— INTERNATIONAL SOCIETY FOR —
ISMRM
MAGNETIC RESONANCE IN MEDICINE

ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

ISMRM WORKSHOP ON

Body MRI: Unsolved Problems & Unmet Needs

28-30 MARCH 2025

Children's Hospital of Philadelphia
Philadelphia, PA, USA

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SPEAKER UPLOAD INFORMATION

- Friday, 28 March 2025 07:15-07:45
- Saturday, 29 March 2025 07:30-08:00
- Sunday, 30 March 2025 07:30-08:00

PROGRAM CREDIT DESIGNATION

The International Society for Magnetic Resonance in Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The International Society for Magnetic Resonance in Medicine designates this live activity for a preliminary maximum of 8.0* *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Declarations of financial interests from all workshop participants are available here.

Workshop Program

Day 1: Friday, 28 March 2025 *(3.50 CME available)*		
07:15	Registration	
07:45	*Opening Remarks & Welcome Address*	Kassa Darge, M.D., Elizabeth Hecht, M.D. & Holden Wu, Ph.D.
Session 1: Unmet Needs in Body MRI		
Moderators: Sudha Anupindi, M.D. & Ryan Brunsing, M.D., Ph.D.		
08:00	*Abdominal Applications*	Victoria Cherniak, M.D. Columbia University New York, NY, USA
08:20	*Female Pelvis Applications*	Leo Razakamanantsoa, M.D., Ph.D. Greater Paris University Hospitals Paris, France
08:40	*Pediatric Body Imaging*	Mary-Louise Greer, M.B.B.S., FRANZCR University of Toronto Toronto, ON, Canada
09:00	*Whole-Body Imaging & Cancer Management/Staging*	Vipul Sheth, M.D., Ph.D. Stanford University Stanford, CA, USA
09:20	*Whole-Body Screening (Low-Risk Population): Promises & Controversy*	Stella Kang, M.D. New York Langone Health New York, NY, USA
09:40	Moderated Panel Discussion	
10:00	Break & Poster Viewing *(No CME Available)*	
Session 2: AI, Acceleration & Artifact Correction *(No CME Available)*		
Moderators: Sila Kurugol, Ph.D. & Ricardo Otazo, Ph.D.		
10:30	*Motion-Tolerant Body MRI Using AI*	Thomas Küstner, Ph.D. University Hospital of Tübingen Tuebingen, Germany
10:50	*Other Artifact Correction (Susceptibility, Motion, Denoising...)*	Onur Afacan, Ph.D. Boston Children's Hospital Boston, MA, USA
11:10	*Motion-Compensated Magnetic Resonance Fingerprinting in Body Applications*	Rasim Boyacioglu, Ph.D. Case Western Reserve University Cleveland, OH, USA
11:30	*Quantitative Parameter Estimation in Body MRI with Deep Learning (DWI, DCE-MRI)*	Oliver Gurney-Champion, Ph.D. Amsterdam University Medical Center Amsterdam, The Netherlands
11:50	*Technical Considerations for Success (Clinical Translation)*	Mariya Doneva, Ph.D. Philips Innovative Technologies Hamburg, Germany

12:10	*Real-Time MRI*	Franz Wolfgang Hirsch, M.D. Liepzig University Liepzig, Germany
12:30	Lunch	
Session 3: Quantitative MR Imaging Biomarkers *(No CME Available)*		
Moderators: Michael Boss, Ph.D. & Amita Shukla-Dave, Ph.D.		
14:00	*QIBs: "State of the Union," Consortia Perspectives*	Matt Hall, Ph.D. National Physical Laboratory Teddington, England, UK
14:20	*Clinical Trials & QIBs: Industry Perspectives*	Michael Boss, Ph.D. Glaxosmithkline Philadelphia, PA, USA
14:40	*Fat & Iron*	Jürgen Machann, Ph.D. University Hospital of Tübingen Tuebingen, Germany
15:00	*DWI/ADC*	Daniel Margolis, M.D. Weill Cornell Medical College New York, NY, USA
15:20	*T1, T2 Mapping*	Octavia Bane, Ph.D. Mount Sinai Hospital New York, NY, USA
15:40	*Elastography*	Meng Yin, Ph.D. Mayo Clinic Rochester, MN, USA
16:00	Break & Poster Viewing *(No CME Available)*	
Proffered Papers - Oral Session I *Moderators: Elizabeth Hecht, M.D. & Houchun Harry Hu, Ph.D.*		
16:30	*Comprehensive Liver Imaging with Hybrid Multi-Echo Radial Look-Locker (hME-rLL) Acquisition*	Eze Ahanonu, M.Sc. University of Arizona Tucson, AZ, USA
16:35	*Respiratory Triggered Abdominal T2-Weighted Imaging for Concurrent T2 Water Mapping & PDFF Quantification Using RADGRASE*	Brian Toner, M.Sc. University of Arizona Tucson, AZ, USA
16:40	*Respiratory-Triggered Full Pancreas Water T1 Mapping Using Single-Shot Continuous Inversion-Recovery Spiral Imaging*	Elizabeth Huaroc Moquillaza, M.Sc. Technical University of Munich Munich, Germany
16:45	*3D Free-Breathing T1/T2/T2*/PDFF Kidney Mapping with Dictionary-Patch Regularized Low Rank Motion Corrected Rosette MRF*	Gastao Cruz, Ph.D. University of Michigan Ann Arbor, MI, USA
16:50	*Cardiac Gating, Flow Compensation & Robust Fitting Effects on Renal Diffusion Kurtosis Imaging*	Nima Gilani, Ph.D. New York University Langone Health New York, NY, USA
16:55	*Distortion-Free Diffusion-Weighted Imaging of the Prostate Using TGSE-Based Golden-Angle PROPELLER Acquisition & Deep Learning Denoising*	Jingjia Chen, Ph.D. New York University Grossman School of Medicine New York, NY, USA

17:00	*Multiparametric MRI Evaluation of Renal Functional Reserve in Response to Oral Protein Loading*	Corina Margain, B.Sc. University of Texas at Austin Austin, TX, USA
17:05	*Improved Quantitative IVIM-DWI in Pediatric Crohn's Disease*	Cemre Ariyurek, Ph.D. Harvard Medical School Boston, MA, USA
17:10	*Comparative Analysis of GI Motility Scores Using Cine T2-Weighted bSSFP & SSFSE in MR Enterography in Patients with & without Active Inflammation from Crohn's Disease*	Elima Hussain, Ph.D. Stanford University Stanford, CA, USA
17:15	*Analysing Tissue Properties & Peristalsis of Uterine Zones Using 0.55T Dynamic T2**	Smiti Tripathy, M.Sc. Friedrich-Alexander-Universität Erlangen, Germany
17:20	*Gradient-Guided Super-Resolution Reconstruction for Rapid, High-Resolution Whole-Body MRI in Infants*	Deniz Kocanaogullari, Ph.D. Harvard Medical School Boston, MA, USA
17:25	*Towards Quiet, Free-Breathing DCE-MRI Using Zero TE Imaging*	Shreya Ramachandran, B.Sc. University of California, Berkeley Berkeley, CA, USA
17:30	Discussion	
Hot Topic I: The Future of Exogenous Contrast Agents *Moderators: Ari Borthakur, Ph.D. & Anugayathri Jawahar, M.D.*		
17:40	*Advances in Gadolinium-Based Contrast Agents*	Natalie Serkova, Ph.D. University of Colorado Anschutz Medical Campus Aurora, CO, USA
18:05	*Moving Beyond Just GBCA in Clinical Practice*	Mark Pagel, Ph.D. University of Wisconsin-Madison Madison, WI, USA
18:30	Networking Reception	
19:30	Adjourn	

Day 2: Saturday, 29 March 2025 *(3.25 CME available)*		
07:30	Registration	
Session 4: Hot Topics in Clinical Practice		
Moderators: Hero K. Hussain, M.D. & Evan Siegelman, M.D.		
08:00	*Problem-Focused Protocols for Cancer Surveillance: When is Less, More?*	Kristina Ringe, M.D. Hannover Medical School Hannover, Germany
08:20	*Assessment of Liver Treatment Response with MRI*	Carla Harmath, M.D. University of Chicago Chicago, IL, USA
08:40	*Rectal Cancer Pre-Post Treatment: What the Surgeon Wants To Know?*	Maria El Homsi, M.D. Memorial Sloan Kettering Cancer Center New York, NY, USA

09:00	*A Masterclass in MR Imaging of the Female Pelvis*	Kimberly Shampain, M.D. University of Michigan Ann Harbor, MI, USA
09:20	*Prostate Cancer MRI: The Life of PI: PI-RADS, PI-RR, PI-FAB*	Valdair Francisco Muglia, M.D. University of Sao Paulo Sao Paulo, Brazil
09:40	Break & Poster Viewing *(No CME Available)*	
Session 5: AI/Machine Learning & Clinical Practice Workflow		
Moderators: Ari Borthakur, Ph.D. & Thomas Küstner, Ph.D.		
10:10	*AI in Body MRI: Pros & Cons*	Michael Ohliger, M.D., Ph.D. University of California, San Francisco San Francisco, CA, USA
10:30	*New AI-Based Reconstruction & Image Enhancement Techniques in Body MRI*	Marcel Dominik Nickel, Ph.D. Siemens Healthineers AG Forchheim, Germany
10:50	*Image Enhancement with Machine Learning in Body MRI*	Efrat Shimron, Ph.D. Israel Institute of Technology Haifa, Israel
11:10	**Proffered Papers - Power Pitch Session** Moderators: Elizabeth Hecht, M.D., Alexander R. Guimaraes, M.D., Ph.D. & Suraj Serai, Ph.D.	
	Simultaneous 3D Free-Breathing Abdominal Water T1 & T2 Mapping Using Cartesian Sampling with Spiral Profile Ordering	Jonathan Stelter, M.Sc. Technische Universität München Munich, Germany
	Free-Breathing Fat Quantification Using a Phase Error-Corrected Multi-Echo Gradient Echo Acquisition with Spiral Profile Ordering (CASPR)	Philipp Braun, M.Sc. Technische Universität München Munich, Germany
	Improved Liver T1, T2, T2 & PDFF Mapping at 0.55T Using Rosette MRF with Optimized Sequence Design & Deep Image Reconstruction*	Tom Griesler, M.Sc. University of Michigan Ann Arbor, MI, USA
	*Bipolar Readouts Improve Quantitative Performance of Motion-Robust, Flip-Angle Modulated PDFF Mapping at High R2**	Jiayi Tang, M.Sc. University of Wisconsin-Madison Madison, WI, USA
	Flip-Angle Modulated 2D-CSE-MRI for Motion-Robust Free-Breathing Liver PDFF & R2 Mapping in a Clinical Setting*	Julius Heidenreich, M.D. University of Wisconsin-Madison Madison, WI, USA
	Multiparametric Quantitative MRI for Assessing Metabolic-Associated Steatotic Liver Disease: MR Elastography, Water T1, R2star & PDFF	Jingjia Chen, Ph.D. New York University Grossman School of Medicine New York, NY, USA
	DeepGrasp: Highly-Accelerated, Free-Breathing, Time-Resolved 4D Golden-Angle Radial MRI with Self-Supervised Learning	Haoyang Pei, M.Sc. New York University Grossman School of Medicine New York, NY, USA
	SELFIE: SElf-Supervised Learning for Fast DynamIc Golden-angLE Radial MRI Reconstruction with Auto-Extracted Representations & Unstreaking	Melanie Schellenberg, Ph.D. Memorial Sloan Kettering Cancer Center New York, NY, USA

	Combination of Deep Learning Auto-Navigation & Motion-Resolved Reconstruction for Fast Free-Breathing Abdominal MRI	Victor Murray, Ph.D. Memorial Sloan Kettering Cancer Center New York, NY, USA
	Kidney T1, T2, T2, T1rho & PDFF Mapping at 1.5T Using Rosette MRF with Dictionary-Patch Based Regularization*	Tom Griesler, M.Sc. University of Michigan Ann Arbor, MI, USA
	T1 & T2 Mapping on Renal In Vivo Data of 3T MRI Scanners: A Multi-Center & Multi-Vendor Reproducibility Study	Anika Strittmatter, M.Sc. Heidelberg University Heidelberg, Germany
	Multi-Center Test-Retest Repeatability & Reproducibility of Diffusion MRI Measurements: Preliminary Findings	Siria Pasini, M.Sc. IRCCS Istituto di Ricerche Farmacologiche Mario Negri Milano, Italy
	Distortion-Free Diffusion-Weighted Imaging in the Body Using Self-Navigated Acquisition & Subspace Reconstruction	Xuetong Zhou, M.Sc. Stanford University Stanford, CA, USA
	Dual-Echo Dynamic Distortion & Motion Corrected Renal DW-MRI in Pediatric Hydronephrosis	Liam Timms, Ph.D. Boston's Children's Hospital Boston, MA, USA
	Spectral Diffusion MRI Detects Early Fibrosis in Renal Allografts in a Pilot Clinical Translational Study	Mira Liu, Ph.D. Icahn School of Medicine at Mount Sinai New York, NY, USA
	Diffusion Tensor Imaging in Pediatric Kidney Transplants.	Suraj Serai, Ph.D. Children's Hospital of Philadelphia Philadelphia, PA, USA
	A Preliminary Study for Measuring Diffusion Exchange in Renal MRI	Cemre Ariyurek, Ph.D. Harvard Medical School Boston, MA, USA
	Data-Driven Motion Correction for Paced & Free Breathing Kidney Arterial Spin Labeling	Jiachen Wang, B.Sc. University of Texas at Austin Austin, TX, USA
	Multi-Delay Kidney ASL Accuracy is Improved Using a Single-Compartment Model with Simultaneous Estimation of Arterial Arrival & Outflow Time	Jiachen Wang, B.Sc. University of Texas at Austin Austin, TX, USA
	Free-Breathing MRI Quantification of Renal Metabolic Rate of Oxygen via Conservation of Flow & Mass	Nada Kamona, M.Sc. University of Pennsylvania Philadelphia, PA, USA
	Free-Breathing 3D Pulmonary Ventilation Mapping at 0.55T Using Stack-of-Spiral Out-In bSSFP	Ziwei Zhao, Ph.D. University of Southern California Los Angeles, CA, USA
	Hybrid Learning: A Novel Combination of Self-Supervised & Supervised Learning for Joint MRI Reconstruction & Denoising Without High-Quality Training Reference	Haoyang Pei, M.Sc. New York University Grossman School of Medicine New York, NY, USA
	Joint Denoising & Reconstruction of T2-Weighted PROPELLER MRI of the Lung at 0.55T Using Self-Supervised Deep Learning	Jingjia Chen, Ph.D. New York University Grossman School of Medicine New York, NY, USA

	Flexible & Conformal Torso Coil Array for 7T Prostate MRI	Ozlem Ipek, Ph.D. King's College London London, England, UK
	Disease Detection Rate of Combination Ga-68 PSMA-PET/CT & Whole-Body MRI in Biochemical Recurrence After Prostatectomy	Sajeev Sridhar, M.D. Houston Methodist Hospital Houston, TX, USA
12:30	Lunch	
Session 6: Partnerships & Team Science *(No CME Available)*		
Moderators: Houchun Harry Hu, Ph.D. & Jürgen Machann, Ph.D.		
14:00	*Global Partnerships & Addressing Disparities in Access to Body MRI*	Farouk Dako, M.D., M.P.H. University of Pennsylvania Philadelphia, PA, USA
14:25	GE HealthCare	Maggie Fung, Ph.D.
14:35	Philips Healthcare	Hans Peeters, Ph.D.
14:45	Canon Medical Systems Corporation	Mo Kadbi, Ph.D.
14:55	United Imaging	Abram Voorhees, Ph.D.
15:05	Siemens Healthineers	Chang Gao, Ph.D.
15:15	*Strategies in Collaborative Science To Advance Body Imaging: Lessons Learned*	Richard Ehman, M.D. Mayo Clinic Rochester, MN, USA
15:35	Moderated Panel Discussion	
16:00	Break & Poster Viewing *(No CME Available)*	
Session 7: Fact vs. Fiction: An MRI Artifact Gameshow *(No CME Available)*		
Moderator: Brian Hargreaves, Ph.D.		
16:30	TBA	Brian Hargreaves, Ph.D. Stanford University Stanford, CA, USA
17:10	*Pearls & Potential Pitfalls of AI in Body MRI*	Arnaud Guidon, Ph.D. GE Healthcare
Hot Topic II: Field of Dreams *(No CME Available)* *Moderators: Houchun Harry Hu, Ph.D. & Rina Neeman, M.D.*		
17:25	*How Low Can We Go in Body MRI?*	Clarissa Cooley, Ph.D. Harvard Medical School Boston, MA, USA
17:55	*Body MRI in the Mid to High-Field: Is There a Sweet Spot?*	Tom Scheenen, Ph.D. Radboud University Medical Center Nijmegen, The Netherlands
18:20	Discussion	
18:45	Networking Dinner	

Day 3: Sunday, 30 March 2025 *(1.25 CME available)*		
07:30	Registration	
Session 8: Awards Ceremony/Announcing New Leadership		
Moderators: Elizabeth Hecht, M.D. & Holden Wu, Ph.D.		
08:00	Awards Ceremony/Announcing New Leadership	
Session 9: Champions for Change (or How NOT To Get Lost in Translation)		
Moderator: Mary-Louise Greer, M.B.B.S., FRANCR & Kristina Ringe, M.D.		
08:30	*Bridging the Gap: Lessons Learned from Radiation Oncology*	Jie Deng, Ph.D. University of Texas Southwestern Medical Center Dallas, TX, USA
08:50	*Just Breathe: Free-Breathing DCE & Other Applications*	Hersh Chandarana, M.D. & Li Feng, Ph.D.
09:20	*MR Fingerprinting: Mystery Solved?*	Alexander R. Guimaraes, M.D., Ph.D. & Cory Wyatt, Ph.D.
09:50	Q & A	
10:00	Break	
Session 10: Vendor Neutral AI Platforms & Analysis Software *(No CME Available)*		
Moderators: Elizabeth Hecht, M.D. & Holden Wu, Ph.D.		
10:30	*Solutions to Deploy & Monitor AI Models for Body Imaging in a Healthcare System*	Ari Borthakur, Ph.D. University of Pennsylvania Philadelphia, PA, USA
11:00	*Multi-Parametric Image Analysis*	Hansel Otero, M.D. & Suraj Serai, Ph.D.
11:30	Q & A	
Session 11: Study Group Meeting: Weekend in Review & Future Directions *(No CME Available)*		
Moderators: Ryan Brunsing, M.D., Ph.D., Hersh Chandarana, M.D. & Elizabeth Hecht, M.D.		
11:40	Discussion	
12:00	Boxed Lunch & Adjourn	

Posters

Poster	Title	Author
1	*Evaluation of MRI Dashboard & Care Levels Implementation in the Inpatient MRI Workflow*	Jonathan Garner, B.Sc. Georgetown University School of Medicine Washington, DC, USA
2	*Whole-Body Diffusion MRI with CSE-Guided Optimized Slice-Specific Shimming*	Aidan Tollefson, M.Sc. University of Wisconsin-Madison Madison, WI, USA
3	*Diffusion MRI of the Liver with Optimized Slice-Specific, Liver-specific Shimming*	Aidan Tollefson, M.Sc. University of Wisconsin-Madison Madison, WI, USA
4	*Prospective Comparison of Gradient Echo & Spin Echo Magnetic Resonance Elastography in Subjects with Liver Iron Overload*	Chunwei Ying, Ph.D. Siemens Medical Solutions USA, Inc. Malvern, PA, USA
5	*Validation of Standardized Liver Water T1 Using MOLLI T1 Mapping Data Combined with PDFF &T2* Measurements*	Patrick Hales, Ph.D. Perspectum Oxford, England, UK
6	*Vendor-Neutral, Free-Breathing Fat Quantification Demonstrates Low Bias & High Reproducibility in Phantoms & In Vivo*	Jiayi Tang, M.Sc. University of Wisconsin-Madison Madison, WI, USA
7	*Accelerated Whole Liver Water T1 Mapping Using a Neuronal-Network-Based Inversion Recovery Technique*	Elizabeth Huaroc Moquillaza, M.Sc. Technical University of Munich Munich, Germany
8	*Optimizing Biliary Function Assessment Using Gadoxetate Disodium Contrast-Enhanced Multiphase Golden-Angle Radial Sparse Parallel MRI*	Anshuman Panda, Ph.D. Mayo Clinic Phoenix, AZ, USA
9	*Computational Modeling of Exudate Flux Using DCE-MRI in Pancreatic Ductal Adenocarcinoma Patients Undergoing Stereotactic Body Radiotherapy*	Ramesh Paudyal, Ph.D. Memorial Sloan Kettering Cancer Center New York, NY, USA
10	*Reporting ADPKD Phenotypes on Abdominal MRI & CT Scans*	Zhongxiu Hu, M.Sc. Weill Cornell Medicine New York, NY, USA
11	*Subtype & Immuno-Oncologic Markers of Solid Renal Masses with Functional MRI & Clear Cell Likelihood Score*	Mira Liu, Ph.D. Icahn School of Medicine at Mount Sinai New York, NY, USA
12	*Repeatability of Renal Water-Fat Separated BOLD*	Markus Henningsson, Ph.D. Perspectum Oxford, England, UK
13	*Two-Dimensional Fitting of T2-IVIM Data in the Liver & Kidney*	Julia Stabinska, Ph.D. Kennedy Krieger Institute Baltimore, MD, USA
14	*Repeatability of Renal Proton Density Fat Fraction*	Markus Henningsson, Ph.D. Perspectum Oxford, England, UK
15	*Feasibility of Kidney Blood Volume Quantification Using Non-Exogenous Contrast Deoxyhemoglobin DSC*	Corina Margain, B.Sc. University of Texas at Austin Austin, TX, USA

Poster	Title	Author
16	*Accuracy of Volume Measurements by T1-SPGR, T2-Weighted Single Shot Fast Spin Echo & Steady-State Free Precession MRI Scans*	Vahid Bazojoo, M.D. Weill Cornell Medicine New York, NY, USA
17	*Deep Learning for Kidney Segmentation Using Quantitative MRI: Bridging the Gap Between Simulated & In Vivo Data*	Kian Weihrauch, H.S. Diploma University of Michigan Ann Arbor, MI, USA
18	*Role of MRI In the Diagnosis of Adnexal Torsion: Lessons from Sonographically Missed Cases*	Wajahat Dawood, M.D. Houston Methodist Hospital Houston, TX, USA
19	*Unsupervised Anomaly Detection of Diseases in the Female Pelvis for Real-Time MR Imaging*	Anika Knupfer, B.Sc. Friedrich-Alexander University Erlangen, Germany
20	*Evaluation of Accelerated 2D & 3D Acquisition Strategies for T2-Weighted MRI of the Prostate*	Eugene Milshteyn, Ph.D. GE HealthCare Boston, MA, USA
21	*Prostrate Imaging Co-Pilot*	Arun Seetharaman, M.Sc. Vista Institute Menlo Park, CA, USA
22	*3D High-Resolution Reduced Field-of-View T2-Weighted Prostate Imaging by Combining 3D EPI & Spatially Selective Pulses*	Jiayao Yang, M.Sc. University of Michigan Ann Arbor, MI, USA
23	*Patient Compliance & Impact of Enema on Prostate MR Image Quality Using PI-QUAL Version 2*	Ananya Panda, M.D. University of Iowa Health Care Iowa City, IA, USA
24	*A Novel AI Toolkit for Multiparametric MRI Analysis in Bladder Cancer*	Muhammed Awais, Ph.D. Memorial Sloan Kettering Cancer Center New York, NY, USA
25	*MRI Radiomic Feature Predicts Pathological Response in Bladder Cancer to Neoadjuvant Chemotherapy*	Alfonso Lema-Dopico, Ph.D. Memorial Sloan Kettering Cancer Center New York, NY, USA

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