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## The Global Epidemic: A Study of AIDS and HIV

### **Abstract**

AIDS is an epidemic that has plagued our world for almost 2 decades. Many people across the world are infected with this disease that has already killed millions. There is currently no cure for the disease; however, it has been extensively studied. In this paper we analyzed literacy rates, physician density, income levels based on GDP, and age groups in an attempt to identify characteristics of people that make them more susceptible to contracting the disease. In this study, we did a hypothesis test correlating physician density and HIV deaths. We did another test correlating literacy rates to number of people living with HIV/AIDS. These numbers revealed a negative exponential correlation. We also did a proportion test that verified the claim that over 20% of new HIV diagnosis occurred in teenagers and young adults aged 13-24. Finally, we compared the rates of HIV in poorer and richer countries.