



GOUT AND OTHER CRYSTAL ARTHROPATHIES IN CANADA

HIGHLIGHTS FROM THE CANADIAN CHRONIC DISEASE SURVEILLANCE SYSTEM

Arthropathies are a general term referring to diseases of the joints. Gout is a form of crystal arthropathies, characterized by the changes in uric acid levels which lead to joint swelling and sometimes, joint damage. The reported prevalence and incidence of gout are increasing worldwide and it is considered to be the most common type of inflammatory arthritis.^{1,2} Symptoms of gout and other types of crystal arthropathies, including pseudogout, are often treated with medication, but lifestyle changes may also help.³

The Public Health Agency of Canada (PHAC), in collaboration with all Canadian provinces and territories, conducts national surveillance of gout and other crystal arthropathies to support public health action. This fact sheet presents an overview of diagnosed gout and other crystal arthropathies data from the Canadian Chronic Disease Surveillance System (CCDSS). For further information, refer to **WHAT'S IN THE DATA?**

WHAT ARE GOUT AND OTHER CRYSTAL ARTHROPATHIES?

Gout and pseudogout are the two most common types of crystal arthropathies, caused by small crystals that accumulate in the joints.⁴ Gout is characterized by the crystallization of uric acid within the joints and is often associated with the excess of uric acid in the blood.

Hyperuricemia, while pseudogout results from deposits of calcium pyrophosphate crystals in the joints. The body's immune system is triggered by these crystals, and the immune system activity can lead to pain, swelling and redness in the joint and surrounding tissues. While gout can occur in any joint, it often occurs at the base of the big toe.⁵ Other joints commonly involved include the knees, ankles, elbows, wrists and fingers. Both gout and pseudogout are episodic in nature with active and inactive periods. Active periods or "attacks" vary in length and severity, although it is common that pseudogout episodes are less intense than gout. Repeated attacks of these conditions may become more frequent, last longer and affect more joints, and can cause permanent joint damage.

HOW MANY CANADIANS LIVE WITH GOUT AND OTHER CRYSTAL ARTHROPATHIES (PREVALENCE) AND HOW MANY ARE NEWLY DIAGNOSED EACH YEAR (INCIDENCE)?

Approximately 681,000 (2.4%) Canadians aged 20 years and older had been diagnosed with gout and other crystal arthropathies and 54,000 (1.9 per 1,000 persons per year) were newly diagnosed in 2015-2017. The prevalence and incidence of diagnosed gout and other crystal arthropathies generally increase with age and are higher among males (3.7% and 2.8 per 1,000 persons per year, respectively) compared to females (1.1% and 1.0 per 1,000 persons per year, respectively) (Figures 1 and 2).



Gout Other Crystal Arthropathies Gout Other Crystal Arthropathies

Mark D. Bracker



Gout Other Crystal Arthropathies Gout Other Crystal Arthropathies:

Gout & Other Crystal Arthropathies E-Book Robert Terkeltaub, 2011-08-19 Gout and Other Crystal Arthropathies by Dr Robert Terkeltaub presents the state of the art clinically focused coverage you need to manage these increasingly prevalent diseases Diagnose the full range of crystal arthropathies including pseudogout intercritical gout hyperuricemia and gouty arthritis and treat your patients effectively with discussions of recently approved drugs like Uloric and those currently under review such as Kristexxa and Colcryst With coverage of the latest therapies preventions and imaging studies along with access to the fully searchable text online at www.expertconsult.com this comprehensive resource is ideal for any physician who diagnoses treats and manages gout and crystal induced arthropathies Stay current on recent developments such as uricosuric therapy and inhibitor therapy gout flare prophylaxis and colchicines ultrasound in the diagnosis of crystal deposition diseases imaging of gout CPPD and hydroxyapatite deposition diseases and uricase therapy of gout Manage the full range of crystal arthropathies with 25 clinically focused chapters on pseudogout intercritical gout hyperuricemia gouty arthritis and more Treat your patients effectively using the latest information on drug treatments from the recently approved Uloric to Kristexxa and Colcryst which are still under review *Gout and Other Crystal Arthropathies* Robert Terkeltaub, 2011-09-01 Gout and Other Crystal Arthropathies by Dr Robert Terkeltaub presents the state of the art clinically focused coverage you need to manage these increasingly prevalent diseases Diagnose the full range of crystal arthropathies including pseudogout intercritical gout hyperuricemia and gouty arthritis and treat your patients effectively with discussions of recently approved drugs like Uloric and those currently under review such as Kristexxa and Colcryst With coverage of the latest therapies preventions and imaging studies along with access to the fully searchable text online at www.expertconsult.com this comprehensive resource is ideal for any physician who diagnoses treats and manages gout and crystal induced arthropathies Access the fully searchable contents online at www.expertconsult.com Stay current on recent developments such as uricosuric therapy and inhibitor therapy gout flare prophylaxis and colchicines ultrasound in the diagnosis of crystal deposition diseases imaging of gout CPPD and hydroxyapatite deposition diseases and uricase therapy of gout Manage the full range of crystal arthropathies with 25 clinically focused chapters on pseudogout intercritical gout hyperuricemia gouty arthritis and more Treat your patients effectively using the latest information on drug treatments from the recently approved Uloric to Kristexxa and Colcryst which are still under review The tools to you need to diagnose treat and manage gout and other crystal arthropathies **Gout and Other Crystal Arthropathies in Canada**, 2020 [Gout and Other Crystal Arthropathies](#) Robert Terkeltaub, 2012 **Gout and Calcium Crystal Related Arthropathies, An Issue of Rheumatic Disease Clinics** Tuhina Neogi, 2014-05-28 Gout is now the most common form of inflammatory arthritis in the United States with a recent resurgence of research interest in its cause and management Calcium crystal related arthritis has also attracted renewed attention with new nomenclature having been recently elaborated aiding contemporary research efforts

This topic has never been covered in Rheumatic Disease Clinics and it represents a large content hole The articles will cover diagnosis management emerging therapies and imaging *Harrison's Rheumatology* Anthony S. Fauci,Carol A. Langford,2006 State of the art coverage of the mechanisms of rheumatologic diseases and disorders and their diagnosis and treatment drawn from the world s leading medical text and referenced to up to the minute research conducted by today s leading experts **Pathobiology of Human Disease** ,2014-08-01 Pathobiology of Human Disease bridges traditional morphologic and clinical pathology molecular pathology and the underlying basic science fields of cell biology genetics and molecular biology which have opened up a new era of research in pathology and underlie the molecular basis of human disease The work spans more than 48 different biological and medical fields in five basic sections Human Organ Systems Molecular Pathology Basic Mechanisms of Diseases Animal Models Other Model Systems Experimental Pathology Clinical Pathology Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from research professionals to advanced undergraduate students Reviews quantitative advances in the imaging and molecular analysis of human tissue new microarray technologies for analysis of genetic and chromosomal alterations in normal and diseased cells and tissues and new transgenic models of human disease using conditional tissue specific gene targeting Articles link through to relevant virtual microscopy slides illustrating side by side presentation of Normal and Disease anatomy and histology images Fully annotated with many supplementary full color images graphs tables and video files linked to data sets and to live references enabling researchers to delve deeper and visualize solutions *Multi-Energy CT: The New Frontier in Imaging, An Issue of Radiologic Clinics of North America* Savvas Nicolaou,Mohammed F. Mohammed,2018-06-30 This issue of Radiologic Clinics of North America focuses on Multi Energy CT The New Frontier in Imaging and is edited by Drs Savvas Nicolaou and Mohammed F Mohammed Articles will include Dual Energy CT Image Acquisition Processing and Workflow Dual Energy CT Dose Reduction Contrast Load Reduction and Series Reduction in DECT Dual Energy CT in Cardiothoracic Vascular Imaging Advanced Musculoskeletal Applications with Dual Energy CT Dual Energy CT of the Acute Abdomen The Role of Dual Energy CT in Assessment of Abdominal Oncology Future Developments in Dual Energy CT Strategies to Improve Image Quality on DECT Pearls pitfalls and problems in DECT imaging of the body Dual Energy CT Technology and Challenges The Role of Dual Energy CT in Thoracic Oncology and more *Palaeopathology* Tony Waldron,2020-12-10 Palaeopathology is an evidence based guide to the principal types of pathological lesions often found in human remains and how to diagnose them Tony Waldron presents an innovative method of arriving at a diagnosis in the skeleton by applying what he refers to as operational definitions The method ensures that those who study bones will use the same criteria for diagnosing disease thereby enabling valid comparisons to be made between studies Waldron s book is based on modern clinical knowledge and provides background information on the natural history of bone disease In addition the volume demonstrates how results from studies should be analysed methods of determining the frequency of disease and

other types of epidemiological analysis This edition includes new chapters on the development of palaeopathology basic concepts health and disease diagnosis and spinal pathology Chapters on analysis and interpretation have been thoroughly revised and enlarged

Kochar's Clinical Medicine for Students Dario M. Torre, Geoffrey C. Lamb, Jerome Van Ruiswyk, Ralph M. Schapira, 2009 Thoroughly revised for its Fifth Edition this concise textbook is ideal for medical students in internal medicine clinical clerkships This edition's content reflects current guidelines from the Clerkship Directors in Internal Medicine and the National Board of Medical Examiners on topics necessary for this rotation The book is a collaboration between clinical faculty at the Medical College of Wisconsin and clerkship students who have reviewed all chapters for relevance to the clerkship experience A companion Website will offer the fully searchable text 39 additional chapters 300 multiple choice questions with detailed explanations organized to mimic end of rotation exam settings ECG and CXR images with explanations narrated physical examination videos and Medicine Rounds a quick review of questions frequently asked on rounds The online chapters include Congenital Heart Diseases Electrocardiography Pulmonary Function Testing Cystic Fibrosis Pulmonary Hypertension Adult Respiratory Distress Syndrome ARDS Mycoses Thyroid Cancer Benign and Malignant Liver Tumors Nonalcoholic Fatty Liver Disease Pancreatic Cancer Leukopenia Reactive Leukocytosis Eosinophilia Blood Transfusion Heparin Induced Thrombocytopenia Renal Tubular Acidosis Acid based Abnormalities Somatization Substance Abuse and Dependence General Approach to Dermatologic Disorders Dermatitis and Eczema Vitiligo Herpes HSV and HZV Common Warts Erysipelas Scabies Anaphylaxis Drug Allergy Chronic Pain Red Eye Benign Breast Problems Preconception Care and Issues in Pregnancy Functional Decline in the Elderly

The Netter Collection of Medical Illustrations: Integumentary System, Volume 4 - E-Book Bryan E. Anderson, 2023-11-24 Offering a concise highly visual approach to the basic science and clinical pathology of the integumentary system this updated volume in The Netter Collection of Medical Illustrations the CIBA Green Books contains unparalleled didactic illustrations reflecting the latest medical knowledge Revised by Dr Bryan E Anderson Integumentary System Volume 4 integrates core concepts of anatomy physiology and other basic sciences with common clinical correlates across health medical and surgical disciplines Classic Netter art updated and new illustrations and modern imaging continue to bring medical concepts to life and make this timeless work an essential resource for students clinicians and educators Provides a highly visual guide to the skin hair and nails from normal anatomy and histology to pathology dermatology and common issues in plastic surgery and wound healing Covers new topics throughout including infantile hemangiomas COVID 19 porphyria cutanea tarda and Muir Torre syndrome Provides a concise overview of complex information by integrating anatomical and physiological concepts with clinical scenarios Compiles Dr Frank H Netter's master medical artistry an aesthetic tribute and source of inspiration for medical professionals for over half a century along with new art in the Netter tradition for each of the major body systems making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff NEW An eBook version is included with

purchase The eBook allows you to access all of the text figures and references with the ability to search make notes and highlights and have content read aloud *Musculoskeletal Imaging* Thomas Pope, MD, FACR,Hans L. Bloem, MD, PhD,Javier Beltran, MD, FACR,William B. Morrison, MD,David John Wilson,2014-10-21 In its fully revised and updated second edition Musculoskeletal Imaging covers every aspect of musculoskeletal radiology This medical reference book incorporates the latest diagnostic modalities and interventional techniques as well as must read topics such as hip groin and cartilage imaging newly described impingements and new concepts in the hip including teres ligament pathology Accessibility in print online and across portable devices makes Musculoskeletal Imaging a fully searchable and dependable source for both reading and reference This publication is a key title in the popular Expert Radiology Series which delivers evidence based expert guidance from around the globe This is an excellent benchbook and accompanying electronic resource which will be of value to trainee radiologists and established consultants Reviewed by Dr Steve Amerasekara Consultant Radiologist on behalf of journal RAD Magazine Date July 2015 This outstanding text is now an acclaimed primary resource and therefore belongs in the libraries and at the work stations of all general and orthopedic hospital departments of radiology and indeed at any and all imaging facilities involved in musculoskeletal imaging Foreword by Lee F Rogers June 2015 Fully understand each topic with a format that delivers essential background information Streamline the decision making process with integrated protocols classic signs and ACR guidelines as well as a design that structures every chapter consistently to include pathophysiology imaging techniques imaging findings differential diagnosis and treatment options Write the most comprehensive reports possible with help from boxes highlighting what the referring physician needs to know as well as suggestions for treatment and future imaging studies Access in depth case studies valuable appendices and additional chapters covering all of the most important musculoskeletal procedures performed today Quickly locate important information with a full color design that includes color coded tables and bulleted lists highlighting key concepts as well as color artwork that lets you easily find critical anatomic views of diseases and injuries Engage with more than 40 brand new videos including arthroscopic videos Easily comprehend complicated material with over 5 000 images and new animations Explore integrated clinical perspectives on the newest modalities such as PET CT in cancer diffusion MR as well as ultrasonography fusion imaging multi slice CT and nuclear medicine Learn from team of international experts provides a variety of evidence based guidance including the pros and cons of each modality to help you overcome difficult challenges Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures references and videos from the book on a variety of devices **Comprehensive Atlas of Ultrasound-Guided Pain Management Injection Techniques** Steven Waldman,2019-10-08 In recent years ultrasound has become an essential tool for clinicians who care for patients suffering from acute or chronic pain Comprehensive Atlas of Ultrasound Guided Pain Management Injection Techniques 2nd Edition depicts in clear step by step detail how to prepare and perform injections

under ultrasound guidance Noted pain expert Dr Steven D Waldman's succinct easy to read writing style guides you through more than 180 useful techniques all highlighted by hundreds of full color oversized images designed to demonstrate the ease and utility of ultrasound in contemporary pain management care **Atlas of Common Pain Syndromes E-Book** Steven D. Waldman, 2023-07-31 Making the correct diagnosis is the first step in the effective management of patients in pain and simplifying the diagnosis is the primary focus of Atlas of Common Pain Syndromes 5th Edition Dr Steven D Waldman provides clinicians with a clear concise and up to date understanding of the most common pain syndromes encountered in day to day practice along with practical insights on how to diagnose and treat them Featuring more than 1 000 high quality illustrations this unique atlas provides the information needed to make the correct diagnosis the signs and symptoms associated with each syndrome the testing needed to confirm the working diagnosis and the differential diagnosis in addition to the available treatment options Covers more than 130 common pain conditions including headache facial pain brachial plexus pain fibromyalgia arthritis neuropathy bursitis gastrointestinal pain sports injuries musculoskeletal pain and much more Contains 13 new chapters covering Angina Pulmonary Embolus Pneumothorax Gastroesophageal Reflux Disease Peptic Ulcer Disease Abdominal Aortic Aneurysm Spigelian Hernia Ectopic Pregnancy Lyme Disease Sciatic Nerve Entrapment at the Knee Tibial Nerve Entrapment at the Knee Saphenous Neuralgia and Metatarsalgia Uses a consistent easy to follow visual format and features more than 1 000 high quality clearly labeled illustrations tables and radiologic and ultrasound images many new to this edition that provide rich visual guidance and simplify making the correct diagnosis Includes a Side Effects and Complications section and a Clinical Pearls section in every chapter that help you avoid potential pitfalls associated with each common pain syndrome Any additional digital ancillary content may publish up to 6 weeks following the publication date Physical Diagnosis of Pain - E-BOOK Steven D. Waldman, 2024-02-05 In this easy to follow how to do it atlas internationally recognized pain expert Dr Steven D Waldman provides a compendium of practical physical examination techniques that you can use in your daily practice to evaluate and diagnose patients in pain Physical Diagnosis of Pain 5th Edition is the only atlas devoted to this critical area of pain medicine offering a real world focus on how clinicians evaluate pain What is it rather than Where is it You'll be guided step by step through the evaluation and diagnosis of more than 280 pain related conditions based on physical signs Concise superbly illustrated chapters help you rapidly diagnose pathology based on physical techniques rather than relying on imaging alone Examines the full range of pain related conditions in the cervical spine shoulder elbow forearm wrist and hand chest wall thorax and thoracic spine lumbar spine abdominal wall and pelvis hip knee ankle and foot Addresses sacroiliac joint pain as well as entrapment neuropathies including carpal tunnel syndrome tardy ulnar palsy ilioinguinal neuralgia and tarsal tunnel syndrome Follows a consistent format in each chapter for quick reference anatomy inspection palpation and range of motion followed by relevant special tests Features hundreds of high quality radiographic images clinical photos and color line drawings to demonstrate the physical exam clearly and simply

Contains new content spanning 50 new conditions and their associated tests including the Soto Hall Test for Upper Thoracic Spine Pain Sill Sign for Lumbar Instability Compression Test for Sacroiliac Joint Pain Rust Sign for Cervical Spine Instability Linder Sign for Cervical Myelopathy Jull Test for Cervical Strain Shoulder Abduction Relief Test for Cervical Spine Pain Kleiger Test for High Ankle Sprain Valleix Sign for Posterior Tarsal Tunnel Syndrome and more Includes 50 real time videos of Dr Waldman and his staff performing physical examination techniques providing expert how to do it guidance Any additional digital ancillary content may publish up to 6 weeks following the publication date **The Spine, E-Book** Steven D. Waldman, 2021-07-22 Linking theory to practice through the use of authentic clinical cases Dr Steven D Waldman's Pain Medicine A Case Based Learning Series helps readers acquire the valuable skill of effective diagnostic thinking in daily practice The Spine volume uses an in depth case format preparing you to correctly analyze clinical vignettes and formulate a clinically sound evidence based approach to realistic patient scenarios This highly effective leaning and assessment tool provides practical clinical insights into the best methods for diagnosis and treatment for the successful management of patients with spine related pain Presents real world patients in a real world clinical setting making learning fun and engaging The Case Based Learning approach focuses learners and clinicians on the key elements for each diagnosis and helps develop a deep understanding of how to diagnose and treat each condition Covers everyday clinical problems such as Herniated Disc Lumbar Strain Thoracic Vertebral Compression Fracture Epidural Abscess Spondylosis Spinal Stenosis Sacroiliac Joint Pain and more Cases unfold just the way they do in your clinic Each case is accompanied with thoughtful clinical commentary and key messages from the author Each chapter uses high quality radiographic images clinical photos and full color drawings to facilitate a clear easy to understand approach to evaluation and diagnosis An ideal self assessment and review tool for pain medicine practitioners and trainees as well as those preparing for the American Board of Anesthesiology Pain Medicine certification and recertification exam *The 5 Minute Sports Medicine Consult* Mark D. Bracker, 2001 This new addition to The 5 Minute Consult Series is a clinically oriented quick consult reference for sports medicine For the first time common sports related problems faced by primary care practitioners are thoroughly and concisely presented in the famous fast access 5 Minute Consult format Chapters on musculoskeletal problems cover basics diagnosis acute treatment including on field management long term treatment including rehabilitation and referrals and commonly asked questions Other chapters address the special populations of children adolescents females geriatric athletes and disabled athletes and general medical problems in athletic individuals Appendices include clinical care algorithms a guide to the preparticipation examination and patient education handouts **The Knee - E-Book** Steven D. Waldman, 2021-07-20 Linking theory to practice through the use of authentic clinical cases Dr Steven D Waldman's Pain Medicine A Case Based Learning Series helps readers acquire the valuable skill of effective diagnostic thinking in daily practice The Knee volume uses an in depth case format preparing you to correctly analyze clinical vignettes and formulate a clinically sound evidence based approach to realistic patient scenarios

This highly effective learning and assessment tool provides practical clinical insights into the best methods for diagnosis and treatment for the successful management of patients with knee related pain Presents real world patients in a real world clinical setting making learning fun and engaging The Case Based Learning approach focuses learners and clinicians on the key elements for each diagnosis and helps develop a deep understanding of how to diagnose and treat each condition Covers everyday clinical problems such as Osteoarthritis and Rheumatoid Arthritis of the Knee Medical and Lateral Meniscal Tear Anterior Cruciate Ligament Tear Jumper s and Runner s Knee Bursitis Osgood Schlatter Disease Hamstring Tendinitis and more Cases unfold just the way they do in your clinic Each case is accompanied with thoughtful clinical commentary and key messages from the author Each chapter uses high quality radiographic images clinical photos and full color drawings to facilitate a clear easy to understand approach to evaluation and diagnosis An ideal self assessment and review tool for pain medicine practitioners and trainees as well as those preparing for the American Board of Anesthesiology Pain Medicine certification and recertification exam

Imaging in Rheumatic Diseases, An Issue of Rheumatic Disease Clinics of North America Pamela F. Weiss,2016-10-15 This issue of Rheumatic Disease Clinics includes articles such as Imaging of inflammatory arthritis in adults status and perspectives on the use of ultrasound radiographs and magnetic resonance imaging Imaging of inflammatory arthritis in children status and perspectives on the use of ultrasound radiographs and magnetic resonance imaging Imaging evaluation of the entheses ultrasonography magnetic resonance imaging and scoring of evaluation Imaging for diagnosis and longitudinal assessment of osteoarthritis Imaging in axial spondyloarthritis evaluation of inflammatory and structural changes and many more

Pain Management E-Book Steven D. Waldman,2011-06-09 Regarded as the premiere clinical reference in its field Pain Management 2nd Edition edited by noted pain authority Dr Steven Waldman provides comprehensive practical highly visual guidance to help you effectively apply the most recent evidence based advances in pain management This popular text has been updated with 13 new chapters that include the latest information on interventional and ultrasound guided techniques acute regional pain nerve blocks and more A user friendly format with lavish illustrations enables you to access trusted guidance quickly and apply the information easily to bring effective pain relief to your patients Tap into the experience of the book s editor Dr Steven D Waldman author of numerous groundbreaking pain management references and a diverse collection of leading international experts many of whom are new to this edition Effectively diagnose and manage any type of pain by implementing the latest evidence based approaches including interventional and ultrasound guided techniques and acute regional pain nerve blocks Keep up with the most essential and latest topics with fully revised chapters and 13 new chapters that include information on central pain modulation ultrasound guided procedures myelopathy and more Find the critical answers you need quickly and easily thanks to a templated format with all content solely reviewed by Dr Waldman to insure consistency throughout Make more accurate diagnoses and perform nerve blocks successfully with unmatched guidance from 1100 full color large scale illustrations

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