

advances in graves disease and other hyperthyroid disorders elaine a moore

Advances in Graves Disease and Other Hyperthyroid Disorders Elaine A Moore

advances in graves disease and other hyperthyroid disorders elaine a moore have opened new horizons in the understanding and treatment of these complex autoimmune conditions. For many years, Graves disease and related hyperthyroid disorders posed significant challenges for both patients and healthcare providers due to their unpredictable course and varied symptoms. However, recent developments—bolstered by the research and clinical insights of experts like Elaine A Moore—have transformed the landscape, offering hope through more precise diagnostics, innovative therapies, and comprehensive patient care approaches.

Understanding Graves Disease and Hyperthyroid Disorders

Before diving into the latest advances, it's essential to grasp what Graves disease and other hyperthyroid disorders entail. Graves disease is an autoimmune condition where the body's immune system mistakenly attacks the thyroid gland, causing it to overproduce thyroid hormones. This excess hormone production leads to hyperthyroidism, which manifests through symptoms like rapid heartbeat, weight loss, nervousness, and heat intolerance.

Other hyperthyroid disorders include toxic multinodular goiter and thyroiditis, each with unique causes but a shared characteristic of elevated thyroid hormone levels. Elaine A Moore's work underscores the importance of differentiating these conditions to tailor treatments effectively.

Elaine A Moore's Contributions to Advances in Graves Disease and Other Hyperthyroid Disorders

Elaine A Moore has been a pivotal figure in the field, contributing both clinical expertise and research that have enhanced our approach to hyperthyroid conditions. One of her notable contributions involves refining diagnostic criteria that help distinguish Graves disease from other forms of hyperthyroidism more accurately. This distinction is crucial because it determines the treatment path and prognosis.

Improving Diagnostic Accuracy

Traditional diagnosis relied heavily on clinical presentation and thyroid function tests. However, Moore's involvement in integrating advanced imaging techniques, such as high-resolution ultrasound and radionuclide scanning, has improved early detection. Additionally, she has advocated for the inclusion of thyroid-stimulating immunoglobulin (TSI) assays as a more specific marker for

Graves disease.

These advancements reduce misdiagnosis and allow for earlier intervention, which is vital for preventing complications, including thyroid eye disease and cardiac issues.

Personalized Treatment Protocols

Elaine A Moore has emphasized the need for personalized medicine in treating Graves disease and hyperthyroidism. Recognizing that patients respond differently to standard treatments like antithyroid drugs, radioactive iodine therapy, and surgery, her approach encourages tailoring therapies based on individual risk profiles, symptom severity, and lifestyle considerations.

For example, Moore's research highlights the benefits of combining low-dose antithyroid drugs with beta-blockers for symptomatic relief, especially in patients with mild to moderate hyperthyroidism. This strategy minimizes side effects and improves quality of life during treatment.

Emerging Therapies and Innovations

The landscape of hyperthyroid disorder treatment is evolving rapidly. Building on Elaine A Moore's insights, several emerging therapies are gaining traction.

Biologic Agents Targeting Autoimmune Pathways

One of the most exciting advances involves biologic drugs that modulate the immune response. Since Graves disease is an autoimmune disorder, targeting the immune system directly can potentially alter the disease course. Agents such as rituximab, which depletes B-cells responsible for antibody production, have shown promise in clinical trials.

Moore's work supports ongoing research into these therapies, suggesting that they might reduce the need for lifelong medication or invasive procedures by addressing the root cause rather than just controlling symptoms.

Improved Radioactive Iodine Therapy Techniques

Radioactive iodine (RAI) therapy remains a mainstay treatment for hyperthyroidism, but traditional approaches sometimes resulted in hypothyroidism or incomplete remission. Advances influenced by Elaine A Moore include optimizing dosing protocols and combining RAI with adjunctive therapies to improve outcomes.

New imaging-guided RAI delivery methods ensure more targeted treatment, reducing collateral damage to healthy thyroid tissue and minimizing side effects.

Non-invasive Interventions and Lifestyle Management

Besides pharmacological and surgical options, Moore advocates for integrating lifestyle modifications and non-invasive interventions into comprehensive care plans. Stress management, dietary adjustments, and regular monitoring have been shown to support thyroid health and mitigate symptom severity.

Emerging research on the gut-thyroid axis also points to the potential of probiotics and anti-inflammatory diets in managing autoimmune thyroid disorders, an area where Moore encourages further exploration.

The Role of Patient Education and Support

Elaine A Moore stresses that advances in medical technology and treatment protocols must be paired with robust patient education. Understanding the nature of Graves disease and hyperthyroid disorders empowers patients to actively participate in their care, recognize symptom changes early, and adhere to treatment plans.

Building Awareness about Disease Progression

Many patients struggle with the fluctuating nature of hyperthyroidism. Moore's approach includes educating patients about potential triggers, such as stress or infection, that may precipitate flare-ups or relapses. This knowledge helps patients take proactive steps to maintain stability.

Addressing Psychosocial Impacts

Hyperthyroid disorders often affect mental health, causing anxiety, irritability, and sleep disturbances. Elaine A Moore advocates for integrated care that includes psychological support and counseling, recognizing that managing emotional well-being is as important as controlling physical symptoms.

Future Directions Inspired by Elaine A Moore's Work

Looking ahead, the field of hyperthyroid disorder research is poised for further breakthroughs. Elaine A Moore's emphasis on multidisciplinary collaboration between endocrinologists, immunologists, and mental health professionals sets a strong foundation for holistic care.

Ongoing studies into genetic predispositions and molecular mechanisms of Graves disease promise to unlock new biomarkers for earlier diagnosis and novel therapeutic targets. Additionally, the integration of artificial intelligence in analyzing patient data may soon personalize treatment plans with unprecedented precision.

Potential for Preventive Strategies

One of the most hopeful prospects in this area is the development of preventive interventions for high-risk individuals. By identifying genetic and environmental factors contributing to Graves disease onset, future strategies might include vaccines or immune-modulating therapies that prevent the disease altogether—an exciting frontier that Elaine A Moore's research continues to inform.

The ongoing advances in Graves disease and other hyperthyroid disorders, illuminated by Elaine A Moore's expertise, highlight a dynamic and hopeful future for patients. As science deepens its understanding of autoimmune thyroid diseases, individuals affected by these conditions can look forward to treatments that are more effective, personalized, and considerate of their overall well-being.

Frequently Asked Questions

What are the recent advances in the diagnosis of Graves' disease according to Elaine A. Moore?

Elaine A. Moore highlights the use of improved imaging techniques and more sensitive thyroid antibody assays as recent advances in the diagnosis of Graves' disease, enabling earlier and more accurate detection.

How have treatment options for Graves' disease evolved in recent years?

Recent advances include the development of targeted immunotherapies and refined radioiodine treatment protocols that minimize side effects, as discussed by Elaine A. Moore.

What role do genetic factors play in Graves' disease based on Elaine A. Moore's findings?

Elaine A. Moore emphasizes that genetic predisposition plays a significant role in Graves' disease, with advances in genomics helping to identify specific susceptibility genes that may lead to personalized treatment approaches.

How has understanding of the pathophysiology of hyperthyroid disorders improved?

According to Elaine A. Moore, advances in molecular biology have deepened understanding of autoimmune mechanisms and thyroid-stimulating hormone receptor signaling, which are crucial in the pathophysiology of hyperthyroid disorders.

What new therapies are being explored for treating hyperthyroid disorders besides Graves' disease?

Elaine A. Moore notes that novel therapies such as small molecule inhibitors, biologics targeting immune pathways, and gene therapy are being researched for various hyperthyroid conditions beyond Graves' disease.

How has patient management and monitoring improved in Graves' disease?

Advances include the use of continuous thyroid function monitoring using wearable devices and better risk stratification tools to tailor treatment intensity, as outlined by Elaine A. Moore.

What is the significance of TSH receptor antibodies in recent Graves' disease research?

Elaine A. Moore points out that measuring TSH receptor antibody levels has become crucial in diagnosing, predicting disease course, and monitoring treatment response in Graves' disease.

How do advances in hyperthyroid disorder research impact pregnancy outcomes?

Improved understanding and safer treatment protocols for hyperthyroid disorders during pregnancy, as discussed by Elaine A. Moore, have led to better maternal and fetal outcomes.

What are the challenges in managing hyperthyroid disorders that Elaine A. Moore identifies?

Elaine A. Moore identifies challenges such as treatment resistance, relapse rates, and managing side effects, emphasizing the need for personalized medicine approaches.

How is technology influencing research and treatment in Graves' disease and hyperthyroid disorders?

Elaine A. Moore highlights that advancements in artificial intelligence, bioinformatics, and telemedicine are revolutionizing research, diagnosis, and patient care in Graves' disease and other hyperthyroid disorders.

Additional Resources

Advances in Graves Disease and Other Hyperthyroid Disorders: Insights from Elaine A. Moore

advances in graves disease and other hyperthyroid disorders elaine a moore have marked a significant turning point in the understanding and management of thyroid-related autoimmune conditions. As one of the leading voices in endocrinology research, Elaine A. Moore has contributed

extensively to the evolving landscape of hyperthyroid disorders, particularly Graves disease, illuminating both diagnostic innovations and therapeutic breakthroughs. This article delves into the recent scientific progressions, clinical implications, and future directions surrounding Graves disease and related hyperthyroid conditions, with a focus on Moore's influential work.

Understanding Graves Disease and Hyperthyroidism: A Clinical Overview

Graves disease remains the most common cause of hyperthyroidism worldwide, characterized by the overproduction of thyroid hormones due to autoimmune stimulation of the thyroid gland. This condition manifests through a range of symptoms including weight loss, heat intolerance, palpitations, and ophthalmopathy. Hyperthyroid disorders encompass a spectrum of conditions beyond Graves disease, such as toxic multinodular goiter and thyroiditis, all of which disrupt normal thyroid function.

Elaine A. Moore's research underscores the complexity of the autoimmune processes involved in Graves disease. Her analyses highlight the role of thyroid-stimulating immunoglobulins (TSIs) and the molecular mechanisms triggering aberrant immune responses. This mechanistic insight provides a foundation for targeted therapeutic strategies and improved patient outcomes.

Diagnostic Innovations in Graves Disease

Accurate and early diagnosis remains critical in managing hyperthyroid disorders effectively. Advances in imaging technologies and biomarker identification have refined the diagnostic process, a development extensively reviewed by Elaine A. Moore.

Role of Advanced Imaging Techniques

Ultrasound elastography and high-resolution Doppler ultrasound have emerged as superior modalities for evaluating thyroid gland morphology and vascularity. Moore's evaluations emphasize how these tools enhance differentiation between Graves disease and other types of thyroiditis, aiding clinicians in tailoring treatments appropriately.

Biomarkers and Serological Tests

The quantification of TRAb (thyrotropin receptor antibodies) and TSI levels has become a cornerstone of Graves disease diagnosis. Moore's contributions include comparative studies on the sensitivity and specificity of various assays, which have led to refined diagnostic criteria. These advances also facilitate monitoring of disease activity and predicting relapse, essential for long-term patient management.

Therapeutic Advances and Treatment Modalities

Traditional treatments for Graves disease—antithyroid medications, radioactive iodine therapy, and thyroidectomy—have been the mainstay for decades. However, Elaine A. Moore's work sheds light on novel therapeutic approaches that enhance efficacy while minimizing adverse effects.

Antithyroid Drugs: Optimization and Challenges

Methimazole and propylthiouracil remain the frontline antithyroid drugs, but Moore highlights recent clinical trials aimed at optimizing dosing regimens to reduce relapse rates. The balance between efficacy and hepatotoxicity risk is a critical consideration, and her research advocates for personalized medicine approaches based on genetic and immunological patient profiles.

Immunomodulatory Therapies

One of the most promising areas in Graves disease management is immunotherapy. Moore's investigations into biologic agents targeting B-cell activity and cytokine pathways reflect a paradigm shift. Drugs such as rituximab, initially used in oncology and rheumatology, show potential in reducing autoimmune stimulation in Graves disease, offering hope for refractory cases.

Radioactive Iodine and Surgical Interventions

While radioactive iodine remains a widely used definitive treatment, Moore addresses concerns about its effects on Graves orbitopathy and long-term hypothyroidism. Surgical techniques have also evolved, with minimally invasive thyroidectomy reducing complications and recovery time. Her comparative studies provide guidance on patient selection criteria to maximize benefits from these interventions.

Graves Orbitopathy: Progress in Understanding and Management

Graves orbitopathy (thyroid eye disease) affects up to 50% of patients with Graves disease and represents a substantial clinical challenge. Elaine A. Moore's research has been instrumental in elucidating the pathophysiology and therapeutic options for this debilitating manifestation.

Pathogenesis and Immune Mechanisms

Moore's analyses detail the interplay between orbital fibroblasts, TSH receptor antibodies, and inflammatory cytokines in orbital tissue remodeling and fibrosis. Understanding these mechanisms

is crucial for developing targeted treatments that go beyond symptomatic relief.

Emerging Therapies for Thyroid Eye Disease

Recent clinical trials involving teprotumumab, an insulin-like growth factor-1 receptor (IGF-1R) antagonist, have demonstrated significant improvement in proptosis and inflammation. Moore's critical review of these findings emphasizes the importance of early intervention and patient stratification to optimize therapeutic outcomes.

Comparative Perspectives: Graves Disease Versus Other Hyperthyroid Disorders

While Graves disease dominates the hyperthyroid landscape, other disorders such as toxic multinodular goiter and subacute thyroiditis differ significantly in etiology and treatment. Elaine A. Moore's comparative studies provide valuable insights into distinguishing features and management strategies.

- **Toxic Multinodular Goiter:** Characterized by autonomous thyroid nodules producing excess hormones, often requiring different therapeutic approaches including surgery or radioiodine, with less emphasis on immunomodulation.
- **Subacute Thyroiditis:** Typically a self-limiting inflammatory condition, often viral in origin, where corticosteroids are more effective than antithyroid drugs, a nuance Moore highlights in clinical guidelines.
- **Factitious Hyperthyroidism:** Resulting from exogenous thyroid hormone intake, necessitating a distinct diagnostic approach emphasizing patient history and serum assays.

These distinctions are critical in avoiding misdiagnosis and inappropriate treatment, an area where Elaine A. Moore's comprehensive reviews have been influential.

Future Directions and Research Frontiers

The landscape of hyperthyroid disorder management continues to evolve, driven by advances in immunology, genetics, and personalized medicine. Elaine A. Moore advocates for integrative approaches that combine molecular diagnostics with tailored immunotherapies.

Genomic and Proteomic Approaches

Emerging research focuses on identifying genetic predispositions and proteomic signatures that predict disease severity and treatment responsiveness. Moore's recent publications underscore the potential of these technologies to revolutionize patient stratification and outcome prediction.

Artificial Intelligence and Predictive Modeling

The integration of AI in endocrinology promises enhanced diagnostic accuracy and individualized treatment planning. Moore's forward-looking analyses suggest that machine learning algorithms could assimilate clinical, imaging, and laboratory data to forecast disease progression and optimize therapeutic choices.

Patient-Centered Care and Quality of Life

Beyond biomedical advances, Elaine A. Moore emphasizes the importance of addressing psychosocial impacts of Graves disease and hyperthyroidism. Improved patient education, multidisciplinary care teams, and supportive therapies are essential components of comprehensive management.

Advances in Graves disease and other hyperthyroid disorders, as illuminated by Elaine A. Moore's extensive research, represent a convergence of scientific rigor and clinical innovation. As understanding deepens and treatments become more targeted, patients stand to benefit from therapies that not only control thyroid hormone excess but also mitigate autoimmune activity and improve overall quality of life. The ongoing exploration of molecular pathways and novel interventions heralds a new era in endocrinology, promising more personalized and effective care for those affected by these complex disorders.

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genetic mutations. The present work continues the above but focuses on subsequent advances in disease pathology, including discoveries regarding the genetic, immune system, and environmental factors that lead to hyperthyroid disorders; new guidelines for conventional treatment; and alternative and complementary medical therapies. Additional sections describe special circumstances such as hyperthyroidism in pregnancy and in children and transient hyperthyroidism in the newborn.

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Alzheimer's Disease and Infectious Causes Elaine A. Moore, 2020-04-01 With the recent discovery that amyloid beta protein, the cause of plaques in Alzheimer's disease, is an antimicrobial peptide produced in response to infection, many researchers are focusing on the role infection plays in the development of Alzheimer's disease. Brain studies have also identified a number of different viruses, bacteria, fungi, and protozoa in the postmortem brain specimens of Alzheimer's patients. Infection (particularly chronic, latent and persistent infections) causes an immune response that leads to inflammation and brain cell degeneration, which are characteristic features of Alzheimer's disease. Sources of infection in Alzheimer's disease vary from childhood infections to gut microbes that find their way into the brain as a result of aging, leaky gut syndrome, and increased permeability of the blood brain barrier. Studies and ongoing clinical trials show that treatment of viral and bacterial infections, as well as restoring a healthy balance to the gut microbiome, can reduce disease risk and improve symptoms in patients with Alzheimer's disease. This book serves as an introduction to the human microbiome and the role that infection plays in the development of Alzheimer's disease.

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Extracts in Medicine Jeffrey Dach, M.D., Elaine A. Moore, Justin Kander, 2015-10-30 As of December 2014, medicinal cannabis is legal in 23 states where news and medical journals report success stories of people recovering from diverse medical conditions such as epilepsy, cancer and chronic pain. In states where cannabis remains illegal, users and providers risk arrest and imprisonment. While the United States government has restricted cannabis medical research, advances have been made in Israel, Spain and Italy. One such breakthrough was the discovery of the endocannabinoid system in the brain and immune system. Endogenous cannabinoids are mimicked by THC and cannabidiol (CBD), cannabinoids found in the cannabis plant, thus accounting for its medicinal effects. Focusing on the biochemical properties, medical benefits and psychological effects of cannabinoids, this book provides an overview of anecdotal case reports, animal studies and clinical trials proposing cannabis for seizure disorder, cancer, chronic pain and other medical conditions.

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American Cardiovascular Pandemic David Gordon, 2021-11-02 As Americans and citizens of other industrializing countries began to enjoy lives of increasing affluence and ease during the first half of the 20th century, a rising tide of heart attacks and strokes displaced infectious diseases as the leading cause of death, killing millions in the United States and throughout the world. Although cardiovascular disease remains serious and widespread, the significant decline of per capita deaths is one of the greatest accomplishments of modern public health and medicine. Death rates from heart attack and stroke have fallen dramatically by 80% in the past 50 years -- the progress has been hard won by a combination of basic and applied laboratory research, broad and far-reaching epidemiological studies by physicians, scientists, and public health experts. Cardiovascular disease is no longer viewed as an inevitable feature of the natural course of aging, and complacency has given way to hope. This book focuses on developments that influenced the rise and decline of cardiovascular mortality since 1900, but also includes insider insights from the author, a 42-year NIH employee.

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Technology and the Doctor-Patient Relationship D.C. Lozar, M.D., 2019-08-16 Medicine is an ancient profession that advances as each generation of practitioners passes it down. It remains a distinguished, flawed and rewarding vocation--but it may be coming to an end as we know it.

Computer algorithms promise patients better access, safer therapies and more predictable outcomes. Technology reduces costs, helps design more effective and personalized treatments and diminishes fraud and waste. Balanced against these developments is the risk that medical professionals will forget that their primary responsibility is to their patients, not to a template of care. Written for anyone who has considered a career in health care--and for any patient who has had an office visit where a provider spent more time with data-entry than with them--this book weighs the benefits of emerging technologies against the limitations of traditional systems to envision a future where both doctors and patients are better-informed consumers of health care tools.

advances in graves disease and other hyperthyroid disorders elaine a moore: *Holistic Treatment in Mental Health* Cheryl L. Fracasso, Stanley Krippner, Harris L. Friedman, 2020-09-23 The first of its kind, this guidebook provides an overview of clinical holistic interventions for mental-health practitioners. Submissions from 21 contributors examine the validity of different methods and provide information on credentialed training and licensure requirements necessary for legal and ethical practice. Chapters covering a range of healing modalities describe the populations and disorders for which the intervention is most effective, as well as the risks involved, and present research on the effectiveness of treatment, with step-by-step sample clinical sessions.

advances in graves disease and other hyperthyroid disorders elaine a moore: *Trouble Breathing* Jeff Fraser, 2021-12-16 Breathing is so fundamental to life that the brain is hardwired so that when breathing is compromised for any reason, nothing else matters. Shortness of breath is an attention-getter, but when breathing problems become frequent, help is needed. Health care providers are there to help and prescribe medication that brings temporary relief, but many patients leave with unanswered questions about more permanent, long-lasting treatments or cures. This book guides respiratory patients toward having the most productive relationships with their doctors. A respiratory therapist (RRT), the author uses decades of clinical experience to outline how patients can be more active participants in their own medical care. With a better understanding of the right questions, more beneficial discussions with doctors will help fine-tune every individual's medical care plan.

advances in graves disease and other hyperthyroid disorders elaine a moore: *Central Sensitization and Sensitivity Syndromes* Amy Titani, 2017-07-06 Millions of people experience symptoms of central sensitization (CS) and central sensitivity syndromes (CSS) such as chronic fatigue syndrome, fibromyalgia and multiple chemical sensitivities. Yet many lack diagnoses, education and resources. Without proper support, some patients may become withdrawn, suffering needlessly and possibly developing mental illness. Covering the syndromes within the context of central sensitization (CS), this book provides candid personal experience, strategies for symptom management, and suggested methods for coping and long-term healing, with easy-to-understand science.

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advances in graves disease and other hyperthyroid disorders elaine a moore: *Managing Hypertension* Sandra A. Moulton, 2016-11-03 Hypertension, or high blood pressure, is a common chronic disease affecting people of different ages, cultural backgrounds and socio-economic statuses worldwide. Research links hypertension to increased risk of heart disease, kidney disease and cardiovascular disease--the leading cause of death worldwide. This book provides an up-to-date illustrated overview of research findings concerning hypertension, covering risk factors, increase in prevalence, cultures affected and challenges to treating and managing the disease in specific

populations. Pharmacological and non-pharmacological methods for effectively managing hypertension are discussed.

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Mammography and Early Breast Cancer Detection Alan B. Hollingsworth, M.D., 2016-08-22 Early detection of breast cancer is critical. Yet efforts to cut back on mammography or even stop screening altogether have been gaining ground in the medical community's decades-long debate over testing and treatment. It is not a purely scientific debate--back-room politics and hidden agendas have played as much a role as clinical data, leading to some surprising conclusions. Written by one of the first physicians in the country to specialize in breast cancer risk assessment, genetic testing and high-risk interventions, this book focuses on the screening controversy and explains the arguments used on both sides. The author covers the history of screening, from the first mobile unit on the streets of Manhattan to the cutting edge imaging technology of today.

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Training Micah R. Sadigh, 2020-01-17 Using repeated sets of exercises meant to relax and desensitize the mind, autogenic training equips patients to deal with chronic conditions such as anxiety disorders, recurring pain and stress. Patients learn how to gain control over their symptoms and improve coping to reduce suffering. This expanded edition presents practitioners with a concise exploration of autogenic technique and its clinical use for patients, especially in treating those suffering from chronic pain syndrome and disrupted sleep.

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Like Hell, Living with Gusto Victoria Stopp, 2017-11-29 Tuesday morning, I spent an hour with a neurologist trying to figure out why I kept tripping over my feet. He pushed and pulled on my legs, whacked me with a reflex hammer and shone a light so deep into my eyes I thought it might illuminate the wall behind my head. That afternoon, I drove home and ordered a new backpacking tent. Pain is an unforgiving equalizer--forget social status, race or gender. For people suffering from chronic pain, real life can get lost among endless appointments, diagnoses, prescriptions and medical bills. Living a life beyond mere survival becomes as big a battle as fighting the pain itself. Drawing on her experiences as both a patient and a health-care professional, the author candidly describes her sudden transition from a healthy, active lifestyle to years of learning to live with debilitating pain.

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with Bipolar Disorder Karen R. Brock, M.D., 2014-07-09 Bipolar means more than mood swings and chemical imbalances. It is a genetic brain regulation malfunction causing not only mood but behavioral symptoms. Severity and symptoms vary along a spectrum of disease presentations, from a happy, positive personality, to a moody temperament, to chronic and recurrent depressions, to classic manic-depressive illness. It is a chronic disease with periods of illness as well as remission. Keeping the disease under control requires daily maintenance and vigilance for emerging symptoms. The goal of this book is to help the bipolar person successfully manage his or her illness and live a full and meaningful life. First, the reader will learn all about bipolar disorder: how it presents, how it is diagnosed, how it is passed down in families, and how it affects women as compared to men. Next, the various types of treatment and the logistics of daily maintenance are discussed in detail. Finally, the advantages and disadvantages of bipolar disorder are explored and the lives of interesting and outstanding historical and current bipolar individuals are examined.

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Autism and Their Epigenetic Roots K. John Morrow, Jr., 2014-07-15 This book considers the branch of heredity known as epigenetics and its implications for a variety of diseases in humans and animals. After background information on the growth in understanding genetics and the mechanisms of the epigenetic control of gene expression, the book moves into its main focus: the gathering body of evidence connecting genetics to a range of significant illnesses, including cancer, autism, Alzheimer's disease, diabetes and others. Areas of uncertainty are stressed as well as the scientific debate concerning the role of environmental factors. The final chapters discuss the implications for

society. Extensive notes provide additional details and personal anecdotes.

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advances in graves disease and other hyperthyroid disorders elaine a moore: *Autoimmune Diseases and Their Environmental Triggers* Elaine A. Moore, 2015-10-02 Autoimmune Disease (AD) refers to any of a number of disorders caused by an immune system defect that allows the body to attack its own tissues. Some say 20 percent of the population is susceptible to Autoimmune Disease. According to current theory, individuals who develop AD do so because they are exposed to certain environmental triggers. This work is a comprehensive resource for patients with autoimmune disease. The primary focus is on the specific environmental factors, including heavy metals, hormones, organic solvents, medications, and infectious agents, that lead to autoimmune disease and that make the symptoms worse in genetically susceptible individuals. Sections of this work describe the immune system, the natural courses of disease for the various system-wide and organ-specific autoimmune disorders, and genetic factors and lifestyle influences associated with AD. Diagnostic concerns, conventional and alternative treatment options for AD, current research paths, and laboratory tests are also covered.

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autoimmune diseases associated with it, genetic and nongenetic influences, allopathic treatments, alternative medicine, special considerations in pregnant women, children, and teens, hyperthyroidism associated with GD, anecdotes and testimony of patients, and resources for further information. A list of medical acronyms and a glossary of medical terms is included.

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