Online Library Atlas Optical Coherence Tomography Of Macular Diseases And

**Practical Handbook of OCT**

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 classical diagnostic tools such as perimetry, tonometry and 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.

**Clinical En Face OCT Atlas**

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 to find 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 when following up patients with macular disease. The advancement 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
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Syria 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 patients with macular diseases. The 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 presentation, physician expertise, and available resources. Please forgive me if there are any spelling, grammar, 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 ameenmarashi@hotmail.com

Atlas of Laser Scanning Ophthalmoscopy

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.

Clinical OCT Angiography Atlas
Optical Coherence Tomography Angiography (OCTA) is a novel, non-invasive, dyeless imaging modality that has emerged as an indispensable tool in the fields of optometry 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 Occlusive Disease Pigment Epithelial Detachment Choroidal Neovascular Membrane Diabetic Retinopathy Optic Disc Edema Dr. Rodman's emphasis on the clinical 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.

**Optical Coherence Tomography in Glaucoma**

This book provides a collection of optical coherence tomographic (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 in their clinical practice. Throughout the chapters all
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And

aspects of this non-invasive, popular imaging technique, known for ingenuity and accuracy, is clearly illustrated. Atlas of Ocular Optical Coherence Tomography has been categorized into eleven sections, discussing and illustrating distinct OCT features, as well as showing other image modalities such as fluorescein angiography, fundus autofluorescence, perimetry and laboratory examination. This book also covers choroidal pathologies and vitreous abnormalities. The last section has been allocated to anterior segment disease, including cornea, angle, iris and conjunctival abnormalities. Above all, the numerous images, and detailed descriptions of diseases, make this book an essential guide for general ophthalmologists and ophthalmology residences.

Atlas of Coronary Intravascular Optical Coherence Tomography

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.

Atlas of Anterior Segment Optical Coherence Tomography

High-speed anterior segment optical coherence tomography (OCT) offers a non-contact method for high resolution cross-sectional and three-dimensional imaging of the cornea and the anterior segment of the eye. As the first text completely devoted to this topic, Anterior Segment Optical Coherence Tomography comprehensively explains both the scientific principles and the clinical applications of this exciting and advancing technology. Anterior Segment Optical Coherence Tomography enhances surgical planning and
postoperative care for a variety of anterior segment applications by expertly explaining how abnormalities
in the anterior chamber angle, cornea, iris, and lens can be identified and evaluated using the Visante
OCT™. Inside A nterior S egment Optical C oherence T omography, Dr. Roger Steinert and Dr. David Huang,
along with 22 of the field’s leading professionals, provide a wealth of useful clinical and physiological
material about this new diagnostic imaging technique. V aluable images are included to assist in the pre-
and postoperative assessment of various anterior segment disorders. A dditionally, this unique resource
contains detailed information on biometric measurements to enhance diagnostic capability. On the leading
edge of anterior segment imaging: • M apping of corneal thickness and keratoconus evaluation •
M easurement of LASIK flap and stromal bed thickness • V isualization and measurement of anterior
chamber angle and diagnosis of narrow angle glaucoma • M easuring the dimensions of the anterior
chamber and assessing the fit of intraocular lens implants • V isualizing and measuring the results of
corneal implants and lamellar procedures • I maging through corneal opacity to see internal eye structures
W ith the increase in popularity of anterior chamber imaging, and anterior segment OCT proving to be the
best tool for high resolution biometry, A nterior S egment Optical C oherence T omography is a must-have
for anterior segment, refractive, cornea, and glaucoma surgeons.

**Swept-Source Optical Coherence Tomography**

A rguably the most important ancillary test available to ophthalmologists worldwide, optical coherence
tomography (OCT) has revolutionized the field, and now includes angiographic evaluations (OCTA) that
provide vascular flow data without eye injection. H andbook of R etinal OCT is an easy-to-use, high-yield
guide to both OCT and OCTA imaging for practitioners at any stage of their career. H ighly templated,
concise, and portable, this revised edition helps you master the latest imaging methods used to evaluate
retinal disease, uveitis, and optic nerve disorders. H elps all health professionals with an interest in OCT to
better and more quickly interpret OCT imaging, offering quick, highly visual guidance for evaluating age-related macular degeneration, diabetic retinopathy, retinal vein occlusion, and much more. Provides quick answers with bulleted, templated chapters, each focused on one specific diagnosis or group of diagnoses with a particular OCT appearance. Demonstrates how the full spectrum of diseases presents through approximately 400 illustrations, including the highest-quality spectral-domain OCT images available and more than 50 new OCTA images. Includes five new chapters covering optic nerve disease with retinal findings, pachychoroid diseases, paracentral acute middle maculopathy (PAMM), auto-immune retinopathies, and primary uveal lymphoma. Offers clear visual guidance on image patterns with multiple arrows and labels throughout to highlight key details of each disease.

Atlas Optical Coherence Tomography of Macular Diseases and Glaucoma

OCT provided a great advantage over other diagnostic modalities, as it could noninvasively provide tomographic images of the retina of a living eye. As a result, a number of new findings in retinal diseases were made using the time-domain OCT. OCT has now become an essential medical equipment 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.

Atlas of Optical Coherence Tomography for Approaching Macular Diseases

Optical Coherence Tomography, A Clinical Atlas of Retinal Images is a richly illustrated collection of
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And 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. Since the advent of OCT, the landscape of clinical ophthalmic and optometric practice has been drastically altered. Armed with the ability to image multiple retinal layers, it has become more important for the imaging technician, as well as the clinical practitioner, to be able to identify retinal pathology and anatomy. As important is the knowledge to differentiate pathology from artifact, and to provide quality, consistent OCT images. Over 300 examples of retinal disease pathology are illustrated in this full color book to assist the imager in identifying retinal disease, how it presents on OCT and to descriptively interpret OCT images. A well regarded teacher and lecturer in the field of ophthalmic imaging for over 20 years, and the author of Retinal Imaging Simplified, Darrin Landry provides a clear and concise format in what promises to be the primary OCT reference book for the imager and clinical practitioner. As groundbreaking as OCT images are, they are only clinically useful if performed properly. With the tips and examples outlined in this book, the imager will have a valuable resource in the application of OCT, and the tools to provide consistent quality images. Also available as a paperback and electronically. The CD of the book can be purchased at www.brysontaylorpublishing.com.

Optical Coherence Tomography

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.

**OCT Atlas**

In only a short period of time, the innovative procedure of OCT angiography has become an essential macula imaging technique. Now that it is routinely used in clinical practice, the investigation of retinal and choroidal circulation is non-invasive, which significantly changes the professional’s approach to patients. In this volume, retina specialists and renowned experts share their experience with OCT angiography. They have included numerous color images and presented current ideas to form a base for further research and discussion. This book provides retina specialists, ophthalmologists, and researchers with a first glance at original research and clinical reports on this new methodology.

**Atlas**

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 Evaluates clinical en face OCT techniques for numerous ocular diseases and disorders Each case includes pathological images from different devices for comparison
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Internationally-recognised European and US author and editor team

**Optical Coherence Tomography**

With more than 5,000 images and comprehensive illustrations of the entire spectrum of vitreous, retina, and macula disorders, *The Retinal 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 made up of Drs. K. Bailey Freund, David Sarraf, William F. Mieler, 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 disorders and classifications 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 visuals, 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 intricacies. 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.
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**Atlas of Optical Coherence Tomography of Macular Diseases**

Optical Coherence Tomography - Atlas and Text covers the multiple uses and interpretation of OCT and its various applications in ophthalmology related to the posterior segment and the retina. 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.

**Atlas of Optical Coherence Tomography for Glaucoma**

Written by an expert in the field, this book is a comprehensive and up-to-date guide to the evaluation and management of lacrimal drainage disorders. Lacrimal disorders are one of the most common conditions encountered not only by oculoplastic surgeons and general ophthalmologists, but also by otorhinolaryngologists in their daily practice. Consisting of 77 chapters, it addresses the basic anatomy and underlying pathology, patient evaluation, and the surgical procedures currently performed in managing various lacrimal disorders. Surgical modalities including the endoscopic approaches are thoroughly and succinctly captured in pictures with detailed legends to aid understanding and offer a visual treat. Since familiarity with a surgical technique is incomplete without the knowledge of risk factors and red flags, the book discusses in detail how to deal with surgical complications and failure. The Atlas of Lacrimal Drainage Disorders is an essential companion to the author’s previous work “Principles and Practice of Lacrimal Surgery”.

**The Retinal Atlas E-Book**
This Atlas of Inherited Retinal Disorders provides a thorough overview of various inherited retinal dystrophies with emphasis on phenotype characteristics and how they relate to the most frequently encountered genes. It also meets the previously unmet needs of PhD students who will benefit from seeing the phenotypes of genes they work on and study. Further, because genetic-testing costs are quite high and spiraling higher, this Atlas will help geneticists familiarize themselves with the candidate gene approach to test patients’ genomes, enabling more cost-efficient testing. This invaluable atlas is organized into eight sections starting with an introduction to the basic knowledge on retinal imaging, followed by diseases listed according to inheritance pattern and disorders with extraocular manifestations grouped by defining features. This structure will be intuitive to clinicians and students studying inherited retinal disorders.

Optical Coherence Tomography Angiography of the Eye

Rapid or even dramatic progress has been made in the field of AMD over recent years, leading to a constant revision of basic concepts. A wide range of fundus imaging modalities are now available, and this book explains the respective value of each technique. The information provided by OCT is presented logically by comparison with plain films, autofluorescence, fluorescein angiography, or indocyanine green angiography. Meticulous biomicroscopic examination of macular changes and the essential value of fluorescein angiography for the detection of anatomical alterations of the macula and for precise evaluation of lesions and their course by indocyanine green angiography have naturally led the author Gabriel Coscas to analyze the new data provided by OCT.
This book provides a collection of optical coherence tomographic (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 in their clinical practice. Throughout the chapters all aspects of this non-invasive, popular imaging technique, known for ingenuity and accuracy, is clearly illustrated. Atlas of Ocular Optical Coherence Tomography has been categorized into eleven sections, discussing and illustrating distinct OCT features, as well as showing other image modalities such as fluorescein angiography, fundus autofluorescence, perimetry and laboratory examination. This book also covers choroidal pathologies and vitreous abnormalities. The last section has been allocated to anterior segment disease, including cornea, angle, iris and conjunctival abnormalities. Above all, the numerous images, and detailed descriptions of diseases, make this book an essential guide for general ophthalmologists and ophthalmology residences.

Anterior Segment Optical Coherence Tomography

Part of the Essentials in Ophthalmology series, this atlas is designed to comprehensively cover optical coherence tomography of the anterior segment of the eye. The aim is to improve knowledge of the fundamentals of OCT technology for anterior segment, clarify the differences with posterior segment OCT and emphasize the immense relevance and usefulness that anterior segment OCT study has for diagnosis, therapeutic orientation, surgical guidance, and improvement in patient management. Atlas of Anterior Segment Optical Coherence Tomography is organized into comprehensive chapters on the following topics: fundamentals, technologies and technological differences among platforms, application of OCT, corneal...
Online Library Atlas Optical Coherence Tomography Of Macular Diseases And OCT angiography, as well as case-based chapters. Numerous highly-detailed figures, illustrations and photographs make this an ideal resource for the corneal specialist seeking further instruction on this cutting-edge technology. The case-based chapters include such conditions as bowman dystrophies, trauma, cataract, glaucoma, sclera, refractive surgery, ocular infections, and are structured to facilitate the consultant surgeon by providing practical information applicable to practical cases in their practice.

Eye Pathology

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.

Atlas of Retinal OCT E-Book

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.

Optical Coherence Tomography and Oct Angiography

This book provides an illustrated guide to peripheral retinal degenerations and the role of spectral domain
coherence tomography (SD-OCT) in diagnosis and treatment. The book discusses 73 clinical cases and gives
detailed information on the principles of SD-OCT and its application in the imaging of peripheral retina.
Peripheral Retinal Degenerations: Optical Coherence Tomography and Retinal Laser Coagulation, 2nd
dition, discusses a broad range of retinal pathologies such as chorioretinal degenerations, posterior
vitreous detachment, vitreoretinal adhesions and tractions and includes a plethora of high-quality clinical
images throughout. Ophthalmologists and retinal specialists will find this updated edition to be the perfect
didactic resource for furthering skills and knowledge in this clinical area.

**Optical Coherence Tomography in Age-Related Macular Degeneration**

This book is written for retinal specialists and clinicians with a special interest in retinal diseases. It
presents a collection of images and brief annotations of the microstructures of both the normal and
diseased eye captured on swept source optical coherence tomography. The swept-source OCT is a relatively
new form of imaging and is able to capture structures and details which previous generations of OCT
machines cannot. This type of imaging represents the forefront in ocular imaging. Contents:Introduction to
Swept-Source Optical Coherence TomographyRetinal Vascular DiseaseMacular DiseaseCentral Serous
ChorioretinopathyAge-related Macular DegenerationVitreous Macular Interface
DiseasesMyopiaInflammatory ConditionsMiscellaneous Conditions Readership: Retinal specialists,
clinicians with special interests in retinal diseases.Key Features:The atlas format aims to serve as a
practical guide with quick and easy reference and clinically relevant examplesExtensive collection of
images covering a wide range of topicsComparison between different types of imaging to put disease
process in perspectiveKey words:Swept;Source;Optical;Coherence;Tomography;Ophthalmology;Atlas;Retina; Imaging
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Optical Coherence Tomography of Ocular Diseases

Optical Coherence Tomography and OCT Angiography Clinical Reference and Case Studies OCT angiography (OCTA) is a revolutionary imaging modality that allows visualization of the vascular structure in the retina and choroid en vivo. Optical Coherence Tomography and OCT Angiography is a comprehensive guide that explains the science of OCT and OCT angiography, as well as clinical interpretation of images. As OCT angiography becomes the clinical standard, it is imperative to develop the nomenclature and descriptive interpretation to guide diagnosis and treatment. This book is intended for use by clinicians, technicians and imagers to develop a standard vocabulary and help guide the user towards more accurate assessment. Case presentations of all major retinal and choroidal diseases, using OCT angiography, OCT and fluorescein and ICG angiography are included.

Atlas of Lacrimal Drainage Disorders

Atlas of Swept Source Optical Coherence Tomography

Over 5,000 illustrations of the latest imaging and research findings essential for effective diagnosis of retinal disorders populate this atlas. A unique page layout consisting of optimally positioned panoramic images, magnified photos, and histopathological specimens illustrate key manifestations, giving you the best visual display of each disease. In addition, composite images using different retinal imaging modalities, including the latest in optical coherence tomography (OCT), fluorescein angiography, indocyanine green (ICG), and fundus autofluorescence display how a disease appears in each imaging modality, allowing you
to compare imaging methods and gain a better understanding of each disorder.

**Atlas, Optical Coherence Tomography of Macular Diseases**

Features 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. Duker, Nadia K. Waheed, and Darin R. Goldman.

**Atlas Optical Coherence Tomography of Macular Diseases and Glaucoma**

The emergence of Optical Coherence Tomography (OCT) in recent years has 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 us rushing to the library almost on a daily basis to locate any published reports on the subject. Until now. Containing nearly 900 scans of both normal and diseased appearances, most in full color, Atlas of Optical
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And

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, 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, vitreofoveal traction, idiopathic central serous chorioretinoplasty, submacular pathology, and more.

Atlas Optical Coherence Tomography of Macular Diseases and Glaucoma

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 easily digestible in a weekend read and make the practitioner comfortable with OCT interpretation. Examples are presented from all of the available OCT manufacturers.

The Retinal Atlas

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 macular hole, foveal haemorrhage and retinal trauma. The final 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.
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And

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 choroid disorders. The final section discusses ongoing research and future developments in technology, particularly Ultrahigh Speed Swept Source technology. Enhanced by 251 full colour images, and edited by an internationally recognised team of ophthalmology experts led by Prof Bruno Lumbroso, this book is at the cutting edge of OCT technology. The operating principles and future of this technology are discussed in depth by its original developers, making this an informative and authoritative work.

Key Points

- Comprehensive, illustrated guide to new imaging technology
- Edited by international team of ophthalmology experts
- Operating principles and future developments discussed by the original developers
- 250 full colour images and illustrations

Optical Coherence Tomography

Optical coherence tomography (OCT) angiography is an important new imaging modality that is already being used by ophthalmologists in retina centers worldwide. It uses motion as intrinsic contrast, thus obviating the need to inject any intravenous dye. It uses infrared light that is invisible to the patient, and only requires few seconds per scan. This makes it both easier to use and much better tolerated by patients than traditional dye-based fluorescein angiography (FA) and indocyanine green (ICG) angiography. Inside Optical Coherence Tomography Angiography of the Eye Drs. David Huang, Bruno Lumbroso, Yali Jia, and Nadia Waheed include detailed information on clinical applications and fundamental principles needed to understand and use this new technology. This includes information on high-speed OCT systems,
algorithms to extract flow contrast, the appearance of the normal eye, the findings in myriad diseases, and tips on how to deal with artifact and pitfalls. The 3-dimensional nature of OCT angiography provides visualization that was not possible before with either FA or ICG and readers will come to appreciate how this enables the visualization of previously difficult to image vascular beds such as the 4 retinal vascular plexuses (radial peripapillary, superficial, intermediate, and deep), the choriocapillaris, and the deeper choroidal vessels. Given its noninvasive nature and ease of use, OCT angiography imaging is rapidly taking an important place in everyday ophthalmology and may soon replace fluorescein angiography in everyday practice. Optical Coherence Tomography Angiography of the Eye is designed to be the definitive text on this cutting-edge technology for the retina specialist and comprehensive ophthalmologist.

**Handbook of Retinal OCT: Optical Coherence Tomography E-Book**

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 macular hole, foveal haemorrhage and retinal trauma. The final 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.

**Atlas of OCT**
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Optical Coherence Tomography of Ocular Diseases, Second Edition is a completely revised and updated version of this classic text. Incorporated within over 700 pages are a multitude of updated features unique to this edition including over 1,600 color images, state-of-the-art technology, and case presentations. These elements cohesively work together to successfully demonstrate the retina in normal and diseased states using the innovative Stratus OCT™. Optical Coherence Tomography of Ocular Diseases, Second Edition is written with the clinician in mind. The text's primary objective is to illustrate the appearance of the eye in health and disease, comparing conventional clinical technologies using OCT imaging. This method introduces the clinician to the manifestations of disease as elucidated by OCT, while presenting the more familiar fundoscopic and fluorescein angiographic appearance side-by-side. Drs. Joel S. Schuman, Carmen A. Puliafito, and James G. Fujimoto, PhD together with their co-authors have collaborated to produce this comprehensive resource. OCT applications in retinal diseases, glaucoma, neuro-ophthalmology, anterior segment and a description of OCT technologies are all topics extensively covered in this new edition. An appendix is included that contains a wealth of technical information for those interested in learning more about the principles of operation of this medical diagnostic imaging technology. This text will provide a clinical reference for the retinal and glaucoma specialist that shows how to utilize and interpret OCT imaging to enhance diagnostic sensitivity and specificity as well as to enhance therapeutic decision making and monitor the outcome of treatment. Both clinicians and scientists interested in optical imaging of the eye will find this insightful text a useful reference. Features: Over 1,600 color images. Strong focus on retina, glaucoma, and the anterior segments. Utilizes and interprets OCT imaging.

Atlas of Fundus Autofluorescence Imaging

This book focuses on the practical aspects of Optical Coherence Tomography (OCT) in glaucoma diagnostics offering important theoretical information along with many original cases. OCT is a non-
invasive imaging technique that acquires high-resolution images of the ocular structures. It enables clinicians to detect glaucoma in the early stages and efficiently monitor the disease. Optical Coherence Tomography in Glaucoma features updated information on technical applications of OCT in glaucoma, reviews recently published literature and provides clinical cases based on Cirrus and Spectralis OCT platforms. In addition, newer techniques like event and trend analyses for progression, macular ganglion cell analysis, and OCT angiography are discussed. This book will serve as a reference for ophthalmologists and optometrists worldwide with a special interest in OCT imaging providing essential guidance on the application of OCT in glaucoma.