AIDS and Associated Cancers in Africa

2nd International Symposium, Naples, October 7-9, 1987

AIDS and Associated Cancers in Africa

Editors
G. Giraldo, E. Beth-Giraldo, Naples; Clumeck, Brussels;
Md-R. Gharbi, Tunis; S.K. Kyalwazi, Kampala; G. de Thé, Lyon

48 figures, 1 color plate, 86 tables, 1988

Basel · München · Paris · London · New York · New Delhi · Singapore · Tokyo · Sydney

Library of Congress Cataloging-in-Publication Data
AIDS and associated cancers in Africa.

Based on the Second International Symposium on AIDS and Associated Cancers in Africa.
Symposium sponsored by the World Health Organization and others.
Includes bibliographies and index.


ISBN 3-8055-4701-3

Drug Dosage
The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new
and/or infrequently employed drug.

All rights reserved.
No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher.

© Copyright 1988 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)
Printed in Switzerland by Friedrich Reinhardt AG, Basel
ISBN 3-8055-4701-3

Contents

Preface IX

Giraldo, G. (Naples): Introduction 1

Overviews

Allen, J. R. (Atlanta, Ga.): Epidemiology and Natural History of Human Immunodeficiency Virus Infection and AIDS in the United States 11
Kapita, B.M. (Kinshasa): AIDS in Africa. Epidemiological Data and Prevention Program . . 21

Epidemiology of HIV Infection in Different Parts of Africa

Okware, S.I. (Entebbe): Epidemic of AIDS in Uganda 25
Ndikuyeze, A.; Bugingo, G. (Butare); Ntirivamunda, A. (Kigali): Adult and Pediatric AIDS and AIDS-Related Syndromes in Rwanda 30
N’Galy, B. (Kinshasa/Gombe): Epidemiology of HIV Infection in Zaire 37
Yala, F.; Biendo, M.; Samba, M.C.; Mpele, P.; Carme, . (Brazzaville): Seroepidemiological Considerations on the Detection of Anti-HIV-1 Antibodies in Hospitalized Patients and Blood Donors from Different Medical Centers in Brazzaville 41
Mhalu, F.S.; Dahoma, ..; Mbena, E.; Maselle, S. (Dares Salaam); Bredberg-Rådén, U.; Biberfeld, G. (Stockholm): Some Aspects on the Epidemiology of AIDS and Infections with the Human Immunodeficiency Virus in the United Republic of Tanzania 50
Nkya, W.M.M.M.; Howlett, W.P.; Assenga, C; Nyombi, B. (Moshi): Seroepidemiology of HIV-1 Infection in the Kilimanjaro Region 61
Kaptue-Noche, L.; Zekeng, L.; Monny-Lobe, M.; Ossonond-Nlom, M.; Mbakop, ..
Lando, M.; Durand, J. P.; Garrigue, G. (Yaounde): HIV Antibodies Screening in At-Risk Groups in Yaounde (Cameroon) 66

Contents VI

Williams, C.K.O. (Ibadan); Saxinger, C. (Bethesda, Md.); Alabi, G.O.; Junaid, T.A. (Ibadan); Levin, A. (Bethesda, Md.); Alexander, S.; Bodner, A. (Rockville, Md.); Gallo, R.C.; Blattner, W.A. (Bethesda, Md.): Clinical Correlates of Retroviral Serology in Nigerians 71

Neequaye, A.R.; Mingle, J.; Ankra-Badu, G. (Accra); Ishikawa, K. (Tokyo); Osei, L. (Accra); Hayami, M. (Tokyo); Nettey, V. (Koforidua); Kwasi, M.O.; Bentsi, C.; Asamoah-Adu, J.; Neequaye, J.E. (Accra): Human Immune Deficiency Virus Infections in Ghana 85

Ouattara, S.A.; Rioche, M.; Aron, Y.; Akran, V. (Abidjan); Stenger, F.; de-Thé, G. (Lyon): Comparative Epidemiology of Infection by HIV-1 and HIV-2 in the Ivory Coast. Preliminary Results 94

M'Boup, S. (Dakar): Human Immunodeficiency Viruses in West African Regions 100

Gharbi, Md-R. (Tunis); Beth-Giraldo, E. (Naples); Boujnah, ; Gherib, B.; Sidhom, M. (Tunis); Monaco, M. (Naples); Fekih, Z.; Slim, A. (Tunis); Martucci, F.; Buonaguro, F.M.; Giraldo, G. (Naples): Epidemiology of AIDS in Tunisia. 106

Natural History and Clinical Manifestations of HIV Infections and Kaposi's Sarcoma


Owili, D.M. (Nairobi): Prospective Study of Clinical Manifestations and Opportunistic Infections in Patients with AIDS at Kenyatta National Hospital, Nairobi, Kenya 138


Gody, M. (Dabou); Ouattara, S.A. (Abidjan); Seynhaeve, V.; Bachsenschmidt, I.; Schuermer, L. (Dabou); Schmidt, D.; Tolstuchow, N.; Konan, K.; Aka-Dangui, E. (Abidjan); Brun-Vezinet, F. (Paris); de Thé, G. (Lyon): Clinical Manifestations of Infections by HIV-1 and HIV-2 in the Ivory Coast 146
Bayley, A.C. (Lusaka): Atypical African Kaposi's Sarcoma 152
Buonaguro, F.M. (Naples); Galloway, D. A. (Seattle, Wash.); Beth-Giraldo, E.; Giraldo, G. (Naples); McDougall, J.K. (Seattle, Wash.): Kaposi's Sarcoma-Associated Transforming Sequences
165
Barbanti-Brodano, G.; Pagnani, M.; Balboni, P.G.; Rotola, .; Cassai, E. (Ferrara);
Beth-Giraldo, E.; Giraldo, G. (Naples); Corallini, A. (Ferrara): Studies on the Association of Kaposi's Sarcoma with Ubiquitous Viruses 175

Contents VII

Virology and Oncology
Gurgo, C. (Naples); Colombini, S.; Reitz, M.S.; Franchini, G.; Collalti, E.; Guo, H.-G.; Wong-Staal, F.; Gallo, R.C. (Bethesda, Md.): Role of the Human Retroviruses HTLV-I, HTLV-II and HIV in Leukemia and AIDS. Comparative Analyses of Human and Simian Immunodeficiency Retroviruses 182
Kanki, P. (Boston, Mass.); M'Boup, S. (Dakar); Barin, F. (Tours); Denis, F. (Limoges); Marlink, R.; Romet-Lemonne, J.-L.; Essex, M. (Boston, Mass.): The Biology of HIV-1 and HIV-2 in Africa 230
Spire, B. (Paris); Zachar, V. (Bratislava); Gobet, M.; Rey, F.; Barré, F.; Galibert, F.; Chermann, J.-C; Hampe, . (Paris): Molecular Characterization of a Highly Cytopathic Strain of the Human Immunodeficiency Virus Type 1 246
McDougall, J.K.; Rostad, S.W.; Shaw, C.-M.; Olson, K.; Alvord, E.C., Jr. (Seattle, Wash.); Buonaguro, F.M. (Naples): HIV and Herpesviruses in Immunodeficiency and Cancers (with Color Plate I) 260
Barin, F.; Dubois, F. (Tours); Denis, F.; Leonard, G.; Mounier, M. (Limoges);
Sangaré, .; Gershy-Damet, G.-M. (Abidjan); Petat, E. (Tours); Kocheleff, P.; Kadende, P. (Bujumbura); Goudeau, A. (Tours): Coexposure to HIV and Hepatitis Viruses. Prevalence in Africa and Influence of HIV Infection on the Markers of Active Hepatitis Viruses Replication 272

Laboratory Diagnosis of HIV Infection in Africa

Georges, A. J.; Lesbordes, J.L.; Martin, P.M.V.; Georges-Courbot, M.C. (Bangu): The Diagnosis of HIV Infection in Africa 278
Mwendapole, R.M.; Syabula, C. (Ndola); Schneider, J.; Guillot, F.; Hunsmann, G.
This volume is based on the Second International Symposium on AIDS and Associated Cancers in Africa, which took place in Naples (Italy), October 7-9, 1987. About 600 scientists and public health workers from all parts of the world participated in the symposium. Great care in all planning as well as in the development of the scientific program had been applied by the organizers in order to achieve the main goal of the meeting, and we are pleased to report that more than 25% of the participants came from various African countries. The scientific program was developed in collaboration with various members of the International Scientific Committee as well as following the advice of Dr. J. Mann, Director of the 'Global Programmes on AIDS' of the 'World Health Organization'. In fact, the WHO co-sponsored this meeting. It was made possible through the generosity and assistance of the following Institutions, Ministries, Foundations and Industries, to whom go our thanks: World Health Organization; National Cancer Institute 'Fondazione Pascale' Naples;
The symposium was dedicated to two friends, the late Drs. F. Assaad and R. Cerra, who devoted a large part of their lives to others during their dedicated work for science and medical assistance. To them and their families goes our grateful remembrance. Lastly, we thank the authors for their contributions to this volume as well as the City Congress/Joint Service of Naples and all volunteers for their help in the organization of the conference.

Gaetano Giraldo
Nathan Clumeck
Guy de Thé
Mohamed-R. Gharbi
Sebastian K. Kyalwazi
Elke Beth-Giraldo