

WORLD HEALTH ORGANIZATION
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IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS

**VOLUME 66
SOME PHARMACEUTICAL DRUGS**

1984
IARC
LYON
FRANCE

Some Pharmaceutical Drugs Volume 66

Thomas Griffiths



Some Pharmaceutical Drugs Volume 66:

Comprehensive Toxicology, 2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts

Some Traditional Herbal Medicines, Some Mycotoxins, Naphthalene and Styrene IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2002 This monograph evaluates the carcinogenic risks to humans posed by the use of some traditional herbal medicines fumonisin B1 and the industrial organic chemicals naphthalene and styrene and provides an update of the data on the carcinogenicity of aflatoxin *Smokeless Tobacco and Some Tobacco-specific N-nitrosamines* IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2007 This eighty ninth volume of the IARC Monographs is the third and last of a series on tobacco related agents Volume 83 reported on the carcinogenicity of tobacco smoke and involuntary smoking second hand smoke or environmental tobacco smoke IARC 2004a Volume 85 summarized the evidence on the carcinogenic risk of chewing betel quid with and without tobacco IARC 2004b That volume explored the variety of products chewed in South Asia and other parts of the world that contain areca nut in combination with other ingredients often including tobacco In this eighty ninth volume the carcinogenic risks associated with the use of smokeless tobacco including chewing tobacco and snuff are considered in a first monograph The second monograph reviews some tobacco specific nitrosamines These agents were evaluated earlier in Volume 37 of the Monographs IARC 1985 and information gathered since that time has been summarized and evaluated *Combined Estrogen-progestogen Contraceptives and Combined Estrogen-progestogen Menopausal Therapy* IARC Working Group on the Evaluation of

Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2007 Oral contraceptives for family planning worldwide have revolutionized the reproductive lives of millions of women since their introduction in the 1960s. Later on a variety of side effects including cardiovascular diseases was recognized. In response to these concerns new generations of combined oral contraceptives were developed that featured lower dose of estrogen and newer more potent progestogens. The effectiveness and ease of use of combined hormonal contraceptives suggest that they will continue to be used to a significant extent in the future. This ninety first volume of IARC Monographs **Some Industrial Chemicals** IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, 2000. This publication represents the views and expert opinion of an IARC Working Group which met in Lyon 15-22 February 2000 **Report on Carcinogens**, 2000 **Some Thyrotropic Agents** IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2001. This volume evaluates carcinogenicity of 19 chemicals to humans that are carcinogenic to the thyroid follicular cell epithelium in rodents. These include anti thyroid drugs, sedatives and chemicals used in agriculture in foods and cosmetics.

Carcinogenicity Kirk T. Kitchen, 2021-12-16. Offers comprehensive coverage of currently available cancer predictors, the most recent research on carcinogenicity and the design and interpretation of carcinogenicity experiments. Presents mouse, rat and human carcinogenicity data for the liver, kidney, breast, cervix, prostate, hematopoietic system, colon, skin, urinary bladder, mouth, stomach, thyroid and pancreas. *National Cancer Control Programmes* World Health Organization, 2002-06. Supersedes 1st edition 1995. ISBN 9241544740 Tobacco Smoke and Involuntary Smoking IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, World Health Organization, International Agency for Research on Cancer, 2004. The IARC Monographs series publishes authoritative independent assessments by international experts of the carcinogenic risks posed to humans by a variety of agents, mixtures and exposures. They are a resource of information for both researchers and national and international authorities. This volume is particularly significant because tobacco smoke not only causes more deaths from cancer than any other known agent, it also causes more deaths from vascular and respiratory diseases. This volume contains all the relevant information on both direct and passive smoking. It is organised by first looking at the nature of agent, before collecting the evidence of cancer in humans. This is followed by carcinogenicity studies on animals and then any other data relevant to an evaluation. Non-steroidal Anti-inflammatory Drugs IARC Working Group on the Evaluation of Cancer-preventive Agents, International Agency for Research on Cancer, 1997. The objective of the Handbooks programme is the preparation of critical reviews and evaluations of evidence on the cancer preventive and other relevant properties of a wide range of potential cancer preventive agents and strategies by international working groups of experts. In this volume on non steroidal anti inflammatory drugs the following drugs are reviewed: Aspirin, Sulindac, Piroxicam and Indomethacin. For each drug their chemical and physical characteristics, occurrence, production, use, analysis and human exposure, metabolism, kinetics and genetic variation are studied as well as their cancer preventive effects, other beneficial effects, carcinogenicity

and other toxic effects A summary of data and recommendations for research are provided at the end

Some Drinking-water Disinfectants and Contaminants, Including Arsenic IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2004 A working group of 23 experts from 13 countries met in Lyon to evaluate the evidence for carcinogenicity of arsenic mostly naturally occurring as a contaminant of drinking water and of the water disinfectant chloramine The working group also evaluated or re evaluated four chlorination by products found in drinking water namely chloral hydrate di and trichloroacetic acids and 3 chloro 4 dichloromethyl 5 hydroxy 2 5H furanone also known as MX High level exposure to arsenic in drinking water occurs in some regions such as China Latin America Bangladesh and West Bengal The Working Group reviewed epidemiological studies of human cancer mainly ecological studies in Taiwan and Chile and several case control and cohort studies in relation to arsenic in drinking water Arsenic in drinking water primarily inorganic as arsenate and to a lesser extent arsenite was evaluated as carcinogenic to humans Group 1 on the basis of sufficient evidence for an increased risk for cancer of the urinary bladder lung and skin Studies on inorganic arsenic in experimental animals provided limited evidence for its carcinogenicity but sufficient evidence was found in experimental animals for the carcinogenicity of dimethylarsinic acid an organic form of arsenic which produced urinary bladder tumours in rats and lung tumours in mice after oral administration

Mechanisms in Carcinogenesis and Cancer Prevention Harri U. Vainio, Eino K. Hietanen, 2013-04-17 A large proportion of cancers is preventable External factors discovered by epidemiological studies during the last 50 years account for a majority of all cancer deaths However still rather little is known about how environmental and genetic factors interact how they may regulate gene activation etc And it is a long way from the discovery of a basic regulatory mechanism to practical patient treatment This volume describes the present state of the art in carcinogenesis possibilities for cancer prevention and gives genetic background in cancer development Attention is given to the host environment interaction considering how this interaction may lead to cancer formation and how it can be utilised in cancer prevention The molecular basis for cancer development and the molecular basis for prevention are described

Textbook of Cancer Epidemiology Hans-Olov Adami, David John Hunter, Dimitrios Trichopoulos, 2002 This superb text offers an overview of the epidemiology and primary prevention for most forms of human cancer It summarizes concepts and methods of epidemiology the biology of cancer cancer genetics and the emerging potential of biomarkers Then it reviews specific cancer sites in a consistent way providing clinical and pathological outlines descriptive epidemiology and a comprehensive account of traditional and molecular risk factors and their etiological importance

Some Antiviral and Antineoplastic Drugs, and Other Pharmaceutical Agents IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, 2000 Evaluates the carcinogenic risks to humans posed by the use of four antiretroviral agents four DNA topoisomerase II inhibitors used in the treatment of cancer and an additional three pharmaceutical agents hydroxyures phenolphthalein and vitamin K substances The volume marks the first IARC evaluation of

nucleoside analogs that act as antiviral agents The evaluation responds in part to recent findings that zidovudine AZT an effective antiretroviral agent now being given to pregnant HIV infected women to prevent maternal to fetal transmission of the virus is a transplacental carcinogen in mice The opening monograph evaluates the carcinogenicity to humans of the antiretroviral nucleoside analogs zidovudine AZT zalcitabine ddC and didanosine ddI and the antiherpesvirus drug aciclovir Of these aciclovir and didanosine could not be classified on the basis of available data For zidovudine transplacental administration to mice resulted in an increased incidence and multiplicity of lung and liver tumours and in an increased incidence of female reproductive tract tumours in one study but not in another involving treatment at a lower dose Despite observation of toxic effects in some studies of humans human carcinogenicity data were judged to provide inadequate evidence of carcinogenicity in humans Zidovudine was classified as possibly carcinogenic to humans Similar weaknesses in human carcinogenicity data for zalcitabine which consistently induces thymic lymphomas in mice resulted in its classification as possibly carcinogenic to humans The second monograph evaluates four DNA topoisomerase II inhibitors etoposide teniposide mitoxantrone and amsacrine Of these etoposide one of the most widely used and effective cytotoxic drugs in combination therapy was classified as probably carcinogenic to humans and etoposide in combination with cisplatin and bleomycin was judged to be carcinogenic to humans Teniposide was classified as probably carcinogenic to humans and mitoxantrone and amsacrine were classified as possibly carcinogenic to humans Of the three pharmaceutical agents evaluated in the final monograph hydroxyurea which is widely used in cancer treatment and increasingly in combination with didanosine in HIV infection could not be classified Phenolphthalein a widely used laxative now being withdrawn from the market in many countries because of toxicological concerns was classified as possibly carcinogenic Vitamin K substances could not be classified on the basis of available evidence

Handbook of Epidemiology Wolfgang Ahrens,Iris Pigeot,2007-07-26 This 3 volume reference covers the entire field of epidemiology from statistical methods and study design to specialized areas such as molecular epidemiology and applications in clinical medicine and health services research This updated edition of the Handbook of Epidemiology adds 22 new chapters on History of Epidemiological Methods and Concepts Cluster Randomized Trials Internet Based Epidemiology Misclassification Sensitivity Analysis and Bias Analysis Emergency and Disaster Health Surveillance Statistical Inference Data Management in Epidemiology Visual Display of Quantitative Information Bayesian Methods in Epidemiology Generalized Estimating Equations Directed Acyclic Graphs Life Course Epidemiology Molecular Epidemiology Physical Activity Radiation Epidemiology Epidemiology of Obesity Epidemiology of Respiratory Allergies and Asthma Epidemiology of Dental Diseases Epidemiology of Digestive Diseases Psychiatric Disorders Epidemiology of Diabetes All other chapters are extensively revised from the 1st edition This is a reference for epidemiological researchers and graduate students in public health

Non-ionizing Radiation IARC Working Group on the Evaluation of Carcinogenic Risks to Humans,International Agency for Research on Cancer,2002 This volume evaluates

possible carcinogenic hazards from exposures to static and extremely low frequency ELF electric and magnetic fields It is the first of two IARC Monographs volumes on various kinds of non ionizing radiation Extremely low frequency ELF magnetic field exposures result from proximity to electric power transmission lines household wiring and electric appliances and are in addition to the exposure that results from the earth s magnetic field Overall extremely low frequency magnetic fields were evaluated as possibly carcinogenic to humans Group 2B Static magnetic fields and static and extremely low frequency electric fields could not be classified as to carcinogenicity to humans Group 3

Human Papillomaviruses IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. Meeting,2007 This ninetieth volume of the IARC Monographs on the Evaluation of Carcinogenic Risks to Humans considers human papillomaviruses HPVs which were evaluated by a previous Working Group IARC 1995 The monograph in the present volume incorporates new data that have become available during the past decade HPVs represent the most common infectious agents that are transmitted sexually throughout the world the major risk factors are behaviors associated with sexual activity Although most infections are asymptomatic and are cleared within a period of 2 years genital HPV infection can lead to clinical disease including anogenital warts cervical neoplasia cervical cancer and other anogenital cancers The risk for persistence of infection and progression of the more than 40 genital HPV types to grade 3 cervical intraepithelial neoplasia CIN3 and cancer differs widely Persistent infection with carcinogenic HPVs occurs in virtually all cases of cervical cancer Previous evaluations of HPVs have classified types 16 and 18 as carcinogenic to humans group 1 types 31 and 33 as probably carcinogenic to humans Group 2A and some types other than 16 18 31 and 33 as possibly carcinogenic to humans Group 2B At that time the evaluation of types 16 and 18 was based on the strong association between infection with these HPVs and cervical cancer For types 31 and 33 the association was less strong The new epidemiological data reviewed in the present volume strongly support and further confirm the previous evaluation of types 16 and 18 and provide new evidence for other HPVs This information which includes strong evidence of carcinogenicity at sites other than the cervix supports new evaluations for several other HPV types in addition to those mentioned above Since the Working Group was convened in 2005 important innovations in HPV prophylaxis have occurred and these needed to be included in this volume To date two prophylactic vaccines have been developed and used in large multicentric trials This prophylactic vaccination is expected to reduce the incidence of HPV related genital diseases However the benefits of prophylactic vaccines in a broad public health perspective will be achieved only if such vaccines can be provided to those groups of women for whom access to cervical cancer screening services is most problematic Therefore the development of second generation vaccines that are expected to be cheaper easier to deliver and to provide T cell response against pre existing HPV infections is highly desirable

Thresholds of Genotoxic Carcinogens Takehiko Nohmi,Shoji Fukushima,2016-05-20 Thresholds of Genotoxic Carcinogens From Mechanisms to Regulation brings together current opinion and research activities from Japan the US and Europe on the subject of genotoxic thresholds In regulation it is an

adage that genotoxic carcinogens have no thresholds for action and that they impose cancer risk on humans even at very low levels This policy is frequently called into question as humans possess a number of defense mechanisms including detoxication DNA repair and apoptosis meaning there is a threshold at which these genotoxic carcinogens take action The book examines these potential thresholds describing the potential cancer risks of daily low level exposure the mechanisms involved such as DNA repair detoxication translesion DNA synthesis chemical and statistical methods of analysis and the ways in which these may be utilized to inform policy Thresholds of Genotoxic Carcinogens From Mechanisms to Regulation is an essential reference for any professional researchers in genetic toxicology and those involved in toxicological regulation Unites an international team of experts to provide a balanced overview of the current opinion on thresholds of genotoxic carcinogens Provides all the information readers need to determine a safe threshold for potential genotoxic carcinogens Includes information on the mechanisms of genotoxic carcinogens and how these can inform regulation Serves as an essential reference for any professional researchers in genetic toxicology and those involved in toxicological regulation

Quantitative Structure-Activity Relationship (QSAR) Models of Mutagens and Carcinogens Romualdo

Benigni, 2003-02-26 Applied with success in a number of areas QSAR studies have become particularly popular in the rational design of drugs and pesticides Much has been published on the principles of QSAR in this area but not on their application s to toxic chemicals This book provides the first comprehensive interdisciplinary presentation of QSAR studies on

Reviewing **Some Pharmaceutical Drugs Volume 66**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Some Pharmaceutical Drugs Volume 66**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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