AIDS, a chronic immune system disease caused by HIV (human immunodeficiency virus), has been affecting thousands of people for over thirty years. The percentage of people in different areas around the world can be as low as only one percent to a fifth of the population. The problem many areas face is too little knowledge and treatment options available for the disease.

**Background Information**

- **Requirements for diagnosis:** HIV positive person with a CD4+ T cell count of less than 200μL (Fauci 2012).
- **Over 3 million people are killed by AIDS yearly, with 2.4 million from Sub-Saharan Africa alone (O’Hara 2007)**
- **73 out of every 1,000 drug users examined are diagnosed with HIV and 90 percent of these are intravenous drug users (Popova 2007).**

**Hypothesis**

We hypothesize that underdeveloped countries will have higher rates of AIDS patients due to less accessibility to information and treatment than those that are developed.

**Method**

We will be looking into the economic conditions, cultural stigma, and social barriers that are associated with AIDS and HIV in the respective areas. Also by comparing this to the spread and prevention of the disease we will be able to make inferences on why some areas especially more poverty stricken areas are more prone to higher rates.

**Problem**

AIDS and Cultural Variations

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**AIDS and Cultural Variations**

As shown by the data collected, the rates of AIDS and HIV positive individuals is higher in undeveloped countries. Many of these areas that report high prevalence of HIV positive individuals are overpopulated and are not informed properly about the dangers and possible treatments and prevention tactics. More countries are now stepping in and starting initiatives the help fight AIDS. Governments and organizations should take this data into consideration and follow through by taking action to help these areas.

**Results West Africa**

- **Kenya:** Has 1.6 million people with AIDS/HIV, with the prevalence in rural areas is 4.6% and 9.6% in urban areas (Williams 2014).
- **An estimated 300 thousand Kenyans that are in need of treatment. (Williams 2014).**
- **KAI, used 7.5 million U.S dollars but was able to receive much needed information to help reduce the prevalence in HIV/AIDS (Langrenam 1993).**
- **Uganda:** Has 1.3 million people with AIDS/HIV, 7.5% of the country, but is on the decline because of the help of the government and the ability to use antiretroviral therapy (UGANDA 2005).

**Focus**

- **In 2011 the prevalence of adult HIV infection varies from below 0.2% in parts of Central Europe to above 1% in parts of Eastern Europe (Aeni-Popp 2013).**
- **Countries with the highest rates in 2010 were Belgium (10.7) and the United Kingdom (10.0) (Lazurus 2008).**
- **The majority of the reported people diagnosed with HIV was infected through male-to-male sexual contact (40.1%) and 10.1% were 15 to 24 years old (Lazurus 2008).**
- **Focus on prevention tactics among the most-at-risk populations: homosexual males, prisoners, drug users, and mother-to-child transmission (Lazurus 2008).**

**United States**

- **AIDS was first recognized in 1981, when the U.S. CDC reported mysterious cases of Pneumocystis jiroveci in five previously healthy homosexual men and Kaposi’s sarcoma in 26 previously healthy homosexual men in New York and Los Angeles (Fauci 2012).**
- **Scientists tried to develop a vaccine with the envelope protein gp120 aimed at inducing neutralizing antibodies in humans. It was unsuccessful (Fauci 2012).**
- **About 1.1 million people in America who are HIV-infected, but an estimated 21% do not know (Fauci 2012).**
- **CDC is starting to require HIV testing for people 13 to 64 in the United States (Fauci 2012).**

**South Asia**

- **HIV entered South Asia in 1984 and has gone viral due to vast poverty, social inequality, illiteracy, and large sex work industries (Panovska-Griffiths 2014).**
- **India has more than 60% of south Asia’s HIV positive population (Panovska-Griffiths 2014).**
- **HIV prevalence among female sex workers (FSWs) is higher than any other region caused by lack of awareness and little access to condoms (Panovska-Griffiths 2014).**
- **The Avahan Program has been providing HIV prevention activities and condom promotion among FSWs. Prevented around 202,000 cases of infection in 4 years (Panovska-Griffiths 2014).**

**East Asia**

- **East Asia presents stable HIV infection, with a low prevalence around 0.1% of the population (Kenyon 2014).**
- **In 2012, 47% of HIV infected people had antiretroviral treatment (AIDS 2014).**
- **Government efforts have been made in order to reduce the epidemics, for instance, HIV/AIDS Asia Regional Program (HAARP) aims to stop the HIV spread associated with drug use (Sharma 2012).**

**Steps forward:** increasing treatment coverage, providing early diagnostics, and promoting prevention strategies, principally in the most affected groups (Sharma 2012).

**Conclusion**

By comparing this to the impact of the spread and prevention of the disease we will be able to make inferences on why some areas especially more poverty stricken areas are more prone to higher rates.