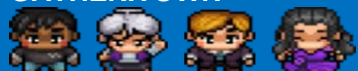


Program of Annual Conference of SMRA 2021

September 10 to 12, 2021

PHEEDLOOP Sessions


GATHER.TOWN






NOTE: Program subject to changes.

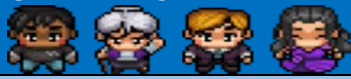
Time: UTC	Topics	Speaker/moderator
September 9, 2021		
UTC Time 15:00-16:00	Reception	GATHER.TOWN
September 10, 2021		
UTC Time 8:00-10:00	Joint Symposium 1 (Asia-Europe): Intracranial MRA, Multicenter Studies, and Cardiac Imaging	Moderators: Aleksandra Radjenovic, Huilin Zhao
8:00-8:15	MR-based Collateral Imaging in Stroke	Bum-Soo Kim
8:15-8:30	Intracranial vessel wall MRI: Standard of Care or Specialized Medicine?	Anja van der Kolk
8:30-8:45	Chinese Atherosclerosis Risk Evaluation (CARE-II): A MR Vessel Wall Imaging-Based Multicenter Study	Xihai Zhao
8:45-9:00	Plaque At RISK (PARISK): prospective multicenter study to improve diagnosis of high-risk carotid plaques	Eline Kooi
9:00-9:15	3D Dark-blood Phase Sensitive Inversion Recovery Imaging for Atrium	Haiyan Ding
9:15-9:30	Brief introduction of Cardiac MRI and its Challenges	Claudia Prieto
9:30-9:45	Sponsor's talk by Bayer "COVID and the HEART"	Valentina Püntmann
9:45-10:00	Discussion	
UTC Time 13:30-15:00	Education Session 1: CE-MRA and Vessel Wall Imaging	Moderators: Kevin DeMarco, Matt Alexander
13:30-14:30	Summary of CE-MRA and Q&A	
Safety of the Gadolinium-Based Contrast Agents: GBCA Pharmacokinetics and Prevention of Hypersensitivity Reactions and post-contrast acute kidney injury		Aart van der Molen
NSF - RIP		Giles Roditi
Current state on Gadolinium Deposition		Alexander Radbruch
Ferumoxytol Administration for CE-MRA - Principles & Safety		Kim-Lien Nguyen
Predicting In Vivo Gadolinium-Based Contrast Agent Concentration in Contrast Enhanced MRA Based on Blood Signal Intensity		Jeffrey Maki
CE-MRA - Current and Future Clinical Status		Tim Leiner
14:30-15:00	Summary of Vessel Wall Imaging and Q&A	
Clinical implications of Vessel Wall Imaging and Applications		Mahmud Mossa-Basha
Intracranial and extracranial vessel wall imaging: how do we do it?		Baocheng Chu
Vessel Wall MR Imaging techniques		Niranjana Balu
UTC Time 15:00-16:30	Plenary Session 1: Opening Lecture, Potchen & Passariello Awards	Moderators: Giles Roditi, Elizabeth Hecht
15:00-15:10	Opening remarks	Giles Roditi
15:10-15:40	Martin R Prince, MD, PhD Lecture: CE-MRA – Past, Present and Future	Martin Prince
Competition for Potchen & Passariello Awards - Finalists		
15:40-15:48	Placental Maternal Blood Volume Measurements in Rhesus Macaques using Variable Flip Angle T1 Mapping	Ruiming Chen

15:48-15:56	Saturated Multi-delay Arterial Spin Labeling (SAMURAI) Technique for Multiparametric Kidney MRI	Zihan Ning
15:56-16:04	Vascular Mapping of the Human Hippocampus in vivo Using MICRO Imaging	Sagar Buch
16:04-16:12	Evaluation of Pulmonary Hypertension Using 4D Flow MRI	John Cerne
16:12-16:20	Assessing the mechanism of action of sodium-glucose co-transporter 2 inhibition using quantitative interleaved cardio-renal MRI: pre-treatment findings in SUGAR-DM-HF study	Matthew Lee
16:20-16:28	Non-contrast enhanced 3D Cartesian MRA of the thoracic aorta in 3 min: preliminary clinical evaluation	Anastasia Fotaki
UTC Time 17:00-18:55	Scientific session 1: Artificial Intelligence	Moderators: Zechen Zhou, Anthony Christodoulou
Oral Presentations		
17:00-17:12	Low Rank Motion Correction for free-breathing first pass MR myocardial perfusion imaging	Gastao Cruz
17:12-17:24	Automatic time-resolved cardiovascular segmentation of 4D Flow MRI using Deep Learning Mariana Bustamante	Mariana Bustamante
17:24-17:36	Deep Learning Automated Segmentation of CE-MRA Left Atrial Structures of AF Patients	Justin Baraboo
17:36-17:48	Joint Learning of Group-wise Diffeomorphic Registration and Reconstruction of Cardiac Cine MRI	Haikun Qi
17:48-18:00	Deep-Learning based Reconstruction of Highly Accelerated 4D Flow MRI	Haben Berhane
18:00-18:12	Decomposition-Recomposition: Memory Efficient Deep Learning Reconstruction for High Resolution, 3D, Non-Cartesian Pulmonary Magnetic Resonance Angiography (MRA)	Zachary Miller
18:12-18:24	Neurovascular 4D-Flow using Motion Correction and Deep Learning Denoising	Steven Kecskemeti
Poster Power Pitch		
18:24-18:28	A Deep Learning-Based Approach to Identify Patients without Myocardial Scar to Reduce Unnecessary Gadolinium Administration in Cardiac MRI	Ahmed Fahmy
18:28-18:32	Deep Learning Performs Flow Quantification of Cardiovascular 2D Phase Contrast MRI at Human Level	Maurice Pradella
18:32-18:36	Convolutional Neural Network for Autonomous Segmentation of Intracerebral Hemorrhage Components for Image Guidance in Minimally-Invasive Surgical Evacuation	Thomas Lilieholm
18:36-18:40	Impact of loss function in phase-contrast MRI reconstruction using deep learning	Gaël Touquet
18:40-18:44	A study on the size of 3D patch in the vascular segmentation of neck TOF MRA images based on 3D ResUnet	Wei Qiu
18:45-18:55	Sponsor's talk by Philips "Frontiers of Philips Cardiovascular	Xiaoyong Zhang

	MR Research” Q&A to follow	
UTC Time	ECC Events	GATHER.TOWN 
19:30-20:30	Speed Networking	Peter Douglas, Yalei Yang
September 11, 2021		
UTC Time 0:00-2:00	Joint Symposium 2 (Asia-North America): Coronary MRA, Flow & Quantitative Vascular Imaging	Moderators: Michael Markl, Hideki Ota
0:00-0:15	Clinical utility of whole-heart coronary MRA: Asian approaches	Masaki Ishida
0:15-0:30	Multi-Dimensional Coronary MRA in Children	Paul Finn
0:30-0:45	Asian Approach to Blood Flow Imaging	Rui Li
0:45-1:00	North American Approach to Blood Flow Imaging	Laura Eisenmenger
1:00-1:15	Quantitative vascular imaging – Asian approach	Huijun Chen
1:15-1:30	Quantitative vascular imaging – North America approach	Zhaoyang Fan
1:30-1:45	Sponsor’s talk by Siemens Healthcare GmbH Whole brain vessel wall imaging in stroke patients (WISP): An International Multi-center Registry	Qi Yang
1:45-2:00	Discussion	
UTC Time 2:00-3:30	Education session 2: Artificial Intelligence	Moderators: Niranjan Balu, Feng Huang
2:00-2:30	Summary and Q&A	
	DEEP RECON - AI based Medical Image Reconstruction	Dinggang Shen
	AI in Vascular imaging Clinical Application	Greg Zaharchuk
	AI in vascular disease screening and large clinical trial applications	Chun Yuan
Competition for Awards of Grand Challenge		
2:30-2:35	Introduction	Niranjan Balu
2:35-2:41	Team Name: Wall-E	Dieuwertje Alblas
2:41-2:47	Team Name: grox167	Zhuoan Li
2:47-2:53	Team Name: song (jiaqithu)	Jiaqi Dou
2:53-2:59	Team Name: nvauto	Andriy Myronenko
2:59-3:05	Team Name: bydctrl	Shuai Shen
3:05-3:11	Team Name: LAVA	Florian Thamm
3:11-3:17	Team Name: mingjiang	Mingjie Jiang
3:17-3:23	Team Name: Procrastinators	Wei Ren
3:23-3:29	Team Name: YunNGOTHK	Ruiyun Zhu
3:30-3:45	Sponsor’s talk by TSimaging Healthcare “Vessel Wall MRI moves from Lab to Clinic: TSimaging Solution” Q&A to follow	Shuo Chen
UTC Time 12:00-13:40	Scientific session 2: Neurovascular-Clinical	Moderators: Ye Qiao, Hedyeh Baradaran
Oral Presentations		
12:00-12:12	Carotid atherosclerosis is associated with brain infarcts and cognitive decline.	Niranjan Balu
12:12-12:24	Risk factors of new ipsilateral ischemic lesions after carotid artery stenting: A MRI and clinical study based on high-resolution carotid plaque images	Ranying Zhang
12:24-12:36	Shorter length of visible intracranial arteries on non-contrast enhanced MRA	Zhensen Chen

	is associated with cognitive impairment	
12:36-12:48	Clinical and morphological characteristics predicting recurrent ischemic stroke after intensive medical management: A prospective analysis of intracranial atherosclerosis using high-resolution magnetic resonance imaging	Zhang Shi
12:48-13:00	Guidelines for institutional policy regarding the safe use of ferumoxytol for MRI and MRA	Yasaman Soltani
Poster Power Pitch		
13:00-13:04	In-vivo Magnetic Resonance Histology of Peripheral Arterial Chronic Total Occlusions in Chronic Limb Threatening Ischemia Patients	Kavya Sinha
13:04-13:08	Analysis of the value of High Resolution-Vessel Wall Imaging in the etiology of single small subcortical infarction	Yutian Li
13:08-13:12	Hemodynamic Difference between Borderzone Infarct and non-Borderzone Infarct in Patients with Middle Cerebral Artery Atherosclerosis	Wenwen Chen
13:12-13:16	Comparison of MRI, MRA, and Vessel Wall Imaging features of Cerebral Amyloid Angiopathy and Cerebral Amyloid Angiopathy-Related Inflammation	Vance Lehman
13:16-13:20	Visualization of lenticulostriate arteries on intracranial VW-MRI: relationship between MCA atherosclerotic plaque and infarction types	Li Qian
13:20-13:24	The Research of relationship between the left or right hemisphere ischemic stroke and left ventricular systolic function	Lijuan Zheng
13:24-13:28	Plaque location distribution in patients with intracranial atherosclerotic plaques with fetal posterior cerebral artery	Dingqi Liu
13:30-13:40	Sponsor's talk by GE Healthcare "Advanced MR Vascular Imaging in Novel Clinical Applications At GE Platform" Q&A to follow	Weiqliang Dou
UTC Time	ECC Events	GATHER.TOWN 
13:45-14:15	Mentor/Mentee Communication	Nan Wang, Carson Hoffman
14:15-15:00	Fireside Chat with Martin Prince	Liliana Ma, Matthew Lanier
UTC Time 15:00-17:02	Joint Scientific session 3: Cardiac MRI, Coronary and Aortic MRA 	Moderators: Rene Botnar, Caroline Colbert
Oral Presentations		
15:00-15:12	Non-ECG, free-breathing cine T1/T2/T2*/fat-fraction mapping for comprehensive myocardial tissue characterization with MR multitasking	Tianle Cao
15:12-15:24	An investigation on the similarity-driven multi-dimensional binning algorithm using a numerical phantom simulation	Ludovica Romanin
15:24-15:36	Predicting In Vivo Gadolinium-Based	Evan Norris

	Contrast Agent Concentration in Contrast Enhanced MRA Based on Blood Signal Intensity	
15:36-15:48	Non-rigid Motion-compensated Whole-heart 3D T2 mapping in a hybrid PET-MR	Alina Psenicny
15:48-16:00	Free-Breathing, Multiple Overlapping Thin-Slab Stack-of-Stars Balanced Steady-State Free-Precession MR Angiography: a Non-contrast Alternative to CT Angiography for TAVR Planning	Bradley Allen
16:00-16:12	Shortening the saturation recovery time improves accuracy for quantification of arterial input function and myocardial blood flow from cardiac perfusion MRI	Lexiaozi Fan
16:12-16:24	Simultaneous non-contrast enhanced 3D coronary MRA and plaque imaging in patients with acute coronary syndrome	Reza Hajhosseiny
16:24-16:36	Simultaneous Multi-slice Cardiac MR Multitasking for Motion-Resolved, Non-ECG, Free-Breathing Joint T1-T2 Mapping	Xianglun Mao
Poster Power Pitch		
16:36-16:40	Free-running 3D Simultaneous T1/T2 Myocardial Mapping in Less than 5 min with Low-rank Non-rigid Cardiac Motion-corrected Reconstruction	Andrew Phair
16:40-16:44	Free-breathing 3D whole-heart joint T1/T2 quantification with isotropic resolution: preliminary clinical evaluation	Carlos Velasco
16:44-16:48	Myocardial T1 Mapping using Semi-supervised Deep Learning Motion Correction Method	Chunyan Wu
16:48-16:52	A Cardiac MRI investigation of the correlation between left ventricular function and myocardial strain in hypertrophic cardiomyopathic patients	Shaotong Feng
16:52-17:02	Sponsor's talk by United Imaging "Cardiac MR: Exploration through Global Industrial-Academic Partnerships" Q&A to follow	Jian Xu
UTC Time	ECC Events	GATHER.TOWN 
17:30-18:30	Fireside Chat: Chun Yuan, Mahmud Mossa-Basha, Dennis Parker	Matthew Alexander, Trisha Roy
September 12, 2021		
UTC Time 0:00-1:40	Scientific session 4: Neurovascular- Technical	Moderators: Leonardo Rivera-Rivera, Maria Aristova
Oral Presentations		
0:00-0:12	Multi-planar, multi-contrast and multi-time point analysis tool (MOCHA) for intracranial vessel wall imaging analysis	Yin Guo
0:12-0:24	Multi-echo 3D-MERGE for Large-coverage Quantitative Carotid Vessel Wall Imaging	Zechen Zhou
0:24-0:36	Quantification of cerebral oxygen extraction fraction of the medial temporal lobe	Dengrong Jiang
0:36-0:48	Standardization of the Intracranial	Beibei Sun

	Atherosclerotic Plaque Enhancement Measurement by Using Multi-phase Contrast-enhanced Vessel Wall MRI	
0:48-1:00	What's Wrong with our MRAs? The Lightbulb Moment!	Rosario Lopez-Gonzalez
1:00-1:12	Simultaneous T1, T2 and T2* Mapping of the Carotid Plaque Using Combined Single- and Multi-echo Three dimensional Golden Angle Radial Acquisition	Yajie Wang
Poster Power Pitch		
1:12-1:16	Automated 3D modeling and analysis of cerebral small vessels with MR angiography at 7 Tesla	Zhixin Li
1:16-1:20	Simultaneous Multi-contrast MRI for Carotid Plaque Assessment in One Sequence	Jiaqi Dou
1:20-1:24	Standardization of Intracranial Aneurysm Enhancement Measurement by Using Multi-phase Contrast-enhanced Vessel Wall MRI	Xiao Li
1:24-1:28	Prototype Platform for Real-time MR-guided Brain Clot Evacuation	Robert Moskwa
1:30-1:40	Sponsor's talk by Circle Cardiovascular Imaging "4D Flow MRI in Bicuspid Aortic Valve Disease" Q&A to follow	Michael Markl
UTC Time	ECC Events	GATHER.TOWN 
2:00-3:00	Speed Networking	Carson Hoffman, Yin Guo
UTC Time 12:00-14:00	Scientific session 5: Flow Imaging	Moderators: Liliana Ma, Grant Roberts
Oral Presentations		
12:00-12:12	Thin-Slab Stack-of-Stars Multi-echo Quantitative Time-of-Flight (qTOF) MRA for Simultaneous Luminal and Hemodynamic Evaluation of the Intracranial Arteries	Ioannis Koktzoglou
12:12-12:24	Self-calibrating method to simultaneously optimize 4D Flow eddy current correction & detect wraparound artifacts using a novel stochastic 4D flow-field disparity signature technique	Thara Nallamothe
12:24-12:36	Velocity-based cardiac self-gating in free-running radial 4D Flow MRI	Monica Sigovan
12:36-12:48	4D Flow MRI of Porcine Pulmonary Hypertension Induced via Pulmonary Vein Banding	Daniel Seiter
12:48-13:00	Automated Cerebral Vascular Function Estimation for Permeability Estimation	Wallace S Loos
13:00-13:12	Abdominal 4D Flow MRI in Obese Patients – A Pilot Study	Alma Spahic
13:12-13:24	Magnetic Resonance Imaging of Aortitis	Shivam Kaushik
Poster Power Pitch		
13:24-13:28	Associations between carotid plaque characteristics and perioperative cerebral blood flow determined by arterial spin labeling imaging in patients with moderate-to-severe stenosis undergoing carotid endarterectomy	Ran Huo
13:28-13:32	Respiratory Resolved Flow in the Fontan	Elizabeth Weiss

	Circulation: A 5D Flow MRI Case Study	
13:32-13:36	Cerebral blood flow distribution at different phases in different types of Circle of Willis using 4D Flow imaging	Xiaoyan Bai
13:36-13:40	Predicting Delayed In-Stent Stenosis following Flow Diversion of Unruptured Aneurysms using Vessel Wall MRI	Justin Costello
13:40-13:44	Time-Average Wall Shear Stress in Normal subjects, Subjects with Atherosclerotic Lesions and Subjects with Carotid Webs	Retta El Sayed
13:44-13:48	Quiescent-Interval Slice-Selective - Magnetic Resonance Angiography and other flow related Magnetic Resonance Angiography-sequences at 3 Tesla in comparison to contrast enhanced - Magnetic Resonance Angiography/- Magnetic Resonance Imaging for evaluation and quantification of the thoracic aorta after therapy – preliminary results	Tamara Sand
13:50-14:00	Sponsor's talk by Pie Medical Imaging "Cardiovascular 4D Flow MRI in the clinic" Q&A to follow	Jos Westenberg
14:00-15:00	Open Poster Viewing	GATHER.TOWN 
15:00-16:00	Plenary session 2: Closing Lecture and Awards	Moderators: Richard Frayne, Dennis Parker
15:00-15:05	Introduction of Sadamoto Lecture	Dennis Parker
15:05-15:35	Kazuhiko Sadamoto, MD Lecture: Treatment of intracranial arterial stenosis	Yilong Wang
15:35-15:50	Announcement of awards and closing remarks	Chun Yuan, Xihai Zhao
15:50-16:00	Invitation to 2023 meeting	Debiao Li
UTC Time	ECC Events	GATHER.TOWN 
16:00-17:00	Meet the Rising Stars	Mohammed Elbaz, David Marlevi