Atlas Optical Coherence Tomography Of Macular Diseases And

This book provides a collection of optical coherence tomography (OCT) images of various diseases of posterior and anterior segments. It covers the details and issues of diagnostic tests based on OCT findings which are crucial for ophthalmologists to understand and incorporate into their clinical practice. Throughout the chapters, the authors offer all aspects of OCT imaging, including normal imaging technique, known for its accuracy and reproducibility. OCT is a non-invasive optical imaging technology that produces 3D images of tissues in real-time, high-resolution cross-sectional images of the macula that are very similar to obtaining in vivo histopathological sections, enabling in accurate and fast diagnosis of posterior and anterior segment diseases.

The book is organized into several sections, discussing and illustrating distinct OCT features, as well as showing other imaging modalities such as fundus autofluorescence, perimetry and laboratory examination. This book also covers clinical pathologies and vitreous abnormalities. The atlas has been allocated to anterior segment diseases, including cataract, glaucoma, retinal vascular disease, and genetic abnormalities, and further hot topics are also considered. The chapters are written by leading international ophthalmologists from academic centers and the numerous high-quality OCT images ensure that the reader will easily be able to follow the key issues. This book, with its clinical emphasis, will have wide appeal for residents, fellows, and experienced practitioners in ophthalmology, as well as optometrists and medical students and graduates.

The Practical Atlas of OCT Angiography covers the Multiple uses and interpretation of OCT and its various applications in ophthalmology related to the posterior segment and the ret-in. The book presents the diagnosis and management of glaucoma, age-related macular degeneration, the integration of OCT and fluorescein angiography and the diagnosis and management of ocular tumors.

Ophthalmologists are one of the leading causes of visual impairment and are present in our daily clinical practice. Optical coherence tomography (OCT) is an essential ancillary test when approaching and managing patients with macular disease. OCT offers C-scans (frontal scans) called Enface by possessing a 3D cube and slice it into each retinal layer. This atlas will help ophthalmologists know essential things to expect when approaching patients with macular diseases using structural Enface OCT. The atlas discusses main pathological findings, including anatomical changes post-treatment. We are living in the era of advanced multi-modal retinal imaging, including structural Enface OCT, which aids not only in confirming and archiving macular diseases. Structural Enface OCT will reveal subtle pathological changes in clinical examination, post-treatment plans, and the ability to assess treatment efficacy when following up patients with macular disease.

The advancement of OCT in the last decade has resulted in the development of OCT angiography contributing successfully to the diagnosis and follow-up of early and late stages of disease. OCT angiography provides an overview of the disease and its progression and enables us to follow-up patients in a more precise manner. OCT angiography is useful for many retinal diseases, including diabetic retinopathy, age-related macular degeneration, uveitis, glaucoma, retinal vascular disease, and genetic abnormalities.

The atlas is eminently practical and aims to provide, including for educational purposes, a guide for handy and comprehensive OCT imaging reference. To date, the atlas is the only one to present OCT imaging of the retina in a structured and organized manner. It is also the first to present OCT images of the retina in a structured and organized manner. This atlas is a valuable tool for ophthalmologists, residents, and fellows in training.

The atlas provides a great advantage over other diagnostic modalities, as it could noninvasively provide OCT imaging of the retina of a living eye. As a result, a number of recent findings in retinal diseases were made using the time-domain OCT. OCT has now become an essential medical equipment in ophthalmic care and quality textbooks describing the functionality of OCT are very important in the education of young ophthalmologists and eye care personnel. In this book are chosen high quality OCT images of rather common diseases as well as images of several rare diseases.

With more than 5,000 images and comprehensive illustrations of the entire spectrum of retinal vision, retina, and macula diseases, the Retina Atlas, 2nd Edition, is an indispensable reference for retina specialists and comprehensive ophthalmologists as well as residents and fellows in training. For this edition, an expanded author team of Drs. K. Bailey Freund, David Sarrat, William F. Meier, and Lawrence A. Yannuzzi, each an expert in retinal research and imaging, provide definitive up-to-date perspectives in this rapidly advancing field. This award-winning title has been thoroughly updated with new images with multimodal illustrations, new coverage and insight into key topics, and new classifications and modifications making it the most useful and most complete atlas of its kind. Provides a complete visual guide to advanced retinal imaging and diagnosis of the full spectrum of retinal diseases, including early and later stages of disease. Enhances understanding by presenting comparison imaging modalities, composite layouts, high-power views, panoramic disease views, and selected magnified areas to hone in on key findings and disease patterns. Features color coding for different imaging techniques, as well as user-friendly arrows, labels, and magnified images that point to key lesions and abnormalities. Covers all current retinal imaging methods including: optical coherence tomography (OCT), indocyanine green angiography, fluorescein angiography, and fundus autofluorescence. Depicts and explains expanding OCT uses, including spectral domain and en face OCT, and evolving retinal imaging modalities such as ultra-wide-field fundus photography, angiography, and autofluorescence. Presents a select team of experts, all of whom are true international leaders in retinal imaging, and have assisted in contributing to the diverse library of common and rare case illustrations.

The emergence of Optical Coherence Tomography (OCT) in recent years revolutionized the way we see the retina. Providing, in real-time, high-resolution cross-sectional images of the macula that are very similar to obtaining in vivo histopathological specimens, OCT represents a major advance in the diagnostics of retinal disease. The excitement of working with this new tool has been dampened by the non-availability of any standard textbook on the subject and meant that every new finding on the OCT saw table has been written in the form of scattered articles or散在 can be considered as the most important book on Optical Coherence Tomography of Macular Diseases covers how to use Stratus OCT for diagnosing various macular disorders, identifying correct therapeutic approaches and monitoring the responses to therapies and interventions. The authors provide brief case summaries, fundus photographs, spectral domain OCT images, OCT angiograms, optical coherence microscopy images, OCT images of various diseases of posterior and anterior segments. The book is also organized into several sections, discussing and illustrating distinct OCT features, as well as showing other imaging modalities such as fundus autofluorescence, perimetry and laboratory examination. This book also covers clinical pathologies and vitreous abnormalities. The atlas has been allocated to anterior segment diseases, including cataract, glaucoma, retinal vascular disease, and genetic abnormalities, and further hot topics are also considered. The chapters are written by leading international ophthalmologists from academic centers and the numerous high-quality OCT images ensure that the reader will easily be able to follow the key issues. This book, with its clinical emphasis, will have wide appeal for residents, fellows, and experienced practitioners in ophthalmology, as well as optometrists and medical students and graduates.
fluorescein angiography, and the OCT images and the follow up images. They discuss OCT applications for diagnosis, management, and follow-up in diabetic macular edema, macular hole, taut posterior hyaloid membrane, vitreomacular traction, idiopathic central serous chorioretinopathy, submacular pathology, and more.

This atlas examines developments in clinical en face imaging, comparing methods and devices and evaluating the most clinically efficient techniques. Divided into three sections, the first part introduces the principles of OCT (optical coherence tomography) and the anatomy and histology of the retina and surrounding area. The second section discusses en face OCT in diagnosing and treating different ocular diseases and disorders. More than 1000 pathological images obtained using different OCT devices are included. The final part describes future developments in the technological and scientific aspects of OCT and their clinical applications. Key points Evaluate clinical en face OCT techniques for numerous ocular diseases and disorders. Each case includes pathological images from different devices for comparison internationally recognised European and US author and editor teams.

This unique atlas is the most comprehensive and up-to-date reference of laser scanning ophthalmoscopy. It is ideal for residents and general ophthalmologists who want to enhance their diagnostic skills. The atlas contains superb images of all clinically relevant diseases diagnosed by current models of the Heidelberg Retina Tomograph. It correlates classic diagnostic tools such as tonometry, fundus photography with state-of-the-art studies including digital retinal angiography, optical coherence tomography and laser scanning tomography. Special features include the illustrated coverage of diseases of the optic nerve head; different types and stages of glaucoma, and other topics.

The fourth edition of this atlas has been completely updated to provide the latest thinking and technology developments in the use of OCT with macular diseases and glaucoma. Beginning with an introduction to OCT, the following section discusses its use with a range of conditions and disorders associated with macular diseases such as diabetic macular oedema, retinal vein occlusion, pigment epithelial detachment, and age-related macular degeneration. The third section examines the use of OCT for diagnosis and management of glaucoma.

Illustrated collection of images and comprehensive guide to identifying anatomy and pathology of retinal disease as illustrated on OCT (Optical Coherence Tomography). Pertinent tips to acquiring quality images are outlined with both spectral domain and time domain for disease pathology, with multiple examples of common retinal disease images.

Optical Coherence Tomography (OCT) is a novel, non-invasive, dyeless imaging modality that has emerged as an indispensable tool in the fields of ophthalmology and ophthalmology. OCTA provides three-dimensional volumetric images of the retinal and choroidal vasculature by using a motion-contrast decorrelation algorithm. This cutting-edge imaging technology has widespread clinical utility as a non-invasive alternative for visualizing microvasculature in detail, but there are no textbooks dedicated to its use and the interpretation of scans. To fill this need, Optical Coherence Tomography Angiography Atlas: A Case Study Approach, by Dr. Julie A. Rodman, is a richly illustrated, practical guide to OCTA. It provides detailed information on the fundamental principles behind the technology, as well as clinical applications critical for accurate interpretation. The first section of the book discusses the principles behind OCTA and provides an introduction into the interpretation of OCTA images, including a chapter devoted to terminology. The remainder of the book provides detailed analysis of a myriad of inner and outer retinal disorders, including diseases of the optic nerve head. Most importantly, for the clinical setting, the cases are presented with numerous images and a multitude of arrows and callouts to assist in the recognition of various clinical findings. Case examples include: Vascular Oclusive Disease Pigment Epithelial Detachment Choroidal Neovascular Membrane Diabetic Retinopathy Optic Disc Edema Dr. Rodman also outlines the use of OCTA technology and step-by-step interpretation of images makes Optical Coherence Tomography Angiography Atlas: A Case Study Approach a must-have resource for physicians, residents, students, and ophthalmic technicians looking for a simple, comprehensive guide to OCTA.

The fourth edition of this atlas has been completely updated to provide the latest thinking and technology developments in the use of OCT with macular diseases and glaucoma. Beginning with an introduction to OCT, the following section discusses its use with a range of conditions and disorders associated with macular diseases such as diabetic macular oedema, retinal vein occlusion, pigment epithelial detachment, and age-related macular degeneration. The third section examines the use of OCT for diagnosis and management of glaucoma. This new edition features more than 1300 illustrations including fundus photographs, fluorescein angiography and OCT images. Brief case studies are described and a new chapter on multimodal imaging has been included in this new edition. The bestselling previous edition published in 2010.

Optical Coherence Tomography, A Clinical Atlas of Retinal Images is a richly illustrated collection of images and comprehensive guide to identifying anatomy and pathology of retinal disease as illustrated on OCT (Optical Coherence Tomography). Pertinent tips to acquiring quality images are outlined with both spectral domain and time domain OCT images. Brief case studies are described and a new chapter on multimodal imaging has been included in this new edition. The bestselling previous edition published in 2010.

Retinal diseases are one of the leading causes of visual impairment and are presented in our daily clinical practice.Optical coherence tomography (OCT) is one of the most important ancillary tests when approaching and managing patients with macular disease. This atlas will help ophthalmologists to know essential things to expect when approaching patient with macular diseases. The atlas discusses main pathological findings including biomarkers along anatomical changes post-treatment. We are living in the era of advanced multi-modal retinal imaging, including OCT, which aids not only in confirming and archiving macular diseases. OCT will reveal subtle pathological changes in clinical examination, and biomarkers contribute to visual prognosis and treatment plans and the ability to assess the efficacy of treatment follow-up. The advancements of social media made telemedicine accessible to all colleagues worldwide to share experience remotely; hence OCT contributed to easy sharing of clinical cases aiding in accurately approaching macular diseases. This atlas is powered by Syrris ophthalmological society, which contains 230+ OCT images in about 200 pages covering OCT scans, normal OCT scans, pathological changes in OCT, and OCT changes in common macular diseases. This atlas will help ophthalmologists know essential things to expect when approaching patient with macular diseases. This atlas discusses main pathological findings, including biomarkers, along with anatomical changes post-treatment. Please note that this book won’t and never replace individual clinical experience to individualize and tailor treatment for every patient based on clinical presentations, physician expertise, and available resources. Please forgive me if there are any spelling, or syntax mistakes as English is not my native language, and there are other copies of this manuscript in Arabic. For further assistance and information please contact me amenmarashi@hotmail.com

Features more than 1,000 superb illustrations depicting the full spectrum of retinal diseases using OCT scans, supported by optical photos and ancillary imaging technologies. Presents images as large as possible on the page with an abundance of arrows, pointers, and labels to guide you in pattern recognition and eliminate any uncertainty. Includes the latest high-resolution spectral domain OCT technology and new insights into OCT angiography technology to ensure you have the most up-to-date and highest quality examples available. Provides key feature points for each disorder giving you the need-to-know OCT essentials for quick comprehension and rapid reference. An excellent diagnostic companion to Handbook of Retinal OCT: Optical Coherence Tomography, by the same expert author team of Drs. Jay S. Duker, Nadia K. Waheed, and Darrin R. Goldman.

This lavishly illustrated unique atlas provides a comprehensive and up-to-date overview of FAF imaging in retinal diseases. It also compares FAF findings with other imaging techniques such as fundus photograph, fluorescein- and ICG angiography as well as optical coherence tomography. General ophthalmologists as well as retina specialists will find this a very useful guide which illustrates typical FAF characteristics of various retinal diseases.

Clinical OCT Angiography Atlas is a comprehensive guide to this important new imaging modality in ophthalmology. The book is divided into two parts: the first covers the technology and interpretation of OCT angiography, the second covers the study of diseases and disorders using OCT angiography. The second part is further divided into seven sections which provide a general update on clinical OCT angiography research across a range of retinal and choroidal disorders. The final section discusses ongoing research and future developments in technology, particularly Ultrahigh Speed Swept Source Technology. Enhanced by over 900 colour images, and edited by an internationally recognised team of ophthalmology experts led by Prof Bruno Lumbroso, this book is
A lavishly illustrated step-by-step guide to retinal disorders. This atlas, by two of the world's leading authorities, is extensively illustrated with hundreds of full-color clinical photographs. It delivers the step-by-step visual guidance on a wide range of retinal disorders, accompanied by differential diagnoses in side-by-side page layouts to assist the reader in identifying a full range of retinal disorders. It includes the basics of fluorescein angiography, indocyanine green angiography, scanning laser ophthalmoscopy based angiography, time-domain and spectral domain high-resolution optical coherence tomography with perimeter and multifocal electroretinography. This extremely timely, thorough, and well integrated book will be valuable to the active vitreoretinal specialist as well as comprehensive ophthalmologist. Features: Global perspective More than 100 chapters DVD with spectral-domain high-resolution optical coherence tomography videos 2300 full-color images Step-by-step macular surgeries First retina atlas presenting the medical and surgical aspects of vitreoretinal diseases in a comprehensive manner

Optical coherence tomography (OCT) is a non-invasive imaging test that uses light waves to take cross-sectional pictures of the retina, the light-sensitive tissue lining the back of the eye (eyeSmart). The technique is recognised worldwide as an essential device for diagnosis, assessment and follow up of retinal diseases and glaucoma. This Atlas provides ophthalmologists and trainees with a collection of OCT images to help with the identification, diagnosis and subsequent treatment of common retinal and anterior segment disorders. The images are compiled from the authors' own collections using Plex Elite and Cirrus 6000 technology. Fundus angiography images assist with the understanding of related pathologies. Divided into two sections, the book begins with images illustrating the normal fundus, then numerous different retinal disorders including diabetic retinopathy, macular disorders, retinal detachment, uveitis and toxicities. Section two covers anterior segment disorders, beginning with images of the normal cornea, then illustrating a range of disorders including corneal dystrophies, ocular surface disorders, keratoconus, glaucoma, and trauma. Each section features a multitude of images, each with brief descriptive text.

This atlas presents an overview of Swept Source Optical Coherence Tomography (OCT) and its implications on diagnostics of vitreous, retina and choroid. As the sensitivity of OCT imaging devices has increased, updated technologies have become available for engineers, scientists and medical specialists to adopt, and recent developments have led to the creation of a new generation of devices. The aim of this resource is to explain this new technology and its advantages over previous imaging devices and to illustrate how it may be used in to define eye diseases, aid in their treatment and facilitate treatment options.

This 3 volume set offers a comprehensive compilation which presents detailed information about ophthalmic (retinal, vitreous and macular) diseases. Key features of this set include: o Emphasis on practical features of clinical diagnosis o Concise and didactic presentation of key manifestations of diseases designed for rapid reference and target recall o A vast selection of illustrations to sharpen clinical problem-solving skills o Step by step treatment approaches to enhance the reader's ability to handle medical cases o Citations or relevant research articles in each chapter for further reading o The third volume of this set covers eye infections (bacterial and viral), inflammatory disorders and neoplasms. Written by a group of retina specialists, this book is an excellent resource for knowledge about retinal disorders. The streamlined format and evidence based medicine presented in the volume make this book the perfect reference for medical students, residents, general ophthalmologists and retina specialists.

This atlas is a practical and fully illustrated guide to the use of intravascular OCT in diagnosis and treatment of coronary artery disease. It consists of two parts. The first part of the book provides a systematic introduction to coronary imaging with OCT. It describes how to interpret images and describes abnormal findings seen in atherosclerosis, complications after intervention, and stent assessment. The second part of the book presents real-life case studies that show how OCT is used in clinical practice in Mount Sinai to assess the disease, select appropriate treatment, and evaluate complications and results. Each case includes a brief clinical history, procedure summary, angiography and OCT images, including video material, and a discussion of how OCT affected the clinical decision-making process.

This book guides the reading in the steps in interpreting optical coherence tomography (OCT) images of the retina and macula, using simple color-coded guides with clear and concise explanations. The color-coded images will enable the user to become a pro at OCT interpretation.

Atlas of Optical Coherence Tomography for Glaucoma is a case-based atlas intended to teach the reader how to interpret the results of OCT in glaucoma patients and glaucoma suspects. After a brief description of how OCT is used in particular situations, chapters depict actual case presentations from authors' practices with legends that describe the case and how OCT is used to make the diagnosis of glaucoma or glaucoma progression. Emphasis is placed on where OCT can lead the clinician astray by providing false positive or false negative results resulting in misdiagnosis. The intention of the format is to make it as easy digestible in a weekend read and make the practitioner comfortable with OCT interpretation. Examples are presented from all of the available OCT manufacturers.

Optical Coherence Tomography has revolutionized today's eye care. This remarkable non-invasive scanning technology is unparalleled for aiding diagnosis of retinal disease and recording disease progression. Atlas of Retinal OCT: Optical Coherence Tomography provides expert guidance in this rapidly evolving area with high-quality, oversized images that show precise detail and assist with rapid, accurate clinical decision making. Featuring more than 1,000 superb illustrations depicting the full spectrum of retinal diseases using OCT scans, supported by clinical photos and ancillary imaging technologies. Presents images as large as possible on the page with an abundance of arrows, pointers, and labels to guide you in pattern recognition and eliminate any uncertainty. Includes the latest high-resolution spectral domain OCT technology and new insights into OCT angiography technology to ensure you have the most up-to-date and highest quality examples available. Provides key feature points for each disorder giving you the need-to-know OCT essentials for quick comprehension and rapid reference. An excellent diagnostic companion to Handbook of Retinal OCT: Optical Coherence Tomography, by the same expert author team of Drs. Jay S. Duke, Nadia K. Waheed, and Darin R. Goldman. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, Q&As, and references from the book on a variety of devices.

This Atlas provides many beautiful images obtained with state-of-the-art technologies, including optical coherence tomography (OCT), OCT angiography, fundus autofluorescence, and wide-field fundus imaging, as well as traditional images and fluorescein/ICG angiograms. Gathered at the world’s largest High Myopia Clinic, the images are based on the long-term follow-up data of more than 6,000 patients from Japan and abroad. Recent advances in imaging technologies have yielded many new observations and allowed us to detect new lesions, e.g. myopic traction maculopathy (or macular retinoschisis) and dome-shaped macula. An especially interesting aspect: the images obtained by '3D MRI of the eye' and 'ultra wide-field OCT' to visualize staphylomas. These techniques were established by the editor’s group and make it possible to record the entire shapes of the eye, offering a scan width of up to 23 mm and scan depth of 5 mm. They have since been used to visualize posterior staphyloma, which was previously impossible to view because it spanned such a wide range of the eye. In addition, readers will learn what types of eye deformity occur in pathologic myopia and how they damage the macula/optic nerve. With this Atlas, readers will learn how to accurately diagnose each lesion of pathologic myopia, how eye deformity causes blinding complications, and how to identify patients with a poor prognosis. In short, it provides essential information that can’t be found elsewhere.

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