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Clinical pharmacology and pharmacogenetics of prostaglandin analogues in glaucoma

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Glaucoma is the main cause of irreversible visual loss worldwide, and comprises a group of progressive, age-related, and chronic optic neuropathies. Prostaglandin analogs are considered a first-line treatment in the management of glaucoma and have the best efficacy in reducing intraocular pressure. When comparing these therapeutic agents between them, long-term therapy with 0.03% bimatoprost is the most effective followed by treatment with 0.005% latanoprost and 0.004% travoprost. The prevalence of adverse events is lower for latanoprost than for other prostaglandin analogs. However, some patients do not respond to the treatment with prostaglandin analogs (non-responders). Intraocular pressure-lowering efficacy differs significantly between individuals partly owing to genetic factors. Rs1045642 in *A8CB1*, rs4241366 in *SLCO24J1*, rs9503012 in *GMD5*, rs10306114 in *PTGS1*, rs11568658 in *MMP4*, rs10786455 and rs6686438 in *PTGFR* were reported to be positive with the response to prostaglandin analogs in patients with glaucoma. A negative association was found between single nucleotide polymorphisms of *PTGFR* (rs11578155 and rs6672484) and the response to prostaglandin analogs in patients with glaucoma. The current review is an analysis of the information relevant to prostaglandin analog treatments based on previous literatures. It describes in detail the clinical pharmacology and pharmacogenetics of drugs belonging to this therapeutic class to provide a sound pharmacological basis for their proper use in ophthalmological clinical practice.

KEYWORDS

glaucoma, prostaglandin analogues, efficiency, safety, pharmacogenetics, visual loss, neuropathy

Introduction

Glaucoma is the second leading cause of blindness worldwide and comprises a group of irreversible, progressive, and chronic optic neuropathies that result in vision loss owing to the death of retinal ganglion cells (Quigley and Broman, 2006; Kang and Tanna, 2021). Age is considered a major risk factor for glaucoma (McMonnies, 2017) and the prevalence of this pathology increases with age. Reports indicate a prevalence of 2.93% among

Pharmacology Of Glaucoma

Lingjun Ying



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Pharmacology of Glaucoma Stephen M. Drance, E. Michael Van Buskirk, Arthur H. Neufeld, 1992 **Medical Treatment of Glaucoma** Xinghuai Sun, Yi Dai, 2019-04-10 This book provides comprehensive information on current medications for glaucoma From anatomy and physiology of glaucoma related ocular structure to the current mechanism theories and evaluation techniques of glaucoma our understanding of glaucoma has been considerably improved in the last three decades A large number of medications have been developed for the treatment of glaucoma whose pharmacological information and data on efficacy and safety will be introduced in detail in this book Practical guidelines for different type of glaucoma and specific patients and pharmaceutical agents combined usage are concise and credible The other chapters on patient managements and updates on glaucoma guidelines add useful and practical information to the book New experimental and clinical investigations are promising and may develop new therapeutic targets for treatment of glaucoma in future The primary target audience for this book is practicing ophthalmologists and ophthalmologists in training Other healthcare professionals who need information about medical treatment for glaucoma may also find this book valuable We will provide both evidence based information and clinical experience on antiglaucoma medications and guide the clinician on how to use them for the patient s maximal benefit **Clinical Ocular Pharmacology** Jimmy D. Bartlett, Siret D. Jaanus, 2007-11-12 Written by experts in the field this comprehensive resource offers valuable information on the practical uses of drugs in primary eye care Discussions of the pharmacology of ocular drugs such as anti infective agents anti glaucoma drugs and anti allergy drugs lead to more in depth information on ocular drugs used to treat a variety of disorders including diseases of the eyelids corneal diseases ocular infections and glaucoma The book also covers ocular toxicology focusing on drug interactions ocular effects of systemic drugs and life threatening systemic emergencies A logical organization makes it easy to find essential information Complete coverage of the basic fundamentals of pharmacology such as ocular drug delivery and ocular drug formulations Comprehensive reviews of the pharmacology of specific classes of agents such as the cycloplegics antiglaucoma drugs anti inflammatory drugs ocular irrigating solutions and contact lens care products In depth information on ocular drugs used in clinical practice including chapters on drugs used to treat eyelid disorders lacrimal diseases conjunctiva diseases corneal diseases allergies uveitis postoperative cataract retinal diseases and glaucoma Coverage of ocular toxicology including drug interactions ocular effects of systemic drugs and life threatening systemic emergencies Completely revised and updated content that reflects the latest advances in pharmacology Updated information on post operative drugs including LASIK follow up medications Expanded coverage in the chapters on Anti infective Drugs Anti allergy Drugs and Decongestants and Lubricants and Other Preparations of Ocular Surface Disease that includes the latest advancements in antibiotics and medications used to treat allergies and dry eye A dosage quick reference guide on the inside front cover for quick and easy access Information on the use of herbal medications **Glaucoma: New**

Insights for the Healthcare Professional: 2013 Edition ,2013-07-22 Glaucoma New Insights for the Healthcare Professional 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Diagnosis and Screening The editors have built Glaucoma New Insights for the Healthcare Professional 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Diagnosis and Screening 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 Glaucoma New Insights for the Healthcare Professional 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>

Pharmacologic Therapy of Ocular Disease Scott M. Whitcup,Dimitri T. Azar,2017-06-05 There have been major advancements in the pharmacologic treatment of eye diseases over the past decade With newly discovered disease targets and novel approaches to deliver therapeutic compounds to the eye patients are seeing improved outcomes Not only are there better treatments for diseases where treatments existed we now have effective therapy for previously untreatable and blinding eye disorders This volume will cover the pharmacologic treatment of eye diseases from the front of the eye including eyelids conjunctiva and cornea all the way back to the retina and optic nerve The first section of the volume reviews general principles of ocular pharmacology pharmacokinetics pharmaceutical sciences and drug delivery In addition the volume provides an up to date guide to the pharmacologic approach to the key eye diseases that threaten sight or ocular function

Veterinary Pharmacology and Therapeutics Jim E. Riviere,Mark G. Papich,2017-11-29 Veterinary Pharmacology and Therapeutics Tenth Edition is a fully updated and revised version of the gold standard reference on the use of drug therapy in all major veterinary species Provides current detailed information on using drug therapies in all major domestic animal species Organized logically by drug class and treatment indication with exhaustive information on the rational use of drugs in veterinary medicine Includes extensive tables of pharmacokinetic data products available and dosage regimens Adds new chapters on pharmaceuticals ophthalmic pharmacology food animal pharmacology and aquatic animal pharmacology Includes access to a companion website with the figures from the book in PowerPoint *Glaucoma* Pinakin Guntant

Davey,2023-09-13 Glaucoma is the leading cause of irreversible blindness Glaucoma is challenging to treat and poses a significant socioeconomic burden on society New techniques and methods for both diagnosis and treatment are sorely needed Glaucoma Recent Advances and New Perspectives provides a comprehensive overview of glaucoma with chapters on topics ranging from diagnostic techniques to genetic testing and biomarkers **Glaucoma, Applied Pharmacology in**

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Ritch,M. Bruce Shields,Theodore Krupin,1996 **National Library of Medicine Current Catalog** National Library of

Medicine (U.S.),1993 *Introduction to Clinical Pharmacology - E-Book* Constance G. Visovsky,Cheryl H. Zambroski,Shirley M. Hosler,2023-12-18 Learn the principles of pharmacology and administer drugs safely Introduction to Clinical Pharmacology 11th Edition provides the essential information that LPNs and vocational nurses need to administer medications in all practice settings It shows how drugs and drug classes work so you can understand why drugs are given and evaluate the expected response as well as side effects and adverse effects In each drug category an overview of the nursing process outlines the nurse s role when administering drugs This edition includes a new Drugs for Cancer Treatment chapter and Get Ready for the Next Generation NCLEX Examination case studies and questions to help you prepare for the newest version of the NCLEX exam Written by an experienced team of authors led by Dr Constance G Visovsky this book is the only pharmacology text designed specifically for LPN LVNs Ideal scope of content and readability for LPN LVN programs provides illustrated need to know pharmacology information and includes a new Drugs for Cancer Treatment chapter A focus on drug categories helps you understand the actions and uses of drug classes and provides a framework for safe effective practice as new drugs are introduced to the market Rationales accompany nursing actions helping you understand why actions or precautions are necessary and to better communicate directions to patients and their families Safety Alert boxes and Black Box Warnings highlight important nursing considerations for safe medication administration and monitoring Lifespan Considerations boxes draw attention to information that is especially important when giving a specific drug to older adults children or pregnant lactating women Get Ready for the Next Generation NCLEX Examination section includes key points review questions and case studies with critical thinking questions to prepare you for the pharmacology questions on the NCLEX PN Exam Top Tips for Safety and Memory Jogger features help you remember key information Online video clips on medication administration procedures provide you with a visual reference for safe drug administration Key terms include definitions and page references to help you improve terminology and language skills before you enter clinical practice NEW Drugs for Cancer Treatment chapter is added to this edition NEW Expanded and refocused chapters include Drugs for Reproductive Health Drugs for Thyroid and Adrenal Problems and Drugs for Osteoporosis NEW High Alert Drugs boxes are added NEW Updated and newly approved pharmaceutical treatments and drugs prepare students for practice covering only the drugs and drug categories that apply to the LPN LVN role NEW Answer key includes end of chapter questions including answers to questions for the Next Generation NCLEX NGN exam *Veterinary Ophthalmology* Kirk N. Gelatt,Gil Ben-Shlomo,Brian C. Gilger,Diane V. H. Hendrix,Thomas J. Kern,Caryn E. Plummer,2021-02-09 Diese vollst ndig aktualisierte und bearbeitete Ausgabe des Standardwerks der veterin rmedizinischen Augenheilkunde pr sentiert die neuesten Diagnose und Therapieverfahren Das Fachbuch deckt die Grundlagenwissenschaften und klinische Behandlungsmethoden ab spiegelt den aktuellen Stand der Forschung wider und besch ftigt sich mit der Augenheilkunde s mtlicher Tierarten darunter Hunde Katzen Pferde Gro tiere und Exoten Augenerkrankungen bei Katzen Pferden und V geln werden noch ausf hrlicher und

anhand von nahezu zweitausend Farbfotos erläutert Dieses Fachbuch ist ein Muss für Veterinärmediziner in der Behandlung von Augenkrankheiten Die 6. Auflage von Veterinary Ophthalmology präsentiert alle Aspekte der Diagnose, Behandlung und das Management von Augenkrankheiten relevant sind Zu dieser Auflage gehören auch eine begleitende Website mit Videoclips und Abbildungen aus der Printausgabe im PowerPoint-Format weiterhin das wohl umfassendste Literaturverzeichnis zu dem Fachgebiet Neue Auflage des Standardwerks der Augenheilkunde für Veterinärmediziner Bietet noch mehr Inhalte zu Augenerkrankungen bei Katzen, Pferden und Vögeln Mit mehr als 2000 Farbfotos, die die Inhalte verdeutlichen Die Autoren sind international renommierte Experten des Fachgebiets Begleitende Website mit Videoclips und Bildermaterial im PowerPoint-Format zum Herunterladen Die 6. Auflage von Veterinary Ophthalmology darf in der Handbibliothek von Fachtierärzten mit Spezialisierung auf Augenheilkunde und Veterinärmediziner, die Augenerkrankungen behandeln, nicht fehlen

Handbook of Ophthalmology Amar Agarwal, 2006 The Handbook of Ophthalmology is a pocket size ready reference book that is a compact review of diagnostic eye disorders Presented in an outline format the detailed information inside this resource for ophthalmic conditions is perfect for everyone involved with ophthalmology from residents to advanced surgeons The Handbook of Ophthalmology edited by Dr Amar Agarwal contains detailed information for each eye disorder including etiology, classic signs, symptoms, differential diagnosis, work up, risk factors, management, pharmacology and future considerations The user friendly Handbook of Ophthalmology covers all of the essential information on various eye diseases including the surgical aspects of management of the diseases Fifty of ophthalmology's top experts bring detailed information covering the A to Z's of ophthalmology to the pages of this unique and comprehensive book Including volumes of critical information in one compact book students, residents and surgeons alike will want to have a copy of Handbook of Ophthalmology by their side Additional Features Over 200 illustrations and clinical photographs A comprehensive index created using in depth detail for cross referencing and easy diagnosis A detailed but simple guide on ocular therapeutics with dosages and side effects Inside for each eye disorder Etiology Classic signs Symptoms Differential Diagnosis Work up Risk Factors Management Pharmacology Future Considerations

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Canadian Comprehensive Review for the NCLEX-RN Examination - E-Book Linda Anne Silvestri,Angela Silvestri,2021-06-14 Prepare for success on the NCLEX RN exam with the review book written for Canadian nursing students Elsevier's Canadian Comprehensive Review for the NCLEX RN Examination 2nd Edition provides everything you need to prepare for the NCLEX exam complete content review and more than 5 000 NCLEX examination style questions in the book and online Proving that not all NCLEX exam review books are the same only this book includes the kinds of questions that consistently test the critical thinking skills needed to pass today's NCLEX exam In addition all answers include detailed rationales and test taking strategies with tips on how to best approach each question From Canadian editors Patricia Bradley and Karin Page Cutrara and NCLEX review experts Linda Anne Silvestri and Angela Silvestri this edition integrates Canadian approaches to nursing making this the only comprehensive review text written from a fully Canadian perspective It's THE book of choice for NCLEX preparation More than 5 000 practice questions in the text and online offer ample testing practice UNIQUE Detailed test taking strategy and rationale is included for each question offering clues for analyzing and uncovering the correct answer option UNIQUE Priority Nursing Action boxes provide information about the steps you will take in clinical

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Glaucoma, Contemporary International Concepts John Goldfreed Bellows, 1979

IBBO-International Biography and Bibliography of Ophthalmologists and Visual Scientist (A-Z) , 2018-11-30

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