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**Medicine - October 2018**

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Food and Beverage Consumption and Health

# Fruit and Vegetable Consumption and Health



**Noboru Motohashi**  
Editor

NOVA

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&  
Health

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Health & Disease

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Treatments

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Clinical Developments

Cell Biology  
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Disability Studies

Emergency & Intensive  
Care Medicine

Food & Beverage  
Consumption & Health

Health Care in  
Transition

Herbs & Herbalism

Immunology & Immune  
System Disorders

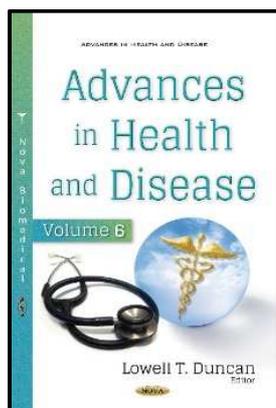
Medical Procedures,  
Testing & Technology

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### Advances in Health and Disease Volume 6

Edited by Lowell T. Duncan

The different anticoagulant drugs used both in the treatment and prevention of deep venous thrombosis can cause several adverse effects. The most significant complication is bleeding. In *Advances in Health and Disease. Volume 6*, the authors begin by examining how to choose the most appropriate drug for decreasing the risk of bleeding, taking into account the characteristics of each of these drugs as well as those of the patient.

The authors go on to discuss infectious mononucleosis, also known as kissing disease, which is characterized by the classic triad of fever, pharyngitis, and cervical lymphadenopathy, where lymphocytosis and atypical lymphocytes are also present. The classic test for infectious mononucleosis is the demonstration of heterophile antibodies. Monospot test, a qualitative test using the latex agglutination technique, is the most widely used method to detect the serum heterophile antibodies of infectious mononucleosis.

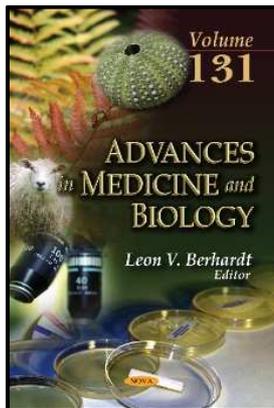
Next, this collection presents the current knowledge on pro- and anticoagulation mechanisms in kidney diseases, as well as the authors' experiences in the treatment of both conditions in different clinical subsets: glomerular, tubulo-interstitial and genetic renal diseases, in infectious diseases and illicit substance abuse with renal involvement and in some immunological inflammatory diseases with renal involvement.

Later, the authors propose that epigallocatechin-3-gallate (EGCG), a catechin found in green tea, can prevent vascular endothelial cell injury and dysfunction. EGCG has an antioxidant effect in vascular endothelial cells and induces nitric oxide (NO) production by promoting endothelial NO synthase expression. The effects of EGCG might help to prevent arteriosclerosis in its early stages. However, detailed mechanisms of the preventive action of EGCG and its molecular targets on endothelial dysfunction remain elusive. Thus, this review explores the results of studies that investigated the effects of EGCG from green tea on the prevention of vascular endothelial dysfunction during the early stages of arteriosclerosis.

This compilation also examines the Human Immunodeficiency Virus (HIV), which has become a stumbling stone in the progress of human civilization. With congruence to whole world, Bangladesh has also been experiencing the epidemic since mid-1980. This collection provides a review regarding the prevalence of routine surveillance among the population considered "at risk" for HIV infection, as well as the national policy to prevent the HIV epidemic in Bangladesh. In a subsequent review, the authors examine streptozotocin (STZ), a compound that was originally identified in the late 1950s as an antibiotic, and currently is widely used to induce experimental diabetes mellitus. Although STZ has been used in research, there has been no standardization of a well-established protocol. It's important to highlight that STZ has non-specific toxicity, which can contribute to variability in its outcomes. This assessment aims to determine the influence of different protocols of induction of diabetes mellitus with STZ on the effectiveness of the method and possible side effects of this compound.

This book also analyzes 57 relevant papers on the issue of nerve palsy after total hip replacement, and aims to review the pathophysiological data, prevalence, etiology, risk factors, prognosis and prevention of this complication. Nerve palsy after total hip replacement is a rare complication (0.08% to 7.6%).

HB 9781536139518 £217.99 September 2018 Nova Science Publishers 206 pages



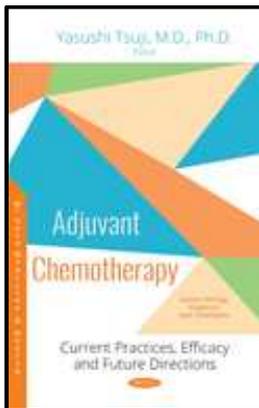
### Advances in Medicine and Biology

Edited by Leon V. Berhardt

In this compilation, the authors open with a discussion on lectins, carbohydrate-binding proteins which are widely present in living organisms and participate in molecular recognition and intracellular functions. Due to their carbohydrate specificity, lectins can be employed as an analytical tool to study glycan structures on glycoconjugates. Plant lectins have also been used to study glycosylation pattern of animal glycoproteins. The first chapter includes a brief review on lectins, a summary of the general information on glycoconjugate, a review on lectin-affinity techniques and their potential, as well as perspectives of the employment of lectins in the estimation of the glycosylation pattern of glycoconjugates. Next, the authors discuss the cytokine interleukin-7 and its many diverse and important functions in the development and maintenance of immune cells. For haematopoiesis, depending on particular cell type, IL-7 is important for cell survival, proliferation and differentiation. The cytokine's receptor is expressed by early progenitors of B, T lymphocytes and Innate Lymphoid Cells, and IL-7 signaling is critical for the generation of these cells. The authors go on to examine enzyme therapy as a modern way of providing better protection for people with coeliac disease and sensitivity to gluten who have been placed solely on a lifelong gluten-free diet. By itself, the gluten-free diet is not always fully protective of the small intestine because small amounts of gluten can be present from contamination and the failure to recognize hidden gluten in food. This chapter explains how certain supplements are able to help those with gluten sensitivity overcome the harmful effects of gluten and reduce the worry about contamination of their food and the lack of knowledge about its gluten content. These supplements represent an important development of the gluten-free diet and will assist in patient management to ensure that patients remain free from the effects of gluten. Later, adrenergic urticarial, a well-defined-yet-neglected variant of urticarial, is discussed. It is characterized by a peculiar clinical picture, with small hives surrounded by white haloes due to local vasoconstriction. Lastly, the authors discuss how abnormalities in physical properties of the cell membranes may be strongly linked to cerebro- and cardiovascular diseases. Recent evidence indicates that increased plasma levels of tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), an inflammatory cytokine, may actively participate in the pathophysiology of endothelial dysfunction, hypertension and other circulatory disorders. The present study was performed to investigate the possible relationships among plasma TNF- $\alpha$ , asymmetric dimethylarginine and membrane fluidity in hypertensive and normotensive subjects using an electron spin resonance (ESR)-spectrometry

**Volume 131** HB 9781536138405 £217.99 June 2018 Nova Science Publishers 239 pages

**Volume 132** HB 9781536139648 £217.99 July 2018 Nova Science Publishers 251 pages



### **Adjuvant Chemotherapy Current Practices, Efficacy and Future Directions**

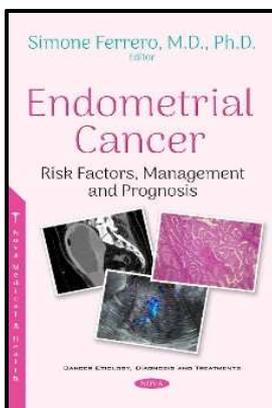
Edited by Yasushi Tsuji

In the age of constant knowledge via computer accessibility, the effort to write a book on adjuvant chemotherapy may seem almost futile. However, the information seen online is usually fragmented, without context, and often somewhat unreliable. This book aims to provide a handy and reliable reference to better understand both the current situation and the future directions in the field of adjuvant chemotherapy. Its ten chapters covering major cancers were written by prominent researchers with decades of experience in clinical settings as well as in related fields of research.

Owing mostly to the development of novel cancer drugs, cytotoxic agents, targeting agents and immune check point inhibitors, the prognosis of all cancers has markedly improved. On the other hand, determining the best way to use these drugs is becoming more and more complicated, and most patients after recurrence are still unlikely to be cured. Carefully planned and meticulously executed surgery, appropriate adjuvant chemotherapy and radiotherapy still play major roles in treatment, and they can significantly increase cure rates, especially in the advanced stages. This book contains a wealth of the latest international data and detailed information assist professionals in making the best possible decisions regarding specific and patient-oriented treatments.

From the general introduction to the principles of adjuvant chemotherapy in chapter one to all the details in the chapters covering specific cancers, we hope this book will inspire veterans in the field with new ideas and help to guide and educate young doctors and researchers, all towards the ultimate goal of providing better care for our patients.

HB 9781536139334 £169.99 September 2018 Nova Science Publishers 296 pages

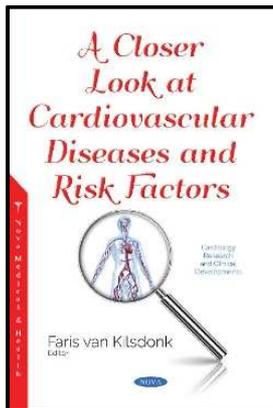


### **Endometrial Cancer Risk Factors, Management and Prognosis**

Edited by Simone Ferrero

Endometrial cancer is the most common gynecological cancer and the sixth cause of cancer in developed countries. The findings that EC is a heterogeneous group of tumors with distinct risk factors and histopathological features, together with our improved understanding of its molecular mechanism has paved the way to the investigation of new surgical and medical therapies. The aim of this book is to give a complete overview on risk factors, pre-operative methods and management of endometrial cancer. The authors hope that this book will be a useful tool for any health provider involved in gynecological cancer care.

HB 9781536138870 £169.99 July 2018 Nova Science Publishers 282 pages

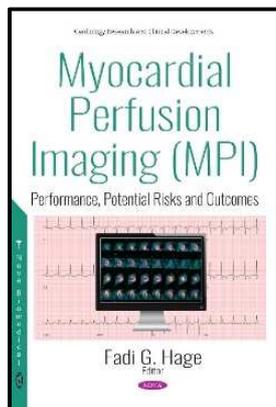


### **A Closer Look at Cardiovascular Diseases and Risk Factors**

Edited by Faris van Kilsdonk

In recent decades, obesity levels have increased worldwide, thus also increasing the prevalence of morbid obesity. This type of obesity is associated with a large number of comorbidities that increase the mortality risk of the patients who suffer it. In this compilation, the authors examine treatment options for this type of population. Bariatric surgery has proven to be an effective method, generating large weight reductions and improving cardiovascular risk factors, thus increasing the life expectancy of patients who undergo it. However, this surgery also has certain disadvantages. In recent years, several studies have also determined that performing exercise at high intensities and adding resistance training to an exercise program generates greater losses of fat mass and reductions in cardiovascular risk factors compared to traditional recommendations. Additionally, endothelial dysfunction is a well-described precursor to the development of clinically overt coronary and peripheral artery disease and is present early in the course of the disease. It reflects not only the global atherosclerotic status, but also the degree of rigidity of the whole artery system. The measurement of endothelial function could therefore represent an additional prognostic marker of cardiovascular risk. The authors stress the necessity to find methods that could evaluate the endothelial function in an easier and less invasive way. Following this, the authors review the relationship between cardiovascular risk factors, systemic circulatory diseases and inner ear disorders, particularly focusing on the involvement of cardiovascular factors in the pathogenesis of sudden sensorineural hearing. The inner ear may be impaired by vascular affections since it is supplied by a terminal blood flow and has a sustained metabolic activity. It has been reported that the function of labyrinthine vessels can be influenced by several local factors such as perivascular sympathetic innervation, arterial systemic blood pressure and labyrinth liquids pressure ratio, antidiuretic hormone receptors, endothelial dysfunction and ionic transport mechanisms. Next, the current evidence of obesity-related comorbidities is reviewed, along with the cardiovascular risk factor index after different bariatric approaches. Bariatric surgery has been shown to be effective in achieving and maintaining weight change and reducing obesity-related comorbidities. Malabsorptive procedures have been associated with the greatest reduction of cardiovascular risk and the greatest improvement in obesity-related comorbidities. On the other hand, the lowest improvement is seen after restrictive procedures. In conclusion, cardiovascular diseases are the leading cause of death in both men and women. There has been steady decline in mortality from cardiovascular diseases in middle-aged men based on recent data from the National Health and Nutrition Examination Surveys, but for women this rate has remained relatively unchanged. Although there are similarities in most classic risk factors in men and women, the varying implications of these risk factors for both genders are examined.

PB 9781536139396 £82.99 September 2018 Nova Science Publishers 126 pages



## Myocardial Perfusion Imaging (MPI) Performance, Potential Risks and Outcomes

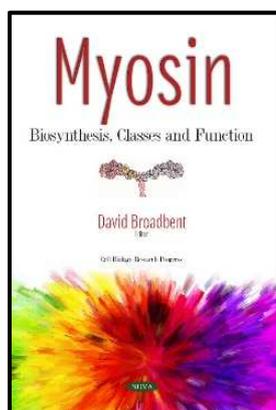
Edited by Fadi Gabriel Hage

Myocardial perfusion imaging (MPI) is the most commonly used non-invasive stress imaging test for the diagnosis and risk stratification of coronary artery disease. Although MPI has been around for decades, recent advances have made possible fundamental changes in the performance of this test. While exercise is the preferred modality of stress with MPI, pharmacologic stress testing can be used when exercise is not an option due to contra-indications or when patients are unable to achieve an adequate level of exercise. MPI provides a wealth of diagnostic and prognostic data encompassing both perfusion and non-perfusion variables that can guide patient management. The non-perfusion data include exercise variables, hemodynamic response to exercise or pharmacologic stress, electrocardiographic changes and left ventricular dyssynchrony. The test is widely used for risk stratification in patients with suspected or known to have coronary disease but has also found special applications in evaluation prior to kidney or liver transplantation.

While stress testing, whether with exercise or pharmacologic stress, it is relatively important to be cognizant of adverse effects that can be encountered in the stress laboratory, especially in high risk and special populations, and to have plans to manage these appropriately. There has been increasing emphasis on the ionizing radiation exposure to patients from medical diagnostic imaging including MPI. It is therefore essential to be aware of novel protocols that can be implemented in day-to-day practice to reduce radiation exposure to patients and staff without adversely affecting the diagnostic quality of the studies.

HB 9781536134766 £200.00 July 2018 Nova Science Publishers 327 pages

## Cell Biology Research Progress

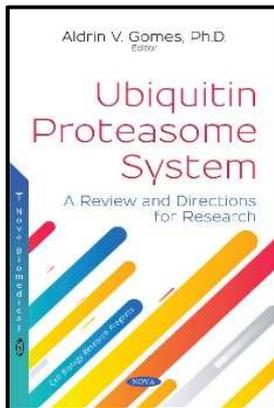


## Myosin Biosynthesis, Classes and Function

Edited by David Broadbent

*Myosin: Biosynthesis, Classes and Function* opens with a discussion on class I myosins, the most varied members of the myosin superfamily and a remarkable group of molecular motor proteins that move actin filaments and produce force. Class I myosin molecules have various physiological roles including maintenance of normal intestinal brush border structure, glucose homeostasis, glomerular filtration, immune function, and tumor promotion and suppression, and new studies are revealing that mutations may lead to diseases including cancer and kidney disease. Thus, the authors review the structure and function of the eight myosin-I isoforms (Myo1a-Myo1h) that are expressed in mammals. Next, the book discusses muscle contractile function and its association with the activity of the protein complex actomyosin, in which myosin exhibits enzyme activity, namely the ability to hydrolyze ATP. The demonstrated ability of calix[4]arenes C-97, C-99, C-90 and thiacalix[4]arenes C-798 and C-800 can be used for further research aimed at the use of these compounds as novel pharmacological agents able to efficiently restore normal contractile function of myometrium by inhibition or activation of this function, or the eliminating negative effects of heavy metal cations. Following this, the authors present the results of their experiments on studying the effects of different isotopes of magnesium and zinc on the enzymatic activity of myosin, namely the catalytic subfragment-1 of myosin, isolated from myometrium muscle. It has been revealed that the rate of the enzymatic ATP hydrolysis is 2–2.5 times higher in the reaction media enriched with the magnetic isotope,  $^{25}\text{Mg}$ , as compared to the activity of the same enzyme in the reaction media enriched with the nonmagnetic isotopes,  $^{24}\text{Mg}$  or  $^{26}\text{Mg}$  or  $\text{MgCl}_2$  of natural isotope abundance. Continuing, precipitation/extraction methods and MALDI TOF/TOF mass spectrometry were used in order to and identify, for the first time, a protein with the molecular mass of 48 kDa as a fragment of human unconventional myosin 1c isoform b in a blood serum of multiple sclerosis patients.

PB 9781536138177 £82.99 June 2018 Nova Science Publishers 171 pages



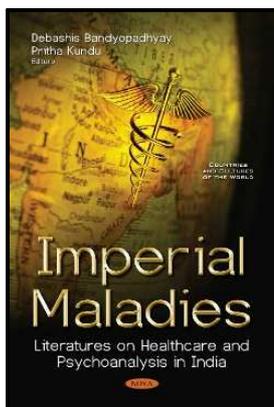
## **Ubiquitin Proteasome System** **A Review and Directions for Research**

Edited by Aldrin V. Gomes

Over the last decade, major advancements in our understanding of the ubiquitin-proteasome system (UPS) have occurred. This book focuses on recent trends in the UPS. The UPS is possibly the most complex of all intracellular pathways – as close to 7% of all genes in the human genome make up part of the UPS. This complex system serves as an essential role in intracellular protein degradation, and because of its critical function, improper functioning of the UPS is associated with nearly all known diseases, including cancer, cardiovascular disease, and neurological diseases. The proteolytic component of the UPS is the proteasome, a multicatalytic complex found in the nucleus and cytoplasm. Another form of the proteasome, the immunoproteasome, is less abundant than the constitutive proteasome, but is important in immune response and degradation of oxidized proteins, and recent research suggests that it may be important in longevity. The articles in this book discuss recent findings which indicate that mutations in proteins involved with the UPS are associated with genetic diseases such as familial dilated cardiomyopathy, Nakajo syndrome, and spinal muscular atrophy (X-linked). Some chapters also discuss recent results which suggest that the UPS is heavily regulated by post-translational modifications such as phosphorylation, acetylation, and methylation. The UPS is also heavily regulated by ubiquitination itself. This book contains a research article using PubMed bibliometric data to present current research trends in the UPS. Articles are written so that no one tissue is emphasized to allow readers from any discipline to benefit from this information.

HB 9781536135183 £169.99 July 2018 Nova Science Publishers 287 pages

## **Countries & Cultures of the World**



## **Imperial Maladies**

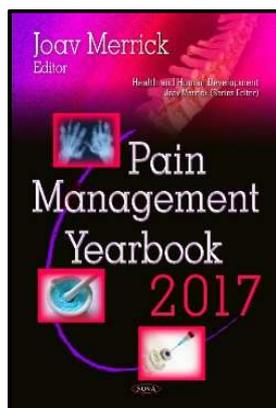
### **Literatures on Healthcare and Psychoanalysis in India**

Edited by Debashis Bandyopadhyay

The thrust-area of this book is the connection between imperial anxieties and tropical health situations along with intriguing psychological questions involving race, politics, gender, history and colonial modernity. For a long time, the focus has largely been Eurocentric: the effects of European medicine and healthcare policies introduced to the sub-continental colonies have been viewed in relation to the strategies of governing the colonial subjects. David Arnold's *Colonising the Body* considers the State's role in introducing European medicine as instrumental to the British imperial project in India. In literary representations, especially in the Late Victorian and early twentieth century fiction and memoirs by Rudyard Kipling, Philip Meadows Taylor, Flora Annie Steel and George Orwell, we have several pictures of a palliative, medically-oriented imperialism. Waltraud Ernst's *Mad Tales of the Raj* (1998) and Christiane Hartnack's *Psychoanalysis in Colonial India* (2001) offer thoughtfully documented analyses of the early developments of psychology and psychotherapy in colonial India. Indian medical historians like Poonam Bala and Projit Mukharji question the tendency of looking at western medicine only in terms of monopoly and power. However, the question of "Indianness" in psychoanalytic philosophy, trying to understand how the East hopes to locate Western psychoanalysis in a post-therapeutic journey, or how the anti-Oedipal or an-Oedipal manifests itself in Indian cultures of psychoanalysis, still remains an area demanding further attention. The present volume seeks to understand such problems in colonial, medical and psychoanalytic discourses, from perspectives that are broadly interdisciplinary yet chiefly based on literary, historical and cultural studies. Containing fourteen chapters, this book hopes to succeed in exploring the medical and fictional literatures of colonial and postcolonial India, both in English and other Indian languages. The book is divided into such sub-themes as: Psychoanalysis, psychopathology and the aesthetics of malady; Literature, medicine and healthcare in colonial India; Historical Studies; Studies in popular fiction: sensational psychiatry; Medicine, gender and colonial modernity.

PB 9781536139310 £77.99 June 2018 Nova Science Publishers 265 pages

## Disability Studies Series



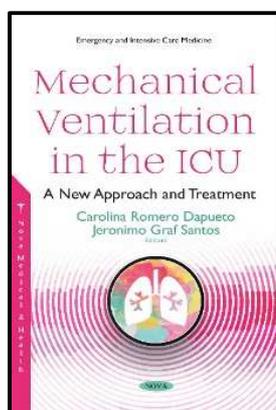
### **Pain Management Yearbook 2017**

Edited by Joav Merrick

In this yearbook for 2017 we present you with some of the latest research on pain management. We start out with a section on psychosocial and ethical issue in cancer care. Then we move into issue on palliative care in cancer and then a whole section on biomarkers in oncology. The last section is about the use of medical cannabis in cancer care, relieving various symptoms and the use in people with post-traumatic stress syndrome. We hope that you as the reader will find the information of interest and useful in your work and research.

HB 9781536136937 £234.99 June 2018 Nova Science Publishers 579 pages

## Emergency & Intensive Care Medicine



### **Mechanical Ventilation in the ICU**

#### **A New Approach and Treatment**

Edited by Carolina Romero Dapueco, Jeronimo Graf Santos

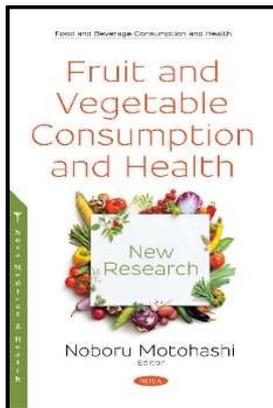
In the present book, a broad description of the processes carried out in patients with mechanical ventilation in the ICU is made. It covers from an overview of mechanical ventilation and some of its history to the processes of weaning and extubation. The novelty of this publication is that it focuses only on the conditions or complications in which patients are vented, as currently is done with these patients in the ICU: Early mobilization, both cooperative and non-cooperative patients with mechanical ventilation, the use of non-invasive ventilation, the adjunctive treatments of mechanical ventilation (such as inhalation therapy in different types of ventilation), and finally ethical issues in both adult and pediatric patients involved in the use of mechanical ventilation with respect to the end of treatment. Moreover, a categorization system for ICU patients and mechanically for narrowing the care burden and optimizing treatment based on an array of ventilation assessment scales is proposed.

This book addresses aspects and treatments from a multidisciplinary point of view, performed by physiotherapists and respiratory therapists for the management of patients with mechanical ventilation in the ICU, which provides a new horizon with respect to the treatment and the way of approaching these patients. It goes beyond medical management to propose a functional and early point of view around the detection of the use of mechanical ventilation, its differentiated use in different types of pathologies and patients, and the suspension of therapy when necessary.

This publication encourages the investigation of non-common aspects of mechanical ventilation, in order to approach patients not only from a medical point of view, but also from a more translational one.

HB 9781536139129 £139.99 July 2018 Nova Science Publishers 199 pages

## Food & Beverage Consumption & Health



### **Fruit and Vegetable Consumption and Health New Research**

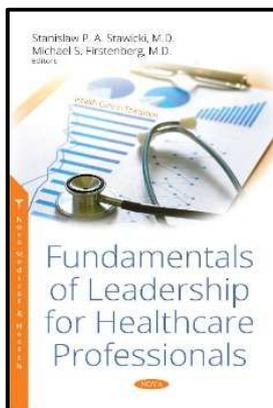
Edited by Noboru Motohashi

It is becoming clear that incorporating vegetables and fruits into everyday meals is essential for human health maintenance from many experiments. Vegetables and fruits have been found to contain a variety of functional ingredients in addition to the three major nutrients. These functional ingredients are involved in digestive enzymatic degradation, detoxification and obesity prevention.

This book mainly describes the effects, preventions and treatments of phytochemicals: Chapter 1: “Medicinal Phytochemicals (Dietary Fibers) and Health Effects in Fruits and Vegetables”; Chapter 2: “Fresh Fruit and Vegetable Bacteria: Diversity, Antibiotic Resistance and Their Possible Contribution to Gut Microbiota”; Chapter 3: “Fruits and Vegetables Consumption and Their Effects on Human Health: Current Research in Malaysia”; Chapter 4: “Fruit and Vegetable Consumption: A Case Study of Food Culture vis-à-vis Health Awareness among the Students of the University of Johannesburg, South Africa”; Chapter 5: “Eating Three Portions of Fruit per Day: The Role of Gender in the Theory of Planned Behaviour”; and Chapter 6: “New Design Solutions with an Inventive Step for the Chambers of Fruit and Vegetable Warehouses”. These chapters will provide more advanced information to researches for developing new drug designs of phytochemicals.

HB 9781536138856 £169.99 July 2018 Nova Science Publishers 191 pages

## Health Care in Transition Series



### **Fundamentals of Leadership for Healthcare Professionals**

Edited by Stanislaw P. A. Stawicki, Michael S. Firstenberg

There are few contemporary industries that are as complex and challenging to navigate as healthcare. The realities of constantly changing regulatory, financial, and legal environments, combined with increasing societal expectations for excellence and safe and quality care, have resulted in a unique combination of constraints and opportunities that require the best and the brightest of managers and leaders to successfully tackle. Yet despite a growing cadre of highly trained healthcare management professionals, there continues to be a paucity of high quality leaders across the industry. Moreover, even among those individuals, there is a significant amount of variability and heterogeneity of leadership styles and approaches.

In an era of accountability to multiple stakeholders – from patients, to insurance companies, to local and national governments – the complex environment of healthcare requires visionary leadership, flexibility, adaptability, short-term tactical approaches, as well as long-term strategic thinking. Beyond the traditionally defined scope of services, the mission of institutions providing healthcare services has become much broader and far-reaching than just the provision of medical services within a specific geographic area. With hospitals and health networks progressively growing to become some of the largest aggregators of employment in the United States, it is not uncommon for healthcare institutions to function as guarantors of economic stability to entire towns, cities, and regions. Yet this must be carefully balanced with the challenges of maintaining sustainable growth and acceptable profit margins that help ensure that this “safety matrix” continues to function as intended.

HB 9781536136203 £169.99 June 2018 Nova Science Publishers 236 pages



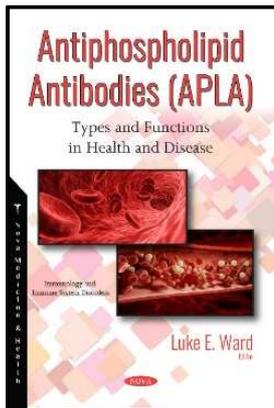
### **Future Perspectives on *Nigella sativa* Characterization and Pharmacological Properties**

Edited by Raluca Maria Pop

The aim of this publication is to provide up-to-date information about the recent developments in biochemical methodologies and strategies for *Nigella sativa* phytochemicals isolation and identification, as well as to highlight the most relevant data about its pharmacological importance in relation with its health promoting benefits actions.

Because of its rich historical background, extensive researches were carried out to evidence the pharmacological effects of *Nigella sativa* and to explain the mechanisms behind it. Studies have shown the wide spectrum of its pharmacological effects, such as antimicrobial (especially on multiple-antibiotic resistant bacteria), nephroprotective, diuretic and antihypertensive, antidiabetic, hepatoprotective, antihyperlipidemic, anticancer activity, neuroprotective, antinociceptive, pulmonary-protective and antiasthmatic, antihistaminic, gastro-protective activity, antioxidant activity, antiinflammatory and immunomodulatory effects. The pharmacological effects are in strong correlation with the high diversity of phytochemicals (over 100 compounds). The most valuable bioactive compounds identified in *Nigella sativa* are thymoquinone, thymol, thymohydroquinone, retinol (vitamin A), carotenoids ( $\beta$ -carotene), p-cymene, carvacol,  $\alpha$ -pinene and  $\beta$ -pinene, fatty acids (e.g., linoleic acid, oleic acid, palmitoleic acid, linolenic acid, myristoleic acid and others), sterols (e.g.,  $\beta$ -sitosterol, stigmasterol, campesterol) and tocopherols ( $\alpha$ ,  $\beta$ , and  $\gamma$ ). Also, *Nigella sativa* is a good source of minerals (calcium, phosphorus, iron, potassium, sodium, zinc, magnesium, manganese, copper, and selenium) and vitamins (vitamin A, thiamin, riboflavin, pyridoxine, niacin, folic acid, and vitamin C). The structural diversity of phytochemicals together with their health promoting benefits contributes to the high diversity of plant analysis methods like extraction, separation and detection as well as a wide variety of conditioning forms (as seeds, seed extracts, seed oil, or in different formulations, like dietary supplemental products, spices or cosmetic formulations). Also, its rich composition in bioactive compounds – together with its numerous health benefits proved over time – has contributed to the long term traditional use of *Nigella sativa* within traditional medicine. Taking these into account, another aim of this publication is to provide up-to-date and structured information regarding the safe use of *Nigella sativa* as a complementary treatment in different diseases in terms of reducing the risks and side effects of common treatments.

HB 9781536134292 £169.99 July 2018 Nova Science Publishers 246 pages

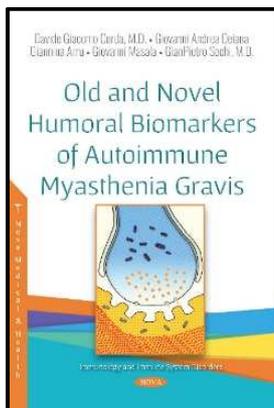


## **Antiphospholipid Antibodies (APLA) Types and Functions in Health and Disease**

Edited by Luke E. Ward

The opening chapter of *Antiphospholipid Antibodies (APLA): Types and Functions in Health and Disease* is focused on the modern immunoassays for the determination of aPL in biological fluids. The principles of these methods will be described and the possibility of their applications for aPL analysis will be mentioned. Next, the authors examine antiphospholipid syndrome (APS), a clinical disorder characterized by thrombosis and/or pregnancy morbidity in the persistence of antiphospholipid antibodies (aPL) that are pathogenic and have pro-coagulant activities. Two different strategies on the assessments of the aPL testings are indicated: quantitative assessments of the thrombotic risks using aPL profiles and new combination of aPL tests for screening APS diagnosis. This book goes on to discuss how in 2003, as a parallel to the seronegative rheumatoid arthritis and the seronegative lupus, G.R. Hughes and M.A. Khamashta introduced the term seronegative antiphospholipid syndrome (SN-APS). The diagnosis of SN-APS has been subjected to multiple discussions, disputes and investigations. The review presented in this collection summarizes the contemporary knowledge on SN-APS and its diagnosis and treatment and shows the authors' experience in this field. In closing, the authors describe the current knowledge on the mechanisms of antiphospholipid antibodies-associated renal damage, the main clinical manifestations, diagnostic and therapeutic considerations in APS in renal patients and our experience in this group.

PB 9781536139716 £71.99 July 2018 Nova Science Publishers 110 pages



## **Old and Novel Humoral Biomarkers of Autoimmune Myasthenia Gravis**

Davide Giacomo Corda, Giovanni Andrea Deiana, Giannina Arru, Giovanni Masala, GianPietro Sechi

Autoimmune Myasthenia Gravis (MG) is mediated by pathogenic autoantibodies to components of the postsynaptic muscle endplate at the neuromuscular junction. Due to the clinical heterogeneity of the disease, there is a great need for objective biomarkers for diagnostic as well as therapeutic purposes. Humoral biomarkers of MG can be divided into two categories: 1) autoantibodies; and 2) other immune-related molecules including inflammatory proteins, microRNA, HLA genes.

Regarding autoantibodies, the radio immuno assay (RIA) allows for the detection of IgG1 and IgG3 antibodies directed against the nicotinic acetylcholine receptors (AChRab) in 85% of the patients with generalized MG, but only in 50% of those with the ocular form. Treatment with acetylcholinesterase inhibitors is very helpful, although immunosuppressive therapy is frequently necessary. Thymoma or thymic hyperplasia can occur, implicating surgery. In AChRab negative generalized MG patients, a very variable percentage has IgG4 antibodies towards muscle specific tyrosine kinase (MuSKAb): typically, bulbar weakness is the first symptom often associated with neck and respiratory involvement. Acetylcholinesterase inhibitors are less effective and induce frequent side effects; first and second line suppressive treatments are commonly required. More rarely, IgG towards low density lipoprotein receptor-related protein 4 (Lrp4Ab), agrin or cortactin are detected: if there are not associated AChRab or MuSKAb, often patients present with milder forms of MG. Few patients have been demonstrated positive to AChRab or to other autoantibodies with the more sensitive cell based assay. Finally, titin and ryanodine receptor antibodies can occur in association with AChRab MG, indicating the possibility of thymoma or, in the context of late-onset myasthenia gravis, severe disease with a need for long-term immunosuppression and no response to thymectomy.

PB 9781536138368 £82.99 September 2018 Nova Science Publishers 179 pages

## **Systemic Sclerosis**

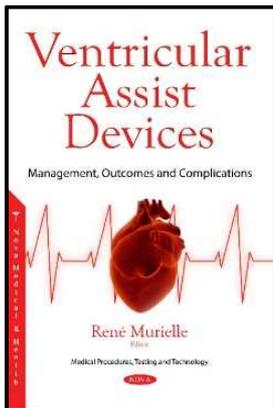
### **Explorations, Insights and Treatment**

Edited by Ali Khan

Progressive systemic sclerosis/scleroderma is a complex multi-organ autoimmune connective disease that has protean manifestations; although mostly pulmonary, other organs are involved in circumstances that manifest as overlap syndromes. Progressive systemic sclerosis/scleroderma affects adult patients with a female predominance, but children are not immune. A common theme includes tissue fibrosis and vasculopathy. Skin sclerosis is a common occurrence, but clinical findings can be associated with skin inflammation, fibrosis, and vascular changes, which are most pronounced in the fingers, toes, and around the nose and mouth. There is variable visceral organ involvement including the esophagus, the bowels, and the kidneys, but vasculitis can affect any organ. Any visceral organ – including the brain – can be affected. The extent of system involvement and the variety of clinical presentation makes accurate diagnosis elusive. The differentiation between liver disease secondary to connective tissue disorders and primary liver disease such as hepatitis can be extremely challenging since there is a similar immunological mechanism of causation. Most patients with connective tissue diseases exhibit liver function abnormalities that likely result from coexisting, fatty liver, viral hepatitis, primary biliary cirrhosis, portal hypertension, autoimmune hepatitis and hepatic toxicity due to drugs. Liver damage (whatever the cause) can be progressive and ultimately fatal. The challenges we face in the diagnosis of liver damage secondary to connective tissue and differentiation from the primary liver disease are challenging. Diagnosis is therefore vital – whether by invasive or non-invasive techniques – to institute appropriate management. Early reviews of the pathophysiological, clinical and pharmacological aspects of scleroderma (PSS) suggested that the disease was complex, of chronic nature and slow in onset. The pathophysiological changes are variable; affecting the blood vessels, the collagen fibers, the connective tissues, and deposition of fibrin and inflammatory reactions. Any fibrin-containing organs can be affected as well. The most common presentations are Raynaud's phenomenon of the extremities, mainly the arms and hands, vascular inflammation and fibrosis, firm facial skin, and the limitation of joint movement by pericapsular, soft tissue calcification. Atrophy of the gastrointestinal tract's smooth muscles, particularly of the gastric cardia, is also possible. The changes described may cause malabsorption. Lung changes are common due to progressive pulmonary fibrosis, leading to right-sided heart failure and respiratory insufficiency. Involvement of the liver, kidneys and the endocrine glands are, however, rare. Any organ may be affected, but mortality increases when the heart, kidney, or lungs are affected. Various therapeutic regimens have been instituted with variable success, including the use of vasodilators, corticosteroids, and a variety of anti-inflammatory agents. Some success with excellent therapeutic effects without serious side effects has been achieved.

PB 9781536135046 £82.99 June 2018 Nova Science Publishers 203 pages

## Medical Procedures, Testing & Technology



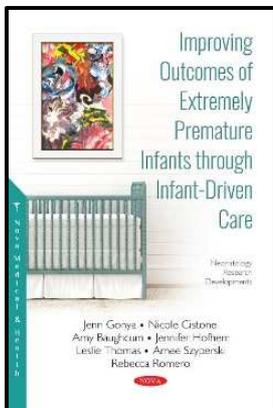
### Ventricular Assist Devices Management, Outcomes and Complications

Edited by René Murielle

In this collection, the authors begin by discussing the characteristics of current mechanical circulatory support devices, their documented problems, management strategies for their use, and new devices currently in development. To manage cardiogenic shock, we need to keep in mind three objectives: adequate organ perfusion, unloading of heart chambers, and adjusting body fluid levels. Short-term mechanical circulatory support plays an important role in managing cardiogenic shock when medical management has failed and the patient's condition is deteriorating. In the following chapter, an overview is provided focusing on the developing state of the art of continuous-flow mechanical circulatory support technology available today for clinical use, devices that are being introduced into clinical practice, and some technologies that are in development. With longer duration of pump use and increasing number of devices implanted, medical professionals worldwide are obtaining more knowledge on the unique physiological interactions of mechanical circulatory devices with the patient's body. The goal of the concluding review are to provide the infectious diseases practitioner with a brief introduction to the general anatomy and physiology of an LVAD, pre-implantation infectious disease management guidance, and an understanding of the epidemiology and pathophysiology of LVAD infections. Methods for the diagnosis and characterization of these infections and suggest medical and surgical approaches for management are also addressed.

PB 9781536138917 £82.99 June 2018 Nova Science Publishers 160 pages

## Neonatology Research Developments



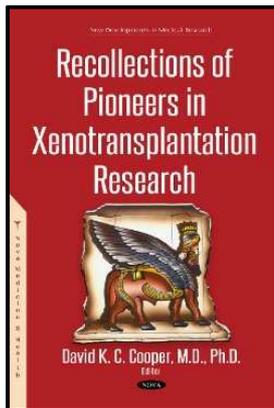
### Improving Outcomes of Extremely Premature Infants through Infant-Driven Care

Jenn Gonya, Nicole Cistone, Amy Baughcum, Jennifer Hofherr, Leslie Thomas, Amee Szyperski, Rebecca Romero

Extremely preterm infants (gestational age  $\leq$  27 completed weeks) represent one of the highest risk categories for death and neurodevelopmental impairment. Purposeful, evidence-based health management and developmentally appropriate care practices make a significant difference in the outcomes of these patients. This book describes a set of guidelines that have been established for the specific care of extremely premature infants and discusses the ways in which the implementation of these guidelines in the neonatal intensive care unit setting ensures an approach that addresses both the medical and developmental needs of this highly vulnerable population.

Content includes management of respiratory, skin, cardiovascular, fluids/nutrition, and neurological issues as well as appropriate methodologies for pain control, laboratory studies, and infection control. Special emphasis is also placed on the role of the family, the practices of skin-to-skin care and breastfeeding, and nursing care based on infant cues. The evidence and rationale behind each guideline is provided as well as specific information to assist in care planning.

PB 9781536139549 £71.99 July 2018 Nova Science Publishers 101 pages



### Recollections of Pioneers in Xenotransplantation Research

Edited by David K. C. Cooper

There is a critical and continuing shortage of organs and cells from deceased human donors for the purposes of transplantation into patients with terminal organ failure. The use of organs and cells from pigs – i.e., cross-species transplantation, or xenotransplantation – could resolve this problem. *Recollections of Pioneers in Xenotransplantation Research* is a collection of reminiscences by surgeons and scientists who, over the past 50 years, have made major contributions to research into achieving successful transplantation of pig organs and cells into primates. It records the personal work of 22 researchers from North America, Asia, Europe, and Australasia who developed this field, which will have an immense impact on the future medical care of patients with such diverse conditions as heart and kidney failure, diabetes, corneal blindness, and Parkinson's disease.

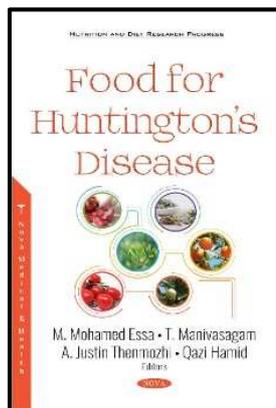
A pig organ transplanted into a human or nonhuman primate is rejected within minutes. To overcome this immunological barrier, pigs have been genetically-engineered to protect their tissues from the primate immune response. Today, life-supporting organs from pigs with up to six genetic modifications have functioned for more than a year in nonhuman primates, and the blood sugar of diabetic monkeys has been controlled for more than two years by the transplantation of insulin-producing pancreatic islet cells from pigs. Clinical trials of pig islet and corneal transplantation have already been undertaken, and trials of organ transplants are currently being planned.

The pioneering researchers who contributed to the early development of this field highlight their own roles, and record their personal recollections of the other scientists and surgeons with whom they collaborated. They do not confine themselves to the scientific progress they made, but comment on the roles of industry and academia in moving the field forward. *Recollections of Pioneers in Xenotransplantation Research* will be of interest to physicians, scientists, and the lay person with an interest in transplantation or in the care of patients with life-threatening diseases, but also to those interested to understand the potential of genetic-engineering in science and medicine.

The book provides a historical record of the research that has contributed to an advance in medicine that has been called "the next great medical revolution." Within a few years, this new form of therapy is likely to impact every family in the developed world.

HB 9781536139457 £200.00 September 2018 Nova Science Publishers 458 pages

## Nutrition & Diet Research Progress/Neurodegenerative Diseases - Laboratory & Clinical Research



### Food for Huntington's Disease

Edited by M. Mohamed Essa, T. Manivasagam, A. Justin Thenmozhi, Qazi Hamid

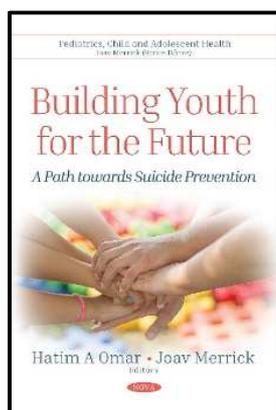
*Food and Huntington's Disease* is another book in a series of books related to the benefits of food on brain function. This book designates the possible beneficial effects of edible natural products and their active materials on Huntington's disease. This is a progressive neurodegenerative disease that could cause uncontrolled movements, cognitive difficulties and emotional disturbances. The aim of this book and its series is to create awareness in general audiences about the dietary perception to reduce the occurrence of Huntington's disease. This may enable a better understanding and possibly reduce the cost on medical bills for patients (approximately \$4500/year/person) and the insurance companies. Literature revealed that this disturbing neurodegenerative disorder has a higher prevalence in Europe (3-7 in 100,000), North America (4-5 in 100,000), and Australia than in Asian countries.

Studies suggest that mutation in the HD gene and the repeat expansion play an important role in the pathophysiology of this disease. The genetic defect underlying Huntington's disease is unstable, caused by an abnormal CAG expansion within the first exon of the Huntingtin gene (HTT), leading to an expanded polyglutamine (polyQ) track in the HTT protein. This disease is an inherited one. Even though the prevalence rate is moderate, scientists predict that a lot of people possess the possibility of carrying this disease. Mitochondrial dysfunction and oxidative stress could very highly play a role in this disease. In the last decade, the benefits of food on many diseases – including brain diseases – were explored. This book aims to summarize the recent updates on the benefit of natural edible materials and their active principles on the prevention or delaying of the progression or the management of this disease.

The editors feel highly obligated to all the contributors for this initiative. Undeniably, they believe that the information provided in this book would raise the awareness of the readers and could possibly help them to understand the disease process and the benefits of food items on Huntington's' disease management.

HB 9781536138542 £169.99 July 2018 Nova Science Publishers 235 pages

## Paediatrics, Child & Adolescent Health Series

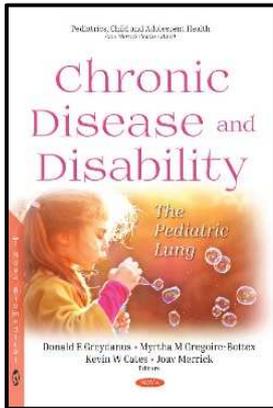


### Building Youth for the Future A Path towards Suicide Prevention

Edited by Hatim A. Omar, Joav Merrick

While much needs to be done in order to minimize the suicide attempts and suicides of adolescents, the work of Stop Youth Suicide (SYS) campaign and the comprehensive grassroots' approach is showing signs of success in the state of Kentucky. The 2013 national Youth Risk Behavior Survey (YRBS) showed that for the first time, indicators of youth suicide in the state are at or below the national average, where they were previously always above. In the three rural counties where the school systems have partnered with SYS and the Division of Adolescent Medicine in Lexington, there is an actual absence of completed suicides compared to the average of three per year prior to this partnership. In order to maintain and improve that statistic, we must ensure that students do not have easy access to weapons, guns and drugs by ensuring that these items are properly stored in homes where children are present. Kentucky's educators must continue to develop ways to provide safe and supportive school environments. In this book, the authors have gathered presentations from the 2017 Annual Stop Youth Suicide Campaign Conference, which we hope will be of interest and help to the readers.

PB 9781536137682 £82.99 September 2018 Nova Science Publishers 206 pages



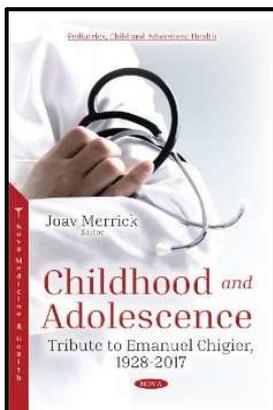
## Chronic Disease and Disability

### The Pediatric Lung

Edited by Donald E Greydanus, Myrtha M Gregoire-Bottex, Kevin W. Cates, Joav Merrick

*Chronic Disease and Disability: The Pediatric Lung* is written for the primary care clinician to help update the knowledge of pediatric pulmonology (pulmo, pulmonis [Latin for "lung"] and ἑπιστήμη, -logia [Greek for "study of"]) in the early 21st century. It acknowledges some of the amazing stepping stones of science over time concerning the current understanding of pediatric pulmonary medicine. The current and future shortage of pediatric pulmonologists necessitates steady, rejuvenated information on asthma, cystic fibrosis, pneumonia and other pulmonologic disorders for primary care clinicians as they care for the children and adolescents with complex respiratory dilemmas and disorders. In view of this shortage and the rapidly increasing knowledge in this field, as well as understanding indications for referral to pediatric pulmonologists in the early 21st century, a constant assiduous information aimed at primary care clinicians in these areas becomes increasingly important.

HB 9781536135770 £200.00 July 2018 Nova Science Publishers 569 pages



## Childhood and Adolescence

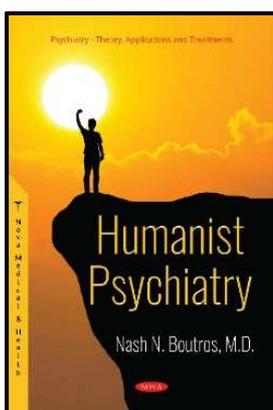
### Tribute to Emanuel Chigier, 1928-2017

Edited by Joav Merrick

Throughout a lifetime, an individual meets an innumerable amount of people with only a few having any major impact on their own life and the path that they will follow afterwards. Many people owe a lot of gratitude and debt to Manny (the Israeli pediatrician Emanuel Chigier, 1928-2017) for his inspiration, mentorship and friendship, which will follow those who knew him for the rest of their lives; with this book, the authors salute and give tribute to Manny, who is no longer among us. They have gathered articles and chapters relevant to childhood and adolescent health, a topic close to Manny's heart, from all over the world. The authors hope this will give inspiration to others to follow in his footsteps and continue to carry the torch in the field of pediatric medicine.

HB 9781536135749 £139.99 June 2018 Nova Science Publishers 195 pages

## Psychiatry - Theory, Applications & Treatments



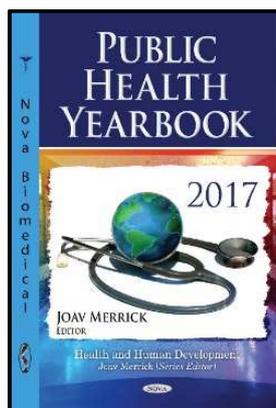
## Humanist Psychiatry

Nash N. Boutros

This book discusses the parameters surrounding humanist principles (an optimistic philosophy that believes in the scientific process, human worth and dignity, and the ability of humankind to solve its problems no matter how complicated). This book begins by summarizing the humanist principles then goes into general chapters discussing how the biology principle should guide advances in psychiatric research, how psychiatry research could be organized, and addresses issues of education and practice from a humanist's view point. Finally, the book goes into more specific areas of practice like correctional and addiction psychiatry, discussing how practice adhering to the humanist principles would impact the field. Finally, the book discusses the issue of stigma and how humanism can help speed up the dissipation of the stigma associated with psychiatric disorders.

PB 9781536137309 £71.99 June 2018 Nova Science Publishers 130 pages

## Public Health: Practices, Methods & Policies



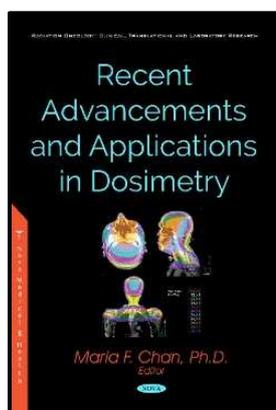
### Public Health Yearbook 2017

Edited by Joav Merrick

*Public Health Yearbook 2017* present research on: adolescent alcohol use in the Caribbean region; discussion about how to break the cycle of child and adolescent environmental health disparities affecting development; serious debate about parental refusal of childhood vaccinations; food security; social and health issues surrounding Chinese adolescents; and a world tour of suicide ideation in school-age teenagers. We hope this Yearbook and the research will be of interest to our readers.

HB 9781536137927 £234.99 July 2018 Nova Science Publishers 724 pages

## Radiation Oncology: Clinical, Translational & Laboratory Research Series



### Recent Advancements and Applications of Dosimetry

Edited by Maria F. Chan

#### Features

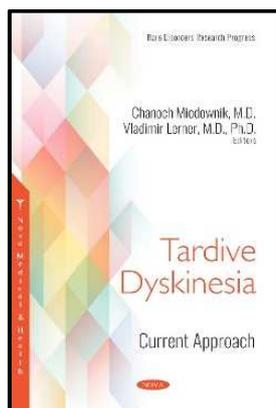
- Provides unique dosimetry for MR-guided high intensity ultrasound treatment, gold nanoparticle-enhanced radiotherapy, photodynamic therapy, thermal imaging in Brachytherapy, MR-guided radiotherapy, proton beam treatment, and high-definition end-to-end patient-specific dose verification
- Offers clinical applications for all varieties of modern radiation detectors, and evolving dosimetry techniques including innovative calorimetry, TLD, One-scan film dosimetry, transmission detectors, real-time EPID dosimetry, best feasible DVH planning, 3D printing, 5D planning and delivery, as well as machine learning

#### Summary

This book provides a comprehensive collection of the newly emerging treatment modalities, covering high intensity ultrasound treatment, photodynamic therapy, MR-guided treatment machines, nanoparticle-enhanced radiotherapy, and proton beam therapy. The invited expert authors cover a wide range of the latest advancements and developments in dosimetry techniques as well as their clinical implications, including calorimetry, radiochromic film, transmission detectors, real-time portal dosimetry, TLD, thermal imaging dosimetry, 3D dosimetry, best feasible DVH planning, 5D planning and delivery, 3D printing, as well as machine learning in medical dosimetry. This book will bring the reader up-to-date with the state of the art in radiation dosimetry and best clinical practices using such advanced detectors.

HB 9781536137590 £200.00 July 2018 Nova Science Publishers 401 pages

## Rare Disorders Research Progress



### **Tardive Dyskinesia Current Approach**

Edited by Chanoch Miodownik, Vladimir Lerner

Abnormal involuntary dyskinetic movements in schizophrenia patients have been documented for more than 140 years. However, after introducing into clinical practice antipsychotic medications, movement disturbances became a relatively frequent phenomenon. Medication-induced movement disorders are divided into two groups: a) acute, which appears during several hours or days after beginning treatment with psychotropic medications, and b) delayed or tardive motor disturbances that occur after months or years of taking psychotropic drugs. In the term's present meaning, the latter are iatrogenic, neurological, hyperkinetic movement disturbances characterized by repetitive, involuntary, purposeless movements in the oral/lingual/buccal area, body or choreoathetoid movements of the extremities.

Tardive movement disorder (TMD) is a serious, disabling and potentially permanent pathology. The pathogenesis of TMD remains unclear, and the pathophysiology is complex, multifactorial, and still not fully understood. Moreover, there is solid evidence of a genetic predisposition to these disturbances.

Abnormal movements should appear during exposure, or within four weeks of withdrawal from oral psychotropic medications or eight weeks from depot formulations. The minimal exposure to these drugs should be three months, except for patients older than 60, who can develop TMD after its use for one month. Finally, the movements should be present for at least one month to fulfill the criteria for TMD.

Several distinct forms of TMD exist, specifically tardive akathisia, tardive blepharospasm, tardive dystonia, tardive gait, tardive myoclonus, tardive tremor, and tardive tics, and they have different pathophysiologies and treatment.

The advent and widespread use of a new generation of antipsychotics in clinical practice had been expected to dramatically reduce the incidence and prevalence of TMD, however the reduction, if any, was modest. A number of drugs were tried for the management of this motor disturbance, yet until now no effective and standard treatment has been found. Therefore, the management of this motor disturbance remains an actual topic as well as a challenge for clinicians.

PB 9781536137767 £82.99 September 2018 Nova Science Publishers 169 pages

## Speech & Language Disorders

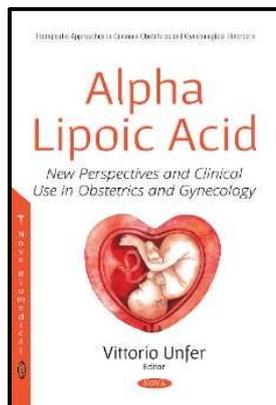
### **Handwriting and Dysgrafia Relation and Assessment**

Edited by Monique Herrera Cardoso, Giseli Donadon Germano, Simone Aparecida Capellini

*Handwriting and Dysgrafia: Relation and Assessment* presents (in eleven chapters no less) the interdisciplinary perspective and relation between handwriting and dysgraphia. Therefore, in organizing this e-book, the authors think about how it would be possible, through their experiences with the care of students with dysgraphia complaints in the Investigation Learning Disabilities Laboratory at the Speech and Hearing Sciences Department (São Paulo State University "Júlio de Mesquita Filho" – UNESP – Marília, São Paulo, Brazil), to assist educators as well as health and education professionals to broaden their knowledge of the clinical and educational characteristics of students with dysgraphia.

PB 9781536138054 £139.99 September 2018 Nova Science Publishers 132 pages

## Therapeutic Approaches in Common Obstetrics & Gynaecological Disorders Series



### Alpha Lipoic Acid

#### New Perspectives and Clinical Use in Obstetrics and Gynecology

Edited by Vittorio Unfer

*Alpha Lipoic Acid: New Perspectives and Clinical Use in Obstetrics and Gynecology* focuses on the rationale of Alpha-lipoic Acid (ALA) use in the field of maternal-fetal medicine and its clinical applications.

So far, the use of ALA is promising in several conditions which involve inflammation, oxidation, and tissue damage in their pathophysiology. Indeed, several studies provide a reliable amount of data related to the therapeutic use of ALA in different disorders such as cancer, neurodegenerative diseases, diabetes, tissue regeneration, ischemia–reperfusion injury, and aging.

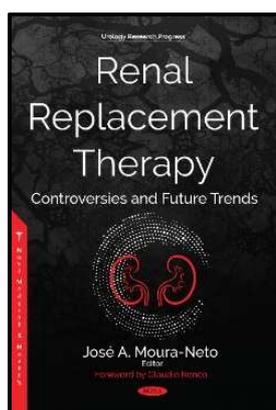
According to the multiple actions of ALA and its safe profile, the book provides valuable updates regarding the positive role of ALA supplementation from implantation to parturition and includes research and information from newer published studies in this field.

The rationale of ALA use in obstetrics, the current preclinical and clinical evidences on the administration of ALA to maintain the physiological state of pregnancy and treat pathological conditions such as threatened miscarriage, and preterm delivery represent the core of this composition.

In addition, to contain the core science of ALA in pregnancy, this book is designed to serve both as a valuable clinical reference for the obstetricians and as a starting point for the development of new experimental and clinical studies on the use of ALA in pregnancy.

HB 9781536135923 £139.99 July 2018 Nova Science Publishers 210 pages

## Urology Research Progress Series



### Renal Replacement Therapy

#### Controversies and Future Trends

Edited by José Andrade Moura Neto

Controversies and trends have always been present in nephrology. Since its inception and throughout its development, renal replacement therapy has been shrouded in uncertainty, even as it advances, and it has always been considered a promising therapy despite controversies.

The book “Renal Replacement Therapy: controversies and future trends” is a collection of independent chapters written by eminent authors, focused on topics relevant to modalities of renal replacement therapy. This book addresses controversies and future trends in peritoneal dialysis, hemodialysis, and kidney transplantation. It covers issues from kidney patient education to new technologies in end-stage renal disease management, including trends in arteriovenous access, convective therapies, the concept of incremental hemodialysis, fluid overload in hemodialysis and iron therapy. Regarding renal transplantation, it discusses a variety of subjects, highlighting xenotransplantation, organ bioengineering, immunosuppressive therapies, and living donor bioethics issues.

HB 9781536136548 £198.99 June 2018 Nova Science Publishers 517 pages



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