

## Clinical Ophthalmic Echography

Diagnostic Ultrasound Imaging provides a unified description of the physical principles of ultrasound imaging, signal processing, systems and measurements. This comprehensive reference is a core resource for both graduate students and engineers in medical ultrasound research and design. With continuing rapid technological development of ultrasound in medical diagnosis, it is a critical subject for biomedical engineers, clinical and healthcare engineers and practitioners, medical physicists, and related professionals in the fields of signal and image processing. The book contains 17 new and updated chapters covering the fundamentals and latest advances in the area, and includes four appendices, 450 figures (60 available in color on the companion website), and almost 1,500 references. In addition to the continual influx of readers entering the field of ultrasound worldwide who need the broad grounding in the core technologies of ultrasound, this book provides those already working in these areas with clear and comprehensive expositions of these key new topics as well as introductions to state-of-the-art innovations in this field. Enables practicing engineers, students and clinical professionals to understand the essential physics and signal processing techniques behind modern imaging systems as well as introducing the latest developments that will shape medical ultrasound in the future Suitable for both newcomers and experienced readers, the practical, progressively organized applied approach is supported by hands-on MATLAB® code and worked examples that enable readers to understand the principles underlying diagnostic and therapeutic ultrasound Covers the new important developments in the use of medical ultrasound: elastography and high-intensity therapeutic ultrasound. Many new developments are comprehensively reviewed and explained, including aberration correction, acoustic measurements, acoustic radiation force imaging, alternate imaging architectures, bioeffects: diagnostic to therapeutic, Fourier transform imaging, multimode imaging, plane wave compounding, research platforms, synthetic aperture, vector Doppler, transient shear wave elastography, ultrafast imaging and Doppler, functional ultrasound and viscoelastic models

This Volume of the Documenta Ophthalmologica Proceeding Series presents the scientific papers read during the 13th Congress of SIDUO, the International Society for Ultrasonic Diagnosis in Ophthalmology, held in Vienna in the Summer of 1990. It was the second time that SIDUO had selected Vienna as a site for its biennial congresses in the 28 years of its existence. Previously, the 3rd SIDUO Meeting had taken place as part of the 1st World Congress for Ultrasonic Diagnosis in Medicine organized by Karl C. Ossoinig in 1969. Ossoinig, the pioneer of Standardized Echography opened the scientific sessions of SIDUO 13 with the First Jules Franeis Memorial Lecture on the Optic Nerve reviewing the modern examination techniques for precise measurements of the orbital optic nerve and its various sheaths and for an accurate diagnosis and differential diagnosis of diseases affecting the optic nerve, highlighting the new field of prophylactic recognition of early optic nerve compression (e. g. , in Graves' orbitopathy) and the important confirmation of CON in the presence of other conditions affecting the optic nerve functions. The first scientific session then dealt with a variety of interesting conditions of the optic nerve and of the extraocular muscles ranging from inflammatory diseases such as optic neuritis and orbital myositis to congenital anomalies, from glaucomatous changes to IIH, and from normal anatomical (dynamic) findings to malignant tumors such as lymphomas and leucemic meningiomas.

Advances made in diagnostic and imaging techniques within the past years have revolutionized the clinical approach to, and the management of many ophthalmic diseases. Wavefront and Optical Coherence Tomography (OCT) have been incorporated as basic tools of refractive surgery, in the assessment of vitreoretinal disorders, optic nerve pathologies, ocular tumors and ocular trauma. This book presents a comprehensive evaluation of current and emerging technologies used for clinical assessment in ophthalmology, as well as an in depth discussion of retinal angiography, both anterior and exterior segments, OCT, VHF ultrasound and other advanced imaging methods and techniques.

Includes bibliographical references and index.

Orbit and Neuro-ophthalmic Imaging is explored in this important Neuroimaging Clinics issue. Articles include: Imaging indication, protocols, anatomy, and pitfalls; Orbital ultrasonography and optical coherence tomography - what radiologists need to know; Advanced imaging techniques for the retina and visual pathway; Imaging of optic neuropathy and chiasmatic disorder; Imaging of post-chiasmatic disorder and higher cortical visual dysfunction; Imaging of diseases of the ocular motor pathway; Imaging of orbital trauma and emergent non-traumatic conditions; Imaging of ocular prosthesis and orbital reconstruction flaps; Imaging of pediatric ophthalmologic conditions; and more!

This book presents the latest information on using echography to diagnose lesions and diseases of the eye and orbit. This edition is fully updated, with a new chapter on orbital disease and coverage of the 20-MHz probe for posterior segment imaging. It provides a comprehensive review of the basic screening procedures, descriptions of the indications for ultrasound, and guidance on how to reach an accurate diagnosis of both common and rare clinical problems in all areas of the eye. Features: Techniques for diagnosing diseases of the retina, choroid, vitreous, anterior segment, optic nerve, extraocular muscles, and more More than 550 high-quality images, including an expanded collection of anterior segment images, that aid the comprehension of pathology and disease processes Three-dimensional schematics demonstrating sound beam and probe positions on the eye Extensive lists of references for pursuing topics in depth Ophthalmic Ultrasound: A Diagnostic Atlas will provide an invaluable reference for ophthalmologists, ultrasonographers, and radiologists.

[Ophthalmic Ultrasound](#)

[Diagnostic and Imaging Techniques in Ophthalmology](#)

[Proceedings of the 10th SIDUO Congress, St. Petersburg Beach, Florida, U.S.A., November 7-10, 1984](#)

[Ultrasonography in Ophthalmology 12](#)

[Ophthalmic Ultrasonography](#)

[From Pioneering Developments in Lund to Global Application in Medicine](#)

[Clinical Ophthalmic Echography](#)

[E-Book - Ophthalmology: Investigation and Examination Techniques](#)

[Ultrasound Guided Regional Anesthesia](#)

[Ultrasonography of the Eye and Orbit](#)

In the last 10 years, there has been huge progress in the general understanding of ocular disorders due to the availability and development of new in vivo imaging techniques, such as anterior and posterior eye segment optical coherence tomography as well as biochemical methods allowing rapid confirmation of clinical diagnosis.Introducing noninvasive diagnostic methods in ophthalmology led to an improvement in early differential diagnosis of conditions such as corneal dystrophies, dry eye disease, and various retinal and optic nerve diseases.Recent advances in diagnostic methods have also impacted the treatment methods. This book intends to provide the reader with a comprehensive overview of current ocular diagnostic methods, including the theoretical basis as well as practical approaches and usage in clinical practice.

The history of the use of ultrasound in medicine has been one of evolution of technology and innovative methods of applying this technology to imaging body structures. Many scientists and clinicians have contributed to this evolution. Ophthalmic ultrasound has become an indispensable tool in ophthalmic practice, with its own instrumentation and techniques. Ultrasound frequencies used in ophthalmology have generally been higher than those used in general medicine because of a requirement for higher resolution and a lesser need for deep penetration. Most ophthalmic diagnostic equipment uses frequencies in the 10 MHz range. The use of ultrasound frequencies in the 50-100 MHz range is a relatively new development in ultrasound imaging of the eye. This technique has been developed in our laboratories over the past several years. We have progressed from the theoretical description of the basic science required, past the first in-vitro experiments in eye bank eyes, to the construction of an instrument capable of clinical application. We have gained broad clinical experience with this instrument in normal patients and patients with ocular disease. A commercial instrument based on our original clinical scanner has recently become available, allowing other clinicians to apply this tool to ophthalmic research and clinical practice. We have applied the term ultrasound biomicroscopy to this new imaging technique because of similarities to optical biomicroscopy, i. e. , the observation of living tissue at microscopic resolution.

Today, ophthalmic pathology deals more and more with pathogenesis using highly sophisticated techniques. In recent decades, it has expanded to such an extent that it now fills several volumes of a modern comprehensive atlas or textbook. Black and white prints of the macroscopic appearance of dissected eyes are standard in modern textbooks. Color photographs, although providing more visual information and a better insight into the sometimes complex disease processes of the eye, are however costly. Nevertheless, many ophthalmologic colleagues expressed their desire to have me prepare such an atlas. It is not intended to replace one of the textbooks in this field but rather to supplement existing texts and to stimulate clinical and diagnostic thinking. Hence it should be used in conjunction with textbooks on anatomy and ocular pathology. The reader will find references on the different subjects in the excellent modern textbooks listed below. Diagnosis and treatment in ophthalmology is to a great extent based on morphologic examination. Clinical ophthalmologists have available such excellent tools as the slit-lamp, the gonioscope, and the ophthalmoscope to study and document ocular disease in vivo under high magnification. Both external eye structures and transparent ocular structures can be observed better in vivo than in the pathology laboratory. Therefore the pathology of these is only presented in conditions in which direct visualization is normally difficult.

Ultrasound technology is enabling anesthesiologists to perform regional anesthetic procedures with greater confidence in accuracy and precision. With improvements in visualizing neural anatomy and needle movement, ultrasound guidance improves patient safety and operating room efficiency. This book offers a detailed, stepwise approach to this technique, identifying pearls and pitfalls to ensure success.

Topics are organized into four chapters. The first chapter provides the basic principles behind ultrasound guided regional anesthesia, setting a strong context for the rest of the book. The last three cover the nerve blocks: upper extremity, lower extremity, and chest, trunk and spine. Each nerve block is comprehensively explained, divided up by introduction, anatomy, clinical applications, technique, alternate techniques, complications, and pearls. This new edition includes discussions of 6 new blocks: the suprascapular block, axillary nerve block for shoulder surgery, fascia iliaca block, lateral femoral cutaneous block, and the adductor canal block. This edition also contains over 40 new procedural and imaging figures, an appendix on what blocks to perform for specific surgeries, and new information on choice of local anesthetic agent, types of catheters and practical ultrasound physics to help improve scanning. Ultrasound Guided Regional Anesthesia provides authoritative, in-depth coverage of ultrasound guided regional anesthesia for the anesthesiologist beginning to use ultrasound and makes a great reference for the more seasoned physician.

Illustrations by William Winn

The 12th Congress of SIDUO took place in Iguazu Falls, Argentina, where participants could enjoy the scenery of the magnificent Falls. The organization was sponsored by the University Department of Ophthalmology, Buenos Aires: the University Department of Ophthalmology, El Salvador; SAUMB (Sociedad Argentina de Ultrasonografia en Medicina y Biología) and CLEO (Club Latinoamericano de Ecografía Oftalmológica). The Honorary President was Professor Horacio Soriano from Buenos Aires. The local organizing committee consisted of the following persons: President Roberto Sampaolesi Vice President Atilio Lombardi Scientific Secretary: Eduardo Mayorga Treasurers Guillermo Iribarren Abelardo Cavatorta We are particularly grateful to Doctor J S Hillmann, Professor K C Ossoinig and Doctor nvf Thijssen, who have helped with their counsel and advice. I would also like to thank our congress secretaries Graciela Massonat and Cristina Taegl for their enormous help in organizing SIDUO XII. To Doctor Javier Cassiraghi and Doctor Walter de Gregory our thanks for their outstanding help in organizing the scientific sessions. Thanks are due to the commercial exhibitors and most of all to our sponsors:

Laboratorios Pfoertner Cornealent and Biophysic Medical. Our special thanks to Doctor Tomas Pfoertner for his great administrative expertise and counsel and to Christine Warren from Biophysic for her help

in financing these proceedings. The 12th SIDUO thanks for their generous support: Pupilent Plastic Lens Argentina, Grafica SA and Laboratorio Optico Santamarina.

[An Atlas of Orbitocranial Surgery](#)

[Ophthalmic Echography 13](#)

[Clinical Ophthalmic Oncology](#)

[Clinical Ophthalmology: Neuro-ophthalmology. The orbit](#)

[Ultrasonography in Ophthalmology](#)

[Expert Consult - Online and Print](#)

[Basic Principles and Diagnostic Techniques](#)

[A Practical Guide](#)

[Proceedings of the 9th SIDUO Congress, Leeds, U.K. July 20-23, 1982](#)

[A Case Study Approach](#)

*This book is a practical, step-by-step guide to examination techniques in ophthalmic ultrasound. It is primarily aimed at the busy ophthalmologist performing this investigation as part of the management of his or her own patient. It is also an introductory manual for ophthalmologists, radiologists, radiographers, and other health workers interested in this field, or planning to perform echography on a regular basis.*

*Written by internationally renowned experts, Clinical Ophthalmic Oncology provides practical guidance and advice on the diagnosis and management of the complete range of ocular cancers. The book supplies all of the state-of-the-art knowledge required in order to identify these cancers early and to treat them as effectively as possible. Using the information provided, readers will be able to provide effective patient care using the latest knowledge on all aspects of ophthalmic oncology, to verify diagnostic conclusions based on comparison with numerous full-color clinical photographs, and to locate required information quickly owing to the clinically focused and user-friendly format. This volume provides essential information on cancer epidemiology, etiology, pathology, angiogenesis, immunology, genetics, and staging systems and explains the principles underlying different therapeutic approaches.*

*Clear, concise, and clinical, this unique reference offers a comprehensive overview of the basic techniques needed for ocular examination and diagnosis. Abundantly illustrated, it presents the principles of each technique, provides guidance on choosing the appropriate approach, explains how to perform them, offers examples of when each technique should be used, and lists their common indications and potential pitfalls. Offers a full chapter covering new imaging techniques for the retina and optic nerve. Features abundantly illustrated guidance in a clear format for a quick visual reference. Explores standard assessment procedures as well as microbiological examination and investigation, ultrasound and radiological evaluation, clinical visual electrophysiology, and fluorescein angiography.*

*Proceedings of the 9th SIDUO Congress, held in Leeds, UK, July 20-23 1982*

*This volume presents a selection of the papers presented at the 14th SIDUO Congress, Tokyo, Japan, 1992. The papers are grouped into the following subjects: instrumentation and techniques, biometric ultrasound, diagnosis of intraocular disease, and diagnosis of orbital and periorbital disease.*

*Written by and for ophthalmologists and ophthalmic ultrasound technicians, Ophthalmic Ultrasonography -- by Arun D. Singh, MD and Brandy C. Hayden, BSc, ROUB -- provides all the guidance you need to make optimal use of this imaging technique to evaluate diabetes-related ocular disorders, cataracts, macular degeneration, and much more. Its unparalleled image collection and detailed video clips capture the characteristic ultrasound presentation of a full range of ocular disorders. An easily searchable, atlas-style format and online access to the complete text at [www.expertconsult.com](http://www.expertconsult.com) make this the perfect "how-to" guide for honing your skills and obtaining accurate diagnoses! Broaden your knowledge and sharpen your skills with comprehensive coverage of ultrasound applications across all sub-specialties in ophthalmology including cornea, glaucoma, retina, pediatric, tumors, and trauma. See how ultrasound compares to images captured via other modalities such as OCT through numerous side-by-side examples. Master the fundamentals of ultrasound with chapters devoted to exam techniques, practical considerations, and effective equipment use for optimal scan results. See how the full spectrum of diseases present through more than 400 high-quality images - half devoted to ultrasound and half devoted to color clinical images and examples of other imaging techniques. Employ the very latest ultrasound technology such as high-resolution screening, ultrasound biomicroscopy (UBM), and Doppler techniques. Observe sonographic evaluations in real time with 20 video clips that demonstrate key techniques and findings. Access the full text online including tables, figures, images, videos, and more at [www.expertconsult.com](http://www.expertconsult.com).*

[Neuroimaging Clinics of North America](#)

[Uveal Tumors](#)

[Atlas of Emergency Medicine Procedures](#)

[Macroscopic Ocular Pathology](#)

[Clinical Atlas of Ophthalmic Ultrasound](#)

[Ultrasound Biomicroscopy of the Eye](#)

[A Diagnostic Atlas](#)

[Ultrasound of the Eye and Orbit](#)

[Echography in Ophthalmology](#)

[Ophthalmic Ultrasonography E-Book](#)

*The second edition of this popular ultrasound book expands the reader's understanding of the clinical applications of ocular ultrasound through a case study approach. With the addition of high-quality video segments of examination techniques not currently available in any other format, this edition appeals to a broader range of practitioners in the field by presenting the subject starting at the basic level and progressing to the advanced. The book is appealing to practitioners involved in ocular ultrasound, including ophthalmic technicians, ophthalmologists, optometrists, radiologists and emergency room physicians who, on occasion, are involved in the practice of ophthalmic ultrasound.*

*Written by internationally renowned experts, Clinical Ophthalmic Oncology provides practical guidance and advice on the diagnosis and management of the complete range of ocular cancers. The book supplies all of the state-of-the-art knowledge required in order to identify these cancers early and to treat them as effectively as possible. Using the information provided, readers will be able to provide effective patient care using the latest knowledge on all aspects of ophthalmic oncology, to verify diagnostic conclusions based on comparison with numerous full-color clinical photographs, and to locate required information quickly owing to the clinically focused and user-friendly format. This volume, devoted solely to uveal tumors, explains the various diagnostic and biopsy techniques that may be used and describes the therapeutic options of potential value for different types of tumor.*

*This full-color atlas is a step-by-step, visual guide to the most common procedures in emergency medicine. Procedures are described on a single page, or two-page spreads, so that the physician can quickly access and review the procedure at hand. The atlas contains more than 600 diagnostic algorithms, schematic diagrams and photographic illustrations to highlight the breadth and depth of emergency medicine. Topics are logically arranged by anatomic location or by type of procedure and all procedures are based on the most current and evidence-based practices known.*

*Written by and for ophthalmologists and ophthalmic ultrasound technicians, Ophthalmic Ultrasonography -- by Arun D. Singh, MD and Brandy C. Hayden, BSc, ROUB -- provides all the guidance you need to make optimal use of this imaging technique to evaluate diabetes-related ocular disorders, cataracts, macular degeneration, and much more. Its unparalleled image collection and detailed video clips capture the characteristic ultrasound presentation of a full range of ocular disorders. An easily searchable, atlas-style format and online access to the complete text at [www.expertconsult.com](http://www.expertconsult.com) make this the perfect "how-to" guide for honing your skills and obtaining accurate diagnoses! Broaden your knowledge and sharpen your skills with comprehensive coverage of ultrasound applications across all sub-specialties in ophthalmology including cornea, glaucoma, retina, pediatric, tumors, and trauma. See how ultrasound compares to images captured via other modalities such as OCT through numerous side-by-side examples. Master the fundamentals of ultrasound with chapters devoted to exam techniques, practical considerations, and effective equipment use for optimal scan results. See how the full spectrum of diseases present through more than 400 high-quality images - half devoted to ultrasound and half devoted to color clinical images and examples of other imaging techniques. Employ the very latest ultrasound technology such as high-resolution screening, ultrasound biomicroscopy (UBM), and Doppler techniques. Observe sonographic evaluations in real time with 20 video clips that demonstrate key techniques and findings. Access the full text online including tables, figures, images, videos, and more at [www.expertconsult.com](http://www.expertconsult.com). Hone your skills in ophthalmic ultrasound. Guidance from the experts, an unparalleled image collection, and procedural videos make this the ultimate resource.*

*This monograph expands on the ultrasound exploration of the ocular globe (or, in other words, the human eye) with a review of the current knowledge about ocular ultrasound techniques and its indications in ophthalmic pathology. Ocular echography has only been recently studied in greater detail by ophthalmologists thanks to new imaging techniques such as optical coherence tomography [OCT] and scanning lasers, which have become the preference in ocular exploration, relegating ultrasound to cases with poor fundus visualization. New ultrasound equipment with multi-frequency linear probes between 15 to 18 MHz, also*

*permits technicians to observe ocular structures with greater detail. A key aspect of ultrasound is its dynamic capability, which allows assessing the displacement of intraocular structures and their relation to the different eye layers. This is crucial in diagnosing retina pathologies that can affect the outcome of cataract surgery. Ocular echography is also an excellent option to determine retinal lesions in cases of ocular tumors (choroid melanoma) as it is also a differential diagnosis for other tumors (metastatic tumors or hemangiomas). The book also includes a chapter on the use of Color-Doppler ocular examinations in the diagnosis of ocular vasculopathies (arterial or venous occlusions). Echography in Ocular Pathology empowers readers - ophthalmologists and clinical technicians - with the knowledge to diagnose different eye pathologies and thus ameliorate ophthalmic patient management.*

*The second edition of this book expands the reader's understanding of the clinical applications of ocular ultrasound through a case study approach and aims to provide a firm foundation in the fundamental examination techniques and applications of ophthalmic echography.*

[\*\*\*Proceedings of the 8th SIDUO Congress\*\*\*](#)

[\*\*\*Orbit and Neuro-Ophthalmic Imaging\*\*\*](#)

[\*\*\*Proceedings of the 12th SIDUO Congress, Iguazú Falls, Argentina, 1988\*\*\*](#)

[\*\*\*Abdominal and General Ultrasound\*\*\*](#)

[\*\*\*Novel Diagnostic Methods in Ophthalmology\*\*\*](#)

[\*\*\*Echography in Ocular Pathology\*\*\*](#)

[\*\*\*Proceedings of the 14th Siduo Congress, Tokyo, Japan 1992\*\*\*](#)

[\*\*\*Ophthalmic Echography\*\*\*](#)

[\*\*\*Diagnostic Ultrasound Imaging: Inside Out\*\*\*](#)

[\*\*\*Clinical Ophthalmology\*\*\*](#)

There have been significant advancements in the field of ophthalmic ultrasound as this imaging technology can now detect and differentiate minute lesions in a wide variety of eye disorders. With understanding of the indications for ultrasonography and proper examination techniques, one can gather a vast amount of information not possible with a clinical exam alone. Clinical Atlas of Ophthalmic Ultrasound includes a short clinical description of each case presented and supplemented with high quality, color fundus images, wide-field images, CT/MRI scans, and/or pathologic slides where applicable. Written for ophthalmologists, radiologists, echographers, and ophthalmic oncologists, this book offers more of a comprehensive clinical view on a particular disease, including multimodal imaging approach, rather than just ultrasound characteristics. Chapters covering clinical and surgical globe anatomy, vitreo-retinal disease, trauma, intraocular tumors, and optic nerve disorders are all included.

Written by well-known leaders in ophthalmic ultrasonography, this volume is a complete guide to the use of ultrasound as a primary diagnostic tool in ophthalmology. This thoroughly revised Second Edition reflects the latest developments in three-dimensional ultrasound and other advanced technologies and the expanding clinical role of ultrasound, including its use in refractive surgery, post-LASIK evaluation, and neuro-ophthalmology. Coverage includes detailed chapters on ocular diagnosis, orbital diagnosis, and very high-frequency digital ultrasound scanning in LASIK and phakic intraocular lenses. More than 200 full-color, two-color, and black-and-white illustrations complement the text. A bound-in DVD contains video clips of patient ultrasound examinations.

Comprehensively updated and now in full colour with an accompanying DVD, this new edition is a unique, pocket-sized, and practical training guide for all those wanting easily accessible, detailed information on how to get good images, make key measurements and report their findings.

Proceedings of the 14th SIDUO Congress, Tokyo, Japan 1992

Forty-eight eyes with massive periretinal proliferation were examined with ultrasonography. In addition to the triangular retinal detachment T-sign was indicative of severe MPP. And irregular thickening and bending of the retina were observed on ultrasonography in eyes with MPP. The detached retina was immobile in all eyes. Preoperative ultrasonographic findings did not prove the value on the assessment of operative prognosis. REFERENCES Bronson, N.R. & Turner, F.T. A simple B-scan ultrasonoscope. Arch. Ophthalmol. 90: 237 (1973). Coleman, D.J., Koning, W.F. & Katz L.: A Hand-Operated ultrasound scan system for ophthalmic evaluation, Am. J. Ophthalmol. 68: 258 (1969). Fuller. D.G., Laqua, H. & Machemer, R. Ultrasonographic diagnosis of massive periretinal proliferation in eyes with opaque media (triangular retinal detachment). Am. J. Ophthalmol. 83: 460 (1977). Laqua, H. & Machemer, R. Glial cell proliferation in retinal detachment (massive periretinal proliferation). Am. J. Ophthalmol. 80: 1 (1975). Laqua, H. & Machemer R. Oinical-pathological correlation in Massive periretinal proliferation. Am. J. Ophthalmol. 80: 912 (1975). Machemer, R. & Laqua, H. Pigment epithelial proliferation in retinal detachment (massive periretinal proliferation). Am. J. Ophthalmol. 80: 1 (1975). Machemer, R. & Laqua, H. A logical approach to the treatment of massive periretinal proliferation. Ophthalmology 85: 584 (1978). Machemer, R. Van Horn, D. & Aaberg, T.M. Pigment epithelial proliferation in human retinal detachment with massive periretinal proliferation, Machemer, R. Pathogenesis and classification of massive periretinal proliferation. Br. J. Ophthalmol. 62: 737 (1978).

[real time ophthalmic ultrasonography](#)

[Proceedings of the 14th SIDUO Congress, Tokyo, Japan 1992](#)

[An Atlas Including Correlations with Standardized Echography](#)

[Ultrasonography in Ophthalmology 14](#)

[Ultrasound in Clinical Diagnosis](#)

[Proceedings of the 13th SIDUO Congress, Vienna, Austria, 1990](#)

[Echocardiography](#)