



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 experiences 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 enters 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 has 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 weaken 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 in to 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 compare 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 the 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 encodes 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

Toby Milner



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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 *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* **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 **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

Foreign Assistance United States. General Accounting Office,1992

SOCIAL AND ECONOMIC DEVELOPMENT - Volume V Salustiano del Campo ,Tomoko Hamada ,Giancarlo Barbiroli,Saskia Sassen, Eleonora Barbieri-Masini, Paul Nchoji Nkwi, Owen Sichone, Abubakar Momoh,2010-11-15 Social and Economic Development is a component of Encyclopedia of Development and Economic Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Social and Economic Development provides the essential aspects and a myriad of issues of great relevance to our world such as Socioeconomic Developmental Social Work Perspectives on Contemporary Socioeconomic Development Sustainable Development of Natural Resource Capital Sustainable Development Of Human Resource Capital Intellectual And Knowledge Capital For Sustainable Development At Local National Regional And Global Levels Economic And Financial System Development Information And Knowledge Institutional And Infrastructure System Development Information And Knowledge Basic Principles Of Sustainable Development Environmental Economics And Sustainable Development Implementing Sustainable Development In A Changing World Economic Sociology Its History And Development The Socioeconomics Of Agriculture Agricultural And Rural Geography Impact Of Global Change On Agriculture Human Nutrition An Overview The Role Of Inter And Nongovernmental Organizations Nongovernmental Organizations Social And Cultural Development Of Human Resources This 8 volume set contains several chapters each of size 5000 30000 words with perspectives issues on social and Economic Development These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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

ECONOMICS INTERACTIONS WITH OTHER DISCIPLINES - Volume I John M. Gowdy,2009-10-14 Economics Interactions with Other Disciplines is the component of Encyclopedia of Development and Economic Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Economics Interactions with Other Disciplines reflects the new interdisciplinary approach of economists focusing on the issues of health and the environment The chapters range from standard applications of economic theory to more radical approaches These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

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 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 **UN Millennium Development Library: Combating AIDS in the Developing**

World UN Millennium Project,2012-04-27 The Millennium Development Goals adopted at the UN Millennium Summit in 2000 are the world s targets for dramatically reducing extreme poverty in its many dimensions by 2015 income poverty hunger disease exclusion lack of infrastructure and shelter while promoting gender equality education health and environmental sustainability These bold goals can be met in all parts of the world if nations follow through on their commitments to work together to meet them Achieving the Millennium Development Goals offers the prospect of a more secure just and prosperous world for all The UN Millennium Project was commissioned by United Nations Secretary General Kofi Annan to develop a practical plan of action to meet the Millennium Development Goals As an independent advisory body directed by Professor Jeffrey D Sachs the UN Millennium Project submitted its recommendations to the UN Secretary General in January 2005 The core of the UN Millennium Project s work has been carried out by 10 thematic Task Forces comprising more than 250 experts from around the world including scientists development practitioners parliamentarians policymakers and representatives from civil society UN agencies the World Bank the IMF and the private sector This report lays out the recommendations of the UN Millennium Project Task Force 5 Working Group on HIV AIDS The Working Group urges the intensification and revitalization of prevention efforts a stronger focus on vulnerable populations and the expansion of antiretroviral therapy to reach 75% of those in need by 2015 Simultaneous expansion of prevention and treatment accompanied by sustained investment in health systems will enable countries to reverse the spread of HIV by 2015

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

The Directory of Work & Study in Developing Countries Toby Milner,1997 This introduction to living abroad should enlighten all those heading off to work overseas whether they are teachers professionals volunteers or diplomats

Foreign Assistance U S Government Accountability Office (G,U. S. Government Accountability Office ,(2013-07 Pursuant to a congressional request GAO reviewed the Agency for International Development s AID response in developing countries to the human immunodeficiency virus HIV the virus that causes acquired immune deficiency syndrome AIDS to assess 1 the priority AID places on AIDS prevention 2 the AID implementation strategy 3 whether AID has evaluated the disease s impact on its other development programs and 4 the management implementation and oversight of the AIDS Technical Support Project GAO found that 1 in 1987 AID issued AIDS policy guidance that stated that missions should not mount large AIDS specific programs because the disease is a sensitive subject and funds and staff are needed for other priorities 2 the AID policy has evolved substantially since 1987 but AID has not formulated an agencywide strategy which links its policy with bureau and mission operations 3 AID has not considered the impact of AIDS on its economic development programs and 4 AID has not developed an agencywide strategy for carrying out AIDS prevention policies or emphasized AIDS issues in programming and budgeting decisions

Trends and Patterns of HIV/AIDS Infection in Selected Developing Countries ,1994 **Index Medicus** ,2001 *Disease Control Priorities in Developing Countries* Dean T. Jamison,World Bank,1993 These two volumes examine ways in which the health transition in developing countries affects the World Bank s disease control policies They discuss the public health consequences of individual diseases and disease clusters measure the cost effectiveness of disease control methods and assess what public health problems these conditions pose Infectious diseases HIV infection and sexually transmitted diseases malnutrition and reproductive health in the developing world are analyzed and tables and figures throughout the text quickly summarize the authors findings

Throwing Foreign Aid at HIV/Aids in Developing Countries Peter Nunnenkamp,Hannes Öhler,2012 We assess empirically whether foreign official development assistance ODA has been effective in alleviating HIV AIDS epidemics which figures prominently among the Millennium Development Goals We employ a difference in difference in differences approach to identify the treatment effect of ODA specifically meant to fight sexually transmitted diseases on HIV AIDS related outcome variables We do not find that ODA has prevented new infections to an extent that would have reduced the number of people living with HIV By contrast ODA has contributed effectively to the medical care of infected people However

conclusive evidence on significant treatment effects on AIDS related deaths only exists for the major bilateral source of ODA the United States In particular targeted US assistance programs appear to be more effective than the activities of multilateral organizations Global Lessons from the AIDS Pandemic Bradley J. Condon, Tapen Sinha, 2008-07-22 We began to research for this book in 2000 with the idea that we might contribute to the search for solutions to the global HIV AIDS pandemic by combining perspectives from different disciplines Much has happened in the intervening years First the severity of the HIV AIDS pandemic in sub Saharan Africa and the threat it posed for many other regions of the world led to a movement among several countries to correct the imbalance between producers and users of pharmaceutical products This effort produced a clarification of the right of governments to produce generic medicine under compulsory licenses and an amendment of the World Trade Organization's TRIPS Agreement to allow exports of generic medicines from one WTO Member to another In 2007 the amended rules were put into practice with Canada authorizing the export of generic antiretroviral drugs to Rwanda However at the same time global patent laws have been undermined due to regulatory capture most notably in free trade agreements and through political pressure on countries like Thailand to not to exercise their right to issue compulsory licenses for pharmaceutical products Second the amount of money available for the treatment and prevention of HIV AIDS has increased dramatically with the establishment of the World Bank Multi Country HIV AIDS Program for Africa MAP the Global Fund to Fight AIDS Tuberculosis and Malaria and the US President's Emergency Plan for AIDS Relief PEPFAR among other funding initiatives

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Table of Contents Aids In Developing Countries

1. Understanding the eBook Aids In Developing Countries
 - The Rise of Digital Reading Aids In Developing Countries
 - Advantages of eBooks Over Traditional Books
2. Identifying Aids In Developing Countries
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aids In Developing Countries
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aids In Developing Countries
 - Personalized Recommendations
 - Aids In Developing Countries User Reviews and Ratings
 - Aids In Developing Countries and Bestseller Lists
5. Accessing Aids In Developing Countries Free and Paid eBooks
 - Aids In Developing Countries Public Domain eBooks
 - Aids In Developing Countries eBook Subscription Services

- Aids In Developing Countries Budget-Friendly Options
- 6. Navigating Aids In Developing Countries eBook Formats
 - ePub, PDF, MOBI, and More
 - Aids In Developing Countries Compatibility with Devices
 - Aids In Developing Countries Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aids In Developing Countries
 - Highlighting and Note-Taking Aids In Developing Countries
 - Interactive Elements Aids In Developing Countries
- 8. Staying Engaged with Aids In Developing Countries
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aids In Developing Countries
- 9. Balancing eBooks and Physical Books Aids In Developing Countries
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aids In Developing Countries
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aids In Developing Countries
 - Setting Reading Goals Aids In Developing Countries
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aids In Developing Countries
 - Fact-Checking eBook Content of Aids In Developing Countries
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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