

# SCMR Traditional Poster Guidelines

## SCMR 22ND ANNUAL SCIENTIFIC SESSIONS



Global CMR: Innovation And Clinical Outcomes

February 6 - 9, 2019

Bellevue, WA USA

Hyatt Regency Bellevue on Seattle's Eastside

**Society for Cardiovascular  
Magnetic Resonance (SCMR)**

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[www.scmr2019.org](http://www.scmr2019.org)

## Traditional Poster Sessions

- Quick Fire Posters (QF)
- SCMR/ISCMRM Co-Provided Workshop Posters (WP)
- Technologist Track Posters (TP)
- Traditional Posters (P)

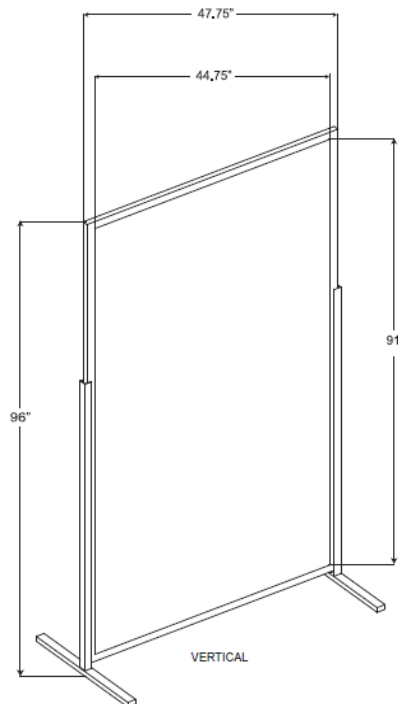
Session	Session Date	Session Time	Poster Setup Start Time*	Poster Removal End Time**
Session 1	Thursday, February 7	4:20 PM to 5:05 PM	12:00 PM	8:00 PM
Session 2	Friday, February 8	12:05 PM to 1:05 PM	7:30 AM	2:40 PM
Session 3	Friday, February 8	3:45 PM to 4:30 PM	2:40 PM	7:00 PM
Session 4	Saturday, February 9	11:10 AM to 11:55 AM	7:30 AM	3:30 PM

\* All posters must be in place before the session begins.

\*\* If your poster is not claimed by the removal end time, it will be discarded.

### General Guidelines

1. Please refer to pages 3-31 for your poster ID number.
2. Posters will be presented on boards measuring 91 inches in height x 44 ¾ inches in width (portrait/vertical orientation). Push pins will be provided to affix your poster to the board.



3. The following format is suggested for all poster presentations:
  - a. Abstract Title
  - b. Conflict of Interest Statement
  - c. Background
  - d. Objectives
  - e. Methods
  - f. Results
  - g. Conclusions

4. A poster may contain text, graphs, photographs, diagrams, etc.

## Poster Printing Services

The SCMR has arranged a special service to print your posters at a discounted price. Orders must be received **no later than Thursday, January 17, 2019**.

1. Go to [www.shepardes.com/posters](http://www.shepardes.com/posters)
2. Find the event name: **SCMR Annual Scientific Sessions**
3. Login using your email address (same contact email you provided to submit your abstract)
4. Enter in password: **SCMR 19**
5. Choose your poster size:
6. Reference Shepard's Graphic Guidelines to ensure your artwork is in the correct format
7. Upload your graphics to your order
8. **\*\*Proceed to checkout**
9. When you arrive onsite, go to the Shepard Service Desk (located in the Exhibit Hall - Grand D-K) during your poster setup hours to pick up your poster

*\*\*Orders will be processed when credit cards payments are entered and accepted.*

For additional information, please contact [losangeles@shepardes.com](mailto:losangeles@shepardes.com) or (909) 212-7240.

<b>Poster ID Number</b>	<b>Poster Session</b>	<b>Presenter First Name</b>	<b>Presenter Last Name</b>	<b>Poster Title</b>
P001	Traditional Poster Session 1	Karolina	Zareba	Ventricular repolarization heterogeneity is associated with myocardial fibrosis by cardiac magnetic resonance
P002	Traditional Poster Session 1	Gulrays	Jamie	Left ventricular scar estimation by American Heart Association 17-segment model : a simple binary assessment to predict ventricular arrhythmia
P003	Traditional Poster Session 1	Shiro	Nakamori	Gadolinium free native T1 tissue heterogeneity improves risk stratification in patients with nonischemic dilated cardiomyopathy evaluated for cardioverter-defibrillator implantation
P004	Traditional Poster Session 1	Kenneth	Bilchick	Risk Stratification for 4-Year Survival and Defibrillator Therapies After Cardiac Resynchronization Therapy with Non-contrast Versus Contrast-Enhanced CMR
P005	Traditional Poster Session 1	Anduena	Dardha	Predictors of impaired LGE-MRI quality in the assessment of left atrial fibrosis in patients with atrial fibrillation
P006	Traditional Poster Session 1	Salman	Bhatti	Prevalence and prognostic significance of myocardial fibrosis in young patients with atrial fibrillation
P007	Traditional Poster Session 1	Mu	Zeng	Incremental diagnostic value of cardiovascular magnetic resonance imaging in myocardial infarction with nonobstructive coronary arteries
P008	Traditional Poster Session 1	Alberto	Cipriani	Subclinical myocardial injury in cardiovascular high-risk patients after acute event: insights from the BeLove pilot study.
P009	Traditional Poster Session 1	Christopher	Kelly	Diffusion tensor imaging in acute myocardial infarction: STEAM and spin echo sequences
P010	Traditional Poster Session 1	James	Goldfarb	A Comparison of Pre- and Post-Contrast Water-Fat Separation for the Identification of Fatty Metaplasia in Ischemic Cardiomyopathy
P011	Traditional Poster Session 1	Eric	Johnson	Iron-Rich Chronic Myocardial Infarct Territories are Associated with Reduced Resting Perfusion: Early Findings in Patients with Multi-Modal Validation in a Canine Model of Reperfused Infarction
P012	Traditional Poster Session 1	Ahsan	Javed	"Saturation"-based Steady Pulsed Myocardial ASL Perfusion Imaging
P013	Traditional Poster Session 1	Haisam	Islam	Automatic calculation of inversion time for myocardial scar mapping
P014	Traditional Poster Session 1	Adele	Kastensson	Not all LGE was created equal – comparison of the impact of LGE size on left ventricular ejection fraction in infarction versus myocarditis

P015	Traditional Poster Session 1	Mareike	Gastl	Effect of intracoronary bone marrow-derived mononuclear cell injection after myocardial infarction on CMR-derived myocardial strain
P016	Traditional Poster Session 1	Qi	Yang	Assessment of At-Risk Myocardium in Patients with Reperfused Acute Myocardial Infarction Using Contrast-Enhanced Steady-State Free-Precession MRI at 3.0T
P017	Traditional Poster Session 1	Arka	Das	Diffusion tensor imaging in patients following acute myocardial infarction
P018	Traditional Poster Session 1	Sebastian	Bohnen	Post-Contrast Stress T1 Mapping to Detect Ischemic Myocardial Segments on 3.0 Tesla – initial experience
P019	Traditional Poster Session 1	Peter	McCartney	Comparative incidence and extent of infarct core pathology revealed by contrast-enhanced cine SSFP (CE-SSFP) vs. late gadolinium enhanced cardiac MRI
P020	Traditional Poster Session 1	Jonathan	Berg	Decreased atrioventricular plane displacement after acute myocardial infarction yields a concomitant decrease in stroke volume – Opportunity for future devices
P021	Traditional Poster Session 1	Malgorzata	Polacin	Comparison of standard 3D LGE Imaging with novel short inversion time 3D LGE Imaging in patients after myocardial infarction
P022	Traditional Poster Session 1	Stephanie	Angulo	Evaluation of predictors of post-myocardial infarction ventricular remodeling: An integrative study on cardiac magnetic resonance, electrocardiography and invasive angiography
P023	Traditional Poster Session 1	Amit	Arbune	New Onset Left Ventricular Hypertrophy: What's the diagnosis?
P024	Traditional Poster Session 1	Ahmad Ramy	Elashery	A rare etiology of right atrial pseudomass: caval foramen hernia.
P025	Traditional Poster Session 1	Adam	Christopher	Characterization of a Pediatric Intrapericardial Malignant Rhabdoid Tumor by Multiparametric CMR Imaging
P026	Traditional Poster Session 1	Shashank	Jain	A Not-so-Simple case of a "Simple" Pericardial Cyst.
P027	Traditional Poster Session 1	Roosha	Parikh	Rare case of cardiac hamartoma masquerading as septal hypertrophy.
P028	Traditional Poster Session 1	Kartikeya	Kashyap	Role of Cardiovascular Magnetic Resonance imaging in the diagnosis and tissue characterization of an intra-cardiac mass

P029	Traditional Poster Session 1	Bhavin	Jankharia	Tuberculosis of the myocardium masquerading as Angiosarcoma
P030	Traditional Poster Session 1	John	Dreisbach	CMR Based Diagnosis of LV Non-Compaction Cardiomyopathy: Impact of Feature Tracking Strain Analysis
P031	Traditional Poster Session 1	Julia	Vietheer	DCM patients show significantly reduced circumferential strain compared to ICM patients despite similar EF, volumes and native T1
P032	Traditional Poster Session 1	Forrest N.	Gamble	Determining diastolic dysfunction by modeling the untwisting of the left ventricle as a damped harmonic oscillator: dynamic approach
P033	Traditional Poster Session 1	Michael	Gannon	Regional Analysis of Myocardial Strain to Wall Thickness Ratio in Cardiac Amyloidosis
P034	Traditional Poster Session 1	Ilya	Verzhbinsky	Helix Angle Mobility During Systole Using High Resolution Cardiac Diffusion Tensor Imaging
P035	Traditional Poster Session 1	Henrik	von Kleist	Cardiac Self-gating for Cine MRI with a Cartesian K-space Trajectory
P036	Traditional Poster Session 1	Nathaniel	Reichek	Effects of Afterload on Left Ventricular Ejection Fraction, Systolic Strains and Peak Strain Rates in the Normal Heart: Impact of Age and Gender
P037	Traditional Poster Session 1	Lucy	Lei	Myocardial Deformation Analysis Identifies Midwall Striae Pattern Fibrosis in Patients with Dilated Cardiomyopathy
P038	Traditional Poster Session 1	Haruno	Ito	Comprehensive CMR assessment of cardiac structure, mechanics and coronary flow reserve in patients with diabetes mellitus without the history of MI
P039	Traditional Poster Session 1	Changyu	Sun	Multiband cine DENSE MRI using spiral slice-GRAPPA
P040	Traditional Poster Session 1	Oleg	Sharifov	CMR-derived left atrial volumetric and strain parameters identify low symptomatic LV diastolic dysfunction in patients with preserved LV ejection fraction, regardless of LV filling pressure at rest.
P041	Traditional Poster Session 1	Keigo	Kawaji	Detection of Regional Wall Motion Changes that precedes Wall Thickening using Strain-Encoded (SENC) CMR with Intermediate-dose Dobutamine Stress
P042	Traditional Poster Session 1	Fredrika	Frojdh	Understanding the geometric basis for global longitudinal strain – a simple recipe for a comprehensive and composite measure
P043	Traditional Poster Session 1	Ulf	Neisius	CMR Strain Analysis discriminates between Hypertensive Heart Disease and Hypertrophic Cardiomyopathy

P044	Traditional Poster Session 1	Weihao	Li	LV geometry and its relationship with mechanics in healthy population
P045	Traditional Poster Session 1	Alexander	Ruh	Myocardial Tissue Abnormalities in Patients during the First Year after Heart Transplantation are Associated with Altered LV and RV function
P046	Traditional Poster Session 1	Xiaoying	Cai	Free-breathing cine DENSE imaging by adaptively diminishing the residual T1-echo energy: evaluation in healthy subjects
P046	Traditional Poster Session 1	Sohil	Dharia	Determinants of Left Ventricular Diastolic Myocardial Function in the Normal Heart
P048	Traditional Poster Session 1	Julia	Vietheer	Correlation of global left ventricular strain and T1-mapping in health and disease – a cardiac resonance imaging study
P049	Traditional Poster Session 1	Claudia	Unbehaun	CMR-derived strain data from a tertiary care center registry: Left ventricular strain values in healthy and diseased myocardium
P050	Traditional Poster Session 1	Tomas	Lapinskas	Difference in left ventricular global and regional myocardial deformation assessed using two-dimensional and three-dimensional CMR feature tracking in patients with hypertrophic cardiomyopathy
P051	Traditional Poster Session 1	James	Nguyen	The Close Association of Left ventricular Diastolic Dysfunction and Left Atrial Dysfunction
P052	Traditional Poster Session 1	Peter	Bernhardt	Myocardial involvement and deformation abnormalities in idiopathic inflammatory myopathy
P053	Traditional Poster Session 1	Tino	Ebbers	The effect of dobutamine on left ventricular function
P054	Traditional Poster Session 1	Valeria	Marchese	Right ventricular mechanics analysis. Comparison of three non-invasive methods: 2D, 3D speckle tracking and feature tracking magnetic resonance.
P055	Traditional Poster Session 1	Muhammad	Rifqi AUFAN	Measurement of Left Ventricle Shear Modulus Using Tagged Cine CMR: Static Approach
P056	Traditional Poster Session 1	Yue	Zhang	A novel MRI-based finite element modelling method for the prediction of the effect of ischemia on myocardium
P057	Traditional Poster Session 1	Jie	Wang	Effect of obesity on left atrial phasic function and strain in patients with hypertrophic cardiomyopathy: a cardiac magnetic resonance study
P058	Traditional Poster Session 1	Valeria	Marchese	Left ventricular mechanics analysis. Comparison of three non-invasive methods: 2D and 3D speckle tracking and feature tracking magnetic resonance.

P059	Traditional Poster Session 1	Valeria	Marchese	Left atrial mechanics analysis by means 2D speckle tracking and feature tracking cardiac magnetic resonance.
P060	Traditional Poster Session 1	Marco	Guglielmo	Left ventricle volumes and function assessment with CRM 4D FLOW imaging
P061	Traditional Poster Session 1	Jonathan	Berg	Atrioventricular plane displacement is an earlier marker for prognosis than symptoms in patients with heart failure
P062	Traditional Poster Session 1	Anna	Szekely	Normal values of atrioventricular plane displacement in healthy subjects
P063	Traditional Poster Session 1	Andrew	Apps	Myocardial pH and Pi In healthy volunteers remain stable during moderate catecholamine stress; a 7T 31P Spectroscopy study.
P064	Traditional Poster Session 1	William	Watson	Validation of non-invasive measurement of creatine kinase flux in human myocardium and effect of acute catecholamine stress
P065	Traditional Poster Session 1	Roshin	Mathew	CrCest Evaluation of Calf Muscle Energetics in Peripheral Artery Disease
P066	Traditional Poster Session 1	Leena	Robinson Vimala	Relation between cardiac myocyte lipid content, T1 relaxation values with glycaemic, lipid biomarkers and systolic function parameters- a pilot study in Indian population
P067	Traditional Poster Session 1	Kavitha	Yaddanapudi	Isolated Papillary Muscle Delayed Enhancement As A Cause Of Arrhythmia
P068	Traditional Poster Session 1	Jouke	Smink	On the impact of slice thickness definition and slice profile in 2D bSSFP on SNR and T1-mapping in cardiac MRI for multi-center trials
P069	Traditional Poster Session 1	Elizabeth	Hillier	CMR Demonstrates a Positive Impact of Exercise on Microvascular Function in Preterm-Born Individuals
P070	Traditional Poster Session 1	Haiyan	Ding	Two-dimensional simultaneous myocardial T1 and T1rho Mapping at 3T
P071	Traditional Poster Session 1	Pace	Johnston	Early and Serial Cardiac Magnetic Resonance Evaluation in Becker Muscular Dystrophy Reveals Occult Cardiomyopathy
TP001	Traditional Poster Session 1	Ronald	Williams	Evaluating Left Ventricular Noncompaction: Are we Doing Enough?
TP002	Traditional Poster Session 1	Corinna	Else	Planning & scanning techniques to ensure standardization and efficiency of fast strain-encoded CMR imaging
TP003	Traditional Poster Session 1	Emer	Sonnex	Disappearing delayed enhancement in myocarditis: don't believe your eyes (measure it).



TP004	Traditional Poster Session 1	Geetha	Rayarao	SPACE: Slice Position Acquired Canting Effect in CMRI and its Implications
TP005	Traditional Poster Session 1	Vanessa	Ferreira	Foreign Body on Cardiac MRI
TP006	Traditional Poster Session 1	Ricardo	Wage	Cardiovascular MR findings in an adolescent with a giant intrapericardial mass
TP007	Traditional Poster Session 1	Sakinah	Hanafi	Biventricular late gadolinium patterns in CMR Imaging- ARVC or Sarcoidosis?
TP008	Traditional Poster Session 1	Ileen	Cronin	Safety in the iCMR Environment: MRI Guided Cardiac Catheterization Evacuation Drills
TP009	Traditional Poster Session 1	Loretta	Gevenosky	CMR Effects on Pacemaker/ICD Stability; an in vivo Study
WP001	Traditional Poster Session 1	Xue	Feng	Fully automatic LV segmentation on myocardial first-pass perfusion images
WP002	Traditional Poster Session 1	El-Sayed	Ibrahim	Sub-10-minutes whole-chest free-breathing 4D flow imaging and comparison to 2D phase-contrast imaging
WP003	Traditional Poster Session 1	El-Sayed	Ibrahim	Radiation therapy cardiotoxic effects in genetically modified rats
WP004	Traditional Poster Session 1	Yan-Chi Ivy	Chan	Retrospective ECG-gated Radial 2D Cine Cardiac MRI
WP005	Traditional Poster Session 1	Jiaxin	Shao	Deep learning BLoch Equation SimulationS (DeepBLESS) for rapid myocardial relaxation parameters quantification
WP006	Traditional Poster Session 1	Srikant	Kamesh Iyer	Residual deep learning reconstruction of cine MRI in cardiomyopathy patients
WP007	Traditional Poster Session 1	Xue	Feng	A Generative Adversarial Network Experiment on Cardiac MRI: Can we fake high-resolution cine images?
WP008	Traditional Poster Session 1	Ethan	Xue	Automated Left Ventricle Detection for Arterial Input Function in Myocardial Perfusion: Training CNN on 15725 Scans
WP009	Traditional Poster Session 1	David	Zeng	Deep Residual Network for Off-Resonance Correction for Real-Time Spiral Cardiac Imaging
WP010	Traditional Poster Session 1	Kevin	Blansit	Cascaded Deep Learning Based Approach for Automated Prescription of Cardiac Long-Axis Views
WP011	Traditional Poster Session 1	Xinheng	Zhang	Computer-Aided Automatic Detection of Myocardial Scar from Native T1 Maps at 3T in Patients with Prior Myocardial Infarction

QF1-001	Traditional Poster Session 1	Luuk	Hopman	Dynamic Cardiac Magnetic Resonance Fingerprinting (cMRF) – Validation in the ISMRM/NIST System Phantom and First Application in Humans during Breathing Manoeuvres
QF1-002	Traditional Poster Session 1	ali	serhal	Use of Simultaneous, Integrated 18FDG-Positron Emission Tomography/Magnetic Resonance Imaging for Evaluation of Suspected Cardiac Sarcoidosis
QF1-003	Traditional Poster Session 1	Louise	Brown	Underlying mechanisms in heart failure and dysglycaemia
QF1-004	Traditional Poster Session 1	Olivier	Jaubert	More-mrf: motion resolved cardiac multi parametric mapping using fingerprinting
QF1-005	Traditional Poster Session 1	Ingo	Hermann	Flow dependency of blood T1 measurements assessed in a perfusion phantom and in vivo
QF1-006	Traditional Poster Session 1	Elizabeth	Jenista	Optimization of magnetization preparation methods for dark-blood delayed-enhancement at 3T
QF1-007	Traditional Poster Session 1	Q. Joyce	Han	Helix Angle Distribution in the Left and Right Ventricles Using Diffusion Tensor MRI
QF1-008	Traditional Poster Session 1	Matthew	Magyar-Ng	Machine Learning of 3D Myocardial Deformation Analysis from Cine MRI For Automated Diagnosis of Ischemic Versus Non-Ischemic Dilated Cardiomyopathy
QF1-009	Traditional Poster Session 1	Andrea	Guala	Evaluation of regional aortic pulse wave velocity by 4Dflow-MRI in patients with bicuspid aortic valve, Marfan syndrome and degenerative aneurysms
QF1-010	Traditional Poster Session 1	Soultana	Kourtidou	mDixon ECG-gated 3-dimensional magnetic resonance angiography in patients with congenital cardiovascular disease
QF1-011	Traditional Poster Session 1	Christopher	Saunderson	Assessment of acute haemodynamic effects of forced right ventricular pacing by cardiovascular magnetic resonance in patients with and without ischaemic left ventricular scar.
QF1-012	Traditional Poster Session 1	Xue	Feng	Towards fully automatic imaging biomarker quantifications from multi-contrast MRI of hypertrophic cardiomyopathy
P072	Traditional Poster Session 2	Zohya	Khalique	The impact of haematocrit and T1 variability on the calculation of extracellular volume
P073	Traditional Poster Session 2	Jean-Sébastien	Louis	Pixel-wise quantitative permeability analysis of myocardial tissue in patients with mitral prolapse: a preliminary study
P074	Traditional Poster Session 2	Kristopher	Knott	Myocardial perfusion falls early and tracks disease severity in Fabry disease

P075	Traditional Poster Session 2	Xiaoyue	Zhou	Estimation of Global and Regional Left Ventricular Deformation in Patients with Connective Tissue Diseases Evaluated by Cardiac Magnetic Resonance Tissue Tracking: Relation to Myocardial Injury
P076	Traditional Poster Session 2	Emmanuelle	Vermes	Global and Segmental T2 and T1-mapping Analysis in Takotsubo cardiomyopathy
P077	Traditional Poster Session 2	Baiyan	Zhuang	Early Detection of Myocardial Fibrosis by CMR Extracellular Volume Fraction Quantitation in a Hypertensive Swine Model
P078	Traditional Poster Session 2	Karina	Lopez	Quantitative Magnetization Transfer Mapping using multiple MT preparations and dictionary matching for the characterization of human myocardial tissue in-vivo
P079	Traditional Poster Session 2	Li	Huang	Characterization of shortened inversion recovery based MOLLI schemes
P080	Traditional Poster Session 2	Ulf	Neisius	Non-Contrast Scar Assessment using Radiomics: Texture Analysis of native T1 images in Hypertrophic Cardiomyopathy
P081	Traditional Poster Session 2	Alessia	Pepe	Detection of myocardial iron overload with magnetic resonance by native T1 and T2* mapping using a segmental approach
P082	Traditional Poster Session 2	Julia	Vietheer	Differentiating cardiac sarcoidosis from viral myocarditis by quantifying ECV and T2-mapping in subepicardial scars
P083	Traditional Poster Session 2	Julia	Vietheer	ECV and longitudinal strain are reduced in symptomless patients after cardiac allograft transplant with normal ejection fraction compared to healthy controls and volunteers
P084	Traditional Poster Session 2	Brittany	Hsu	Cardiac manifestations of sarcoidosis in world trade center-exposed firefighters
P085	Traditional Poster Session 2	Giovanna	Nordio	3D myocardial T1 mapping combined with a 2D fat image navigator
P086	Traditional Poster Session 2	Ali	Agha	A Novel Cardiac Magnetic Resonance-Based Biomarker (T2/ECV) May Predict outcomes in patients at risk for cardiac AL amyloidosis.
P087	Traditional Poster Session 2	Enver	Tahir	Prevalence, Localization and Extent of Myocardial Fibrosis in Competitive Triathletes Detected By Late Gadolinium Enhancement
P088	Traditional Poster Session 2	Shuai	Liu	Myocardial Tissue Characterization of Asymptomatic Alcoholic Cardiomyopathy by CMR

P089	Traditional Poster Session 2	Dominik	Buckert	A Comprehensive Cardiac Magnetic Resonance Protocol Identifies Subtle Abnormalities in a Large Cohort of Patients with Spinal and Bulbar Muscular Atrophy
P090	Traditional Poster Session 2	Yuchi	Han	Prognostic value of non-contrast tissue mapping parameters by cardiovascular magnetic resonance imaging in patients with pulmonary hypertension
P091	Traditional Poster Session 2	Weihao	Li	LV geometry and myocardial fibrosis in non-ischemic dilated cardiomyopathy: explore the correlation
P092	Traditional Poster Session 2	Giorgia	Milotta	Towards 3D whole-heart high-resolution joint T1-T2 mapping
P093	Traditional Poster Session 2	Jiixin	Shao	Simultaneous myocardial T1 and T2 mapping using a radial sequence with inversion recovery and T2 preparation
P094	Traditional Poster Session 2	Yaodan	Liang	Left ventricular spherical index is a stronger predictor for clinical outcomes than extracellular volume in patients with non-ischemic dilated cardiomyopathy
P095	Traditional Poster Session 2	Nivedita	Naresh	Cardiac MR Native T1 and Tissue Phase Mapping Detects Myocardial Changes Prior to Reduced Ejection Fraction or Apoptosis in a Mouse Model of Chemotherapy-Induced Cardiotoxicity
P096	Traditional Poster Session 2	Maxim	Avanesov	Evaluation of CMR feature tracking systolic left ventricular myocardial strain in patients with Fabry disease with regard to left ventricular hypertrophy and native septal T1 mapping
P097	Traditional Poster Session 2	Simon	Lee	Acute Chest Pain and Troponin Leak in Duchenne Muscular Dystrophy: Comparison with Acute Myocarditis Using Parametric Mapping.
P098	Traditional Poster Session 2	Xiaoyue	Zhou	Cardiac magnetic resonance feature tracking for quantifying right ventricular deformation in type 2 diabetes mellitus patients
P099	Traditional Poster Session 2	Han	Xiaoyu	Myocardial T1 and T2 Mapping and Tissue-tracking Strain Analysis in Hemodialysis Patients with Preserved Ejection Fraction by Cardiac Magnetic Resonance Imaging
P100	Traditional Poster Session 2	Jia	Liu	Quantification of myocardial deformation in patients with isolated left ventricular non-compaction based on a cardiovascular magnetic resonance deformable registration algorithm: a preliminary study
P101	Traditional Poster Session 2	James	Every	Advanced Electrocardiography predicts cardiac involvement in Fabry Disease as determined by native T1 mapping

P102	Traditional Poster Session 2	Ricardo	Gonzales	Quantifying left atrial extracellular volume fraction: a pilot study
P103	Traditional Poster Session 2	Leonora	Zange	Myocardial edema in patients with liver cirrhosis
P104	Traditional Poster Session 2	Lian-Ming	Wu	Intravoxel Incoherent Motion Diffusion-Weighted imaging for assessment of myocardial fibrosis in Hypertrophic Cardiomyopathy
P105	Traditional Poster Session 2	Ezequiel	Espinosa	The length of posterior mitral valve leaflet distinguishes hypertrophic cardiomyopathy from Fabry disease: a validation study
P106	Traditional Poster Session 2	Andrew	Patterson	MR Fingerprinting for Quantification Of Myocardial T1 and T2 in a Cohort Of Dilated Cardiomyopathy Patients.
P107	Traditional Poster Session 2	Tarek	Alsaied	Left Atrial Dysfunction in Sickle Cell Anemia is Associated with Increased Right Ventricular Pressure and Ventricular Extracellular Volume and Reduced Exercise Capacity
P108	Traditional Poster Session 2	Jihye	Jang	Measurement Reproducibility of Slice-Interleaved T1 and T2 Mapping Sequences over 20 Months: A Single Center Study
P109	Traditional Poster Session 2	Meng-ting	Shen	The biventricular deformation in arrhythmogenic right ventricular cardiomyopathy: a cardiovascular magnetic resonance feature tracking study.
P110	Traditional Poster Session 2	Felix	Hahn	Can T2 Mapping quantify immunohistochemically established myocardial inflammation in DCM?
P111	Traditional Poster Session 2	Emmanuelle	Vermes	Diagnostic Performance of Global and Segmental T2, native T1 and ECV Mapping in Patients with Clinical Acute Myocarditis
P112	Traditional Poster Session 2	Juliet	Varghese	Feasibility of Myocardial T1, T2 and T2* Mapping at 0.35T and Comparison to 1.5T and 3T
P113	Traditional Poster Session 2	Claudia	Unbehaun	Native Myocardial T1 relaxation time: heart rate dependency in health and disease
P114	Traditional Poster Session 2	Jennifer	Jordan	CMR-Derived Left Ventricular Extracellular and Cardiomyocyte Volume Expand while Ejection Fraction Declines after the Receipt of Doxorubicin in a Fashion Similar to Adjuvant Treatment of Breast Cancer
P115	Traditional Poster Session 2	Hadil	Saad	Evaluate The Diffuse Myocardial Fibrosis in HIV Infected Persons by Cardiovascular Magnetic Resonance

P116	Traditional Poster Session 2	Abbas	Moghaddam	Fast T2 estimation of heart using MOLLI dataset and a balanced-SSFP image
P117	Traditional Poster Session 2	Brianna	Moon	Magnetic susceptibility imaging of myocardial infarction reperfusion injury
P118	Traditional Poster Session 2	Nikhil	Erabelli	MRI-Based Cardiac Extracellular Volume Image Quality Scoring
P119	Traditional Poster Session 2	Alessia	Pepe	Myocardial T2 mapping in healthy subjects by a segmental approach
P120	Traditional Poster Session 2	Alessia	Pepe	Native T1 values in healthy subjects by a segmental approach
P121	Traditional Poster Session 2	Kristopher	Knott	Optimising T1 mapping for thin-walled hearts – a systolic approach using SAPHIRE adds value
P122	Traditional Poster Session 2	Jie	Wang	The values of cardiovascular magnetic resonance imaging in Identification of rare diseases mimicking Hypertrophic Cardiomyopathy Phenotype
P123	Traditional Poster Session 2	Patrycja	Galazka	Prevalence of Myocardial Tissue Edema in Hypertrophic Cardiomyopathy Patients with T2 Mapping
P124	Traditional Poster Session 2	Hang	Fu	Cardiac function, severity and prognosis in dilated cardiomyopathy evaluated by myocardial strain based on magnetic resonance cine imaging
P125	Traditional Poster Session 2	Maren	Maanja	The electrical determinants of increased wall thickness and mass in left ventricular hypertrophy
P126	Traditional Poster Session 2	Alessia	Pepe	Genotypic Groups as Risk Factor for Cardiac MR Abnormalities and Complications in Thalassemia Major
P127	Traditional Poster Session 2	Magnus	Lundin	Mean wall thickness improves characterization and prognosis in left ventricular hypertrophy
P128	Traditional Poster Session 2	Kenneth	Bilchick	Differences in Mechanical Activation with DENSE Strain Imaging in Patients Undergoing CRT Upgrades Versus De Novo CRT Implants
P129	Traditional Poster Session 2	Patrick	Behm	Role of left atrial strain in the prediction of AF recurrence after pulmonary vein isolation
P130	Traditional Poster Session 2	Elizabeth	Hillier	The Role of Chronic Cardiovascular Dysfunction and an Impaired Myocardial Oxygenation Reserve in the Development of Cognitive Decline in Heart Failure Patients
P131	Traditional Poster Session 2	Lingyu	Xu	Interval cardiac remodeling on serial cardiac magnetic resonance imaging predicts outcome for patients with heart failure

P132	Traditional Poster Session 2	Tilman	Emrich	Prognostic Implications of Myocardial Strain Parameters in Suspected MINOCA
P133	Traditional Poster Session 2	Jennifer	Jordan	Exercise Capacity is Reduced in Cancer Survivors Previously Treated with Anthracycline-Based Chemotherapy Despite a Preserved Cardiac Output Response
P134	Traditional Poster Session 2	Alessia	Pepe	Impact of a ten-year national Italian networking on cardiac iron and complications in patients with thalassemia major
P135	Traditional Poster Session 2	Hui	Liu	Using Machine Learning to Predict Cardiovascular Events in Severe Dilated Cardiomyopathy Patients
P136	Traditional Poster Session 2	Pragnan	Kancharla	Cardioprotection in Patients with Breast Cancer Undergoing Chemotherapy by Cardiac Magnetic Resonance Imaging - Network Meta-analysis of Randomized Clinical Trials
P137	Traditional Poster Session 2	Björn	Östenson	Left Ventricular Longitudinal and Septal Contribution to Stroke Volume as Predictive Factors for Response to Cardiac Resynchronization Therapy
P138	Traditional Poster Session 2	Margaret	Samyn	Are Pacemakers Altered by Magnetic Resonance Imaging
P139	Traditional Poster Session 2	Chong	Chen	High resolution exercise stress real-time cine imaging
P140	Traditional Poster Session 2	Teresa	Correia	Simultaneous 3D Whole-heart High-resolution Black-blood LGE and Coronary Angiography Imaging
P141	Traditional Poster Session 2	Menhel	Kinno	Wideband late Gadolinium Enhanced MRI in Patients with an ICD: A Comparison between Single-Shot Free-Breathing versus Segmented Breath-Holding Techniques.
P142	Traditional Poster Session 2	Yu	Li	Reconstruction from Sweep-frequency Measurements with Acquisition-sensitivity Constraints (SMAC) for High-resolution Real-time Cardiac MRI
P143	Traditional Poster Session 2	Hassan	Haji-valizadeh	Rapid, Real-Time, Phase-Contrast MRI using Compressed Sensing Reconstruction with Split High- and Low-Spatial Frequency Fidelity Terms: A Feasibility Study in Pediatric Patients
P144	Traditional Poster Session 2	Chenxi	Hu	High-resolution single-breath-hold cardiac T2 mapping based on SUPER-SENSE-PCA
P145	Traditional Poster Session 2	Suzan	Hatipoglu	Reliability of pediatric ventricular function analysis by short axis 'single-cycle-stack-advance' single-shot compressed sensing cines in minimal breath hold time

P146	Traditional Poster Session 2	Blaz	Gersak	Predicting the severity of subclinical chemotherapy-induced cardiotoxicity using Fast-SENC segmental myocardial strain — An interim report (NCT03543228)
P147	Traditional Poster Session 2	Anthony	Christodoulou	In utero 4D CMR with Low-rank Imaging and Compressed Sensing
P148	Traditional Poster Session 2	Gabriela	Liberato	Cine CMR using the no-training-scan k-t method for fast acquisition of LV volumes, function and mass
P149	Traditional Poster Session 2	Sebastian	Rosenzweig	Model-based myocardial T1 mapping with sparsity constraints using single-shot inversion-recovery radial FLASH
P150	Traditional Poster Session 2	Tilman	Emrich	Compressed Sensing 4D Flow ready for prime time? Initial experience in 20 healthy volunteers
P151	Traditional Poster Session 2	AbdulHaseeb	Ahmed	Navigator-less Spiral STORM for Free breathing and Ungated Cardiac CINE MRI
P152	Traditional Poster Session 2	Suvai	Gunasekaran	Accelerated real-time phase-contrast MRI using radial k-space sampling and compressed sensing for imaging the left atrial and mitral valvular flow: inter-scan reproducibility analysis
P153	Traditional Poster Session 2	Frank	Kober	Tuning Blipped CAIPIRINHA for simultaneous multi-slice single-shot balanced SSFP imaging
P154	Traditional Poster Session 2	Jennifer	Steeden	A soft plus hard temporally constrained reconstruction for accelerated non-Cartesian CINE MRI
P155	Traditional Poster Session 2	Alessia	Pepe	T2* mapping by segmental approach using deep learning
P156	Traditional Poster Session 2	Rui	Li	Automatic Segmentation of Carotid Vessel Wall in Multi-Contrast Blackblood Images using Deep Learning
P157	Traditional Poster Session 2	Neha	Goyal	Fully Automated Dynamic Measurement of Left Ventricular Volumes for Quantification of Ejection and Filling Parameters
P158	Traditional Poster Session 2	Cody	Wu	Machine trumps humans in quality assurance for cardiac T1-maps: insights from a novel deep learning convolutional neural network
P159	Traditional Poster Session 2	Juerg	Schwitter	A novel clustering approach applied to T1 mapping time series to identify microvascular obstruction in patients with sub-acute ST-elevation myocardial infarction
P160	Traditional Poster Session 2	Alireza	Sojoudi	Automatic LAX Chamber Segmentation: Results from Circle Cardiovascular Imaging on UK Biobank Cardiac MR CINE Images



P161	Traditional Poster Session 2	Leili	Riazy	Variability of T1 Maps as an Indicator for Acute Infarction
P162	Traditional Poster Session 2	Alireza	Sojoudi	CMR Auto Series Classification from Image Content Using Deep Neural Networks
P163	Traditional Poster Session 2	Edyta	Blaszczyk	Progression of myocardial injury in different types of muscular dystrophy - a CMR-Follow-up study
QF2-001	Traditional Poster Session 2	Dayna	Zimmerman	Non-invasive wave intensity analysis by phase-contrast MRI correlates with mean pulmonary artery pressure before and after nitric oxide testing in children with pulmonary arterial hypertension
QF2-002	Traditional Poster Session 2	Daniel	Kim	T2* Decay and Noise are Major Sources of Error for Quantification of AIF in Standard First-Pass Myocardial Perfusion MRI: A Theoretical Analysis in Comparison with Dual-Bolus and Dual-Imaging Methods
QF2-003	Traditional Poster Session 2	Q. Joyce	Han	The Effect of Noise Over Rotation Tangent Calculations Based on Diffusion Tensor Imaging
QF2-004	Traditional Poster Session 2	Yang	Yang	Optimization of 3T ultra-high resolution first-pass spiral perfusion imaging
QF2-005	Traditional Poster Session 2	Yudai	Suzuki	A Deep-Neural-Network-based Signal Invariance Approach to overcome Unresolved Cardiac MR artifacts exhibited in Training Data
QF2-006	Traditional Poster Session 2	Nemanja	Masala	Fat suppression in 3D bSSFP coronary MRA using lipid-insensitive binomial off-resonant RF excitation (LIBRE) pulses
QF2-007	Traditional Poster Session 2	Kevin	Moulin	Trigger Delay Scout Sequence for Multi-phase Cardiac Diffusion Tensor Imaging
QF2-008	Traditional Poster Session 2	Andrew	Scott	A T2* correction for high resolution in-vivo spiral diffusion tensor cardiovascular magnetic resonance
QF2-009	Traditional Poster Session 2	Tino	Ebbers	Reproducibility of non-invasive, load-independent measures of left ventricular function derived from 4D Flow CMR
QF2-010	Traditional Poster Session 2	Christopher	Nguyen	Sub-millimeter in-plane Diffusion Tensor Cardiac Magnetic Resonance (DT-CMR) of the Human Heart in vivo with a Cardiac 64-Channel Phased Array Coil
QF2-011	Traditional Poster Session 2	Ulf	Neisius	Differential Diagnosis of LV hypertrophy via Texture Analysis of Native T1 mapping
QF2-012	Traditional Poster Session 2	Yijen	Wu	In silico Evaluation of Ventricular Structure and Function in Dextrocardia and Heterotaxy
P164	Traditional Poster Session 3	Asmaa	Elsayed Ahmed	Cardiac magnetic resonance imaging explain right to left shunt in absence of pulmonary vascular disease.

P165	Traditional Poster Session 3	Kristin	Schneider	Non-contrast enhanced MRA sequence changes surgical plan for double aortic arch patient with CTA that suspected co-dominant arches
P166	Traditional Poster Session 3	Surendranath R.	Veeram Reddy	Fontan Fenestration Test Occlusion Evaluation in the iCMR Suite
P167	Traditional Poster Session 3	Jennifer	Cohen	Pulmonary vasoreactivity assessment using phase-contrast imaging in a ten-year-old with unrepaired truncus arteriosus.
P168	Traditional Poster Session 3	Deborah	Ho	The long and winding road: a case of a serpentine total anomalous pulmonary venous confluence
P169	Traditional Poster Session 3	Carlijne	Hassing	Isolated Left Ventricular Apical Hypoplasia: 10 year Follow-Up by Cardiovascular Magnetic Resonance Imaging
P170	Traditional Poster Session 3	Shafkat	Anwar	3D printing of complex congenital heart disease with different MRA techniques; life goes on after Ablavar
P171	Traditional Poster Session 3	Lerraughn	Morgan	Giant Cell Myocarditis in a Pediatric Patient
P172	Traditional Poster Session 3	Mehul	Patel	Ventricular-ventricular interactions in long-term follow-up after the Ross procedure in a pediatric population
P173	Traditional Poster Session 3	Heynric	Grotenhuis	Validation of aortic valve 4D flow analysis and myocardial deformation by CMR in patients after the arterial switch operation
P174	Traditional Poster Session 3	Nazire	Ozcelik	Accuracy of real time binning (RT binning) cine images in assessment of ventricular function and mass compared to standard steady state free precession (SSFP) cine images in children and young adults.
P175	Traditional Poster Session 3	Jason	Mandell	Aortic arch size following repair of aortic coarctation is predictive of exercise capacity
P176	Traditional Poster Session 3	Steve	Muyskens	Beyond Magnetic Resonance Angiography in Anomalous Aortic Origin of the Coronary Arteries: Additive Value of Late Gadolinium Enhancement
P177	Traditional Poster Session 3	Anneloes	Munneke	The impact of ventricular morphology on systolic strain in patients with a single ventricle
P178	Traditional Poster Session 3	Sophie	Meyer	CMR feature tracking indicates early worsening of cardiac function in Fontan patients
P179	Traditional Poster Session 3	Ranjini	Srinivasan	Aortic and Vertebral Artery Tortuosity in Turner Syndrome

P180	Traditional Poster Session 3	Vivian	Kamphuis	VO2 max relates to Dobutamine-stress increased intracardiac 4D Flow CMR-derived energetics and vorticity in Fontan patients
P181	Traditional Poster Session 3	Lajja	Desai	Pediatric 4D flow characteristics and outcomes associated with aortic coarctation and bicuspid aortic valve
P182	Traditional Poster Session 3	Valeria	Duarte	Right ventricular dilation and dysfunction in patients with repaired tetralogy of Fallot are associated with decreased exercise capacity
P183	Traditional Poster Session 3	Jonathan	Soslow	Cardiac MRI Measures of Diastolic Dysfunction in Patients with Duchenne Muscular Dystrophy Correlate with Measures of Extracellular Matrix Expansion
P184	Traditional Poster Session 3	Ryo	Takahashi	Respiratory self-navigated whole-heart magnetic resonance angiography for the assessment of coronary arteries in children with Kawasaki disease.
P185	Traditional Poster Session 3	Jos	Westenberg	Age of aortic coarctation correction correlates with aortic vessel wall stiffening: evaluation of wall shear stress and pulse wave velocity.
P186	Traditional Poster Session 3	Jennifer	Cohen	Aortic root volume by cardiac magnetic resonance imaging has excellent interobserver agreement compared to traditional aortic root measurements
P187	Traditional Poster Session 3	Sruti	Rao	Correlation of cardiac MRI measurements with balloon sizing on cardiac catheterization prior to percutaneous pulmonary valve implantation
P188	Traditional Poster Session 3	Michael	Steinmetz	Impaired exercise tolerance after repair of Tetralogy of Fallot – insights from real time cardiovascular magnetic resonance imaging.
P189	Traditional Poster Session 3	Nadya	Al-Wakeel-Marquard	Diffuse myocardial fibrosis from cardiovascular magnetic resonance T1 mapping is related to volume overload and subaortic position of the right ventricle in congenital heart disease
P190	Traditional Poster Session 3	Joshua	Chew	Normalized native T1 times: a novel marker of hypertrophic cardiomyopathy
P191	Traditional Poster Session 3	Frank	Raucci	Longitudinal Assessment of Myocardial Fibrosis in Duchenne Muscular Dystrophy Patients Using Non-Contrast Cardiac MRI Sequences
P192	Traditional Poster Session 3	Akio	Inage	Consideration of optimal timing for pulmonary valve replacement in asymptomatic repaired tetralogy of Fallot using feature tracking magnetic resonance

P193	Traditional Poster Session 3	Richard	Friesen	Arterial switch operation results in increased aortic stiffness but preserves main pulmonary arterial compliance
P194	Traditional Poster Session 3	Tam	Doan	Myocardial Stress Perfusion MRI: Experience in Pediatric Patients With Kawasaki Disease And Coronary Artery Involvement Utilizing Regadenoson
P195	Traditional Poster Session 3	Amol	Moray	Cardiac magnetic resonance parameters associated with surgery in a pediatric and young adult population with chronic aortic regurgitation
P196	Traditional Poster Session 3	Johannes	Steinweg	High resolution 3D volumetric non-contrast non-sedation cardiac magnetic resonance imaging in newborns with congenital heart disease
P197	Traditional Poster Session 3	Christopher	Francois	Acute and Chronic Responses to Pulmonary Artery Stenosis Stenting
P198	Traditional Poster Session 3	Richard	Friesen	Ventricular vascular coupling is associated with decreased exercise capacity in repaired tetralogy of Fallot
P199	Traditional Poster Session 3	J.	Wilkinson	Myocardial stress perfusion magnetic resonance: weight-based approach in patients less than 40 kg using regadenoson
P200	Traditional Poster Session 3	Riad	Abou Zahr	Atrial function and volumes using the 3D dual-phase whole-heart approach
P201	Traditional Poster Session 3	Manoj	Parimi	Comparison of contrast-enhanced 3D whole heart imaging in a pediatric population: ferumoxytol versus gadofosveset
P202	Traditional Poster Session 3	Kiera	Pajunen	Cardiac Magnetic Resonance assessment of aortopathy in pediatric Turner syndrome
P203	Traditional Poster Session 3	Christopher	Francois	Elevated troponin I is associated with myocardial late gadolinium enhancement but not cardiac function in patients with Duchenne muscular dystrophy
P204	Traditional Poster Session 3	Christopher	Francois	Repaired Tetralogy of Fallot: Sex-Specific Differences in Right and Left Ventricular Dimensions and Function
P205	Traditional Poster Session 3	Sujatha	Buddhe	3D Models Improve Understanding of Congenital Heart Disease
P206	Traditional Poster Session 3	El-Sayed	Ibrahim	CMR strain analysis for assessment of regional cardiac function in tetralogy of Fallot. Comparison of techniques
P207	Traditional Poster Session 3	Richard	Friesen	Mechanics of impaired left atrial function in children with repaired tetralogy of Fallot
P208	Traditional Poster Session 3	Jawad	Najdawi	Agreement of two 3D Echocardiography based Methods of Right Ventricular Assessment with Cardiac Magnetic Resonance in Repaired Tetralogy of Fallot

P209	Traditional Poster Session 3	Emily	Yang	Is biventricular vascular coupling a better indicator of ventriculo-ventricular interaction in congenital heart disease?
P210	Traditional Poster Session 3	Vasu	Gooty	The use of Real-time cine imaging to predict the presence of retrosternal adhesions prior to redo-sternotomy
P211	Traditional Poster Session 3	LiWei	Hu	Flow component analysis in young patients with functional single ventricle - A pilot study with 4D Flow CMR
P212	Traditional Poster Session 3	Pia	Sjöberg	Changes in left and right ventricular longitudinal function after pulmonary valve replacement in patients with Tetralogy of Fallot
P213	Traditional Poster Session 3	Natalie	Behrle	Applying Cardiac MR to Develop a Patient-Specific 3D model of the Right Ventricle to Pulmonary Artery Conduit for In-Vitro Simulation
P214	Traditional Poster Session 3	Gauri	Karur	Right ventricular diffuse myocardial fibrosis after repair of tetralogy of Fallot is progressive
P215	Traditional Poster Session 3	Jyothsna	Akam Venkata	Ventricular-Arterial Coupling in Repaired Tetralogy of Fallot
P216	Traditional Poster Session 3	Keisuke	Sato	Novel positioning technique with 3D images for direct en face velocity-encoded phase-contrast cine CMR imaging of atrial septal defects: reduction of positioning steps but retention of validity
P217	Traditional Poster Session 3	Arpit	Agarwal	Persistence of late Gadolinium enhancement on follow-up Cardiac Magnetic Resonance imaging in children with acute Myocarditis
P218	Traditional Poster Session 3	Ryo	Ogawa	Compressed sensing coronary magnetic resonance angiography: comparison with conventional coronary magnetic resonance angiography
P219	Traditional Poster Session 3	Kai-yue	Diao	Segmental Strain Analysis on Cardiovascular Magnetic Resonance (CMR) for Diagnosis of Intramyocardial Hemorrhage and Predicting Iron Load on Myocardial Infarction Patients
P220	Traditional Poster Session 3	James	Goldfarb	Cardiac MRI Practice in the US: An Analysis of 2012-2016 Medicare Provider Utilization and Payment Data
P221	Traditional Poster Session 3	Katia	Menacho Medina	Precision of left ventricular ejection fraction measurement: comparison between 2D and 3D Echocardiography, Nuclear Imaging and Cardiovascular Magnetic Resonance
P222	Traditional Poster Session 3	Liliana	Ma	Inter-scan reproducibility analysis of a novel 4D flow workflow for improved assessment of left atrial hemodynamics

P223	Traditional Poster Session 3	Alessio	Alogna	Non-invasive evaluation of blood oxygen saturation in the heart using blood-oxygen-level-dependent T2 magnetic resonance imaging in a porcine model of acute systemic hyper- and hypoxemia.
P224	Traditional Poster Session 3	Tino	Ebbers	Comparison of respiratory gated k-space segmented spoiled gradient echo (SGRE) and echo planar imaging (EPI) based 4D Flow CMR
P225	Traditional Poster Session 3	Joao	Ramos	Estimation of mean pulmonary arterial pressure from vortex duration assessed by 4D Flow analysis - comparison with tricuspid regurgitant jet velocity from Doppler echocardiography
P226	Traditional Poster Session 3	Savine	Minderhoud	The Impact of Background Phase Offset Errors in Cardiovascular Magnetic Resonance Phase Contrast Imaging in Daily Clinical Practice: a Multi-Scanner Study
P227	Traditional Poster Session 3	Lindsey	Crowe	Internal validation of MRI flow quantification and correlation to Fick and thermodilution catheterization-derived cardiac output
P228	Traditional Poster Session 3	Stephen	Jermy	A comparative study of MOLLI and SHMOLLI T1 mapping at 3T in healthy controls
P229	Traditional Poster Session 3	Aaron	Soufer	Quantitative analysis of T2 imaging may identify global edema in patients referred for immune checkpoint inhibitor cardiomyopathy
P230	Traditional Poster Session 3	Katarina	Steding-Ehrenborg	Conditions for hydraulic force as a novel measure of diastolic function in healthy subjects, athletes and patients with heart failure with preserved ejection fraction
P231	Traditional Poster Session 3	Jonathan	Edlund	Real-time phase-contrast CMR for cardiac output measurements in athletes and patients
P232	Traditional Poster Session 3	Ulf	Radunski	CMR for the assessment of cardiac function and volumes before and after implantation of a transjugular intrahepatic portosystemic shunt in patients with liver cirrhosis
P233	Traditional Poster Session 3	Prabhakaran	Gopalakrishnan	What Else Can We Image in the MRI Scanner? Should We Advance (the Field) Beyond Pacemakers and ICD's
P234	Traditional Poster Session 3	Ethan	Johnson	Comparison of a Wearable ECG/Accelerometer Signal to CMR-based Cardiac Function, Motion and 4D Flow Measurements
P235	Traditional Poster Session 3	Jessica	Martinez	Cardiac MRI Exams with Very Low SAR (0.1 W/kg) for Patients with Active Implantable Medical Devices
P236	Traditional Poster Session 3	Shreya	Ramachandran	Investigation of Rosette Trajectories for Motion-Robust Cardiac MRI

P237	Traditional Poster Session 3	Mariam	Al-Mashat	Increased pulmonary blood volume variation in patients with heart failure compared to healthy controls; a non-invasive, quantitative measure of heart failure
P238	Traditional Poster Session 3	Juliet	Varghese	Cine and flow imaging at 0.35 T and Comparison to 3T
P239	Traditional Poster Session 3	Iulia	Popescu	Clustered structuring for standardization of MOLLI-based myocardial T1-mapping across variants with divergent norms
P240	Traditional Poster Session 3	Sowmya	Balasubramanian	Representation of Women in the JCMR Editorial Board
P241	Traditional Poster Session 3	Larry	Kasuboski	A Method for Producing Cardiac Gated Dark Blood uTE Images
P242	Traditional Poster Session 3	Erik	Hedstrom	Mitral and tricuspid atrioventricular plane displacement measurements by cardiac magnetic resonance and M-mode echocardiography are reproducible but cannot be used interchangeably
P243	Traditional Poster Session 3	Robert	Biederman	Myocardial Cell Tension Drives Population Distribution in Sickness and in Health
P244	Traditional Poster Session 3	El-Sayed	Ibrahim	Optimization of high-field CMR for cardiac function assessment
P245	Traditional Poster Session 3	Ricardo	Gonzales	Isovolumic relaxation time measured by Cardiovascular Magnetic Resonance: a pilot study
P246	Traditional Poster Session 3	Natalie	Tapaskar	Is Abnormal Global Longitudinal Strain Associated with the Presence of Late Gadolinium Enhancement: A Comparison of Strain Encoded Cardiac Magnetic Resonance and 2-Dimensional Echocardiography
P247	Traditional Poster Session 3	Alessia	Pepe	CMR has an additive role over echo in detecting cardiac involvement in systemic sclerosis
P248	Traditional Poster Session 3	Michael	Scott	Relationship between left ventricular function and aortic hemodynamics in 100 healthy age and sex stratified controls
P249	Traditional Poster Session 3	Shiqin	Yu	4D Flow MRI Quantification of Pulmonary Regurgitation in Patients with Repaired Tetralogy of Fallot: Reproducibility and Consistency Relative to Conventional 2D Flow MRI
P250	Traditional Poster Session 3	Magdalena	Zurek	Conflicting functional responses when assessing left ventricular ejection fraction (LVEF) and global longitudinal strain (GLS) in neuregulin-1 (NRG-1) treated rats with myocardial infarction

P251	Traditional Poster Session 3	Behzad	Sharif	Optimizing native T1-based detection of chronic myocardial infarctions at 3T: Influence of MOLLI flip angle on the relative T1-map contrast
P252	Traditional Poster Session 3	Prateek	Kalra	In-vivo cardiac DTI: Comparison between Motion Compensated Optimized Diffusion Encoding (MODE) and Convex Optimized Diffusion Encoding (CODE) Techniques
P253	Traditional Poster Session 3	Felicia	Seemann	CMR measurement of E and e': evaluation of implementation options
P254	Traditional Poster Session 3	Jason	Craft	Inter-operator, intra-operator and inter-analyst reproducibility of left ventricular systolic strain using SENC
P255	Traditional Poster Session 3	Michael	Gannon	A rare cause of dyspnea in a 34-year-old patient
QF3-001	Traditional Poster Session 3	Thomas	Treibel	Extracellular Volume Expansion Predicts Mortality In Aortic Stenosis
QF3-002	Traditional Poster Session 3	Lidija	McGrath	Liver Extracellular Volume Fraction (ECV) is Elevated in Patients with a Fontan Palliation: a Convenient Marker of Hepatic Fibrosis Obtained during Cardiac Scanning
QF3-003	Traditional Poster Session 3	Joao	Ramos	Comprehensive CMR diastolic dysfunction grading shows very good agreement compared to echocardiography
QF3-004	Traditional Poster Session 3	Mikael	Kanski	Increasing precision in quantification of pulmonary blood volume with CMR as a measure of congestion in heart failure.
QF3-005	Traditional Poster Session 3	Michael	Chuang	Association of Prevalent Aortic Plaque and Measures of Kidney Function
QF3-006	Traditional Poster Session 3	Jitka	Starekova	Myocardial Fibrosis in Triathletes - The Impact of Competition History
QF3-007	Traditional Poster Session 3	Peter	Bernhardt	Cost effectiveness of magnetic resonance vs. conventional guided treatment in stable coronary artery disease
QF3-008	Traditional Poster Session 3	Kenneth	Fung	Relationship of alcohol consumption with aortic distensibility in men and women from the UK Biobank
QF3-009	Traditional Poster Session 3	Katia	Menacho Medina	Myocardial involvement in treated and un-treated HIV patients: inflammation and edema revealed by CMR
QF3-010	Traditional Poster Session 3	Charlene	Mauger	Building a biventricular atlas from 4,329 CMR studies: Relationships with risk factors
QF3-011	Traditional Poster Session 3	Joseph	Pagano	Sex Influence on Native T1 and Extracellular Volume Fraction in Heart Failure



QF3-012	Traditional Poster Session 3	Jos	Rodriguez-Palomares	Assessment of proximal aorta strain as a prognostic factor in Marfan syndrome
P256	Traditional Poster Session 4	Shiro	Nakamori	CMR characterization of myocardial tissue injury in a swine model of anthracycline-induced cardiotoxicity: A histological validation
P257	Traditional Poster Session 4	Lola	Xie	Contrast Enhancement Pattern of Cardiac Neoplasm and Thrombus on Inversion Recovery CMR Parallels Quantitative Tissue Properties on T1 Mapping
P258	Traditional Poster Session 4	Juliet	Varghese	Multi-Parametric CMR Oximetry: Optimized Evaluation for Improved Accuracy and Clinical Implementation
P259	Traditional Poster Session 4	Wolfgang	Rehwald	A Novel Parameter-Matched TI Scout Sequence for Flow Independent Dark Blood Delayed Enhancement (FIDDLE) Allows Quick and Easy Determination of the Optimal Inversion Time
P260	Traditional Poster Session 4	Edyta	Blaszczyk	Myocardial strain assessed by CMR feature tracking in healthy subjects – normal values and influence of different analysis-software
P261	Traditional Poster Session 4	Robert	Edelman	Dynamic Semi-Projective MR Angiography of the Aortic Root and Left Ventricular Outflow Tract using Cine Fast Interrupted Steady-State Arterial Spin Labeling
P262	Traditional Poster Session 4	Emily	Aherne	Un-gated non-enhanced radial Quiescent Interval Slice-Selective (QISS) magnetic resonance angiography of the neck
P263	Traditional Poster Session 4	Joao	Augusto	Cleaner Myocardial Signal By Dark-Blood T1 Mapping at 1.5T and 3T
P264	Traditional Poster Session 4	Robert	Edelman	Comparison of Non-Contrast Breath-hold 2D and Free-Breathing 3D Radial MR Imaging Strategies for Pre-Procedural Evaluation of the Pulmonary Veins
P265	Traditional Poster Session 4	Haiyan	Ding	Epicardial fat detection by using dual magnetization preparations
P266	Traditional Poster Session 4	Hassan	Abbas	Fast-field cycling MR assessment of ultra-small superparamagnetic iron oxide nanoparticle uptake – the future of assessing inflammation?
P267	Traditional Poster Session 4	David	Wendell	Characterization of papillary muscle infarction by dark-blood delayed-enhancement MRI in patients with first-time MI: comparison with conventional delayed-enhancement MRI

P268	Traditional Poster Session 4	Yingxia	Yang	Quantification of Left Atrial Function in Patients with Hypertrophic Cardiomyopathy by Cardiovascular Magnetic Resonance Feature Tracking Imaging
P269	Traditional Poster Session 4	Peter	Swoboda	Feasibility of navigated exercise CMR in asymptomatic patients with severe degenerative mitral regurgitation
P270	Traditional Poster Session 4	Shams	Rashid	Real-Time Radial SSFP with 40 ms Temporal Resolution for Stress CMR
P271	Traditional Poster Session 4	Adam	Bush	Contiguous Rosette Echoes in Single Highly Accelerated Acquisition (CRENSHAA) for Rapid, Motion Resolved T2* Quantification
P272	Traditional Poster Session 4	Tomas	Lapinskas	Impact of experience and training on the variance of LV parameters estimated using fast-SENC cardiac MRI
P273	Traditional Poster Session 4	Adrián	Löffler	Is a thick heart with elevated T1 and high scar burden always cardiac amyloid?
P274	Traditional Poster Session 4	Matthew	Pfleiderer	Novel Filamin C mutation causing Arrhythmogenic Left Ventricular Cardiomyopathy
P275	Traditional Poster Session 4	Willis	Lam	'Pre' Takotsubo syndrome: CMR insights into a toxin-mediated cardiomyopathy.
P276	Traditional Poster Session 4	Elianna	Hoff	Impact of Obesity on Segmental Left Ventricular Strain Using Cardiac MRI Fast-SENC
P277	Traditional Poster Session 4	Mashaël	Alfarid	Can CMR Inform VUS Interpretation? Lessons Learnt From Lamin Heart Disease
P278	Traditional Poster Session 4	Alberto	Cipriani	Cardiac involvement in muscular dystrophies: a cardiovascular magnetic resonance analysis.
P279	Traditional Poster Session 4	Ling	Kuo	Focal Right Ventricular Strain Abnormalities on Cardiac Magnetic Resonance of Patients with Brugada Syndrome
P280	Traditional Poster Session 4	Shan	Huang	Role of cardiac magnetic resonance-based strain analysis in heart failure with preserved ejection fraction
P281	Traditional Poster Session 4	Usha	Manian	Myocardial changes following alcohol septal ablation predict future adverse cardiac events in patients with obstructive cardiomyopathy
P282	Traditional Poster Session 4	Jadranka	Stojanovska	Decreased left atrial longitudinal strain is significantly associated with cardiac amyloidosis

P283	Traditional Poster Session 4	Siri	Kunchakarra	Wideband Pulse Sequence Improves Assessment of Late Gadolinium Enhancement in patients with Non-ischemic Cardiomyopathy and Cardiovascular Implantable Electronic Devices
P284	Traditional Poster Session 4	Hui	Liu	Right ventricular deformation of light-chain amyloidosis assessing by cardiac magnetic resonance tissue tracking and its correlation with left ventricular dysfunction
P285	Traditional Poster Session 4	Carlos	Rochitte	Is left outflow tract turbulence a sign of dynamic obstruction in patients with hypertrophic cardiomyopathy?
P286	Traditional Poster Session 4	Chenxi	Hu	Multi-parametric MRI evaluation of doxorubicin-induced cardiotoxicity in a canine model
P287	Traditional Poster Session 4	Lan	Zhu	Left Ventricular Myocardial Deformation Analysis: Study of diastolic function in Chinese male population and its relationship with fat distributions
P288	Traditional Poster Session 4	Richard	Coulden	Down river from Lake Louise: a snapshot of acute myocarditis in Northern Alberta.
P290	Traditional Poster Session 4	Eveline	Calado	Risk stratification of patients with Chagas Cardiomyopathy by magnetic resonance imaging
P291	Traditional Poster Session 4	Lu	Huang	Heterogeneity of biventricular myocardial deformation in different hypertrophic cardiomyopathy subtypes: a cardiac magnetic resonance imaging study
P292	Traditional Poster Session 4	Pankaj	Gupta	Utility of cardiovascular magnetic resonance imaging in the evaluation of diastolic function, in health and disease
P293	Traditional Poster Session 4	Jan	Schneider	Association of Segmental Strain with Segmental Late Gadolinium Enhancement in patients with ACS-like Myocarditis
P294	Traditional Poster Session 4	Cibele	Lopes	CMR Guiding Ablation in Chagas Disease Patients with Sustained Ventricular Tachycardia
P295	Traditional Poster Session 4	Bhavin	Jankharia	Granulomatous cardiomyopathy and cardiac MRI - our experience and need for multimodality approach
P296	Traditional Poster Session 4	Lu	Huang	Strain assessment of biventricular interdependence in hypertrophic cardiomyopathy by CMR
P297	Traditional Poster Session 4	Mao-Yuan	Su	Extracellular volume measurement is region-dependent in normal controls and in patients with cardiovascular diseases
P298	Traditional Poster Session 4	Maria Chiara	Palumbo	Cine-CMR Quantified Aortic Strain - Validation in Relation to 4D Flow Derived Aortic Wall Shear Stress as a Marker of Global Aortic Remodeling among Patients with Thoracic Aortic Aneurysms

P299	Traditional Poster Session 4	Rahul	Rathod	Impact of Myocardial Contour Technique and T1-map Source on the Extracellular Volume Fraction Calculated from MOLLI Images
P300	Traditional Poster Session 4	Yuchi	Han	A deep dive into CMR volume and flow quantification in patients with pulmonary hypertension
P301	Traditional Poster Session 4	Xingmin	Guan	T2* based detection of localized iron deposits in hemorrhagic myocardial infarction: impact of dark-blood preparation on image contrast
P302	Traditional Poster Session 4	Daniel	Auger	Fully automatic cine DENSE strain analysis using an improved phase unwrapping algorithm based on phase predictions and region growing
P303	Traditional Poster Session 4	Bianca	Freytag	Model-based interpretation of cardiac diffusion weighted magnetic resonance imaging - a robust interpolation scheme for myocardial microstructure
P304	Traditional Poster Session 4	Bernd	Wintersperger	Temporal Variability of CMR Cine bSSFP based Myocardial Strain in Healthy Volunteers: Impact of processing algorithm.
P305	Traditional Poster Session 4	Francisco	Contijoch	Flow vorticity may impair flow quantification in patients with aortic aneurysm
P306	Traditional Poster Session 4	Matthew	Van Houten	Z-Spectra Analysis of Magnetization Transfer for Quantitative Detection of Myocardial Fibrosis
P307	Traditional Poster Session 4	Kevin	Bouaou	Computation of aortic pressure fields from 4D flow MRI
P308	Traditional Poster Session 4	Vincent	Chen	Age and Sex Dependent Performance of Machine Learning in Automated Left Ventricular Contouring and Function Analysis
P309	Traditional Poster Session 4	Konrad	Werys	Accelerating reconstruction of T1-maps without sacrificing consistency for clinical applications
P310	Traditional Poster Session 4	Jing	Xu	CMR derived right ventricular feature analysis associates with hemodynamics and clinical outcome: a pilot study
P311	Traditional Poster Session 4	Patrick	Magrath	Comparison of Free-Breathing and Breath-Held Cine DENSE Strain in Boys with Duchenne Muscular Dystrophy
P312	Traditional Poster Session 4	Kenneth	Fung	Intra- and inter-observer reproducibility of 2D and 3D right ventricular strain assessment by CMR tissue tracking
P313	Traditional Poster Session 4	Francesca	Condemi	On the use of 4D flow MRI to create patient-specific computational fluid dynamics models for patients with coronary artery bypass surgery
P314	Traditional Poster Session 4	Mahathi	Indaram	Interobserver variability in left ventricular ejection fraction in the presence of Non-MR conditional device related artifacts

P315	Traditional Poster Session 4	Michael	Horowitz	Estimation of Aortic Valve Area with 4D Flow MRI - A pilot study with the Hakki equation and aortic jet planimetry
P316	Traditional Poster Session 4	Aaron	Soufer	Inter-observer and Intra-observer Variability in Segmentation and Quantification of Left Atrial Late Gadolinium Enhancement
P317	Traditional Poster Session 4	Daniel	Gordon	4D Flow MRI Quantification of Blood Flow in the Thoracic Aorta in Under 10 Minutes
P318	Traditional Poster Session 4	KyungPyo	Hong	Blockwise-Matching Denoising of Wideband Perfusion and LGE Images
P319	Traditional Poster Session 4	Richard	Coulden	Early experience with a new contouring tool: has automated LV analysis finally arrived?
P320	Traditional Poster Session 4	Alireza	Sojoudi	Automatic End-Systolic Phase Detection on Short Axis CMR Images based on Minimum Endocardium Area of Middle Slice Performs Well Compared to Manual Analysis
P321	Traditional Poster Session 4	Baiyan	Zhuang	Reference Absolute and Indexed Normal Values of Cardiac Chambers and Ventricular Function from Cardiac Magnetic Resonance in Chinses Adult Population
P322	Traditional Poster Session 4	Amit	Arbune	Correlation of Myocardial Strain Imaging By Cardiac Magnetic Resonance Imaging with Echocardiography In Breast Cancer Patients With Concern For Cardiotoxicity
P323	Traditional Poster Session 4	Tilman	Emrich	Clinical Implications of FT-CMR Strain standardization
P324	Traditional Poster Session 4	Joao	Tourais	Quantitative comparison between Multislice 2D Breath-hold Cartesian and Free-breathing Anisotropic FOV 3D Golden Angle Radial Stack-of-Stars for functional cine cardiac MRI
P325	Traditional Poster Session 4	Brendan	Eck	Influence of scan window duration on parameter maps from cardiac magnetic resonance fingerprinting
P326	Traditional Poster Session 4	Naeim	Bahrami	Automated assessment of cardiac MR imaging plane quality with deep neural networks
P327	Traditional Poster Session 4	Jennifer	Erley	Fast strain-encoded cardiac magnetic resonance imaging: A multi-vendor, multi-center study on reproducibility and comparability
P328	Traditional Poster Session 4	El-Sayed	Ibrahim	How far can we push the limit for cine image acquisition? Strategies and effects on image quality and clinical measurements
P329	Traditional Poster Session 4	Thomas	Kuestner	3D Cartesian fast-interrupted steady-state sequence with intrinsic fat suppression for cardiovascular imaging

P330	Traditional Poster Session 4	Jennifer	Erley	Left and Right Ventricular Assessment of Longitudinal Myocardial Strain: A Comparison of Strain-Encoded Cardiac Magnetic Resonance and Speckle Tracking Echocardiography
P331	Traditional Poster Session 4	Abbas	Moghaddam	Real-time radial tagging with radial FLASH: preliminary results
P332	Traditional Poster Session 4	Cesar	Gonzalez de Alba	T1 mapping by 2 versus 4 time-point acquisitions in patients with repaired tetralogy of Fallot yields comparable results
P333	Traditional Poster Session 4	Aaron	Soufer	Complete heart block due to isolated AV nodal inflammation: Using multimodality imaging to improve detection of myocardial inflammation in Cardiac Sarcoidosis
P334	Traditional Poster Session 4	Mohammad	Khan	Symptoms of Acute Coronary Syndrome with Hypereosinophilia - Loeffler Endocarditis
P335	Traditional Poster Session 4	Nikhil	Kolluri	Recurrent angina in a young male: A case of inflammation
P336	Traditional Poster Session 4	Miho	Fukui	Incremental prognostic value of baseline global longitudinal strain and late gadolinium enhancement in patients with severe aortic stenosis receiving aortic valve replacement
P337	Traditional Poster Session 4	Patrick	Geeraert	Elevated Circumferential Wall Shear Stress Associated with Aortic Dilation and Presence of Bicuspid Aortic Valve Disease
P338	Traditional Poster Session 4	William	Watson	ATP delivery rate and diffusion distances are maintained in severe aortic stenosis with preserved systolic function despite reduced PCr/ATP ratio.
P339	Traditional Poster Session 4	Yang	Zhan	Normal Reference Values and Reproducibility of Tricuspid Annulus Dimensions using Cardiac Magnetic Resonance
P340	Traditional Poster Session 4	Stephanie	Funk	Longitudinal evaluation of aortic hemodynamics measured by 4D Flow MRI in patients with aortic valve pathology
P341	Traditional Poster Session 4	Alexander	Lenz	Feasibility of 4D flow MRI for evaluation of aortic flow patterns in patients with congenital aortic valve disease before and after aortic valve sparing surgery
P342	Traditional Poster Session 4	Ryan	Wolff	Bileaflet Mitral Valve Prolapse Acts as an Extra Load on the Left Ventricle
P343	Traditional Poster Session 4	Marco	Guglielmo	Cardiac magnetic resonance with 4D Flow Imaging for mitral regurgitation severity assessment

P344	Traditional Poster Session 4	Amit	Patel	Sources of Error in the Indirect Quantification of Mitral Regurgitation Using 4-Dimensional Flow Cardiac Magnetic Resonance
P345	Traditional Poster Session 4	Martin	Sinn	Prediction of sustained valvular cardiomyopathy by T1 mapping in patients with chronic aortic regurgitation after aortic valve repair
P346	Traditional Poster Session 4	Amitabh	Parashar	CMR utility in differentiating Low flow Low gradient AS from Moderate AS: How CMR helps detect LVOT area underestimation on TTE due to LVOT ellipticity
P347	Traditional Poster Session 4	Sreya	Brahmandam	Optimal Detection of Aneurysm of the Ascending Aorta in Patients with Bicuspid Aortic Valve
P348	Traditional Poster Session 4	Juan Manuel	Chino Mendoza	Extracardiac findings in infective endocarditis, utility 'extended protocol'
P349	Traditional Poster Session 4	Kelly	Jarvis	Longitudinal Changes in True and False Lumen 4D Hemodynamics in Patients with Type-B Aortic Dissection
P350	Traditional Poster Session 4	Ioannis	Koktzoglou	Accelerated Quiescent Interval Slice- Selective MR Angiography Using Deep Learning-Based Interslice Interpolation
P351	Traditional Poster Session 4	Jiachen	Ji	Hemodynamic Evaluation for Idiopathic Pulmonary Hypertension Patients with Right Ventricle Function Loss Using 4D Flow MRI
P352	Traditional Poster Session 4	Nivedita	Naresh	Non-Invasive Evaluation of Inhaled Nitric Oxide on Pulmonary Blood Flow Dynamics using 4D Flow MRI in Pediatric Pulmonary Arterial Hypertension Patients
P353	Traditional Poster Session 4	Niromila	Nadarajan	Primary aldosteronism is associated with regional and whole aortic stiffness as assessed by CMR
P354	Traditional Poster Session 4	Michael	Bindschadler	Phantom for optimizing flow protocols in pediatric cardiac MRI
P355	Traditional Poster Session 4	Stephanie	Funk	Myocardial evaluation and tissue differentiation of post-preeclamptic women – is early risk stratification possible?
P356	Traditional Poster Session 4	Daniel Sebastian	Salehi	Left ventricular contractility is not impaired after preeclampsia compared to normal pregnancy within 3 days and 6 months postpartum: a CMR-based pressure-volume loop longitudinal study
P357	Traditional Poster Session 4	Grigorios	Kalapocharakos	Cardiovascular effects of severe late- onset preeclampsia are reversed within 6 months postpartum.

P358	Traditional Poster Session 4	Aaron	Pruitt	Clinical Validation of an Outlier-Robust, Automatic Background Phase Offset Correction Algorithm for 2D Phase- Contrast MRI
P359	Traditional Poster Session 4	Li	Huang	Clinical feasibility of a two heartbeat inversion recovery based T1 mapping scheme
P360	Traditional Poster Session 4	Dong-Aolei	An	Different Myocardial Perfusion Status in Acute Myocardial Infarction and Infarct- like Myocarditis: A Novel Intravoxel Incoherent Motion Diffusion-Weighted Imaging based MRI Study