continental and global average (MINISANTE, 2009) [3]. In its report on coverage of VCT services in the health zone of Kenge, MINISANTE (2013) reports a rate of use of VCT services of 1.53% of the general population for all health facilities (FOSA) that counts the Kwango. Nevertheless, this figure was revised upwards in 2014 (3.12%) and down in 2015, with a rate of 3%. However, the prevalence of HIV in Kwango was around 0.3% in 2016. Of those infected, nearly 92% were on ARV treatment (MINISANTE, 2016).

This study aims to answer the following questions: What is the current trend in the use of VCT services in Kenge City? What are the factors associated with the low use of these services in the DRC in general and in the Kenge Health Zone in particular? The study then set the following objectives: (i) to determine the rate of utilization of the services of (CDV) in the Kenge Health Zone from 1 to June 30, 2016; (ii) describe the factors associated with the low use of these services; and (iii) explore the relationships between these variables. The study assumes that there is a significant relationship between socio-economic, socio-cultural, and organizational factors in the utilization rate of VCT services in the Kenge Health Zone. Indeed, there is a striking gap between the progression of HIV and the dynamics of HIV research in sub-Saharan Africa, especially with respect to the factors associated with low utilization of VCT services. (Sawadogo 2006) [4]. As a result, this study could, theoretically generate important data and other assumptions that can be used to identify future solutions to the other problem of low VCT utilization. In addition, by explaining the factors associated with the use of voluntary counseling and testing services, this study will help all stakeholders develop effective strategies that can encourage people to use VCT services frequently to increase coverage.

### Literature Paper

According to WHO (2015), sub-Saharan Africa is the most affected region in the world, with 25.8 million cases of PLHIV in 2014, while in North Africa only 35,000 people had contracted HIV in 2007 and that the total number of people living with HIV (PLWHA) in the region would be $ 380,000 (Makono, 2008). The World Bank [5] reveals that the prevalence is respectively 1.8%, 2.2% and 4.7% in the Ivory Coast, in Ghana and Burkina Faso. In

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Benin, the Gambia, Guinea Conakry, Guinea Bissau, Liberia, Mali, Nigeria, Sierra Leone and Togo, population prevalence between 1.2% and 1.5%, while the prevalence is between 2.8% and 6.7% depending on the ANC centers. Senegal, Niger and Cape Verde have a prevalence of less than 1% (Lowndes et al., 2008) [6].

WHO (2015) declared 54% of people infected with HIV know their status worldwide. Today, more than 14 million people living with HIV (40%) do not know their status. According to WHO (2016) between 2005 and 2015, the proportion of people who knew their HIV status increased from 12% to 60% worldwide. Bateganya (2010), however, reveals that the rate of use of VCT services is low, and only about one out of every 10 eligible patients have access to VCT in developing countries. This situation is essentially due to shortcomings in the availability, access and attendance VCT services (FHI 2001). The difficulty of accessing testing centers and the cost of service are among the challenges in HIV testing.

According to Burundi’s EDS-2010 report, the Ministry of Health reports that 16.7% of women and men aged 15-49 have been tested for HIV voluntarily in the last 12 months (MINISANTE, 2015). In Cameroon, 39.8% of pregnant women received HIV testing (NFETAM, 2012) [7]. While VCT is currently recognized as an effective strategy at the heart of HIV / AIDS prevention and care, testing is at the crossroads of prevention of new infections and care of patients. MOH (2008) finally HIV seroprevalence in the DRC to at least 4.1% in the general population and 90% infection recorded in the child’s act were due to the vertical transmission be 1,276,392 PLHIV. In 2010, the HIV epidemic has given sense of stability or even decline, despite the troubled times experienced by DRC between 1996 and 2003. Furthermore, despite the high number of people living already with HIV / AIDS, it is estimated that less than 10% of these people are aware of their HIV status. Surveys in sub-Saharan Africa show that only 12% of men and 10% of women received counseling and an HIV test and received the results in the DRC (MINISANTE, 2009) [8].

Materials and Methods

Description Milleti had to study

This study conducted in the Health Area (ZS) Kenge, Kwango Provincial Health Division (DPS), As from the period 1st at 30 June 2017. Count among the ones 14 DPS Kwango, Kenge has a population of slightly more than 300. 207 inhabitants (City of Kenge, 2017) [9] divided into 28 health areas of 28 health centers each. The province of Kwango covers a total area of 89. April 58 Km2 with an estimated density of 28 habitants / Km2 in 2014 (DPS-Kwango 2018). She is limited to the north by the Wamba River and the Kikongi SZ; to the south by the full Makiosi and the Kimbau SZ; in the East by the Inzia River and the Masi-Manimba Sz; to the west, the river Wamba and the Boko SZ. With such track communication the national road N1 275 km from Kinshasa. The climate is tropical wet with two wet seasons (September-January; and March-May) and two dry seasons (May to September; January- Mars). This partly explains the presence of the woodland savannah.

The city is entirely on plateaus intersected by valleys, and sometimes, hills between the rivers Wamba in the west and Bakali in the east. The Kenge soil is sandy Karoo-Kalahari type. Its vegetation consists essentially of grassy savannas, woodlands and forest galleries found along the rivers. The city is connected to the rest of the country mainly by the national road N1, Kinshasa-Kikwit. The population of Kenge is 80% rural and agro-pastoral activities is the main source of income. Trading companies also offer Employment in the areas of commerce, small and medium enterprises, motorcycle taxis as well as teaching, health and public administration. This population essentially from the Yaka ethnic group but can be cosmopolitan in urban areas. It includes the population’s ethnic and tribal Yaka Pelende, Mbala, Suku, Hungani, Kongo, N gala, Swahili and phones. Pelende tribe is more predominant in SZ.

Sampling Methods and Technique Collection of Donations

This study was primarily an explanatory cross-quantitative analysis to estimate referred to the correlational background on a health survey supported by the literature and a structured interview to identify PHA having used the service VCT during the period of research (Amouli 2013). The study sample was probabilistic and simple random.

The size was calculated by the following formula from Fischer:

\[ n = \frac{Z^2 \times (p \times q)}{d^2} \]  

Or,

\[ Z \] is the parameter of the normal distribution at 95% confidence level (in practice = 1.96);

\[ p \] the probability of success of VCT services is 50%; \( q = 1 - p \), the probability of failure of VCT services, representing the proportion of people who did not use these services, is also 50%; \( d \), the degree of accuracy of the estimate, is practice 5%. In these circumstances, the size of the sample not Is equal to 384 people; knowing that there may be no answers, we thought to increase the size of our sample by 10% which makes us a total of 422 people to interview. C and sample were distributed proportionately in the health areas according to the weight of their respective populations. A pre-survey had been carried out to identify in advance the problems that might arise during the investigation phase itself. Data collection was done at VCT structures of rural health zone of Kenge, especially between Misele health, Mukila Barriere and in the province of Kwango during the period from 1 to 30 in 2017. The enquête century were made on appointment, previously obtained from the responsible structures targeted before or scheduled interview.

Selection Criteria: The study retained in its sample subjects fulfilling the following conditions:

a) reside in one of the areas of the Zone of Santé Kenge;

b) have been seen or screened positive HIV during the study period or before it;

c) be aware of the existence of VCT are structures in the area of Santé.

Criteria for Exclusion: A person who has deliberately refused to participate in the study or were absent during the investigations was supposed to be excluded from the sample.
Technical Analysis Data

The analyzes were mainly based on descriptive and inferential statistics. The data has been tabulated to facilitate the calculation of frequencies. The trends were identified for Basic Equation 2:

\[ f = \frac{F_O}{FA} \times 100 \]  
\[ \text{Or}, \]

\[ f = \text{Relative frequency} \]

\[ F_O = \text{Frequency observed} \]

\[ FA = \text{Expected frequency} \]

The chi-square test (Chi\(^2\) or \(\chi^2\)) was used for checking the links between the actual used VCT e t socioeconomic and organizational factors associated with its used services. This head inferential analysis at allowed to test the hypotheses null \(E\) according to which there was no relation the expected distribution of the used VCT (E) and observed that these suspected socioeconomic factors explained this state of using (O). Thus, the century hypotheses have been testing:

\[ H_0: E \neq O, \text{ there is a difference significative rent distribution of E and O} \]

\[ H_1: E = O, \text{ there are not significant difference between the E and W of distributions} \]

From an analytical point of view, has STATISTICS e chi-square (chi\(^2\)) is represented by the following formula (Equation 3):

\[ \chi^2_{ ddl,p} = \sum \frac{(E_i - O_i)^2}{O_i} \]  
\[ \text{Where,} \]

- \(E_i\) the ith EFFECT if expected used at VCT
- \(O_i\) the jth observed effective the distribution alleged socioeconomic factors explain the used VCT
- \(ddl\), the degree of freedom (equal to nk)
- \(n\), the total number of the sample
- \(k\), the number of estimated parameters (equal to the number of factors)
- \(p\), the signification rate (equal to the probability of failure of \(H_0\))

Le e of statistical chi-square (chi\(^2\)) was tested significance level of 5% (\(p = 0.05\)) using the SOFTWARE computer SPSS 1.0 and 2 MS Excel 2010.

Results of the Analysis

Proportion of use of CDV Services

Figure 1 shown the male patients represented 50.2% of the sample against 49.8% female. This predominance explained by many men make that accordant has the importance to their status that most women; they are therefore inclined to get tested to know it. But these results are not conclusive when we look at the spatial distribution of respondents. They are influenced by the large enrollment of men (53.1%) to AS Barriere whose effect if total respondents were 211 on effect if total of 422 (see Table 1). Otherwise, AS Mukila, men and women to be screened represented Exe quo 50%, while the AS. Misele proportion Women (53.1%) was higher than that of men (46.8%).

![Sexual distribution of the people surveyed](Authors, 2017).

Table 1: Distribution of respondents according urss age bracket.

| Age range (per year) | AS Barriere | | AS Misele | | AS Mukila | | Total |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                      | Effective   | Percent (%) | Effective   | Percent (%) | Effective   | Percent (%) | Effective   | Percent (%) |
| 15-20                | 59          | 28          | 33          | 19.3        | 4           | 10          | 96          | 22.7        |
| 21-25                | 41          | 19.4        | 33          | 19.3        | 11          | 27.5        | 85          | 20.1        |
| 26-30                | 25          | 11.8        | 23          | 13.5        | 4           | 10          | 52          | 12.3        |
| 31-35                | 27          | 12.8        | 28          | 16.4        | 9           | 22.5        | 64          | 15.2        |
As for the age group, it emerges from this table that the slice of 15-20’s era (with 22.7%), followed by that of 21-25 years (with 20.1%), that of 26-30 years (with 19.7%), that of 31-35 years (with 15.2%), 26-30 years (with 12.3%), and finally that of 36-40 years (with 10%). The important representation of minor and major youth can be explained by made at this age of life having a youth life without control, thus face the risk of reaction contaminated with HIV. Moreover, they are exposed to IEUX relative information voluntary testing and are prone to be tested for know their serological status. In addition, the distribution of the respondents the marital status (Table 2) confirms that singles, which are consents the risk of HIV infection represent more than half of a population surveyed (51.2%), followed by (42.4%). The other categories were not recorded proportions signifiantes, including (3.8%) of the ivorcés (1.2%), the file- mothers (0.9%) and people living in free union (0.5%).

Table 2: Distribution of respondents according to their marital status.

| Marital status    | Surveyed population |
|-------------------|---------------------|
| Married           | 179                 |
| Single            | 216                 |
| Widowed           | 16                  |
| Divorced          | 5                   |
| free Union        | 2                   |
| Daughter- mother  | 4                   |
| Total             | 422                 |

Note: Source: Field surveys (Authors, 2017)

Table 3: Size of household are surveyed.

| Household size (per capita) | Surveyed population |
|-----------------------------|---------------------|
| 2-Man                       | 30                  |
| 4-Man                       | 66                  |
| 6-Man                       | 142                 |
| 7 and more                  | 184                 |
| Total                       | 422                 |

Note: Source: Field surveys (Authors, 2017)

As of emerges Table 4 that 205 out of 422 respondents (48.6%) have achieved a level of primary s studies, 99 (23.5%) has just reached having the primary level, and 106 (i.e. 2.5, 1%) having started but not completed their secondary education. Moreover, among the 87 ENQUIRES (i.e. 20.6%) have completed their secondary education, but only 53 respondents (12.6%) were of the upper university.

Table 4: Level of study of respondents.

| Level of study    | Surveyed population |
|-------------------|---------------------|
| No level          | 77                  |
| Primary           | 99                  |
| Secondary unfinished | 106             |
| Secondary completed | 87                |
| Superior / Academic | 53                 |
| Total             | 422                 |

Note: Source: Field surveys (Authors, 2017)

Table 5: Reason given by the respondents for not having been tested.

| Reason not to have been tested                             | Surveyed population |
|------------------------------------------------------------|---------------------|
| Reason not declared                                        | 184                 |
| Having never been advised                                  | 41                  |
| Not Believing to Have HIV Infection                        | 138                 |
| Afraid to die if the test is positive                       | 47                  |
| Distance from the CDV                                       | 2                   |
| No VCT in the residential area                             | 1                   |
| Fear divulguer status by lack of confidentiality by the provider | 9                   |
| Total                                                      | 422                 |

Note: Source: Field surveys (Authors, 2017)

The importance of primary and secondary unfinished be explained by the lack of financial means and early marriage. It is the category respondents that lasts raining exposed to the risk of contraction of HIV / AIDS. Finally, in order to provide the future well-being, certain strive must last until university level have completed their high school, although they will not necessarily work after their high school. C and low level of education is also reflected in the reasons advanced by respondents for not been tested (Table 5) and the knowledge of the Screening Centers Voluntary (VCT) of HIV / AIDS are taken by (Table 6 and Figure 2). From Table 5, at 422 enters 43.6% (or 184 people) saw no valid reason to get tested or Declares érogolique their state; only 238 subjects were given a reason they deemed valid not for sector. Among the 238 subjects, 138 do not have covalent HIV infection (58%) and therefore it does not important to get tested. Another category composed of 47 candidates (19.7%) did not know the results for fear of suffering the more in case of positive result, 17.2% (41 per PERSONS) could not be tested because they valiant never been well advised. Fear of
lack of professionalism or confidentiality of the service by screening services was cited by 9 people (or 3.8%) as a reason for refusal u test, and a very small proportion respectively 0.8 and 0.4% could be tested either for reason of remoteness or lack of VCT in the radius of the residence.

Table 6: Reason given by the respondents for not having been tested.

| Variables                  | Surveyed population | Effective | Percent (%) |
|----------------------------|---------------------|-----------|-------------|
| HGR                        | 123                 | 66.8      |             |
| CS                         | 61                  | 33.2      |             |
| I do not know a single CDV | 238                 | 56.4      |             |
| Total                      | 422                 | 100       |             |

Source: Enquêtes on land (Authors, 2017).

Table 7: Motivation of the respondents to make you feel at the CDV.

| Motivational ion Screening | Surveyed population | Effective | Percentage |
|---------------------------|---------------------|-----------|------------|
| Personal Conviction       | 60                  | 32.6      |            |
| Conus of care providers   | 51                  | 27.7      |            |
| Call for blood donation    | 38                  | 20.7      |            |
| Casel of a religious leader| 16                  | 8.7       |            |
| Prenuptial examination    | 14                  | 7.6       |            |
| Service obligation        | 5                   | 2.7       |            |
| Total                     | 18 4                | 100       |            |

Note: Source: Field surveys (Authors, 2017)

Table 7 shows that by mithes 184 candidates tested, 32.6% were personal conviction (so it 60 cases), 27.7% following the provider’s advice care (51 cases), 20.7% in an appellation of blood donation (38 cases), 8.7% suite the council for religious (or 16 cases), 7.6% in the occasion a premarital examination (i.e. 14 cases), and 2.7% were obligated by their employees (5 cases). In addition, 61.4% of the 184 people tested (113 cases) returned for their test results to the VCT, while 38.6% (or 71 candidates) never returned, for various reasons. Among them, 57.4% said they were afraid of positive results; 29.4% were re-tensioned not received an appointment farm on the part of providers are; 2.9% of no return was justified by the delay in the delivery of results are; 10.3% Prevention (Table 8).

Table 8: Reasons for not returned looking for the results.

| Advanced reason                  | Surveyed population | Effective | Percent (%) |
|----------------------------------|---------------------|-----------|-------------|
| Peur of a positive result        | 41                  |           | 57.4        |
| No firm appointments             | 21                  |           | 29.4        |
| Delayed results                  | 2                   |           | 2.9         |
| E splitting                      | 7                   |           | 10.3        |
| Total                            | 71                  |           | 100         |

Note: Source: Field surveys (Authors, 2017)

These socio factors and environment play a significant role in the spread of HIV infection in the Kenge Santé Zone. But the socio-economic factors are none the less. The Table 9 & 10 respectively have the occupations careers and income level characte the population enquêté. Table 9 shows that a total of 140 applicants were unemployed (33.3%) and 96 were freelancers or traders (22.7%). Only 90 were paid private sector workers (21.3%) and 43 paid in the public sector (10.2%). The 53 remaining were posing for “resourceful” small busy shopping or other employees released (silo 12.5%). This predominance of professions liberal and sector private in the sample s explained by job scarcities in s structures state Public Sector in the Province Kwango. As for the monthly income, the e Table 10 made status of ‘ unlevel average pay as
low scales wage in the DRC, so its amount is 50 $ US. Indeed, 236 respondents in 422 (55.9%) were living of US $ 2 per day poverty line while 167 from among themselves (i.e. 39.6%) BC has un income level medium dice passing US $ 2 but lowered laughing at US $ 5 a day.

The middle class was higher represented by 3.1% of respondents (13 out of 422 candidates screened) while the class average not greater than e $ was represented by 6 individuals of 422 (or 1, 4 %). Its level of income household predominantly was out denoting indeed the socioeconomic conditions precarious prevailing in DRC in general and in Kwango Province, in particular. They thus have a significant influence on the spread of HIV infection in the Kenge Santé Zone.

Factors Associated to Using the Services CDV

Looking back on the possibility of association between socio economic study above it and using services of GTC, the analysis of the test Chi Square has perm is decorroborate fait these factors have a significant influence on the spread of HIV infection in the Kenge Health Zone. The Table 11 indique that only the marital, go household, Age, age range and knowledge of CDV can exply explain the motivation of respondents to be fairer TROUBLE- voluntary lying. Indeed, the test Chi Square was rejected at 99% confidence level the null hypothesis (Ho) according to which there is no relationship close between service utilization of VCT and these characteristics socio economic, with the exception perhaps of the household, where the Ho was rejected at 90% confidence level (Khi² = 0.377; dd1 = 1 5; p = 0, 09 7). Thus, there were significant positive relationships between marital status and use of VCT services (Khi² = 17,794, dof = 5; p = 0.003); the use of CDV (Khi² = 78.129 ; df = 34 ; p = 0.000); the c nowledge VCT e t using the services of e VCT (Khi² = 78.129 ; dd1 = 1 5; p = 0.000) . And finally, between the t go household using the services of CDV (Khi² = 0.377 ; df = 1 5; p = 0, 097).

Discussion of Results

The results on the sociodemographic characteristics showed that the male (nearly 51%), young majors and Mineurs (aged between 15 and 45 years), the single (51.2%) and married (or 42, 4%) not predominated the study sample. But the participation rate of mother- daughters and people living in a free union was low. The test Chi Square has not establis a significant relationship s between the use of these services and sex, household size, n level studies, has attitude compared to CDV, professional occupation and household’s monthly revenue respondents in our sample. Nevertheless, the influence of these factors on the spread of HIV in the Kenge Health Zone cannot be dismissed. Elle is probably Depending on the evolution of E binds social and environment to the Health Zone.

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### Table 9: Category s socio-professional s of respondents.

| Occupational Occupation | Surveyed population |
|--------------------------|---------------------|
| Paid work public sector  | 43                  |
| Paid work private sector | 90                  |
| Jobs indépendant or trade| 96                  |
| Retailing and ther s job s released ow| 53                  |
| Unemployed               | 140                 |
| Total                    | 422                 |

Note: Source: Field Investigations (Authors, 2017)

### Table 10: Distribution of respondents according our income level.

| Monthly income (in US $) | Surveyed population |
|--------------------------|---------------------|
| Good (Less than 5 0)     | 236                 |
| Low (5 0-1 50)           | 167                 |
| Medium (151-3 00)        | 13                  |
| High (More than 3 00)    | 6                   |
| Total                    | 422                 |

Note: Source: Field Investigation (Authors, 2017)

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### Table 11: A ODCS i was tion between art socioeconomic variables and utilization department ‘s screening of V IH to Kenge.

| Variable                                      | Khi²  | dOF | p ≤  | Decision          |
|-----------------------------------------------|-------|-----|------|-------------------|
| Sexe                                          | 0.377 | 1   | 0.54 0 | Acceptance Ho     |
| Marital status                                | 17,794| 5   | 0.003 | Ho Rejection (99%)|
| Household size                                | 22,441| 15  | 0.097 | Ho Rejection (90%)|
| age range                                     | 78,129| 38  | 0.000 | Ho Rejection (99%)|
| level of studies                              | 5,796 | 4   | 0.215 | Acceptance Ho     |
| Knowledge of u CDV which is voluntary testing done| 116.44| 1   | 0.00 0 | Ho Rejection (99%)|
| Attitude to VCT                               | 2,122 | 1   | 0.145 | Acceptance Ho     |
| Occupational Occupation                       | 8,512 | 5   | 0.130 | Acceptance Ho     |
| Monthly income of u household                 | 0,650 | 3   | 0.085 | Acceptance Ho     |

Note: Source: Field Investigations (Authors, 2017)

The results on the sociodemographic characteristics showed that the male (nearly 51%), young majors and Mineurs (aged between 15 and 45 years), the single (51.2%) and married (or 42, 4%) not predominated the study sample. But the participation rate of mother- daughters and people living in a free union was low.

## Discussion of Results

The results on the sociodemographic characteristics showed that the male (nearly 51%), young majors and Mineurs (aged between 15 and 45 years), the single (51.2%) and married (or 42, 4%) not predominated the study sample. But the participation rate of mother- daughters and people living in a free union was low.
Acting in household size, the results of our study have shown that raised s 75 % of subjects’ interreges underpins not from the larger families African typical of at least 6 per tones; very few among them belonged to a household least 2 persons. Furthermore, over 68 % of respondents had never have their secondary education and were from the professions libéra it’s not paid and paid private sector has income in daily amounts of US $ 2. These reasons economic and socials, are come taken poverty and the weddings early can be decisive in the transmission of HIV infection in Kenge Health Zone. In a study chronoogical systématique on progression HIV / AIDS in that Sub-Saharan Africa, Hargreaves et al. [10] have associated e risk of contracting HIV / AIDS to u n low level of education. Fassin (1992) and Fainzang (2003 ; 2006) went further by saying that are people with education very there tend to motivate contraction virus by “the time fixed by God” or purely and simply “Good” because they say that divine union that of be infected by the HIV/ AIDS. “ This sometimes makes it difficult the relations between PHAs and providers of self, begotte and “ inhospitable medicine in Africa (Côte d’Ivoire and Sardan, 2000).

Interviews had in the zone of sante on the perception of HIV reinforce these arguments. Indeed, 35.1% of interviewed affirmed not have knowledge of HIV transmission modes, and 46.2% had perceive HIV as a chronic disease incurable. Moreover, 38.4% have said they consider as a disease oflove, 15.2 % said that everyone is at risk of being infected with HIV and 0.2% very small proportion have thought that it is an AGISS environment.

Kawadogo (2007) confirmed as insufficient knowledge of the ways of HIV transmission appears to be a limiting factor for the use of VCT services in the health district of Kaya (DSK), Burkina Faso. Nevertheless, most respondents, between 70 % to 99 %, have recognized the sexual transmission as a channel very transmission HIV / AIDS and the use of condoms and the Prevention of Mother to Child Transmission (PMTCT) as a prevention mode par excellence (Zigani, 2004). In a study of Ugandan adolescents, Bohmer et al. (1997) have intercepted that the knowledge and localization services VCT stay in to carriers to attendance these services. Thus, very little among our Interviews were reconnect that the early detection of HIV was a strategy of prevention against HIV infection (or 3%), while 43.6% have been reconnect by the place where one is screening Volunteer.

Zigani (2007) has hasted that if 39% of respondents louse haven’t know the establishment where will realize the test of HIV and 0.2% very small proportion rejected by the company, while 25% pou veen ‘veent reallydire it allows of to start treatment on time. In our study only 43.6% of respondents living in Kenge Health Zone reported having been screened volunteer against 12% in the DRC, 16.7% in Burundi, and 39.8% in Cameroon that have been (PNLS, 2009, NFETAM, 2012, MINISANTE, 2015). Zigani [45] dreamed I was that a majority of e s persons in petty trading refusal ‘veent to know their status serology of HIV p ar fear of éttr e reject ed by the company while Baggaley et al. [11], found that e the majority of young Zambia ns (or 92.7%) refusal have e nt to be test first, even free, for fear of e know to be HIV positive and to die.

And in our sample, 58% of e n that ê sides had found no reason good to get tested because they croya ian t does not have HIV infection while 19.7% were afraid to die if positive results, and 17.2 % said No ‘ av o ir never been advised to get tested. The e lack of confidentiality of per t of service s, the remoteness and lack of VCT within the radius of the residence were minor reasons of u refusal to be test first. Thus 38.6% of our respondents n e are never returned seek ur s results without any reason while 57.4% were of e clare not be back born of fear of reec see the results positive. All this s results corroborate with those of Ouédraogo et al. [12], Msellati et al. (2001) and Cartoux et al. (1998). almost Few of years all are near to be voluntarily tested against HIV / AIDS and returned for the ur UTCOME test HIV or less of in informing their partners. Indeed, Ouédraogo et al. [12] disie ne t whether the use of voluntary HIV testing t has remained low, it is because people avai nt fear negative reactions from those around them. The existence of HIV-related stigma is a factor that impedes the use of VCT services in the Kaya Health District (KDS). Msellati et al. (2001) and Cartoux et al. (1998) not observed that fear pervaded most pregnant women that and i had to accept r to be voluntarily t is first order to know if they and their babies were infected with HIV. In fact, m ê me when they accepted screening, they only haven’t returned more to take their outcome.

As for the circumstance s that led to screening voluntary, the majority of people in the Health Zone Kenge was persuaded by authorities or health, social or Religious her (almost 70 %) in to an e prestat public or ion private, including of s care, call Donation of blood and a premarital examination. Only 32.6% were motivated by the belief s personal s. Thus, the art communication channels officials find their purpose entreant networks that promote behavior change for d e a l Utte against AIDS. These marketing methods are based on communication and promotion strategies developed well and the willingness stock i rare well defines per putting stakeholders to sout e n ir public action to have sour r acceptance and hard Abilit ed ed of services VCT (MLS, 2005; Luwesi et al., 2018) [13-45].

Conclusion

AIDS, which is a pparue worm s the 1980s, is so quickly become a pandemic and a real problem s Public ante development and economic and social. The fight against HIV is the 6 th Objectif for Development Durable (ODD) in the world. Thus in Africa and DRC, HIV infection / AIDS is still considered as the first concern of the manager ‘s questions san i t Air e s, because it is among other things a major cause of infant and child mortality en RD C, where the HIV prevalence stood at at least 4.1% in 2007, in the general population, and in 90 % in the child. Thus one can hardly expect an epidemiological situation of HIV / AIDS better in the area of Sant é Kenge, in 2018, rather than catastrophic, compared with the ‘ year 198 3, when the first AIDS cases were are notified.

Despite this very high number of people already living with HIV / SI DA, it is estimated that less than 10% s people in the world are aware of their status, even to post NACP (2009), VCT coverage on all of el extent of a DRC remains around 24.5%, which corroborates the result of 22.7% found for years the five VDCs on a set of 23 health
facilities that make up the area Kenge Health Center. The reason s advances are mainly related to deficiencies in the availability, access and attendance of council services and of voluntary HIV testing (VCT), and Kenge Health Zone is no exception to th this drama. Thus, the use of VCT services have it be at any cost encouraged. This is the epitome of not r e study in Kenge health zone.

This study aimed to clarify some light on issues related to the proportion of people who have used VCT services in the health zone of Kenge e t the factors having determined that head decision or justifying the favorable use VCT services. After collecting and analyzing the data, he results indiquent that the proportion of people who have used the VCT is higher than the national average in Kenge health zone. Moreover, He would exist the significant relationship s between the use of s VCT and some factors socio economics (marital status, the age, t g o household, and has knowledge of e where s e finds the CDV).

**Recommendation**

As a recommendation, the authors of this article strongly challenge the Congolese government to be able to support the fight against HIV / AIDS in the Province Kwango in general and the city of Kenge in particular. By establishing communication channels officials clear e t in promising VCT as behavior change promotion networks for years to the Utte against AIDS, the State will have sour official s e t in promising VCT as behavior change promotion networks for years to the Utte against AIDS, the State will have sour e t in promising VCT as behavior change promotion networks for years to the Utte against AIDS, the State will have sour.

**Webography**

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b) Program National LJtte against the S IDA (NACP): [www.pnmls.cd](http://www.pnmls.cd)

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