

# Radioccontrast Agents

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# Radiocontrast Agents Handbook Of Experimental Pharmacology Volume 73

**H.P. Witschi,J.D. Brain**



## **Radiocontrast Agents Handbook Of Experimental Pharmacology Volume 73:**

**Radiocontrast Agents** M. Sovak, 2012-12-06 Contrast media are drugs by default Had there been no default there would be no need for a related pharmacology and thus no need for this book Radiographic contrast media CM are substances whose primary purpose is to enhance diagnostic information of medical imaging systems The position of CM in pharmacology is unique First there is the unusual requirement of biological inertness An ideal CM should be completely biologically inert i e stable not pharmacologically active and efficiently and innocuously excretable Because they fail to meet these requirements CM must be considered drugs The second unusual aspect of CM is that they are used in large quantities their annual production being measured in tens of tons It is not in spite of but because of the increased use of new radiographic systems computed tomography digital radiography etc that consumption is on the rise And it is not likely that the other emerging imaging modalities NMR ultrasonography etc will displace radiographic CM soon it is quite probable that these remarkable compounds will continue to play an active role in diagnostic imaging in the foreseeable future *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1985 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Contrast Media in Practice Peter Dawson, Wolfram Clauß, 2012-12-06 In this volume experts answer questions which are frequently asked about the properties and handling of X ray contrast media providing a good source of reference in the use of these agents and which should help to reduce the rate of adverse effects In addition basic information is provided on the development toxicology pharmacology pharmacokinetics and clinical testing of X ray contrast media Finally a look at the prospects for contrast media in magnetic resonance imaging and ultrasound underlines the increasing importance of these diagnostic imaging procedures This book will be of interest to physicians and their staff alike Histamine and Histamine Antagonists Börje Uvnäs, 2012-12-06 Together with the two previous volumes of the Handbook of Experimental Pharmacology on histamine and antihistamines the present publication yields a picture of a still rapidly developing field of research New techniques and new experimental approaches have brought us new knowledge and deeper insight into the biomedical significance of histamine even if many questions remain to be answered about the functional and medical implications of this old biogenic amine The present volume covers the progress in histamine research during the past two decades A significant chapter concerns techniques for histamine determination As the result of a consensus meeting in Munich in December 1988 a panel of eminent specialists arrived at common recommendations as to the usefulness of the available histamine assays for the most common experimental biomedical conditions The heterogeneity of mast cells with great differences in their reactivity to various stimuli has become apparent not only among species but also among the tissues of a species New information is presented about the mechanism of exocytosis The old questions about the role of histamine in the mechanism of gastric secretion and in cardiovascular and respiratory functions have been studied with new techniques and the role of H<sub>1</sub> and H<sub>2</sub> receptors discussed New

observations have been made on the occurrence and possible functions of histaminergic neurons and histamine receptors in CNS where a new type of receptor the H seems to 3 be widely represented      *Pharmacology of Asthma* Clive P. Page, Peter J. Barnes, 2012-12-06 This volume forms part of a prestigious series and covers the latest advances in our understanding of the pathophysiology and treatment of asthma Our understanding of asthma has changed dramatically in recent years and much of this new information is brought together in this volume written by inter nationally recognised authorities The aim of the book is to review in depth the changing concepts of inflammatory processes in asthma and to discuss the implications for research of this common chronic disease Many of the advances in and future therapy our understanding of asthma have originated from a pharmacological approach and this volume highlights the promising new options for pharma cological intervention It is hoped this book will be invaluable for research scientists and clinic ians involved in asthma research and will be a major reference resource for chest physicians and those involved in the development of novel pharmaceu tical entities Each chapter is extensively referenced generously illustrated with clear diagrams and photographs and represents a state of the art review of this growing area c P PAGE P I BARNES Contents CHAPTER 1 The Pathology of Asthma An Overview L A LAmNEN and A LAmNEN With 10 Figures 1 A Introduction 1 B Methods to Investigate the Pathology of Human Asthma 1 C Bronchial Epithelium and Inflammatory Cells in Asthmatic Patients Between Attacks 2 I Mast Cells 4 II Eosinophils 7 III Neutrophils 10 D Bronchial Epithelial Inflammation During an Asthma Attack 10 E Epithelial Regeneration 12      **Biochemical Pharmacology of Blood and Bloodforming Organs** James W. Fisher, 2012-12-06 The subject of this volume is to review chemical agents which affect blood and blood forming organs Significant ad vances made over the past several years in the purification of several hematopoietic growth factors such as erythro poietin and colony stimulating factor the availability of several other growth factors such as the interleukins which are important in regulating the production of red blood cells leukocytes megakaryocytes and platelets are discus sed Numerous toxic chemical substances are being produced in our environment which people are exposed todaily causing a suppression of erythropoiesis myelopoiesis and megakaryo cytopoiesis Attempts to evaluate both the therapeutic role of some of the newer growth factors such as erythropoietin in the anemia of end stage disease as well as colony stimu lating factors in somehematopoietic abnormalities are also covered in this volume In addition numerous chemical fac tors in our environment which suppress major hematopoietic lineages stimulated by erythropoietin macrophage colony stimulating factor granulocyte colony stimulating factor interleukin 1 alpha 1 beta 2 3 4 5 6 and 7 are also in cluded In addition chapters on the use of erythropoietin in the treatment of anemia of end stage renal disease can provide the practicing hematologist and nephrologist with updated information on the use of erythropoietin for this disease The book includes chapters on the fundamental con trol of hematopoiesis and other mechanisms of action of erythropoietin and finally an up to date overview of the chemotherapy of leukemia This book will prove useful to in vestigators in the fields of pharmacology physiology nephrology urology

hematology pathology endocrinology biochemistry and molecular and cell biology      **Contrast Agents I** Werner Krause, 2003-07-01 Extracellular MRI and X ray contrast agents are characterized by their pharmacokinetic behaviour After intravascular injection their plasma level time curve is characterized by two phases The agents are rapidly distributed between plasma and interstitial spaces followed by renal elimination with a terminal half life of approximately 1.2 hours They are excreted via the kidneys in unchanged form by glomerular filtration Extracellular water soluble contrast agents to be applied for X ray imaging were introduced into clinical practice in 1923 Since that time they have proved to be most valuable tools in diagnostics They contain iodine as the element of choice with a sufficiently high atomic weight difference to organic tissue As positive contrast agents their attenuation of radiation is higher compared with the attenuation of the surrounding tissue By this contrast enhancement X ray diagnostics could be improved dramatically In 2,4,6-triiodobenzoic acid derivatives iodine is firmly bound Nowadays diamides of the 2,4,6-triiodo-5-acylamino isophthalic acid like iopromide Ultravist Fig 1 are used as non ionic neutral X ray contrast agents in most cases 1      **Toxicology of Inhaled Materials** H.P. Witschi, J.D. Brain, 2012-12-06 This book deals with the methods and scientific basis of inhalation toxicology It describes devices and facilities needed to expose animals to inhaled particles and gases as well as approaches to estimating or measuring the fraction of the inhaled material that is retained in the respiratory tract The book then reviews the evergrowing repertoire of techniques that can be used to measure the responses elicited by the exposure Quantitative and qualitative anatomical physiological and biochemical strategies are discussed in detail We believe that the toxicology of inhaled materials is an important and timely topic for several reasons During the past decade morbidity and mortality attributable to cardiovascular disease have significantly decreased Progress in combatting cancer the second most important cause of death has been slower and lung cancer actually became the leading cause of death in men and the second leading cause of cancer death in women In addition the incidence of non neoplastic respiratory diseases such as emphysema fibrosis and chronic bronchitis has increased the past decade In the United States the National Institutes of Health NIH has recently reported that chronic obstructive pulmonary disease affects nearly 10 million persons and accounts for 59 000 deaths yearly indeed it ranks as the fifth leading cause of death Because the incidence is increasing the NIH estimates that it may become the nation's fourth or even third leading cause of death by the year 2000      The Pharmacology of Lymphocytes Michael A. Bray, John Morley, 2012-12-06 Immunopharmacology why not pharmacimmunology Professor H O Schild University College London 1962 An intact immune response is essential for survival as is evidenced by the various innate immune deficiency syndromes and by the emergence of the acquired immune deficiency syndrome AIDS as a pandemic during the last decade Substances which stimulate the immune response might contribute to the therapy of AIDS and its precursor AIDS related syndrome as well as of other clinical conditions in which immune responses can be diminished such as carcinoma and infections In other circumstances an intact or heightened immune response may pose clinical problems hence there is need to suppress or

diminish components of the immune response For instance it is necessary to impair cellular immunity in order to ensure lasting acceptance of heterografts and it is already established that agents effective in transplantation are therapeutically effective in an range of autoimmune diseases More recently experimental studies have indicated that aberrant manifestations of humoral immunity as in allergies may also be amenable to pharmacological intervention

**CONTRAST MEDIA: BIO EFF CLN ASP VOL III OF A 3-VOLUME SET** Zaheer Parvez, 1987-04-30 **Contrast Media Biologin Effect Clinica Appln** Zaheer Parvez, Rogelio Moncada, Milos Sovák, 1987 **Frontiers in European Radiology** A. L. Baert, F. H. W. Heuck, 2012-12-06

The dramatic evolution of new technology in diagnostic and therapeutic radiology has changed the whole field of medicine Ultrasonography computed tomography nuclear magnetic resonance and digital radiography are those new techniques which are undergoing continuous development providing us with increasingly re fined methods for establishing the cause of disease and for treating the patient Using radiologic technique ingenious methods are continuously being developed to en sure less expensive less traumatic and more efficient therapy Transluminal angio plasty embolization of tumors or bleeding vessels extraction or dissolution of stones and regional infusions are some of these therapeutic methods in modem diagnostic radiology Every day new ideas arise which are published in a multitude of papers This heavy flow of information limits the possibility of selecting from a core of information and often prevents radiologists from communicating efficiently with their colleagues in other countries or continents European radiologists are additionally hampered from participating in international communication because of the language barriers created by the national journals As a result Europe s contribution to scientific progress in this interdisciplinary field has influenced only regional developments

*The Cholinergic Synapse* Victor P. Whittaker, 2012-12-06 One of the most impressive works of scholarship in the field of experimental pharmacology has been the Heffter Heubner Handbuch der experimentellen Pharmakologie internationalized some years ago under the title Handbook 0 Experimental Pharmacology and kept up to date by a series of numbered Ergiin zungswerke or supplementary volumes which have now replaced in importance the original Handbuch These volumes constitute a valuable and continuously up dated multi author review series of topics important in modern pharmacology and allied sciences The Editorial Board of the Handbook invited me 2 years ago to undertake as subeditor the preparation of a new volume entitled The Cholinergic Synapse A previous volume in this series vol 15 Cholinesterases and Anticholinesterase Agents edited by GEORGE KOELLE was published in 1963 and was far wider in scope than its title suggested it was in fact an authoritative summing up of the whole subject of cholinergic function and still has some value today as an account of the state of the art as it was at that time Since then another excellent review of a specific cholinergic synapse has appeared in this series this was vol 42 Neuromuscular Junction edited by ELEANOR ZAIMIS and published in 1976 A third volume vol 53 Pharmacology o Ganglionic Transmission which appeared in 1980 and was edited by D A KHARKEVICH includes important aspects of autonomic cholinergic function

**Chemotherapy of Gastrointestinal Helminths** H. Vanden Bossche, D.

Thienpont, P.G. Janssens, 2012-12-06 Parasitic diseases are the most widespread of all the major diseases currently 9 affecting about 3 x 10 people and innumerable domestic animals There is no doubt that among these parasitic diseases the helminthic infections of the gastrointestinal tract are about the most important because of their global distribution their high prevalence their effects on the nutritional status of men and animals their effects on the physical and mental development of children and their economic effects on the production of animals Anthelmintics are important elements in the control of these gastrointestinal helminthic infections In this volume the editors and authors have tried to find a way through the immense amount of information on anthelmintic drugs that is scattered throughout the literature Different authors have critically examined this information from different angles However the aim of all has been to provide the information needed by veterinarians physicians and public health workers to select the most suitable drug for a given situation *Local*

*Anesthetics* Gary R. Strichartz, 2012-12-06 Local anesthetics are among the most widely used drugs Their development over the past century ranges from a documented influence on Freud's Interpretation of Dreams 1 to the synthesis of the ubiquitously popular lidocaine as described in Chapter 1 For surgical procedures the use of regional epidural and intrathecal local anesthesia has increased continuously during the past decade Local anesthetics are also applied by physicians to ameliorate unpleasant sensations and reactions to other procedures such as tracheal intubation The presence or the threat of cardiac arrhythmias is often countered by chronic administration of local anesthetic like agents such as lidocaine or procainamide Relief of acute pain accompanying dental manipulations for example and of chronic pain are also accomplished with traditional local anesthetics And over the counter formulations of topical local anesthetics provide practitioners of solar indiscretion welcome relief from their otherwise unaccommodating sunburn In all these applications the final effect of the local anesthetic is an inhibition of electrical activity accomplished as a reduction or total blockade of action potentials The primary site of action is the sodium channel a transmembrane protein which is essential for the influx of sodium ions that subserves impulse generation and propagation in nerves skeletal muscle and heart The detailed mechanisms of local anesthetic action are still being investigated and Chapter 2 of this volume provides a current overview of that subject

**Contrast Media**, 1987 **Insulin** Pedro Cuatrecasas, Steven Jacobs, 2012-12-06 It is fourteen years since insulin was last reviewed in The Handbook of Experimental Pharmacology in volume 32 The present endeavor is more modest in scope Volume 32 appeared in two separate parts each having its own subeditors and together the two parts covered nearly all areas of insulin pharmacology Such comprehensiveness seemed impractical in a new volume The amount of information related to insulin that is now available simply would not fit in a reasonable amount of space Furthermore for better or worse scientists have become so specialized that a volume providing such broad coverage seemed likely in its totality to be of interest or value to very few individuals We therefore decided to limit the present volume to the following areas insulin chemistry and structure insulin biosynthesis and secretion insulin receptor and insulin action at the cellular level We felt these areas formed

a coherent unit We also felt perhaps as much because of our own interests and perspectives as any objective reality that these were the areas in which recent progress has been most dramatic and yet paradoxically and tantalizingly these were the areas in which most has yet to be learned Even with this limited scope there are some major gaps in coverage Regrettably two important areas the beta cell ATP sensitive potassium channel and the glucose transporter were among these Nevertheless the authors who contributed have done an excellent job and we would like to thank them for their diligence

**Antiepileptic Drugs** Hans-Hasso Frey,D. Janz,2012-12-06 Epileptic disorders need treatment for many years or even for life and this makes a thorough understanding of the pharmacokinetics and possible hazards and side effects of the drugs used in treatment mandatory During recent decades our knowledge in this field has considerably increased not least as a result of the development of specific and sensitive methods for the determination of anti epileptic agents in biological material The clinical pharmacology of this group of drugs has been studied extensively and can today be regarded as well established This does not necessarily mean that drug treatment of epilepsy is without problems For example it has recently been shown that one of the newer anti epileptic drugs greeted with great enthusiasm by clinicians may in rare instances induce serious damage to the liver and the pancreas and seems even to have a certain teratogenic potential Clinical problems should be understood as a challenge to the experimental pharmacologist who should try to find explanations for the clinical hazards and if possible show new ways in which better drugs might be developed In recent years interest has focused on the importance of the inhibitory transmitter l aminobutyric acid GABA in the pathophysiology of epilepsy and there have been a series of attempts to find useful antiepileptic drugs among substances interfering with GABA metabolism in the CNS

**Medical and Health Care Books and Serials in Print** ,1986



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