Epidemiology Assignment

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**Introduction**

In nursing, epidemiology is a term used to describe the distribution of the antecedents of the health wellbeing of a given class of people as well as the factors that affect their health. The primary areas of concern for epidemiology studies are accuracy, precision, accountability, and dependability of information and data that can be used by healthcare professionals and welfare organizations to curb the common and most dominant factors affecting the people in a given community or country (Al-Hajj, Smith, & Pike, 2017). In most cases, the results of epidemiology studies are utilized by public health agencies and professionals in designing and implementing the most appropriate measures in combating the most dominant social, or environmental factors affecting a peoples’ health wellbeing, while at the same time ensuring that other primary areas of healthcare wellbeing importance are adequately addressed.

Epidemiology is specifically essential in modern days due to the increased dynamics of factors that continue affecting the health and healthcare service delivery to people of different social and economic classes. For example, in recent years, they have been widespread economic factors that have hindered people from accessing adequate healthcare services, something that most epidemiology studies have considered. In this light, this report will provide an analysis of the U.S. 2020 epidemiology plan, a strategy that was designed to identify the leading health issues that affected the most parts and people across the country and the best courses of action to diffuse these problems.

**The U.S. Individuals 2020 Health Plan**

 This is a program created by the U.S. government with the point of guaranteeing more soundness of the individuals in America. It traces various ailments and plagues that represent an extraordinary danger to the individuals most definitely. Among the principal destinations of this program is to assist individuals with carrying on with a long and sound life liberated from every single preventable ailment (Al-Hajj, Smith, & Pike, 2017). The activity additionally targets accomplishing wellbeing value among all the American residents just as advancing a socio-physical encompassing that improves strength for the whole populace. The action portrays various maladies, some of which have been depicted underneath.

**1. Cancer**

**Impacts of Cancer on communities**

In the ongoing past, numerous individuals have surrendered to this fatal infection. This has prompted expanded despondency among multiple individuals who have been influenced by this sickness. The primary driver of the downturn is the misery and dread of experiencing this infection. The individuals who are as of now experiencing malignant growth have likewise gotten dreadful of the impacts of the dangerous cells in their body just as the vulnerability of them spreading. The individuals are likewise on edge for the explanation that the solution for this lethal sickness has not yet been found.

The disease has additionally influenced the economy in a great manner. The treatment process for malignant growth is costly for both the individuals experiencing the sickness and the network on the loose. Therefore, a great deal of assets has been put resources into researching the causes and fix of malignant growth, also in finding innovation that may deal with the infection (CDC, 2016). The cash could have been handy to the economy on the off chance that it was put resources into business and other financial exercises that would create a salary in the marketplace.

**The identification of Cancer**

Among the most punctual proof of malignant growth was found in fossil stays in Egypt, primarily in the skulls of the early man, just as in the mummies in 3000 BC. This shows the infection was there from some time in the past (CDC, 2016). Records likewise show that individuals from some time in history additionally experienced this destructive sickness. For example, the compositions found in Egypt had records of disease.

Malignant growth begins when cells in a specific piece of the human body begin to increase quicker than they should, causing the body part to develop wild. Since the time it was found, malignant growth has grown increasingly more every day (ODPHP, 2020). Today, the cancerous growth is among the main ailments that contribute to the most exceptional level of passing among the Americans just as on the planet in entirety.

**Strategic plan to contain Cancer**

 As indicated by the Sound Individuals 2020 Activity, there is a need to mediate in an offer to forestall and control the infection. Henceforth, the American government has put aside a measure of assets to fund inquire about the causes and preventive proportions of disease. The examination targets setting up data that would help individuals to carry on with a stable life liberated from the disease just as measures that could forestall quicker development of malignant cells in the human body.

From the examination, different causes have been found to cause malignancy. Malignant growth has a broad scope of makes going from ecological parts hereditary segments. While genetic factors are difficult to control, the ecological variables can be controlled to limit the development of the destructive cells in a human body. Among them are the concoction substances, for the most part, from the tobacco smoke, called cancer-causing agents (CDC, 2016). The Sound Individuals 2020 Activity has hence left on making mindfulness among the individuals in America with the goal that they know a portion of the reasons for malignancy and their job in forestalling this primary infection. For example, the program urges individuals to maintain a strategic distance from a lot of presentation to ecological parts, for example, U.V. radiation and radon among different operators that expand their odds of creating carcinogenic cells.

 Furthermore, the program trains individuals a portion of the word related reasons for malignant growth, for example, radioactive issues and asbestos just as synthetic substances like cancer-causing agents. Cancerous growth is likewise brought about by some way of life factors, for example, undesirable eating, drinking liquor, and smoking cigarettes (ODPHP, 2020). Such information assumes an essential job in forestalling the improvement of malignant growth, this keeping up the populace's wellbeing just as limiting untimely death rates.

 There have likewise been endeavors towards expanding the hardware used to control dangerous cells in the body. Researchers have created screening machines that are utilized to decide whether an individual might be having malignancy. An overflowing machine has likewise been found that is said to control the number of organisms that cause fatality in the human body. These machines assume a crucial job in containing the improvement of malignancy among individuals.

**2. HIV/AIDS**

**Impacts of HIV/AIDS on Communities**

HIV is an infection that causes Helps. HIV represents human immunodeficiency syndrome, while AIDS represents AIDS. This illness works such that it makes the virus battling cells more fragile, making an individual progressively inclined to sickness assaults. There is hence a need to treat HIV early enough before it forms into AIDS (Raghupathi & Raghupathi, 2018). The spread of the infection has prompted expanded destitution levels in various networks. This is on the grounds that a great part of the assets are utilized to pay for the treatment costs for the tainted people. On the other hand, the cash could have been put resources into increasingly profitable exercises that would create a salary for the influenced families. Hence, most families affected by HIV/AIDS have kept living under neediness, while the destitution rates keep expanding.

The infection has additionally prompted a monetary downturn among the influenced networks. The epidemic had prompted a huge passing of youngsters who were potential work assets in various areas, in this manner driving insufficient work power in the economy (CDC, 2016). Moreover, the influenced people lose confidence in their work environments because of gloom, consequently prompting lower efficiency. Therefore, there is less progression of cash in the economy, thus prompting a downturn.

**How HIV/AIDS was identified**

The ailment is said to have started from a specific sort of chimpanzees from West Africa. Researchers accept that the chimpanzees conveyed the SIV infection, which was moved into HIV when people took chimpanzee meat, while others came into contact with debased blood. The soonest revelation of a contaminated individual happened in DRC when a man in Kinshasa had blood with HIV-1 infection (CDC, 2016). HIV is said to have spread from that point to different parts on the planet after some time.

**The game plan to contain HIV/AIDS**

Various associations targeting decreasing the spread of HIV have been built up. The World Wellbeing Association (WHO) has joined forces with multiple associations, for example, PLHIV nearby research foundations and other specialized specialists. The U.N. has likewise collaborated with UNAIDS. These associations assume a crucial job in upgrading research on treatment and counteraction of Helps. The organizations also move in the direction of making mindfulness among individuals undoubtedly. The organizations additionally assume a crucial job in offering inspirational help to the people contaminated with HIV/AIDS. This empowers them to welcome themselves and keep taking the ARVs in order to build their resistance. The constant utilization of these medications assumes a vital job in containing the sickness.

**Substance and Drug Abuse**

**Impacts of HIV/AIDS on Communities and Strategic Treatment Plans**

There has been proceeded with increment in tranquilize use and maltreatment among the young people, which has prompted many adverse effects in the network. For example, medication and substance misuse has prompted expanded high school pregnancy. Research shows that the commitment of youngsters in acts of medication misuse leads them to involvement in illicit sexual exercises. This has come about to expanded undesirable pregnancies among young people.

The issue of medication misuse has additionally prompted expanded social violations, for example, burglary and prostitution. This is mostly contributed by the chronic drug use that requests nonstop utilization of cash to buy the medications. Because of insufficient cash to purchase the medicines, numerous young people take part in robbery practices and prostitution as a method for winning more money for the medications. This has subsequently prompted elevated levels of wrongdoings and uncertainty in the network.

**The most effective Approaches to Identify Substance abuse**

The commonness of expanded medication maltreatment on the planet is distinguished from examining the peculiarities of individuals in the general public. As per recently completed research, individuals will, in general, change their quirks because of guilty pleasure in medications and substance misuse (Raghupathi & Raghupathi, 2018). Moreover, a network portrayed with increment in the number of inhabitants in people with mental issues might be another sign of expanded medication misuse. Subsequently, any negative cultural changes could recognize expanded maltreatment of medications.

**Strategy to contain Drug and Substance Abuse**

Various measures have been taken to check expanded medication use among adolescents. Among them is doing mindfulness battles across various networks. This assumes a key job in conveying the adverse effects of taking part in medications and substance misuse. Young people will, in this manner, not take part in these practices as they recognize that the damage they put themselves into when they misuse drugs (Raghupathi & Raghupathi, 2018). Recovery focuses have additionally been set up in various districts with the point of helping the people participating in these indecencies. Through recovery, the medication clients and abusers are contained in a locale where they can't get to medications, and they are likewise treated to lessen fixation levels. Also, they are prepared in the best way to stop the propensities to be better individuals in the general public. Subsequently, the populace influenced by severe maltreatment is diminished.

References

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