

Editors and Editorial Board

Herausgeber/Editors

M. Bachmann Nielsen, Kopenhagen
E. Merz, Frankfurt am Main
G. Mostbeck, Wien
F. Piscaglia, Bologna
K. Seitz, Sigmaringen
S. Tercanli, Basel
P. Sidhu, London

1980 gegründet von Founded in 1980 by

H. R. Müller, Basel †
E. Reinold, Wien
G. Rettenmaier, Böblingen

Beirat/Editorial Board

Th. Albrecht, Berlin
Ch. Arning, Hamburg
R. Badea, Cluj-Napoca
H.-G. Blaas, Trondheim
G. Bodner, Gibraltar
L. Braun, Bedano
B. Brkljacic, Zagreb
A. Brichta, Wien
A. Bunk, Dresden
R. Chaoui, Berlin
K. H. Deeg, Bamberg
F. Degenhardt, Bielefeld
J. Deutinger, Wien
C. F. Dietrich, Bad Mergentheim
F. M. Drudi, Rom

M. Essig, Zweisimmen
D. H. Evans, Leicester
M. Gebel, Hannover
U. Gembruch, Bonn
O. H. Gilja, Bergen
N. Gritzmann, Salzburg
B. J. Hackelöer, Hamburg
E. M. Jung, Regensburg
H. Kathrein, Schwaz
G. D. Kneissl, Leipzig
Ch. Kollmann, Wien
W. Mann, Mainz
G. Mathis, Hohenems
J.-Y. Meuwly, Lausanne
Ch. Meyenberger, St. Gallen

This journal is indexed in MEDLINE, Current Contents (CM), Science Citation Index and in EMBASE/Excerpta Medical Abstract Journals

Impact Factor: 4.645

www.thieme-connect.de
www.thieme.de/ultraschall

manuscript submission at
<http://mc.manuscriptcentral.com/eju>

Imprint

Ultraschall in der Medizin/European Journal of Ultrasound (Ultraschall in Med)

Eigentümer & Copyright
© Georg Thieme Verlag KG 2014

Editors-in-Chief

Prof. Dr. M. Bachmann Nielsen, Department of Radiology, Section of Ultrasound, Rigshospitalet, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

Prof. Dr. E. Merz, Krankenhaus Nordwest, Frauenklinik, Steinbacher Hohl 2-26, 60488 Frankfurt am Main, Germany

Prof. Dr. G. Mostbeck, Institut für diagnostische und interventionelle Radiologie, Wilhelminenspital und Röntgeninstitut Otto Wagner Spital, Wien, Montleartstr. 37, A-1160 Wien, Austria

Prof. F. Piscaglia, Div. Internal Medicine, Dept of Medical and Surgical Sciences DIMEC, University of Bologna, via Albertoni 15, 40138 Bologna, Italy

PD Dr. K. Seitz, Kreiskrankenhaus Sigmaringen, Innere Abteilung, 72481 Sigmaringen, Germany

Prof. P. Sidhu, King's College London, Radiology King's College, Hospital Denmark Hill, London SE5 9RS, United Kingdom

Prof. Dr. S. Tercanli, Universitätsspital Basel, Praxis, Freie Strasse 38, 4001 Basel, Kanton Baselstadt, Switzerland

Publishers

Georg Thieme Verlag KG
Rüdigerstraße 14, 70469 Stuttgart or
P.O. Box 30 11 20, 70451 Stuttgart
phone +49-711-8931-0, fax +49-711-8931-298

www.thieme.com

<http://www.ultraschall.thieme.de>

<http://www.thieme-connect.de/ejournals>

Copyright

This journal, including all individual contributions and illustrations published therein, is legally protected by copyright for the duration of the copyright period. Any use, exploitation or commercialization outside the narrow limits set by copyright legislation, without the publisher's consent, is illegal and liable to criminal prosecution. This applies in particular to photocopy reproduction, copyright, cyclostyling, mimeographing or duplication of any kind, translating, preparation of microfilms, and electronic data processing and storage.

Advertising responsibility

Thieme.media

Pharmedia Anzeigen- und Verlagsservice GmbH
Irmgard Mayer

Rüdigerstraße 14, 70469 Stuttgart and
P.O. Box 30 08 80, 70448 Stuttgart
phone +49-711-8931-469, fax +49-711-8931-569
e-mail: Irmgard.Mayer@pharmedia.de

Printed in Germany

AZ Druck und Datentechnik, Kempten

Typesetting

Reemers Publishing Services GmbH, Krefeld

Production manager

phone +49-711-8931-277

fax +49-711-8931-355

e-mail: Angelika.Hoebink@thieme.de

Subscription information

phone +49-711-8931-321

fax +49-711-8931-422

e-mail: aboservice@thieme.de

General information

Ultraschall in der Medizin/European Journal of Ultrasound, ISSN 0172-4614, is published in 6 issues per year. Subscribers are asked to inform the publisher immediately in case of address changes in order to ensure correct delivery of the journal.

All subscription orders are entered for the calendar year. The rate of subscription is invoiced in advance at the end of the year for the following year and becomes due for payment for the full calendar year. Subscriptions can be started anytime. Subscriptions are automatically extended each year unless notice of cancellation is received from the subscriber prior to September 30 of each year (applies to Germany, Switzerland, Austria only).

Subscription for Europe and countries outside the American continent

Order from Georg Thieme Verlag KG, Rüdigerstr. 14, 70469 Stuttgart, Germany; P.O. Box 30 11 20, 70451 Stuttgart, Germany; phone +49-711-8931-421; fax +49-711-8931-410; e-mail: custserv@thieme.de.

Subscription rates for 2008 are listed below.

Subscription for the American Continent

Order from Thieme New York, 333 Seventh Avenue, New York, NY 10001, USA. Order toll free +1-800-782-3488 (US only) or +1-212-760-0888, fax +1-212-947-0108; e-mail: customerservice@thieme.com.

Subscription rates for 2008 are listed below.

Airfreight and mailing in the USA by Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003. Periodicals postage paid at Jamaica NY 11431. Postmaster: Send address changes to Ultraschall in der Medizin/European Journal of Ultrasound Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003.

For information on personal rate subscriptions or special society agreements, please contact Fiona Henderson, Thieme International, phone +49-711-8931-458, fax +49-711-8931-410, e-mail: Fiona.Henderson@thieme.de

For Users in the USA

Authorization of photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Georg Thieme Verlag Stuttgart New York for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service; www.copyright.com

For reprint information in the US, please contact: International Reprint Corporation, 287 East "H" St., Benicia, CA 94510, USA; phone: +1-707-746-8740, fax +1-707-746-1643; e-mail: irc@intlreprints.com

Product names

Product names which are registered trademarks may not have been specifically designated as such in every case. In case that a product has been referred to by its registered trademark it cannot be concluded that the name used is in the public domain. The same applies to labels, names or other signs.

Manuscripts

Manuscript submission exclusively via:

<http://mc.manuscriptcentral.com/eju>

For details regarding manuscript submission please

Important note

Medicine is an ever-changing science undergoing continual development. Research and clinical experience are continually expanding our knowledge, in particular our knowledge of proper treatment and drug therapy. Insofar as this journal mentions any dosage or application, readers may rest assured that the authors, editors and publishers have made reasonable effort to ensure that such references are in accordance with the state of knowledge at the time of production of the journal. Nevertheless this does not involve, imply, or express any guarantee or responsibility on the part of the publishers in respect of any dosage instructions and forms of application stated in the journal. Every user is requested to examine carefully the manufacturers' leaflets accompanying each drug and to check, if necessary in consultation with a physician or specialist, whether the dosage schedules mentioned therein or the contraindications stated by the manufacturers differ from the statements made in the present journal. Such examination is particularly important with drugs that are either rarely used or have been newly released on the market. Every dosage schedule or every form of application used is entirely at the users own risk and responsibility. The authors and publishers request every user to report to the publishers any discrepancies or inaccuracies noticed.

refer to "Instruction for Authors". In principle only papers will be accepted which have not been published previously, domestically or abroad. Furthermore, manuscripts may not be offered to other publications at the same time as they are under consideration for this journal.

With the acceptance of the manuscript for publication the authors transfer the exclusive, spatial and temporally unrestricted right to the publishing house for all editions/updates for the duration of the legal period of protection (§ 64 UrHG) for also excerpt-wise utilization in printed form as well as into electronic media (data bases, online reticulated systems, Internet, CD-ROM, DVD, PDA etc.) also in changed form or in form of a excerpt-wise linkage with other works including the translation into other languages as well as by transmission of rights to use to third.

As far as illustrations are taken out of other publications, the author grants only the not exclusive right to use to the extent of the managing paragraph to the publishing house. The author is responsible for the complete indication of source as well as the obtainment of the written consent of the other publishing house to the managing evacuations of right and proves these to the publishing house. The corresponding author will receive a PDF-file for private use.

Online

The scientific text of this journal is available online through Thieme-connect, <http://www.thieme-connect.de>. Access to Thieme-connect is free of charge for personal subscribers. For information concerning licenses and prices for institutional access, please contact Carmen Krenz, e-mail: sales@thieme-connect.de. Customers from North, Central and South America and Canada please contact Alexandra Williams, e-mail: awilliams@thieme.com. Authors may choose to allow, for a fee, free general access to their papers online. For details, please contact ultraschall@thieme.de

© Georg Thieme Verlag KG
Stuttgart · New York 2014

Subscription rates 2014*	Germany	Total	Europe	Total	Global	Total
Postage & Handling	23,80		34,90		42,80	
Personal Subscription Rate	379,00	(402,80)	379,00	(413,90)	379,00	(421,80)
** Institutional Subscription Rate	525,00	(548,80)	525,00	(559,90)	525,00	(567,80)

Members of the following societies will receive this journal within their membership: German Society of Ultrasound in Medicine and Biology; Austrian Society of Ultrasound in Medicine and Biology; Swiss Ultrasound Society in Medicine and Biology; Danish Society of Diagnostic Ultrasound; Norwegian Society of Diagnostic Ultrasound in Medicine; Latvian Society of Ultrasound; Croatian Society of Ultrasound in Medicine and Biology; Slovene Society for Ultrasonics; Romanian Society of Ultrasonography in Medicine and Biology; Hellenic Society for Ultrasound in Medicine and Biology

Single issue: 79,00 Euro

* Prices include 7% VAT; Euro is equivalent to Euro (D).

** Institutional rates include single-site online access

Heft 1	(Februar 2014)	= Seite	1 – 74
Heft 2	(April 2014)	= Seite	95 – 183
Heft 3	(Juni 2014)	= Seite	199 – 281
Heft 4	(August 2014)	= Seite	295 – 372
Heft 5	(Oktober 2014)	= Seite	389 – 476
Heft 6	(Dezember 2014)	= Seite	491 – 575

Case Report

- 473 Buxmann, H., T. Eggermann, D. Lorenz, A. C. Sewell, H. Böhles, R. L. Schlößer, E. Merz
Cystinuria in a Girl Presenting with a Hyperechogenic Colon Detected by Prenatal Ultrasonography and a New SLC3A1 Gene Mutation (p.Phe278Ser)
- 72 De Robertis, R., M. D'Onofrio, E. Manfrin, C. Dal Bo, R. Pozzi Mucelli
A Rare Case of Pancreatic Head Splenosis Diagnosed by Contrast-Enhanced Ultrasound
- 573 Eckmann-Scholz, C., W. Diehl, M. Kanzow, K. Hecher
Monochorionic Twin Pregnancy Complicated by Right Ventricular Outflow Tract Obstruction (RVOTO) of one Fetus without Proof of a Twin-Twin Transfusion Syndrome
- 368 Freesmeyer, M., E. Schleußner, T. Winkens
Diagnosis of Struma Ovarii in a Patient with Papillary Thyroid Carcinoma – Verification via 124I-PET/US Fusion
- 279 Lee, H. M., Y. M. Jeong, S. H Park
Sparganosis of Upper Extremity in Subcutaneous and Intramuscular Layers
- 181 Liu, Z., J. Guo, W. Ren, S. Sun, S. Tang, L. Xie
A Gastric Calcifying Fibrous Pseudotumor Detected by Transabdominal Ultrasound after Oral Administration of an Echoic Cellulose-Based Gastrointestinal Ultrasound Contrast Agent

Congress Report

- 475 Schuler, A., K. Seitz
Ultraschalltrends in der Gastroenterologie – Ein Rückblick auf das 36. Dreiländertreffen 2013 in Stuttgart

Continuing Medical Education

- 208 Chaoui, R., K. S. Heling, K. Karl
Ultrasound of the Fetal Veins Part 1: The Intrahepatic Venous System
- 302 Chaoui, R., K.-S. Heling, K. Karl
Ultrasound of the Fetal Veins Part 2: Veins at the Cardiac Level
- 108 Dietrich, C. F., A. Ignee, C. Greis, X. W. Cui, D. G. Schreiber-Dietrich, M. Hocke
Artifacts and Pitfalls in Contrast-Enhanced Ultrasound of the Liver
- 400 Dietrich, C. F., B. Lembcke, C. Janssen, M. Hocke, A. Ignee, A. Hollerweger
Intestinal Ultrasound in Rare Gastrointestinal Diseases, Update, Part 1
- 500 Donadon, M., G. Costa, G. Torzilli
State of the Art of Intraoperative Ultrasound in Liver Surgery: Current Use for Staging and Resection Guidance
- 10 Rettenbacher, T.
Sonography of Peripheral Lymph Nodes Part 2: Doppler Criteria and Typical Findings of Distinct Entities

Editorial

- 395 Ingravallo, F., C. F. Dietrich, O. H. Gilja, F. Piscaglia
Guidelines, Clinical Practice Recommendations, Position Papers and Consensus Statements: Definition, Preparation, Role and Application
- 95 Konge, L., E. Albrecht-Beste, M. B. Nielsen
Virtual-reality Simulation-based Training in Ultrasound
- 5 Mostbeck, G.
Elastography Everywhere – Now Even the Lungs!
- 497 Seitz, K.
Ultrasound and CT Equivalent in Suspected Kidney Stone – an Impetus to Rethink
- 203 Sellars, M. E., A. Deganello, P. S. Sidhu
Paediatric Contrast-Enhanced Ultrasound (CEUS): A Technique that Requires Co-operation for Rapid Implementation into Clinical Practice
- 299 Tercanli, S., C. Bürgin, E. Merz
Continuing Quality Enhancement
- 389 Ultraschall in der Medizin / European Journal of Ultrasound Continues to Flourish – DEGUM quo vadis?

Letter to the Editor

- 575 Li, Y., Y. Xie, X. Wei
Confirmation of the Depth of the Endotracheal Tube by Ultrasound
- 371 Trovato, G., M. Sperandeo, D. Catalano

Original Article

- 237 Acharya, U. R., M. R. Mookiah, S. Vinitha Sree, R. Yanti, R. J. Martis, L. Saba, F. Molinari, S. Guerriero, J. S. Suri
Evolutionary Algorithm-Based Classifier Parameter Tuning for Automatic Ovarian Cancer Tissue Characterization and Classification
- 357 Axt-Fliehdner, R., A. Tenzer, A. Kawecki, J. Degenhardt, D. Schranz, K. Valeske, M. Vogel, T. Kohl, C. Enzensberger
Prenatal Assessment of Ventriculocoronary Connections and Ventricular Endocardial Fibroelastosis in Hypoplastic Left Heart
- 173 Bertolotto, M., G. Serafini, L. M. Sconfienza, F. Lacelli, M. Cavallaro, A. Coslovich, D. Tognetto, M. A. Cova
The Use of CEUS in the Diagnosis of Retinal/Choroidal Detachment and Associated Intraocular Masses – Preliminary Investigation in Patients with Equivocal Findings at Conventional Ultrasound
- 459 Boehm, J., E. Scheidl, D. Bereczki, T. Schelle, Z. Arányi
High-Resolution Ultrasonography of Peripheral Nerves: Measurements on 14 Nerve Segments in 56 Healthy Subjects and Reliability Assessments
- 267 Burow, A., P. A. Lyrer, P. J. Nederkoorn, M. M. Brown, R. Sztajzel, S. T. Engelter, L. H. Bonati
Echographic Risk Index and Cerebral Ischemic Brain Lesions in Patients Randomized to Stenting versus Endarterectomy for Symptomatic Carotid Artery Stenosis
- 51 Choi, J. S., Y.-J. Choi, E. K. Kim, J. H. Yoon, J. H. Youk, K. H. Han, H. J. Moon, W. J. Kang, J. Y. Kwak
A Risk-Adapted Approach Using US Features and FNA Results in the Management of Thyroid Incidentalomas Identified by 18F-FDG PET
- 246 Cui, X. W., A. Ignee, M. Hocke, K. Seitz, G. Schrade, C. F. Dietrich
Prolonged Heterogeneous Liver Enhancement on Contrast-Enhanced Ultrasound

- 547 Durmus, T., J. Stöckel, T. Slowinski, A. Thomas, T. Fischer
The Hyperechoic Zone Around Breast Lesions – An Indirect Parameter of Malignancy
- 137 Ellegaard, K., H. Bliddal, U. Møller Døhn, M. Henriksen, M. Boesen, R. Bouert, B. Danneskiold-Samsøe, S. Torp-Pedersen
Validity and Reliability of 3D US for the Detection of Erosions in Patients with Rheumatoid Arthritis Using MRI as the Gold Standard
- 566 Enzensberger, C., J. Degenhardt, A. Tenzer, A. Doelle, R. Axt-Fliedner
First Experience with Three-Dimensional Speckle Tracking (3D Wall Motion Tracking) in Fetal Echocardiography
- 166 Enzensberger, C., C. Pulvermacher, J. Degenhardt, A. Kawecki, U. Germer, J. Weichert, M. Krapp, U. Gembruch, R. Axt-Fliedner
Outcome After Second-Trimester Amniocentesis and First-Trimester Chorionic Villus Sampling for Prenatal Diagnosis in Multiple Gestations
- 554 Grigoryev, M., A. Thomas, L. Plath, T. Durmus, T. Slowinski, F. Diekmann, T. Fischer
Detection of Microcalcifications in Women with Dense Breasts and Hypoechoic Focal Lesions: Comparison of Mammography and Ultrasound
- 332 Gruber, H., S. Peer, L. Gruber, W. Loescher, T. Bauer, A. Loizides
Ultrasound Imaging of the Axillary Nerve and its Role in the Diagnosis of Traumatic Impairment
- 540 Hatam, N., A. Goetzenich, R. Rossaint, I. Karfis, J. Bickenbach, R. Autschbach, G. Marx, C. S. Bruells
A Novel Application for Assessing Diaphragmatic Function by Ultrasonic Deformation Analysis in Noninvasively Ventilated Healthy Young Adults
- 149 Havre, R. F., S. Leh, O. H. Gilja, S. Ødegaard, J. E. Waage, G. Baatrup, L. B. Nesje
Strain Assessment in Surgically Resected Inflammatory and Neoplastic Bowel Lesions
- 451 Hoffmann, B., J. P. Gullett, H. F. Hill, D. Fuller, M. C. Westergaard, W. T. Hosek, J. A. Smith
Bedside Ultrasound of the Neck Confirms Endotracheal Tube Position in Emergency Intubations
- 440 Imboden, S., M. Müller, L. Raio, M. D. Mueller, B. Tutschek
Clinical Significance of 3D Ultrasound Compared to MRI in Uterine Malformations
- 253 Janssen, J., I. Papavassiliou
Effect of Aging and Diffuse Chronic Pancreatitis on Pancreas Elasticity Evaluated using Semiquantitative EUS Elastography
- 350 Kollmann, M., J. Voetsch, C. Koidl, E. Schest, M. Haeusler, U. Lang, P. Klaritsch
Etiology and Perinatal Outcome of Polyhydramnios
- 159 Lindner, A., M. Frieser, R. Heide, D. Wildner, M. F. Neurath, W. Dauth, T. Bernatik, D. Strobel
Postinterventional Pain and Complications of Sonographically Guided Interventions in the Liver and Pancreas
- 534 Lock, G., C. Schröder, C. Schmidt, P. Anheuser, T. Loening, K. P. Dieckmann
Contrast-Enhanced Ultrasound and Real-Time Elastography for the Diagnosis of Benign Leydig Cell Tumors of the Testis – A Single Center Report on 13 Cases
- 432 Park, V. Y., M. J. Kim, H. J. Moon, E. K. Kim
Additional Malignant Breast Lesions Detected on Second-Look US After Breast MRI vs. Additional Malignant Lesions Detected on Initial US in Breast Cancer Patients: Comparison of US Characteristics
- 129 Pashaj, S., E. Merz
Prenatal Demonstration of Normal Variants of the Pericallosal Artery by 3D Ultrasound
- 44 Pfeifer, L., R. S. Goertz, J. Sturm, D. Wachter, M. O. Riener, J. Schwitulla, T. Bernatik, M. F. Neurath, D. Strobel
Acoustic Radiation Force Impulse (ARFI) and High-Frequency Ultrasound of the Liver Surface for the Diagnosis of Compensated Liver Cirrhosis
- 339 Radosa, M. P., J. Vorwegk, J. Fitzgerald, C. Kaehler, U. Schneider, O. Camara, I. B. Runnebaum, E. Schleußner
Sonographic Discrimination Between Benign and Malignant Adnexal Masses in Premenopause
- 67 Rubaltelli, L., V. Beltrame, E. Scagliori, E. Bezzon, A. C. Frigo, M. Rastrelli, R. Stramare
Potential Use of Contrast-Enhanced Ultrasound (CEUS) in the Detection of Metastatic Superficial Lymph Nodes in Melanoma Patients
- 528 Salzl, P., T. Reiberger, M. Ferlitsch, B. A. Payer, B. Schwengerer, M. Trauner, M. Peck-Radosavljevic, A. Ferlitsch
Evaluation of Portal Hypertension and Varices by Acoustic Radiation Force Impulse Imaging of the Liver Compared to Transient Elastography and AST to Platelet Ratio Index
- 561 Schiffmann, M. L., S. D. Schäfer, A. N. Schüring, L. Kiesel, C. Sauerland, M. Götte, R. Schmitz
Importance of Transvaginal Ultrasound Applying Elastography for Identifying Deep Infiltrating Endometriosis – A Feasibility Study
- 445 Scholbach, T. M., C. Vogel, N. Bergner
Color Doppler Sonographic Dynamic Tissue Perfusion Measurement Demonstrates Significantly Reduced Cortical Perfusion in Children with Diabetes Mellitus Type 1 without Microalbuminuria and Apparently Healthy Kidneys
- 259 Sporea, I., R. Badea, A. Popescu, Z. Spârchez, R. L. Şirli, M. Dănilă, L. Săndulescu, S. Bota, D. P. Calescu, D. Nedelcu, C. Brisc, L. Ciobăca, L. Gheorghe, M. Socaciu, A. Martie, S. Ioaniţescu, A. Tamas, C. T. Streba, M. Iordache, I. Simionov, M. Jinga, A. Anghel, C. Cijevschi Prelipcean, C. Mihai, S. M. Stanciu, D. Stoicescu, E. Dumitru, C. Pietrareanu, D. Bartos, R. Manzat Saplacan, I. Pârvulescu, R. Vădan, G. Smira, L. Tuţă, A. Săftoiu
Contrast-Enhanced Ultrasound (CEUS) For The Evaluation Of Focal Liver Lesions – A Prospective Multicenter Study Of Its Usefulness In Clinical Practice
- 273 Stenberg, B., C. Chandler, H. Wyrley-Birch, S. T. Elliott
Post-Operative 3-Dimensional Contrast-Enhanced Ultrasound (CEUS) Versus Tc99m-DTPA in the Detection of Post-Surgical Perfusion Defects in Kidney Transplants – Preliminary Findings
- 142 Trenker, C., S. Kunsch, P. Michl, T. T. Wissniewski, K. Goerg, C. Goerg
Contrast-Enhanced Ultrasound (CEUS) in Hepatic Lymphoma: Retrospective Evaluation in 38 Cases
- 522 Wildner, D., L. Pfeifer, R. S. Goertz, T. Bernatik, J. Sturm, M. F. Neurath, D. Strobel
Dynamic Contrast-Enhanced Ultrasound (DCE-US) for the Characterization of Hepatocellular Carcinoma and Cholangiocellular Carcinoma
- 59 Wojcinski, S., F. Degenhardt, U. Peisker, S. Beussel, M. Hahn
Sonoelastography Usage Among German DEGUM-Certified Breast Ultrasound Specialists

- 345 Würstlein, R., F. Degenhardt, V. Duda, H. Madjar, E. Merz, A. Mundinger, R. Ohlinger, U. Peisker, R. Schulz-Wendtland, M. Warm, M. Hahn
Evaluation der DEGUM-Mammasonografiekurse nach objektivierbaren Kriterien
- 468 Zhuo, J., W. Fu, S. Liu
Correlation of Contrast-Enhanced Ultrasound with Two Distinct Types of Blood Vessels for the Assessment of Angiogenesis in Lewis Lung Carcinoma

Rapid Communication

- 38 Karlas, T., F. Lindner, M. Tröltzsch, V. Keim
Assessment of Spleen Stiffness Using Acoustic Radiation Force Impulse Imaging (ARFI): Definition of Examination Standards and Impact of Breathing Maneuvers
- 364 Pfeifer, L., D. Strobel, M. F. Neurath, D. Wildner
Liver Stiffness Assessed by Acoustic Radiation Force Impulse (ARFI) Technology Is Considerably Increased in Patients with Cholestasis

Review

- 515 D'Onofrio, M., E. Biagioli, C. Gerardi, S. Canestrini, E. Rulli, S. Crosara, R. De Robertis, I. Floriani
Diagnostic Performance of Contrast-Enhanced Ultrasound (CEUS) and Contrast-Enhanced Endoscopic Ultrasound (ECEUS) for the Differentiation of Pancreatic Lesions: A Systematic Review and Meta-Analysis
- 422 Ertl, M., F. Barinka, E. Torke, M. Altmann, K. Pfister, H. Helbig, U. Bogdahn, M. A. Gamulescu, F. Schlachetzki
Ocular Color-Coded Sonography – A Promising Tool for Neurologists and Intensive Care Physicians
- 229 Kagan, K. O., B. Eiben, P. Kozłowski
Combined First Trimester Screening and Cell-Free Fetal DNA – “Next Generation Screening”
- 322 Walter, U., D. Školoudík
Transcranial Sonography (TCS) of Brain Parenchyma in Movement Disorders: Quality Standards, Diagnostic Applications and Novel Technologies

Technical Development

- 33 Adamietz, B. R., P. A. Fasching, S. Jud, R. Schulz-Wendtland, K. Anders, M. Uder, W. Wüst, C. Rauh, M. Meier-Meitinger
Ultrasound Elastography of Pulmonary Lesions – A Feasibility Study

Title Page

- 1 Garrard, J. W., K. Ramnarine
Title Page – Shear-Wave Elastography in Carotid Plaques: Comparison with Grayscale Median and Histological Assessment in an Interesting Case
- 199 Höpfner, M, A H Scheel, M Braun, J Rüschoff, C Löser
Unusual Nodular Regenerative Hyperplasia Mimicking Liver Metastases in CEUS
- 491 Krüger, A. K., C. Schmidt, G. Lock
Portal Venous Gas – Always an Ominous Sign?
- 295 Prenatal diagnosis of an isolated Coronary arterial fistula
- 391 Prenatal Diagnosis of Loeys–Dietz Syndrome

A

Acharya, U. R. 237
 Adamietz, B. R. 33
 Albrecht-Beste, E. 95
 Altmann, M. 422
 Anders, K. 33
 Anghel, A. 259
 Anheuser, P. 534
 Arányi, Z. 459
 Autschbach, R. 540
 Axt-Fliedner, R. 166, 357, 566

B

Baatrup, G. 149
 Backhaus, M.
 Badea, R. 259
 Barinka, F. 422
 Bartos, D. 259
 Basaran, A.
 Bauer, T. 332
 Beltrame, V. 67
 Bereczki, D. 459
 Berg, C.
 Bergner, N. 445
 Bernatik, T. 44, 159, 522
 Bertolotto, M. 173
 Berzigotti, A.
 Beussel, S. 59
 Bezzon, E. 67
 Biagioli, E. 515
 Bickenbach, J. 540
 Blank, W.
 Bliddal, H. 137
 Boehm, J. 459
 Boesen, M. 137
 Bogdahn, U. 422
 Böhles, H. 473
 Bonagura, A. C.
 Bonati, L. H. 267
 Bota, S. 259
 Bouert, R. 137
 Boy, S.
 Braun, M. 199
 Brisc, C. 259
 Brown, M. M. 267
 Bruells, C. S. 540
 Bürgin, C. 299
 Burmester, G. R.
 Burow, A. 267
 Buxmann, H. 473

C

Calescu, D. P. 259
 Camara, O. 339
 Canestrini, S. 515
 Cantisani, V.
 Catalano, D. 371
 Cavallaro, M. 173
 Chandler, C. 273
 Chaoui, R. 208, 302
 Choi, J. S. 51
 Choi, Y.-J. 51
 Chopra, S. S.
 Cijevschi Prelipcean, C. 259

Ciobâca, L. 259
 Colmorn, L. B.
 Coslovich, A. 173
 Costa, G. 500
 Cova, M. A. 173
 Crosara, S. 515
 Cui, X. W. 108, 246
 Cui, X.-W.

D

Dal Bo, C. 72
 Dănilă, M. 259
 Danneskiold-Samsøe, B. 137
 Dauth, W. 159
 Deganello, A. 203
 Degenhardt, F. 59, 345
 Degenhardt, J. 166, 357, 566
 Denecke, T.
 De Robertis, R. 72, 515
 Deutschle, P.
 Dieckmann, K. P. 534
 Diehl, W. 573
 Diekmann, F. 554
 Dietrich, C. F. 108, 246, 395, 400
 Di Leo, N.
 Di Vece, F.
 Doelle, A. 566
 Doležal, L.
 Donadon, M. 500
 D'Onofrio, M. 515
 D'Onofrio, M. 72
 Drudi, F. M.
 Drudi, Francesco
 Duda, V. 345
 Dumitru, E. 259
 Durmus, T. 547, 554

E

Eckmann-Scholz, C. 573
 Eggermann, T. 473
 Eiben, B. 229
 Eisele, R.
 Elia, F.
 Ellegaard, K. 137
 Elliott, S. T. 273
 Engel, A.
 Engelter, S. T. 267
 Enzensberger, C. 166, 357, 566
 Ertl, M. 422
 Eskef, K.
 Eyding, J.

F

Faas, D.
 Fasching, P. A. 33
 Ferlitsch, A. 528
 Ferlitsch, M. 528
 Fette, A.
 Fischer, T. 547, 554
 Fitzgerald, J. 339
 Floriani, I. 515
 Freesmeyer, M. 368
 Frieser, M. 159
 Frigo, A. C. 67

Fu, W. 468
 Fuller, D. 451

G

Galeotti, R.
 Gamulescu, M. A. 422
 Garcovich, M.
 Garrard, J. W. 1
 Geipel, A.
 Gembruch, U. 166
 Gerardi, C. 515
 Germer, U. 166
 Gheorghe, L. 259
 Gilja, O. H. 149, 395
 Gnecci, M.
 Goerg, C. 142
 Goerg, K. 142
 Goertz, R. S. 44, 522
 Goetzenich, A. 540
 Götte, M. 561
 Gottschalk, I.
 Greis, C. 108
 Grieser, C.
 Grigoryev, M. 554
 Gruber, H. 332
 Gruber, L. 332
 Grujic Koracin, J.
 Guckelberger, O.
 Guerriero, S. 237
 Gullett, J. P. 451
 Guo, J. 181

H

Habek, D.
 Haberlehner, I.
 Haeusler, M. 350
 Hagendorff, A.
 Hahn, M. 59, 345
 Han, K. H. 51
 Harrer, J. U.
 Hatam, N. 540
 Haug, U.
 Havre, R. F. 149
 He, Y.T.
 Hecher, K. 573
 Heide, R. 159
 Heinzmann, A.
 Helbig, H. 422
 Heling, K. S. 208
 Heling, K.-S. 302
 Helvind, M.
 Hennerici, M.
 Henriksen, M. 137
 Hermann, K.-G.
 Hill, H. F. 451
 Hocke, M. 108, 246, 400
 Hoffmann, B. 451
 Hollerweger, A. 400
 Holschbach, V.
 Höpfner, M. 199
 Hosek, W. T. 451
 Hoxha, A.

I

Iera, J.
 Ignee, A. 108, 246, 400
 Ilivitzki, A.
 Imboden, S. 440
 Ingravallo, F. 395
 Ioanițescu, S. 259
 Iordache, M. 259
 Iori, F.

J

Jaeger, T.
 Janssen, J. 253
 Jensen, T.
 Jenssen, C. 400
 Jeong, Y. M. 279
 Jinga, M. 259
 Jud, S. 33
 Jørgensen, F. S.

K

Kaehler, C. 339
 Kagan, K. O. 229
 Kaiser, B.
 Kang, W. J. 51
 Kanzow, M. 573
 Karfis, I. 540
 Karl, K. 208, 302
 Karlas, T. 38
 Kawecki, A. 166, 357
 Keim, V. 38
 Kiesel, L. 561
 Kim, E. K. 51, 432
 Kim, M. J. 432
 Klaritsch, P. 350
 Koch, A. M.
 Kohl, T. 357
 Köhrmann, M.
 Koidl, C. 350
 Kollmann, C.
 Kollmann, M. 350
 Konge, L. 95
 Kozlowski, P. 229
 Krapp, M. 166
 Krüger, A. K. 491
 Kubicka, S.
 Kunsch, S. 142
 Kwak, J. Y. 51

L

Lacelli, F. 173
 Lang, U. 350
 Lattrich, C. R.
 Lee, H. M. 279
 Leh, S. 149
 Lembcke, B. 400
 Lenz, F.
 Li, S. Y.
 Li, Y. 575
 Liang, X.
 Lindner, A. 159
 Lindner, F. 38

Liu, S. 468
 Liu, Z. 181
 Lock, G. 491, 534
 Loening, T. 534
 Loescher, W. 332
 Loizides, A. 332
 Lorenz, D. 473
 Löser, C. 199
 Lyrer, P. A. 267

M

Madjar, H. 345
 Malpassini, F.
 Manfrin, E. 72
 Manzat Saplacan, R. 259
 Martie, A. 259
 Martis, R. J. 237
 Marx, G. 540
 Mayr, J.
 Meier-Meitingner, M. 33
 Merz, E. 129, 299, 345, 473
 Michel, M.
 Michl, P. 142
 Mihai, C. 259
 Miric Tesanic, D.
 Mogl, M.
 Molinari, F. 237
 Mookiah, M. R. 237
 Moon, H. J. 51, 432
 Mostbeck, G. 5
 Mueller, M. D. 440
 Müller, A. M.
 Müller, H.
 Müller, M. 440
 Müller, T.
 Mundinger, A. 345
 Musicco, F.
 Møller Døhn, U. 137

N

Nedelcu, D. 259
 Nedelmann, M.
 Nederkoorn, P. J. 267
 Nesje, L. B. 149
 Neuhaus, P.
 Neurath, M. F. 44, 159, 364, 522
 Nielsen, M. B. 95
 Nonnenmacher, S.

O

Ohlinger, R. 345
 Ortmann, O.

P

Papavassiliou, I. 253
 Park, S. H. 279
 Park, V. Y. 432
 Pârvulescu, I. 259
 Pashaj, S. 129
 Payer, B. A. 528
 Peck-Radosavljevic, M. 528
 Peer, S. 332

Peisker, U. 59, 345
 Perren, F.
 Petersen, B. L.
 Pfeifer, L. 44, 364, 522
 Pfeiffer, D.
 Pfister, K. 422
 Pietroreanu, C. 259
 Piscaglia, F. 395
 Plath, L. 554
 Pompili, M.
 Popescu, A. 259
 Pozzi Mucelli, R. 72
 Pulvermacher, C. 166

R

Radosa, M. P. 339
 Raio, L. 440
 Ramnarine, K. 1
 Rapaccini, G.
 Rastrelli, M. 67
 Rauh, C. 33
 Rediner, U.
 Reiberger, T. 528
 Ren, W. 181
 Rettenbacher, T. 10
 Riccardi, L.
 Riener, M. O. 44
 Ritter, M.
 Rossaint, R. 540
 Rubaltelli, L. 67
 Rulli, E. 515
 Runnebaum, I. B. 339
 Rüschoff, J. 199

S

Saba, L. 237
 Săftoiu, A. 259
 Salvesen, K. Å.
 Salviato, E.
 Salzl, P. 528
 Săndulescu, L. 259
 Sartori, S.
 Sauerland, C. 561
 Scagliori, E. 67
 Schäfer, S. D. 561
 Scheel, A. H. 199
 Scheidl, E. 459
 Schelle, T. 459
 Schest, E. 350
 Schiffmann, M. L. 561
 Schlachetzki, F. 422
 Schleußner, E. 339, 368
 Schlößner, R. L. 473
 Schmid, E.
 Schmidt, C. 491, 534
 Schminke, U.
 Schmitz, R. 561
 Schneider, U. 339
 Scholbach, T. M. 445
 Schrade, G. 246
 Schranz, D. 357
 Schreiber-Dietrich, D. G. 108
 Schröder, C. 534
 Schuessler, G.
 Schuler, A. 475

Schulte-Altendorneburg, G.
 Schulz-Wendtland, R. 33, 345
 Schüring, A. N. 561
 Schwarze, A.
 Schwengerer, B. 528
 Schwitulla, J. 44
 Sconfianza, L. M. 173
 Seccia, A.
 Seitz, K. 246, 475, 497
 Seliger, C.
 Sellars, M. E. 203
 Serafini, G. 173
 Sewell, A. C. 473
 Shaoul, R.
 Shou, J.D.
 Sidhu, P. S. 203
 Simionov, I. 259
 Şirli, R. L. 259
 Školoudík, D. 322
 Slowinski, T. 547, 554
 Smira, G. 259
 Smith, J. A. 451
 Socaciu, M. 259
 Solivetti, F. M.
 Sollazzi, L.
 Song, I.-H.
 Spârchez, Z. 259
 Sperandeo, M. 371
 Sporea, I. 259
 Stanciu, S. M. 259
 Stanojevic, M.
 Steiner, H.
 Stenberg, B. 273
 Stöbe, S.
 Stöckel, J. 547
 Stoebe, S.
 Stoicescu, D. 259
 Stramare, R. 67
 Streba, C. T. 259
 Strobel, D. 44, 159, 364, 522
 Sturm, J. 44, 522
 Sun, S. 181
 Suri, J. S. 237
 Sztajzel, R. 267

T

Tamas, A. 259
 Tang, S. 181
 Tarr, A.
 Tenzer, A. 357, 566
 Tercanli, S. 299
 ter Haar, G.
 Thomas, A. 547, 554
 Tikvica Luetic, A.
 Tognetto, D. 173
 Tombesi, P.
 Torka, E. 422
 Torp-Pedersen, S. 137
 Torzilli, G. 500
 Trauner, M. 528
 Trenker, C. 142
 Tröltzsch, M. 38
 Trovato, G. 371
 Turmanidze, N.
 Tuță, L. 259
 Tutschek, B. 440

U

Uder, M. 33

V

Vădan, R. 259
 Valentin, L.
 Valentino, M.
 Valeske, K. 357
 Viaccoz, A.
 Vinitha Sree, S. 237
 Voetsch, J. 350
 Vogel, C. 445
 Vogel, M. 357
 Vorwegk, J. 339

W

Waage, J. E. 149
 Wachter, D. 44
 Walter, U. 322
 Warm, M. 345
 Wei, X. 575
 Weichert, J. 166
 Wessel, L.
 Westergaard, M. C. 451
 Wiethölter, H.
 Wildner, D. 159, 364, 522
 Winkens, T. 368
 Wissniowski, T. T. 142
 Wojcinski, S. 59
 Würstlein, R. 345
 Wüst, W. 33
 Wyrley-Birch, H. 273

X

Xie, L. 181
 Xie, Y. 575
 Xu, H.S.
 Xu, K.

Y

Yanti, R. 237
 Yoon, J. H. 51
 Youk, J. H. 51

Z

Zhuo, J. 468
 Ødegaard, S. 149