

REVIEW

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The epidemic of HIV/AIDS in developing countries; the current scenario in Pakistan

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Abstract

HIV (Human Immunodeficiency virus) causes (acquired immunodeficiency syndrome) AIDS, in which the immune system of body totally fails to develop any defense against the foreign invaders. Infection with HIV occurs by transfer of blood, semen, and breast milk. HIV/AIDS is a global problem and it results nearly 25 million deaths worldwide. Developing countries like Pakistan have issues regarding Public Health. Currently, epidemic of HIV/AIDS is established in Pakistan and there is a threat of an expanded HIV/AIDS outbreak in the country. The major reason is that population is engaging in high-risk practices, low awareness about HIV/AIDS, and treacherous blood transfusion practices. A supplementary threat to Pakistan is India because both sharing a border and India is facing a rapidly growing HIV/AIDS epidemic. Local NGOs, National and International organizations are warning that in near future Pakistan may experience bad situation regarding HIV/AIDS. In the present article we focused current situation of surveillance of HIV/AIDS, its virology, genotype, diagnostics, high-risk groups, reasons of vulnerability in Pakistani population, and the role of different national and international organizations in this situation.

Background

HIV belongs to *Lentivirinae*, which are also known as "slow virus". The name indicates their mode of action as they enter into body and remain in it for longer period of time. They have unique property of being inserting the information into the DNA of host cell and also have the ability to replicate in non-dividing cells. Due to these characteristics they are considered to be the most efficient gene delivery vector [1]. HIV infects defense/immune system cells such as CD4+ T cells, macrophages and dendritic cells [2]. The CD4+ cells play a crucial role in the maintenance of immune system. After infection, HIV uses CD4+ cells as host to make copies and infect other cells. This leads to the reduction of CD4+ cells in body and immune system totally collapse [3]. The development from HIV to AIDS is checked by the rapid decline of CD4+ cells [3].

Types of HIV

Two types of HIV have been characterized; HIV-1 and HIV-2. HIV-1 is the most virulent and pathogenic strain.

Worldwide, the predominant virus is HIV-1, and generally when people refer to HIV without specifying the type of virus they will be referring to HIV-1. The relatively uncommon HIV-2 type is concentrated in West Africa and is rarely found elsewhere. The reason behind is that HIV-2 weakens the immune system slowly than HIV-1 [4]. The HIV-1 is further divided into 4-groups; a) major group M, b) Outlier group O, c) Group N, d) Group P. These groups have been identified in their envelope region. Group M is further divided into A, B, C, D, F, G, H, J and K. In Asian countries B and C are the predominant clades of HIV-1. But in Pakistan HIV-1 is dominant in Pakistan as compared to other clades, this was found more in IDUs in Karachi [5]. HIV-2 has also 8 clades from A to H, out of these clades only A and B are epidemic [6].

HIV Virology and Life Cycle

The identification of HIV led to concentrated activity in the field of molecular virology. HIV is different in structure from other retroviruses. This is roughly spherical with a diameter of about 120 nm [7,8]. It contains three (3) structural and six (6) genes which encode the at least fifteen (15) viral proteins and control the ability of HIV to infect the cell [9]. HIV is composed of two copies of

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Aids In Developing Countries

Teresa Guthrie, Alison Hickey



Aids In Developing Countries:

The Political Economy of HIV/AIDS in Developing Countries Benjamin Coriat, 2008-01-01 The issue of universal and free access to treatment is now a fundamental goal of the international community Based on original data and field studies from Brazil Thailand India and Sub Saharan Africa under the aegis of ANRS the French national agency for research on Aids and viral hepatitis this timely and significant book both assesses the progress made in achieving this objective and presents a rigorous diagnosis of the obstacles that remain Placing particular emphasis on the constraints imposed by TRIPS as well as the poor state of most public health systems in Southern countries the contributing authors provide a comprehensive analysis of the huge barriers that have yet to be overcome in order to attain free access to care and offer innovative suggestions of how they might be confronted In doing this the book renews our understanding of the political economy of HIV AIDS in these vast regions where the disease continues to spread with devastating social and economic consequences This volume will be a valuable addition to the current literature on HIV AIDS in developing countries and will find widespread appeal amongst students and academics studying economics sociology and public health It will also be of interest to international organizations and professional associations involved in the fight against pandemics

AIDS in Developing Countries Noël Merino, 2010 Presents essays offering various viewpoints on the crisis of AIDS in developing countries providing critical information to form an educated opinion

AIDS in Developing Countries Maureen A. Lewis, 1989

Combating HIV-AIDS in Developing Countries, 1992-06 Reports on the U S Agency for International Development AID and its lack of an agencywide strategy for marshaling resources to combat the AIDS epidemic in developing countries through the foreign assistance it makes available

Preventing HIV in Developing Countries Laura Gibney, Ralph J. DiClemente, Sten H. Vermund, 2006-04-11 Globally action to prevent HIV spread is inadequate Over 16 000 new infections occur every day Yet we are not helpless in the face of disaster as shown by the rich prevention experience analyzed in this valuable new compendium Best practice exists a set of tried and tested ways of slowing the spread of HIV of persuading and enabling people to protect themselves and others from the virus Individually features of best practice can be found almost everywhere The tragedy on a world scale is that prevention is spotty not comprehensive the measures are not being applied on anywhere near the scale needed or with the right focus or synergy The national response may concentrate solely on sex workers for example Elsewhere efforts may go into school education for the young but ignore the risks and vulnerability of men who have sex with men Action may be patchy geographically AIDS prevention may not benefit from adequate commitment from all parts and sectors of society compromising the sustainability of the response In some countries matters are still worse there is still hardly any action at all against AIDS and scarcely any effort to make HIV visible It is no wonder that the epidemic is still emerging and in some places is altogether out of control

Confronting AIDS in the Developing Countries United States. Agency for International Development, 1992

Confronting AIDS in the Developing World United States. Agency

for International Development,1992 Economics of AIDS and Access to HIV-AIDS Care in Developing Countries Jean-Paul Moatti,2003 This book collects studies performed mainly with the support of the Agence Nationale de Recherche contre le Sida French French National Agency of Research against AIDS The purpose is to analyse the conditions to improve access to drugs against AIDS in developing countries to urge on international agencies determinedly support patients treatment The first part deals with the market of antiretrovirals and patents How the prices drop taked place in 1998 2002 what were the debates about Intellectual Property Rights and WTO what happened in countries as Brazil and Thailand The second part deals with the impact of AIDS epidemic in the developing world and the role of therapeutic strategies to lower this impact The book backs up the argument that the impact has been underestimated and theses strategies are feasible **Disease Control Priorities in Developing Countries** Dean T. Jamison,Joel G. Breman,Anthony R. Measham,George Alleyne,Mariam Claeson,David B. Evans,Prabhat Jha,Anne Mills,Philip Musgrove,2006-04-02 Based on careful analysis of burden of disease and the costs of interventions this second edition of Disease Control Priorities in Developing Countries 2nd edition highlights achievable priorities measures progress toward providing efficient equitable care promotes cost effective interventions to targeted populations and encourages integrated efforts to optimize health Nearly 500 experts scientists epidemiologists health economists academicians and public health practitioners from around the world contributed to the data sources and methodologies and identified challenges and priorities resulting in this integrated comprehensive reference volume on the state of health in developing countries **HIV, Resurgent Infections and Population Change in Africa** Michel Caraël,Judith Glynn,2007-10-06 Forty years ago the age old battle against infectious diseases as a major threat to human health was believed close to being won However by the late twentieth century the increase of emerging and reemerging infectious diseases was evident in both low and high income countries About 30 new infectious diseases have been identified in the last 20 years Among the new diseases and most importantly the Human Immunodeficiency Virus HIV epidemic with 40 million persons infected and 25 million deaths since its first description presents one of the most significant health societal and security challenges facing the global community The interaction of HIV AIDS with tuberculosis malaria and bacterial infections have increased HIV related morbidity and mortality and in turn the HIV pandemic has brought about devastating increases in tuberculosis Understanding the population impact and the dynamics of infection diseases in the most affected region is critical to efforts to reduce the morbidity and mortality of such infections and for decisions on where to use limited resources in the fight against infections This book aims to contribute to these efforts by offering a demographic and epidemiological perspective on emerging and reemerging infections in sub Saharan Africa **Preventing HIV in Developing Countries** Laura Gibney,Ralph J. DiClemente,Sten H. Vermund,1999-01-31 Until now planners seeking to create HIV prevention programs in developing countries relied on published interventions successfully implemented in the industrialized world This volume brings together HIV researchers and activists who describe intervention strategies

employed primarily in developing countries With the battle to control HIV continuing the contributors provide insights from the field as they summarize implementation problems successes and failures End of chapter summaries and references are key features HIV program planners medical and social workers researchers and activists will benefit from Preventing HIV in Developing Countries

Post-Trial Access to Drugs in Developing Nations Evaristus Chiedu Obi, 2017-07-26 This book begins the discourse on post trial access to drugs in developing countries Underlying ethical issues in global health inequalities and global health research serve as the context of the debate Due to rampant allegations of violations of rights of research participants especially in developing countries it discusses the regulatory infrastructure and ethical oversight of international clinical research thus emphasizing the priority of safeguarding the rights of research participants and host populations as desiderata in conducting clinical trials in developing countries This is the first book that analyzes the major obstacles of affordable access to drugs in developing countries patent and non patent factors and how they can be overcome through a middle ground approach and a new paradigm to establish global health justice which includes national and global health responsibilities The book also deals extensively with all complex aspects of the discourse on affordable access to drugs in developing countries including intellectual property law international regulations political and cultural systems international trade agreements Furthermore it contains a robust ethical debate and in depth analysis The book crafts a paradigm of global health justice involving a sliding scale of national and global responsibilities for the realization of the right to health in general and access to drugs in particular

Encyclopedia of the Developing World Thomas M. Leonard, 2013-10-18 A RUSA 2007 Outstanding Reference Title The Encyclopedia of the Developing World is a comprehensive work on the historical and current status of developing countries Containing more than 750 entries the Encyclopedia encompasses primarily the years since 1945 and defines development broadly addressing not only economics but also civil society and social progress Entries cover the most important theories and measurements of development relate historical events movements and concepts to development both internationally and regionally where applicable examine the contributions of the most important persons and organizations and detail the progress made within geographic regions and by individual countries

Trends and Patterns of HIV/AIDS Infection in Selected Developing Countries, 1994
Foreign Assistance United States. General Accounting Office, 1992

Patent and Trade Disparities in Developing Countries Srividhya Ragavan, 2012-09-06 Similarly almost all of these regimes provide generalized solutions that developing countries tend to denounce as ill fitting

Confronting AIDS World Bank, 1999 This revised and updated edition of the pathbreaking report on the global AIDS epidemic outlines the strategic role that government must play in slowing the spread of HIV and mitigating the impact of AIDS Drawing on the knowledge accumulated in the 17 years since the virus that causes AIDS was first identified the report highlights policies that are most likely to be effective in managing the epidemic These include early actions to minimize the spread of the virus aiming preventive interventions at high risk groups and evaluating

measures that would assist households affected by AIDS according to the same standards applied to other health issues This revised edition will a valuable resource for public health policymakers researchers and anyone with an interest in this devastating global health crisis Communicable Diseases in Developing Countries John Malcolm Dowling,Chin Fang Yap,2014-10-05 This books provides an essential study of communicable diseases by integrating the diagnosis treatment and cure of communicable diseases in developing countries with the practical aspects of delivery of these services to the public

AIDS in Third World Countries ,2003 a bibliography of books journal articles documents and articles in books about AIDS in Third World countries Includes material on Africa Asia Latin America and the Middle East **Funding the Fight** Teresa Guthrie,Alison Hickey,2004 This report on the funding by nine African and Latin American countries on HIV AIDS has found that countries must do more to ensure a comprehensive response to the epidemic incorporating prevention treatment care and support The study undertaken by NGO research institutes was jointly coordinated by Idasa in South Africa and Fundar in Mexico

Unveiling the Magic of Words: A Overview of "**Aids In Developing Countries**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Aids In Developing Countries**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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