AIDS

Khade Anil dashrath

HSBPVT'S PARIKRAMA DIPLOMA IN PHARMACEUTICAL SCIENCES, KASHT**I.**

Abstract -

HIV/AIDS has always been one of the most thoroughly global of diseases. The human immunodeficiency virus (HIV) is a lent virus that causes HIV infection and AIDS. AIDS is a condition in humans in which progressive failure of the immune system allows life-threatening infections and cancers to thrive. Infection with HIV occurs by the transfer of blood, semen, vaginal fluid, breast milk. Within these bodily fluids, HIV is present as both free virus particles and virus within infected immune cells. HIV infects vital cells in the human immune system such as helper CD4 T cells, macrophages. HIV infection leads to low levels of T cells through a number of mechanisms, including pyroptosis of infected T cells. The symptoms of AIDS are primarily the result of conditions that do not normally develop in individuals with healthy immune systems. Most of these conditions are opportunistic infections caused by bacteria, viruses, fungi and parasites that are normally controlled by the elements of the immune system that HIV damages. When condoms are used consistently by a couple in which one person is infected, the rate of HIV infection is less than 1% per year. There is some evidence to suggest that female condoms may provide an equivalent level of protection.

Keywords -

AIDS, Transmission, Symptoms.

BIO-

Name- khade Anil dashrath

Profession- Diploma in Pharmacy

Introduction-

Chieally infection can appear in various forms. In general doction would look for bodily signs that are associated with the disease This is not defective because, statistics shows different presentations of HIV ustection [1] There link hetween nutrition, a age and locomotors disorders in HIV infected persons, particulady whis ace above 45 year with body mass indes 225 kg/m², are suggested to limit physical activities. Those people are less likely to have locomotors disorders Alrican societies face social and medical challenge in aged people listag with HIV inlinction as they are dependent (2) HIV infected individual could now enjoy a near normal life

expectancy due In the many advances in the field of HIV medicine [3]Numeros Mudies on the biology, pathophysiology or therapy of HTVsociated malignancies are single-couter experiences with fewrandomized controlled trials. Hence, madti institutional collaboration is nuandatory. AIDS Malignancy Consortium (AMC) is a clinical trials group supported by the National Cancer Institute, specifically focused en performing dioical and laboratory studies in HIV/AIDS patients with cancer [4] Concera su HIV tufested patients extrnd beyond medical and psychiatric complications. Many caregivers develop symptoms of depression and anticty leading them to burnout and also there was high level of depression in HIV patients. Hence every HIV patients attending the drone should aho be msessed thoroughly for depression [5] When there is no effective HIV vaccams, behavior change is the key to prevention effunts [6]. Social Health Insurance sonsultancy program delivered by nurse's support sease HIV patients willingness to obtain it [?]

Significance of molecular changes during infection

In spite of the progress made in the implementation of polymeras shain reaction in Togo, access to Early Infant Diagnosis (EID) HIV remaim to be viewed Implementation and accessibility seens be difficult, role of government sector and proper administrative and technical procedurs I help in cauty diagnosis infants.

Impact of gender and social behaviour

There differences in epidemiological and dusical characteristics antong Mexican women that could have had an impad on their virological and immunological nespomes. Improving women's adherence treatment Mexico would need diminating obstacles to the national health care system and widespread health can ealth care services and implementing programs that take into account women's role as maternal caregivers. The author highlights the need to integrate social dements of health associated with gender inequality and social analysing treatmurs tresponse (601position when Even though significant progress has been made in recent times, to fight against HIV/AIDS, several key affected populatines continue to struggle with high rates of HIV infection and lack of knowledge un HIV prevention and treatment programs Transgender women are one such grump, affected with high rates of HIV infection and extreme discrimination and violence. There is a crucial need and evaluate noved interventions that improve tailored for this helpless population. Structural intervention should be made in law and pobey [61] Large member of HIV postive men and women wished to have children and

reproductive chaton of HIV patients are not only affected by their HIV status but he subject to different predictor factors [62].

Recent studies on HIV infection

A research initiative by amfAR's Countdown to a Care for AIDS has targeted to develop the sentific basis for a sure by 2020. Which was been launched in February 2014, the Countdosen is planned to intensify andAR's sue-focused HIV research program through strategic investments of \$100 million over the nest five years. Few recent research findings are mentioned in this review. When compared to NK cells neutrophils are six times better to lull HIV infected cells when antibodies were present. Neutrophil-mediated effector responses could be investigated in future HIV vaccinetnals [71] Tonsmission of HIV by dendemic ells might have essential implication for viral persistence in wiw in evinuaments where residual replication could persist in the face of antiretroviral therapy (72) Trestament with immune check point inhibitors might have dual benefits in HIV infection in acting on the cancers frequently associated and also by helping to purge the HIV reservoirs that indetimiely persist despite antcextrovseal therapy [73] The role of ruoštinih in decreasing inflammation associated with HIV infection in being evaluated in a National Institutes of Health tunded discal trial Inflammation is alleged to contribute to the persistent HIV riservais, the primary hartier in a cure [74]

Role of immune cells in diagnosis and treatment

Even though there are imports that reveal CD and CD8+ T-cella were generated from progenitor cells with the help of CIP9-IULL. It was been demonstrated for the t fint time e t that OP-DLI cells are capable to support the noponse and fiuntion of a diverse population of mature human thymnocytes and also provide the required siguals for in whu Infection with HIV. It was being dearly stated that co culture of human thynocytes with OP9-DLI offs nestalt in greater 11-7 response when compared to co-cultures with thymic epithelial cells. This reveals that they are an appropriate candidate for exogenous stimuli on thymmacyte function [37] Anti-nitrovical therapy administration would be substantial in management of HIV. Specific biomakers need to be identified fue sustained suppression and development of drug resistance Improvement of tof general health may help to decrease HIV transmis rates, CD 38 quantification act as an alternative souror and cost effective, test that could serve as additional toed in management of HIV infected patients [38] Multiple HIV protetns enhance CXCL10 production along with other inflammatory

Complications in infants

Health professionals are responsible for diagnosis of disorden. associated with HIV infection and fallone-up of HIV-infected pediatinc patients, it is critical to achiere rarly detection and subsequently being capable of improving the quality of life of both patients and their families (51) Oxaurrence of HIV in children is high in the Eastern Inidia, masimum was observed as maternal to child transmission [52]) HIV positive children should have a monotonous neuropsychological assessment at intervals as part of their standard care to detect children. with cognitive impairment on time [53]

The Wodd Health Organization has franesl indusive methods to prevent HIV infectioninintants and young children HIV transnasion tis infants and young children could be prevented by aviading indection. in women, prevention at unplanned pregnancies among HIV infected women, pronding care and support. Specific mediation to reduce mother to infant HIV transmision which inchide antiretroviral drug use, saler delivery practices and intant-feeding counselling and support [54]. To focus on paediatric HIV infection,

Conclusion

HIV vaccine exploration over the last two decades has been a tale of early courage, worldwide convenation now is more concerned with how to progress scientific research to develop at least partially defensive vaccine becomes a possibility. On the other hand, Education team to be utmost in effect to decrease tramunexsirin of infection. There is need hurtrannwork between the gap in respect to hers tis badge Ride of government sector and proper adnenistrative and technical procedures are much. more important in this aspect. Collaborative research on discases. unsociated with HIV infection, ne of inmaune cells in diagnosis and treatment, sigitficance of molecular changes during infection, complications in infants, impact of gender of gender and soccal behaviour and diagnosis of disorders associated with HIV infection night help in

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HIV virus infecting a T CD4 cell







