Recent Advances in AIDS and Kaposi's Sarcoma

Antibiotics and Chemotherapy

Vol. 38

Series Editor
H. Schnfeld, Grenzach

KARGER

2nd International Workshop on AIDS/Kaposi's Sarcoma, Sorrento, June 2, 1986

Recent Advances in AIDS and Kaposi's Sarcoma

Volume Editors
G. Giraldo, E. Beth-Giraldo, G. Castello,
M. Pergola, D. Zarrilli, Naples

25 figures and 50 tables, 1987

KARGER

Antibiotics and Chemotherapy

Library of Congress Cataloging-in-Publication Data
International Workshop on AIDS/Kaposi's Sarcoma
(1986: Sorrento, Italy)
Recent advances in AIDS and Kaposi's sarcoma.
(Antibiotics and chemotherapy; vol. 38)
Includes bibliographies and index.
1. AIDS (Disease)-Congresses. 2. Kaposi's sarcoma-Congresses.
RM260.A55 vol. 38 615'58 s 87-2992 [RC607.A26] [616.9'792]
ISBN 3-8055-4512-6
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 1987 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)
Printed in Switzerland by Effingerhof AG, Brugg
ISBN 3-8055-4512-6

Contents

Introduction ............................................................. VII

Gurgo, C. (Napoli); Robert-Guroff, M.; Gallo, R.e. (Bethesda, Md.): An Overview of the Human T-Lymphotropic Retroviruses and the Role of HTLV-III/LAV in AIDS .............................................................. 1
Kanki, P.J. (Boston, Mass.); Barin, F. (Tours); M'Boup, S. (Dakar); Essex, M. (Boston, Mass.): Relationship of Simian T-Lymphotropic Virus Type III to Human Retroviruses in Africa ..................................................... 21
Ancelle, R.A.; Brunet, J.B. (Paris): AIDS Surveillance in Europe ..................... 28
Haverkos, H. W. (Bethesda, Md.): Epidemiology of AIDS in Hemophiliacs and Blood
Transfusion Recipients .......................................................... 59
Beth-Giraldo, E.; Giraldo, G.; De Biasi, R.; Miraglia, E.; Castello, G.; Monaco, M.;
Human Immunodeficiency Virus Infection in Hemophilia Patients: A 4-Year
Prospective Study ............................................................... 66
with the HTLV-III/LAV Infection ........................................ 80
McDougall, J.K.; Olson, K.A.; Smith, P.P.; Collier, A.e. (Seattle, Wash.): Detection
of Cytomegalovirus and AIDS-Associated Retrovirus in Tissues of Patients with
AIDS, Kaposis Sarcoma and Persistent Lymphadenopathy .............. 99
Barbanti-Brodano, G.; Pagnani, M.; Viadana, P. (Ferrara); Beth-Giraldo, E.; Giraldo,
G. (Naples); Corallini, A. (Ferrara): BK Virus DNA in Kaposis Sarcoma ...... 113
Contu, L. (Cagliari); Cerimele, D. (Sassari); Del Giacco, G.S.; Pintus, A. (Cagliari):
Therapy of Kaposis Sarcoma ............................................. 121

Contents VI

Neuropsychological and Psychosocial Sequelae of AIDS. .................. 132
Sirianni, M.C.; Luzi, G.; Mezzaroma, 1.; Scano, G.; Ragona, G.; Soddu, S.; Ensoli, B.;
Aiuti, F. (Rome): A Critical Immunological and Serological Evaluation of Patients
with HTLV-III/LAV-Related Disorders.............................. 141
Prince, A. M.; Pascual, D.; Bardina-Kosolopov, L.; Kurokawa, D.; Baker, L.; Rubinstein,
P. (New York, N.Y.): Neutralizing Antibody to the AIDS Virus Prevalence,
Clinical Significance and Virus Strain Specificity ......................... 151
Faulkner-Valle, G.P.; De Rossi, A.; Dalla Gassa, O.; Francavilla, E.; Amadori, A.;
Detection and Significance of Virus-Neutralizing Antibodies .......... 159
Zanetti, A.R.; Zehender, G.; Tanzi, E.; Runni, M.G.; Mari, D.; Ferroni, P. (Milano)
and The Lombardy Study Group on AIDS of the Italian Society of Immunohematology:
Anti-LAVIHTLV-II1 Antibodies in High and Low Risk Groups .... 167
Moroni, M.; Pagano, A.; Lazzarin, A.; Privitera, G.; Parravicini, C.L. (Milano):
Opportunistic Infections in AIDS Patients in Milan ....................... 174
Varnier, O.E.; Pellizari, G.; Lillo, F.; Repeto, C.M.; Boeri, E.; Melioli, G.; Schito,
for the Diagnosis of HTLV-III Infection .................................. 180
Gottlieb, M.S. (Los Angeles, Calif.); Grupta, S. (Irvine, Calif.): Antiviral and Immunomodulator
Therapy of the Acquired Immune Deficiency Syndrome ............ 186

Subject Index ................................................................. 193

VII
This volume is based on the Second International Workshop entitled 'Acquired Immune Deficiency Syndrome (AIDS) and Kaposi’s sarcoma (KS)” held in Sorrento, Naples, June 1986, and sponsored in part by the Associazione Italiana per la Ricerca sul Cancro and the Cancer Research Institute, New York, N.Y.

AIDS frequently associated with Kaposi’s sarcoma was first reported only 5 years ago. It might be by now considered the epidemic of the twentieth century with a high prevalence of lethal outcome and global distribution. The appearance of this new disease entity has created enormous sociocultural, psychological and economic problems in man in general and in biomedical fields in particular. The latest developments in the epidemic of this syndrome identify emerging aspects of great concern, such as 'slow diseases', 'AIDS-related encephalopathies' and increasing heterosexual transmission of the etiologic agent, the latter reaching peak incidences in several Equatorial African countries. The severity and complexity of the disease has given the biggest stimulation to the entire medical research community and at no time in medical history has so much progress be made in such a short time.

The identification of the etiologic agent - human immunodeficiency virus (HIV) - a human T-lymphotropic retrovirus, which has been mostly referred to as HTLV-III/LAV, represents one of the most significant steps in AIDS research. The discovery occurred simultaneously and independently in two laboratories, both avant-garde in cell biology and retrovirus research. Extensive epidemiologic data have established a complete profile on modes of virus transmission and spreading. While at onset of the epidemic it appeared to be a relative public health problem, restricted to only subjects of certain high risk groups - main routes of transmission of HTLV-III/LAV by intimate sexual contact or contaminated blood products - the alarming reports of spreading of the epidemic in Equatorial African countries mainly due to promiscuous heterosexual transmission, has placed this illness in the forefront of attention. The number of people affected is increasing and clinical syndromes associated appear to extend. The World Health Organization estimated that by now 5-10 million people are infected by HIV and recent epidemiologic studies are showing that as many as 50% of infected subjects might come down with AIDS or AIDS-related syndromes. Although great progress in understanding the molecular biology and mechanisms
of action of HTLV-III/LAV is advancing by the day we have presently no effective and specific therapeutic agent to counteract the AIDS virus. While tremendous research efforts are concentrating in unraveling the modes and mechanisms of HIV infection - its cytopathogenicity - as well as to identify specific antiviral drugs and a useful vaccine, the world but particularly subjects of all known risk groups are looking upon these scientists with great hope. These perspectives, however, will not solve the problem alone. It will remain of equivalent importance to prevent virus spread by preventing its frequent transmission. Therefore, strong educational measurements should never be emphasized enough.

In this volume, updated information, mainly on a review basis and latest findings, is reported by leading experts in the field of AIDS research and care on multifocal aspects of the disease, whether from a scientific point of view or from clinical perspectives. Selection of papers ranges from etiology, epidemiology, immunology, histopathology and oncology to clinical manifestations in adult or children populations as well as in Africa. I like to thank the authors for their contribution to this volume as well as the 'Associazione Italiana di Oncologia Medica' for help in the organization of the Workshop. Moreover, I am grateful to Abbott Laboratories, DuPont de Nemours and Wellcome Italia, among others, for their contributions to the meeting.

Gaetano Giraldo
Division of Viral Oncology,
Istituto Nazionale
‘Fondazione G. Pascale’, Naples, Italy