



Article

Impact of Parenteral Prostanoids in Pulmonary Arterial Hypertension: The Relevance of Timing

Silvia Papa 1. **** Gianmarco Scoccia 1. Giorgia Serino 1, Francesca Heana Adamo 1, Jean Pierre Jabbour 1, Annalisa Caputo 1, Michela Boromei 1, Domenico Filomena 1, Domenico Laviola 1. Enrico Maggio 1, Giovanna Manzi 1. Alexandra Mihai 1, Tommaso Recchioni 1. Alexandra Sabusco 2, Livia Valeri 1, Sara Vinciullo 1, Carmine Dario Vizza 1. and Roberto Badagliacca 1.

- Department of Clinical, Internal Medicine, Anesthesiology and Cardiovascular Sciences, Sapienza University of Rome, 00161 Rome, Italy; giarmarcoscoccia@gmail.com (G.S.); giorgia.serino@cario@cariomal.it (G.S.); francescaileana.adamo@uniromal.it (F.L.A.); jej1995@gmail.com (J.P.J.); annalisa.caputo@uniromal.it (A.C.); michela berornei@uniromal.it (M.B.); domenico.filomena@uniromal.it (D.F.); domenico.laviola@uniromal.it (D.L.); enrico.maggio@uniromal.it (E.M.); giovannamani@1@gmail.com (G.M.); reibai.1730100@gmail.com (L.V.); sara.vinciuflo@uniromal.it (S.V.); dario.vizza@uniromal.it (C.D.V.); roberto.badagliscos@uniromal.it (R.B.)
- Department of Translational Medicine, University of Eastern Piedmont, 28100 Novara, Italy; alesabusco@yahoo.it
- Correspondence: silvia.papa@uniromal.it

Abstract: Parenteral prostanoids are being recommended in pulmonary arterial hypertension (PAH) treatment, but the prognostic relevance of delayed treatment initiation is still debated. This study assessed the impact of the timing of prostacyclin treatment initiation on reducing PVR and achieving a low-risk profile in PAH patients. The study enrolled 151 patients who started on parenteral prostanoids with different treatment strategies. All patients underwent right heart catheterization, clinical evaluation, and risk assessments at baseline and after 1-year follow-up. Patients with an upfront strategy including parenteral prostanoid plus one oral drug had -5.3 ± 6.2 WU ($-50 \pm 19\%$) reduction in PVR, patients with an upfront strategy including parenteral prostanoid plus double oral drug had -12.8 ± 5.9 WU ($-68 \pm 17\%$) reduction in PVR, while patients with an add-on strategy including parenteral prostanoid after oral drugs had -3.9 ± 3.5 WU ($-23 \pm 19\%$) reduction in PVR. An upfront strategy including parenteral prostanoids was independently associated with an increased likelihood of achieving the greater reduction of PVR compared with an add-on strategy. Additionally, the greater the severity of PH at the time of diagnosis, in terms of PVR and RV reverse remodeling, the higher the probability of treatment failure. An upfront strategy including a parenteral prostanoid is associated with the highest likelihood of achieving a low-risk profile and a greater reduction of PVR compared with parenteral prostanoid as an add-on to oral treatment.

Keywords: pulmonary arterial hypertension; pulmonary vascular resistance; reverse remodeling; prostanoids

1. Introduction

The PH ESC/ERS Guidelines recommend upfront double oral therapy for low- and intermediate-risk patients [1]. This approach has been recently confirmed in the PH World Symposium 2018 [2]. The expert panel proposal was to evaluate risk assessment and therefore treatment strategy mainly based on WHO class, 6MWT, cardiac index, and BNP (average method or number of low-risk variables present) [3–5]. However, recent data from the Italian network (iPHNET) [6] show the insufficient power of the oral upfront treatment to achieve a low-risk condition, for a significant proportion of intermediate-risk patients. The results demonstrate that less than 40% of intermediate-risk PAH naive patients treated



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<u>Prostanoids Pharmacological Physiological And Clinical</u> <u>Relevance</u>

SYED AHAMAD ALI

Prostanoids Pharmacological Physiological And Clinical Relevance:

Prostanoids P. K. Moore, 1985-12-12 Prostanoids are a group of fat soluble compounds synthesised by almost every cell in the human body and they are essential to the proper functioning of the organs Interruption to the constant rate of formation and release of prostanoids may cause life threatening conditions to develop for example a deficiency may exacerbate or cause strokes heart disease diabetes and an excess is implicated in arthritis The interest in the structure and functions of prostanoids is great and much research effort has been spent on elucidating facts about them This book makes explicit the present knowledge on the subject and emphasises the pharmacology physiology and relevance to clinical conditions It offers those studying pharmacology and physiology particularly in preclinical medical courses an up to date summary of this exciting group of substances Eicosanoids and the Gastrointestinal Tract K. Hillier, 2012-12-06 The original series Advances in Prostaglandin Research edited by Sultan M M Karim was published by MTP Press in three volumes in 1975 and 1976 A glance at those books illustrates the progress that has been made since then The thromboxanes were mentioned twice first publication 1975 and prostacyclin not once first publication 1976 leukotrienes were only on the horizon The amazing generation of research data in the last 10 15 years has given new broad insights into many areas including asthma inflammation renaL cardiovascular and gastrointestinal diseases and in reproduction and has led in some instances to real clinical benefit This series AdvancesinEicosanoidResearch reflects the current understanding of prostaglandins thromboxanes and leukotrienes The aim is to provide an introductory background to each topic and the most up to date information available Although each book stands alone the eicosanoids cut across many boundaries in their basic actions selected chapters from each book in the Series will provide illuminating and productive information for all readers which will advance their education and research In the production of this series I must acknowledge with pleasure my collaboration with editors and authors and the patient endeavours of Dr Michael Brewis and the staff at MTP Press

Biochemistry of Halogenated Organic Compounds Kenneth L. Kirk,2013-06-29 Biochemistry of Halogenated Organic Compounds has been written as a general reference source for researchers in several related areas including organic chemists medicinal chemists pharmacologists toxicologists and medical researchers The development of halogenated compounds as medicinal agents and pharmacological tools and the fascinating biochemi cal processes that have been discovered and studied using these analogues have generated extremely active areas of research and an enormous volume of literature Thus halogenated organic compounds pervade every aspect of biochemistry a fact made apparent by the numerous reviews and monographs available on individual topics halogenated nucleosides halogenated carbohydrates and so forth Given the quantity of material already written on these topics some of which material is quite current it might be asked whether a one volume review of these subjects is useful or possible Having now completed this work I feel the answer to both questions is an emphatic yes There are fascinating stories to be related in each area and where appropriate I have attempted

to develop these topics from a historical perspective For example the discovery of the anticancer activity of fluorouracil the unraveling of the several mechanisms of its action and the development of a host of later generations of anticancer and antiviral agents based on the parent fluoro iodo bromo and trifluoromethylpyrimidines were and are contributions of major magnitude to medical science Nephrotoxicity in the Experimental and Clinical Situation P.H. Bach, E.A. Dioxygenases—Advances in Research and Application: 2013 Edition, 2013-06-21 Dioxygenases Lock,2012-12-06 Advances in Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Cysteine Dioxygenase in a concise format The editors have built Dioxygenases Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Cysteine Dioxygenase in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Dioxygenases Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Phylogenesis of Immune Functions Gregory W. Warr, Nicholas Cohen, 2024-12-20 This volume discusses recent advances in research regarding the evolution of specific and nonspecific defense responses in a taxonomically diverse array of species Topics regarding invertebrates include the protective mechanisms cellular and molecular employed by insects the protective roles of lectins and the self nonself discrimination revealed by tissue incompatibility reactions With vertebrates the evolution of the immunoglobulin related superfamily of recognition molecules including immunoglobulins and the major histocompatibility complex molecules is examined over several chapters Other topics reviewed include the evolution of nonimmunoglobulin mediators of defense e g cytokines and eicosanoids lymphocyte subpopulations including effects of ambient temperature on function and the phylogenetic emergence of natural killer cells Phylogenesis of Immune Functions provides invaluable information for evolutionary biologists as well as all immunologists and other researchers interested in discovering how inhabitants in our increasingly threatened biosphere protect themselves against environmental pathogens and toxins **Arachidonate Metabolism in** Immunologic Systems L. Levine, 1988 Chemical Intolerance Robert W. Gardner, 2024-12-06 Chemical Intolerance identifies phenolic aromatic chemical compounds present in natural foodstuffs pollens certain food additives tobacco smoke perfumes air pollution etc as nonimmunologic but pharmacologic activators of allergic reactions in chemically intolerant individuals Biochemical pathway sequences with supporting scientific literature are outlined to elucidate the mechanisms associated with formation of inflammatory mediators prostaglanding thromboxanes and leukotrienes upon activation by phenolic compounds and other chemical stimulants The role of these inflammatory agents in respiratory gastrointestinal

neurological cardiovascular and other disorders is discussed Treatment modalities using precise dosages of selected phenolic compounds are outlined to provide clinicians with an effective means of therapy The author also shares his own experience and personal findings based on 20 years of research including his recommendations for therapy International Review of Neurobiology ,1990-01-26 International Review of Neurobiology Treatise on Pulmonary Toxicology Richard A.

Parent,1992-02-21 Comparative Biology of the Normal Lung is the first volume in a series entitled A Comprehensive Treatise on Pulmonary Toxicology The book is divided into four sections that deal with morphology and morphometry respiratory physiology biochemistry and pulmonary defense A special index lists and cross indexes all comparative data included in the text which provides readers with easy access to a broad spectrum of pulmonary data for a number of different species Over 50 internationally respected authors have contributed to this cutting edge scientific study designed for all scientists concerned with the pulmonary system including research scientists in medicine veterinary medicine zoology and toxicology

Studies in Natural Products Chemistry Atta-ur Rahman, 2003-12-03 Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement and many aspects of basic research programs are intimately related to natural products The significance therefore of the 29th volume in the Studies in Natural Product Chemistry series edited by Professor Atta ur Rahman cannot be overestimated This volume in accordance with previous volumes presents us with cutting edge contributions of great importance Volume 29 is part of a great family of useful reference books Illustrates the types of critical discoveries that emerge from the interface of chemistry and biology Contributions are from well Canadian Journal of Physiology and Pharmacology ,1998 Reproductive Biotechnology in respected authors **Finfish Aquaculture** C.-S. Lee, E.M. Donaldson, 2012-12-02 The successful reproduction of cultured brood stock is essential to the sustainable aquaculture of aquatic organisms This book describes recent advances in the field of finfish reproductive biotechnology The chapters in this volume are written by eminent scientists who review the progress and assess the status of biotechnology research that is applicable to the reproduction of finfish species for aguaculture A wide range of topics is included starting with broodstock technologies such as broodstock genetics broodstock nutrition environmental control of maturation and impacts of stress on broodstock gametes and progeny The volume includes technologies for induction of ovulation and spermiation using synthetic hypothalamic peptides Gamete technologies which are described include cryopreservation chromosome set manipulation disease prevention and control for gametes and embryos and the development of transgenic fish with enhanced production characteristics Genetic and endocrine technologies for the production of monosex male and female fish stocks are also described The closing chapter summarizes the discussion of each topic at the workshop provides recommendations to industry and describes priorities of research and development Researchers as well as teaching faculty in the aquaculture field will find this volume of great value **Larval Fish Nutrition** G. Joan Holt, 2011-05-24 Nutrition is particularly important in the healthy development of fish during their early

life stages Understanding the unique nutritional needs of larval fish can improve the efficiency and quality of fish reared in a culture setting Larval Fish Nutrition comprehensively explores the nutritional requirements developmental physiology and feeding and weaning strategies that will allow aquaculture researchers and professionals to develop and implement improved culture practices Larval Fish Nutrition is logically divided into three sections The first section looks at the role of specific nutrient requirements in the healthy digestive development of fish The second section looks at the impacts if nutritional physiology on fish through several early life stages The final section looks at feeding behaviors and the benefits and drawbacks to both live feed and microparticulate diets in developing fish Written by a team of leading global researchers Larval Fish Nutrition will be an indispensible resource for aquaculture researchers professionals and advanced students Key Features Reviews the latest research on larval fish nutritional requirements developmental physiology and feeding and weaning strategies Extensively covers nutritional needs of various early life stages in fish development Weighs the benefits and drawbacks to both live feeds and microparticulate diets Written by a global team of experts in fish nutrition and New Perspectives in Veterinary Pharmacology and Therapeutics American Academy of Veterinary physiology Pharmacology and Therapeutics. Biennial Symposium, 1986 NUTRITIONAL FEEDING OF FISH AND SHRIMPS IN INDIA SYED AHAMAD ALI, 2019-06-03 Chapter I Importance of Nutrition of Species in Aquaculture Chapter II Nutritional Requirements of Finfish Chapter III Nutritional Requirements of Crustaceans Shrimps and Prawns Lobsters and Crabs Chapter IV Broodstock and Larval Nutrition Chapter V Feed Ingredients Chapter VI Feed Additives Chapter VII Feed Formulation An Feed Technology Chapter VIII Feeding Management and Sustainability Chapter IX 0 Biofloc Technology Chapter X Aquaponics Fish and shellfish are contributing highly nutritious and healthy food to the food basket the world over The world per capita seafood consumption reached a record level of 20 kg per person per year for the first time in history This is twice the level of average per capita fish consumption in 1960s in the world The global trade value of seafood has increased to 150 billion The total fish production in the world is 150 million tons in 2014 FAO out of which 70 million tons is contributed by aquaculture While the natural capture fishery resources are fast dwindling contribution by aquaculture is ever increasing The culture of crustaceans and finfishes is propelled mainly by intentional feeding of formulated feeds As the demand for fish as food for human consumption is ever increasing aquaculture is the only alternative to bridge the gap between supply and demand Indian aquaculture production has shown impressive growth with total aquaculture production nearing 7 million tons contributing almost 70% to the total seafood production Indian aquaculture sector is mainly represented by the large scale culture of Indian Major Carps catla rohu and mrigal exotic carps grass carp silver carp and common carp and Pangasius catfish Freshwater prawn and Penaeid shrimp are the crustaceans that are adding to seafood exports from the country Aquaculture of Asian seabass milkfish mullets grouper and cobia etc has been gaining momentum The total agua feed production is touching almost 300 000 tons per annum **Chemical Communication** William C.

Agosta, 1992-04-15 A wounded minnow attempts to rejoin its school and the other minnows scatter in panic a single beetle finds a pine tree to its liking and soon thousands of beetles swarm that tree and others in the vicinity a male Syrian golden hamster is drawn along an invisible trail to a burrow where a female hamster awaits him ready for mating These animals are responding to received communications but as in countless other occurrences in nature the language is not auditory or visual it is chemical Unlike humans who gather information largely through sight and sound most living creatures rely heavily on chemical compounds from other organisms for their basic knowledge of the world Among the various types of these compounds are the chemical signals exchanged between members of the same species that govern social interactions crucial to survival These signals are called pheromones from the Greek pherein to carry and hormon exciting and they are used to send warnings establish territorial boundaries provoke aggression control sexual behavior and locate food In this volume organic chemist William C Agosta explores the chemistry of pheromones and the mechanisms by which they orchestrate animal behavior Professor Agosta details the intricate process of identifying pheromones and determining the active components within these sometimes highly complex mixtures He also demonstrates the value of this growing body of knowledge to our understanding of evolution ecology human behavior and agricultural production. The result is a fascinating look at a research area that brings together investigators information technologies and procedures from the fields of biology chemistry and behavioral science Chemical Communication spans the entire spectrum of life from simple organisms such as water molds and brown algae to insects birds fish reptiles mammals and in a provocative final chapter human beings Along the way Dr Agosta provides dozens of captivating examples of pheromones in action certain male red sided garter snakes which increase their chances of mating successfully by impersonating a female thus distracting rivals or the bolas spiders which capture male moths by hitting them with an adhesive ball on a string after emitting a female moth pheromone that lures the males within range The book also includes important evidence that pheromones alter physiology as well as behavior For example young female mice reach maturity at an accelerated pace after constant exposure to adult male mice Syndromes in Neurology Howard L. Fields, 2013-10-22 Pain Syndromes in Neurology deals with the diagnosis and treatment of painful conditions associated with dysfunction of the peripheral or central nervous system It discusses advances in three areas first the normal anatomy and physiology of pain second the pathophysiology of damaged sensory neurons and third the diagnosis and treatment of patients with neuropathic pain The book begins with a discussion of neural mechanisms relevant to pain perception along with a brief review of neuropathic pain This is followed by separate chapters on hyperalgesia following cutaneous injury the importance of peripheral processes in the etiology of neuropathic and radiculopathic pain and mechanisms by which sympathetic efferent fibers contribute to the occurrence of pain Subsequent chapters cover the diagnosis and treatment of reflex sympathetic dystrophy pain in generalized neuropathies surgical treatment of pain clinical features and management of postherpetic neuralgia diagnosis of cancer pain syndromes and drugs in the management of

chronic pain Insect Lipids David Warren Stanley, Dennis R. Nelson, 1993-01-01

Bibliography of Medical Reviews, 1976

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