

Snakes Of Medical Importance And Snake Bite Treatment

[#medical importance of snakes](#) [#snake bite treatment options](#) [#venomous snakes medical impact](#) [#snake bite management](#) [#antivenom therapy](#)

Understanding the medical importance of snakes is crucial, especially when considering effective snake bite treatment options. This resource explores the impact of venomous snakes on human health and provides insights into snake bite management and antivenom therapy.

Students can use these lecture notes to reinforce classroom learning or self-study.

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Snakes of Medical Importance and Snake-bite Treatment

The various chapters of this book contain much information on the identification of the dangerous venomous snakes in this region and attempts to review the various aspects of snakebite treatment as practised in the various countries. An ideal method of treatment is suggested and described in the last chapter. Whenever possible, distribution maps, local names, local practices and the instruction sheets enclosed with the antivenom vials are given. The information reflects the exact situation in each country and will hopefully be of help to researchers and medical personnel in planning future strategies concerning snakebite and treatment.

Snakes of Medical Importance

Snakebites are well-known medical emergencies in many parts of the world especially in rural areas. Agricultural workers and children are most affected. The incidence of snakebite mortality is particularly high in South-East Asia. Rational use of snake anti-venom can substantially reduce mortality and morbidity due to snake bites. These guidelines are a revised and updated version of those published in 2011. The geographical coverage extends from India in the west to DPR Korea and Indonesia in the east Nepal and Bhutan in the north and to Sri Lanka and Indonesia in the south and south-east. Snakes inhabiting the Indonesian islands east of Wallace's line (West Papua and Maluku Islands) are part of the Australasian elapid fauna differing from those west of this line. This publication aims to pass on a digest of available knowledge about all clinical aspects of snake-bite to medically trained personnel including medical doctors nurses dispensers and community health workers. They aim to provide sufficient practical information to allow medically trained personnel to assess and treat patients with snake-bites at different levels of the health service.

Guidelines for the Management of Snakebites Second Edition

This book is the first significant contribution to thoroughly examine the potential hazards associated with snakes of the former family, Colubridae. This family contained >65% of living snake species (approximately 3,000 taxa) and has recently been split into multiple families. Many of these snakes produce oral secretions that contain toxins and other biologically-active substances. A large variety of these snakes figure in the pet industry, yet little documented information or formal study of their potential medical importance has been published. Therefore, although the possible medical importance of many of these species has been subjected to speculation since the mid-nineteenth century, there is a limited amount of useful descriptive information regarding the real hazard (or lack thereof) of snakes belonging to this diverse, artificial family. There is a need for "one-stop shopping" offering information regarding their possible toxicity and clinical relevance as well as recommendations for medical management of their bites. This book is the first synthesis of this information and includes evidence-based risk assessment, hazard rankings and specific recommendations regarding important species, many

common in captivity. Fills a gap in the toxinological, medical and herpetological literature by providing a comprehensive review of this entire assemblage of snakes, with particular attention given to their capacity, real or rumored, to cause harm to humans. A patient-centered, evidence-based approach is applied to analyzing documented case reports of bites inflicted by approximately 100 species. Clinical management of medically significant bites from non-front-fanged colubroids is methodically reviewed, and specific recommendations are provided.

Venomous Bites from Non-Venomous Snakes

"Venomous" Bites from "Non-Venomous" Snakes, Second Edition thoroughly examines the potential hazards associated with bites by non-front-fanged snakes (popularly, but inaccurately, called "rear-fanged snakes"). This diverse group contains approximately 80% of living snake species (approximately 2,900 species). A large proportion of these snakes were previously assigned to the family Colubridae but, as a consequence of expanding systematics investigations, have been split into multiple families and subfamilies. Many of these snakes produce venoms or oral secretions that contain toxins and other biologically active substances. A large variety of non-front-fanged snakes figure in the pet industry, yet little documented information or formal study of their potential medical importance has been published. Therefore, although the possible medical importance of many of these species has been subjected to speculation since the mid-19th century, there is a limited amount of useful descriptive information regarding the real hazard (or lack thereof) of this wide variety of snakes. The first edition of this book provided "one-stop shopping" by offering information regarding their possible toxicity and clinical relevance as well as recommendations for medical management of their bites. The second edition expands and updates the content with detailed information about the effects and medical management of bites by a broad representation of non-front-fanged species. The hypothetical venomous nature of some lizards considered as non-venomous such as the Komodo monitor or dragon and their allies, as well as the medical effects of their bites, is also examined. The dynamic taxonomy of advanced snakes is updated, and the bases for some of these fluid changes are discussed. Likewise, terminology is also updated in order to reflect the ongoing debates regarding the definition of "venom" and the balanced reinforcement of nonmedical criteria used to define the biological basis of the term "venomous." Fills a gap in toxicological, medical, and herpetological literature by providing a comprehensive review of this entire assemblage of non-front-fanged snakes, with particular attention given to their capacity to cause harm to humans. Offers a patient-centered, evidence-based approach which is applied to analyzing documented case reports of bites inflicted by a broad representation of species. Provides expanded and updated detailed information on the clinical management of medically significant bites from non-front-fanged snakes, which is also methodically reviewed, and specific recommendations are provided. Includes updates of the fluid taxonomy of advanced snakes and also of terminology with particular regard to the definition of "venom" and the nonmedical criteria used to define the biological basis of the "venomous condition" in snakes and lizards.

Venomous Bites from Non-Venomous Snakes

This book provides detailed and updated knowledge about medically important 'Big Four' venomous snakes of India (Indian spectacled cobra, Indian common krait, Indian Russell's viper, and Indian saw-scaled viper). This book essentially covers the snakebite problem in the world with particular reference to Asia and India. It discusses the evolution and systematics of venomous snakes, emphasizing 'Big Four' venomous snakes of India; the evolution and composition of venoms determined by traditional biochemical and modern proteomic analyses. It also describes the pharmacological properties of enzymatic and non-enzymatic toxins of 'Big Four' venomous snakes of India. Different chapters discuss exciting topics such as species-specific and geographical differences in venom composition and its impact on pathophysiology and clinical manifestations of snakebite envenomation in India, biomedical application of Indian snake venom toxins; production and quality assessment of commercial antivenom, prevention, and treatment of snakebite in India, adverse effects of antivenom including strategies to combat antivenom reactions inpatient. This book caters to toxinologists, pharmacologists, zoologists, antivenom manufacturers, biochemists, clinicians, evolutionary biologists, herpetologists, and informed non-specialists interested to know about the Indian snake venoms.

Venomous Bites from Non-Venomous Snakes: A Critical Analysis of Risk and Management of Colubrid Snake Bites

Clinical toxinologic conditions are becoming increasingly frequent, more so than is generally recognized. The conditions comprise of clinical aspects such as the diagnosis, management, and prevention of snakebite envenoming, scorpion sting, mushroom toxins, plant toxins, and other natural toxins. Clinical toxinology also deals with the ecology, epidemiology, regional differences, and varieties of fauna accounting for different envenoming manifestations. This handbook includes 30 chapters addressing various topics on clinical toxinology such as the epidemiology and management of snakebites in different Asian and African countries, disability following snakebite, effect of snake venoms on hemostasis, socioeconomic aspects of snakebites, therapeutic application of snake venom, scorpion sting in the Middle East, jellyfish sting, etc. These titles are written by experts currently working in the subspecialty, many of whom have first-hand experience in the relevant research fields. In virtually all the topics, appropriate illustrations are provided to simplify comprehension including tables, figures and pictures. This reference work on Clinical Toxinology in Asia Pacific and Africa, in the Toxinology handbook series, is designed to keep readers abreast with new knowledge and experience in toxinology regionally and globally. Toxinologists, researchers, scientists, and experts in this field from various working areas considered it necessary to collect all the aspects of clinical toxinology in a single, handy handbook. This can be used by medical students, postgraduate students, general practitioners, specialists in internal medicine, critical care physicians, emergency physicians, and anesthetists worldwide.

The 'Big Four' Snakes of India

Australia's venomous snakes are widely viewed as the world's most deadly and are regarded with cautious curiosity, fascination and, regrettably, fear. Australia's Dangerous Snakes examines the biology, natural history, venom properties and bite treatment of medically important venomous marine and terrestrial snakes. It contains comprehensive identification profiles for each species, supported by keys and photographs. In addition to their medical importance, the environmental roles of these snakes and the threats that are causing the decline of many of these reptiles are discussed. Drawing on the authors' experience in the fields of herpetology, toxinology and clinical medicine, this book stimulates respect and admiration and dispels fear of Australia's fascinating snakes. Australia's Dangerous Snakes will provide hours of rewarding reading and valuable information for anyone interested in Australia's unique wildlife and natural history, and will be an essential reference for herpetologists, toxinologists, physicians, zoo personnel and private snake collectors.

Clinical Toxinology in Asia Pacific and Africa

This publication aims to provide useful information mainly to those who must diagnose and treat people envenomed by snakes, and to pass on a compilation of available knowledge about all clinical aspects of snakebite to medically trained crew. It is a good source of comprehensive information about essential drugs for snakebite treatment - specific antidotes to the snake venoms, particularly the one that is produced today in the United States. The reader can use the knowledge in this book to the advantage of ones who need it - snakebite victims. This book contains information obtained from authentic and highly regarded sources. Systematic reviews of available updated literature, expert opinions, results of recent clinical studies as well as our own experience were used.

Australia's Dangerous Snakes

Originally published in 1962, and fully updated and colorized by Scott Shupe, Poisonous Snakes of the World is the perfect practical guide to not only snake bite survival, but to understand and identifying every venomous snake on the planet. Even if no life hangs in the balance, this manual is a great reference guide for the outdoors enthusiast, the reptile lover, or anyone with a thirst for pragmatic, how-to knowledge. With this comprehensive edition, you will be armed with one of the most thorough volumes available for dealing with these incredible reptiles, including definitive advice on: Precautions to avoid snake bites. Identifying the symptoms and signs of snake venom poisoning. First-Aid and medical treatments. Recognizing poisonous snakes. Indigenous species to various regions around the world. Sources of Antivenin. Snakes can be among some of the most deadly creatures on the planet. They are also extremely fascinating, and by taking the proper precautions, can be enjoyed and appreciated. From the Monocle Cobra to the Gaboon Viper, learn to fear and respect these incredible reptiles.

Management of Snakebites

Snakes play a very important role in our ecosystem, helping to balance the food web and maintain biodiversity on Earth. This book highlights the extreme ecological importance of snakes with chapters on snake venom and its therapeutic potential and the ecology of some selected snake species.

Venomous Snakes of the World

This is a comprehensive monograph on the problems of intoxication incurred by snake venom. This publication is primarily intended for those at all levels of health care, for members of rescue teams, surgeries and emergency hospitals, as well as specialised workplaces and intensive care units. Providing didactic instructions for first aid and treatment procedures, information is also presented on venomous snakes, the fundamentals of their morphology and behaviour, snakebite prevention, the composition of snake venom, symptoms of envenoming, plus first aid in the event of snakebite for non-professionals, travellers, terrain biologists, and breeders. This book features an updated alphabetical list of types and sub-types of all venomous snakes, including their home ranges, as well as a comprehensive index, list of abbreviations, glossary, and colour picture insert with one hundred photographs of venomous snakes.

Medical Management of Snakebite in Namibia

Nephrology is one of the fastest growing specialties in medicine. Nevertheless, kidney disease is one of the most serious unmet health needs in many countries. To provide healthcare access with the desirable equity worldwide, the nephrology community needs to discuss this public health issue and take part in decisions for elaboration of public health policies with more justice and equity. This book brings together key current public health problems that affect kidney function and illuminates them in contributions by an international group of nephrologists and general practitioners. The chapters review current knowledge and provide guidelines to manage these conditions and decrease the disease burden. At the end, developments in the digital era and their application to kidney disease treatment are synthesized, and a broader outlook on the future of nephrology is given. Ultimately, the publication aims to gather nephrology and public health expertise from researchers from all over the world, providing a broad vision of issues that must be discussed and overcome to guarantee a better treatment for patients with kidney diseases in the world today.

Snake Venom and Ecology

The ultimate guide to the evidence-based clinical encounter "This book is an excellent source of supported evidence that provides useful and clinically relevant information for the busy practitioner, student, resident, or educator who wants to hone skills of physical diagnosis. It provides a tool to improve patient care by using the history and physical examination items that have the most reliability and efficiency."--Annals of Internal Medicine "The evidence-based examination techniques put forth by Rational Clinical Examination is the sort that can be brought to bear on a daily basis – to save time, increase confidence in medical decisions, and help decrease unnecessary testing for conditions that do not require absolute diagnostic certainty. In the end, the whole of this book is greater than its parts and can serve as a worthy companion to a traditional manual of physical examination."--Baylor University Medical Center (BUMC)Proceedings 5 STAR DOODY'S REVIEW! "Physical diagnosis has been taught to every medical student but this evidence-based approach now shows us why, presenting one of medicine's most basic tenets in a new and challenging light. The format is extraordinary, taking previously published material and updating the pertinent evidence since the initial publication, affirming or questioning or refining the conclusions drawn from the data. "This is a book for everyone who has studied medicine and found themselves doubting what they have been taught over the years, not that they have been deluded, but that medical traditions have been unquestionably believed because there was no evidence to believe otherwise. The authors have uncovered the truth." "This extraordinary, one-of-a-kind book is a valuable addition to every medical library."--Doody's Review Service Completely updated with new literature analyses, here is a uniquely practical, clinically relevant approach to the use of evidence in the content of physical examination. Going far beyond the scope of traditional physical examination texts, this invaluable resource compiles and presents the evidence-based meanings of signs, symptoms, and results from physical examination maneuvers and other diagnostic studies. Page after page, you'll find a focus on actual clinical questions and presentations, making it an incomparably practical resource that you'll turn to again and again. Importantly, the high-yield content of The Rational Clinical Examination is significantly expanded and updated from the original JAMA articles, much of it published here for the first time. It all adds up to a definitive, ready-to-use clinical

exam sourcebook that no student or clinician should be without. **FEATURES** Packed with updated, new, and previously unpublished information from the original JAMA articles Standardized template for every issue covered, including: Case Presentation; Why the Issue Is Clinically Important; Research and Statistical Methods Used to Find the Evidence Presented; The Sensitivity and Specificity of Each Key Result; Resolution of the Case Presentation; and the Clinical Bottom Line Completely updated with all-new literature searches and appraisals supplementing each chapter Full-color format with dynamic clinical illustrations and images Real-world focus on a specific clinical question in each chapter, reflecting the way clinicians approach the practice of evidence-based medicine More than 50 complete chapters on common and challenging clinical questions and patient presentations Also available: JAMAevidence.com, a new interactive database for the best practice of evidence based medicine

Snakebite & Spiderbite

The 10 year old Author's words "Every Snake bite death should matter to us because every person's life is worth saving" echoes throughout this book, in beautifully illustrated photographs by the author himself and insightful snake bite prevention guidelines. This Snake bite prevention book, dedicated to the "Voiceless Victims of Snake Bite\

Snake Bites and Their Treatment

This eBook examines the ten most venomous snakes in Australia. It provides a direct analysis of each snake's behavioral patterns, venom toxicity, and danger posed to humans.

Venomous Snakes

The Subtle Beast: Snakes, from Myth to Medicine introduces you to the complex and absorbing world of these mysterious creatures. Each of the fourteen chapters in this volume can be read independently, but read together they trace a fascinating journey from the macroscopic features of snakes to the molecular description of their venom components.

Nephrology and Public Health Worldwide

Snake-bites are well-known medical emergencies in many parts of the world, especially in rural areas. Agricultural workers and children are the most affected. The incidence of snake-bite mortality is particularly high in South-East Asia. Rational use of snake anti-venom can substantially reduce mortality and morbidity due to snake bites. These Guidelines are a revised and updated version of similar guidelines published by the WHO Regional Office in South-East Asia in 1999. These guidelines aim to promote the rational management of snake-bite cases in various health facilities where trained health functionaries and quality snake antivenom are available.

Snake Venom Poisoning

The purpose of this book is to highlight the potentially dangerous species to humans, with a list of the main potentially medically significant snakes. It is important to note that if a species is not listed below, it does not necessarily mean that it does not exist in Malaysia nor that its bite cannot cause harmful effects in humans. In particular, the list of colubrid (non-front-fanged) snakes has been selective, to include only a number known to be of potential medical significance. It is also important to note that a poor surveillance of the pet trade and irresponsible importation of exotic snakes may introduce a medically significant species, which is not indigenous to Malaysia. This may add to the complexity of managing envenomings in this country.

The Rational Clinical Examination: Evidence-Based Clinical Diagnosis

Neuromuscular Disorders presents a multi-disciplinary approach to the management and therapeutic treatment of the full range of neuromuscular disorders and resulting complications. Dr. Tulio Bertorini and a contributing team of the world's leading authorities in the field provide the latest tools and strategies for minimizing disability and maximizing quality of life. Effectively treat your patients using the latest management tools and targeted therapeutic strategies. Manage all neuromuscular disorders as well as resulting complications through comprehensive coverage of diagnosis and evaluations, treatments, and outcomes. Apply the multi-disciplinary approach of an expert in clinical neuromuscular

care and a team of world-renown contributors. Easily refer to tools for diagnosis, treatment algorithms, and drug tables included throughout the text.

Snake Bite Prevention: India's 4 Common Venomous Snakes: PREVENTING DEATH - DISABILITY - DISFIGUREMENT

This book focuses on the topic of snake poison and its effects on the human body. The book provides a historical review of snake venom research, detailing the developments and breakthroughs in understanding its actions. It also explores the different types of snake poison and their effects, as well as the necessary steps for administering the antidote. The book includes case studies that demonstrate the importance of prompt action in treating snake bites, and offers practical advice on how to prevent and manage such incidents.

The Top 10 Most Venomous Snakes in Australia

Snake bites are a major health concern, especially in tropical countries. Understanding the pathology of envenomation and chemical composition of snake venoms is important in the development of medical countermeasures (including, but not limited to, antivenoms). Furthermore, snake venoms can be considered natural "combinatorial libraries" of proteins and peptides. Thus, it is not surprising that components of snake venom have been found extensively useful in biomedical research as well as clinical use for treating diseases as diverse as cancer and muscle pain. In this book, well-known scientists from the Americas, Asia, and Europe discuss recent trends and outlooks in regards to snake venom research. A distinctively broader coverage of the subject is given, with topics ranging from protein biochemistry to pathology. Several chapters highlight protein biochemistry and enzymology of snake venoms, immune response to envenomation and antivenoms, production and use of snake venom components as antigens for antivenom preparation, and the therapeutic value of snake venom components in the treatment of various diseases. A comprehensive and authoritative monograph, this book will be equally interesting to both established researchers and graduate students interested in toxinology and pathology of envenomation.

The Snakes of South Africa

This book provides detailed and updated knowledge about medically important 'Big Four' venomous snakes of India (Indian spectacled cobra, Indian common krait, Indian Russell's viper, and Indian saw-scaled viper). This book essentially covers the snakebite problem in the world with particular reference to Asia and India. It discusses the evolution and systematics of venomous snakes, emphasizing 'Big Four' venomous snakes of India; the evolution and composition of venoms determined by traditional biochemical and modern proteomic analyses. It also describes the pharmacological properties of enzymatic and non-enzymatic toxins of 'Big Four' venomous snakes of India. Different chapters discuss exciting topics such as species-specific and geographical differences in venom composition and its impact on pathophysiology and clinical manifestations of snakebite envenomation in India, biomedical application of Indian snake venom toxins; production and quality assessment of commercial antivenom, prevention, and treatment of snakebite in India, adverse effects of antivenom including strategies to combat antivenom reactions inpatient. This book caters to toxinologists, pharmacologists, zoologists, antivenom manufacturers, biochemists, clinicians, evolutionary biologists, herpetologists, and informed non-specialists interested to know about the Indian snake venoms. .

The Subtle Beast

An essential guide to identifying all dangerous snakes and common harmless snakes in southern Africa, as well as quick and important practical advice on first aid measures in the case of snakebite. Simple icons, distribution maps, succinct text and numerous full-colour photographs assist with easy identification of snakes commonly encountered in the region. Symptoms and treatment of snakebites are described, providing the reader with vital first-aid information. Clear, practical and easy-to-use, *Snakes and Snakebite in Southern Africa* will prove invaluable to all those with outdoor interests.

Poisonous Snakebites in the United States

This handbook addresses various topics on clinical toxinology such as the epidemiology and management of snake and insect bites in Australia and different countries in Europe and the Americas. Chapters will be written by experts currently working in the subspecialty, many of whom have first-hand

experience in the relevant research fields. In virtually all the topics, appropriate illustrations are provided to simplify comprehension including tables, figures and pictures. Clinical toxicologic conditions are becoming increasingly frequent, more so than is generally recognized. The conditions comprise of clinical aspects such as the diagnosis, management, and prevention of snakebite envenoming, scorpion sting, mushroom toxins, plant toxins, and other natural toxins. Clinical toxicology also deals with the ecology, epidemiology, regional differences, and varieties of fauna accounting for different envenoming manifestations. This reference work, part of the Toxicology handbook series, is designed to keep readers abreast with new knowledge and experience in toxicology regionally and globally. Toxicologists, researchers, scientists, and experts in this field from various working areas considered it necessary to collect all the aspects of clinical toxicology in a single, handy handbook. This can be used by medical students, postgraduate students, general practitioners, specialists in internal medicine, critical care physicians, emergency physicians, and anesthetists worldwide.

Guidelines for the Management of Snake-bites

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Land Snakes of Medical Significance in Malaysia

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Plant Toxins

Know what the experts know and incorporate it into your daily practice with the #1 annual guide to internal medicine INCLUDES 7 ONLINE-ONLY CHAPTERS AT NO ADDITIONAL COST! Visit: www.AccessMedicine.com/CMDT A Doody's Core Title for 2019! Written by clinicians renowned in their respective fields, CMDT offers the most current insight into epidemiology, symptoms, signs, and treatment for more than 1,000 diseases and disorders. For each topic, you'll find concise, evidence-based answers to questions about hospital and ambulatory medicine. This streamlined clinical companion is the fastest and easiest way to keep abreast of the latest diagnostic advances, prevention strategies, and cost-effective treatments. Features and content critical to clinical practice: •Strong emphasis on the practical aspects of clinical diagnosis and patient management in all fields of internal medicine •Full review of all internal medicine and primary care topics, including gynecology and obstetrics, dermatology, neurology, ophthalmology, geriatrics, and palliative care •Update of newly emerging infections and their treatments •Specific disease prevention information •Hundreds of medication tables, with indexed trade names and updated prices – plus helpful diagnostic and treatment algorithms •Recent references with PMID numbers •Full-color photographs and illustrations (many new to this edition) HERE ARE SOME OF THE MANY UPDATES AND ADDITIONS: •Revised section on pain management at the end of life •Updated ACC/AHA guidelines for treatment of valvular disease •New ACC/AHA and Hypertension Canada blood pressure guidelines •New FDA approved medications for treatment of breast cancer •New colon cancer screening recommendations from the U.S. Multi-Society Task Force •Acclaimed annual update of HIV/AIDS •New classification of epilepsy •Revised recommendations for treating hepatitis C virus-associated kidney disease •Revised chapter on psychiatric disorders •New FDA approved medication for gastric adenocarcinoma •Updated information about treating spinal muscular atrophy

Presenting a synthesis of the principal discoveries on venoms and envenomations, this text describes the paleontology and classification of snakes as well as the biochemistry and toxicology of venoms to explain the theoretical basis of the envenomation and its treatment.

On Snake-Poison: Its Action and Its Antidote

In recent years, the field of Toxinology has expanded substantially. On the one hand it studies venomous animals, plants and micro organisms in detail to understand their mode of action on targets. While on the other, it explores the biochemical composition, genomics and proteomics of toxins and venoms to understand their three interaction with life forms (especially humans), development of antidotes and exploring their pharmacological potential. Therefore, Toxinology has deep linkages with biochemistry, molecular biology, anatomy and pharmacology. In addition, there is a fast developing applied subfield, clinical toxinology, which deals with understanding and managing medical effects of toxins on human body. Given the huge impact of toxin-based deaths globally, and the potential of venom in generation of drugs for so-far incurable diseases (for example, Diabetes, Chronic Pain), the continued research and growth of the field is imminent. This has led to the growth of research in the area and the consequent scholarly output by way of publications in journals and books. Despite this ever growing body of literature within biomedical sciences, there is still no all-inclusive reference work available that collects all of the important biochemical, biomedical and clinical insights relating to Toxinology. The Handbook of Toxinology aims to address this gap and cover the field of Toxinology comprehensively.

Snake Venoms and Envenomation

There is a paradigm shift in plastic and reconstructive surgery from the interest of developing new surgical techniques into the application of new technologies via research based studies on stem cells, tissue engineering and new field of reconstructive transplantation such as e.g. face, hand or larynx transplants. This approach is relatively novel and introduced to plastic surgery within past decade. Thus there is an urgent need to facilitate access to this new knowledge which was not traditionally a part of plastic surgery curriculum. The most efficient way of introducing these new approaches is via presentation of pertinent to different fields (stem cell, transplantation, nerve regeneration, tissue engineering) experimental models which can be used as a tool to develop technologies of interest by different groups of surgeons. These surgical specialities which will be interested and benefit from the book include: plastic and reconstructive surgeons, microsurgeons, hand surgeons, orthopaedic surgeons, neurosurgeons and transplant surgeons.

The 'Big Four' Snakes of India

Snakes, is one of the creatures in the world that is greatly studied. A creature that somewhat is fascinating for the humans. Many books and documentaries are made on snakes. Even some people have snakes as their pet, a very dangerous being to be made a pet, but these are the people who are not afraid of them. Do you think of snakes as a fatal animal? Do you think snakes only kill people? Do you feel that snakes are only harmful and should not exist anymore? Of course, every other person thinks the same but do you that this fatal creature help us in healing many diseases. We know that the snake's skin is used in our clothing and the snake texture is really liked by people but snakes' skin is also useful for medical purposes. Yes, you heard me right. The snakes help us in treating various maladies. Snake venom are actually the poisonous secretions that are secreted by the oral glands and the fangs of the snakes. It has been discovered that the snakes' secreted venom is composed of certain elements which help in the healing process. On deeper analysis and research, the snakes' venom are actually collected and injected for the medical purposes

Snakes & Snakebite in Southern Africa

Clinical Toxinology in Australia, Europe, and Americas