

ISMRRM

ONE
COMMUNITY
FOR CLINICIANS
AND SCIENTISTS

ISMRRM | Iranian
CHAPTER

ISMRRM Iranian Chapter First Annual Meeting

24, 25, 26 August 2022

Tehran University of Medical Sciences

Scientific Sessions:

- . MR Physics
- . Cardiac MR
- . Neuroimaging
- . MR in Cancer
- . Artificial Intelligence (AI) in MRI
- . MR Technologists (SMRT)

12 CME Credits

2022
IRANMRI

Interdisciplinary Teamwork
for MR Quality Imaging

Purpose of Event

- Transferring up-to-date science to Iran
 - Meeting the identified needs
- Efficiency improvement in diagnostic and therapeutic centers

2022
IRANMRI

**Interdisciplinary Teamwork
for MR Quality Imaging**



Message of The congress Chairman

IRANMRI 2022 will be held on August 24th, 25th and 26th, 2022 when resident and non-resident talent Iranians from both clinicians and scientists attend this annual meeting to give lectures in the interdisciplinary field of MRI in Medicine. IRANMRI2022 as the largest event of MRI in Medicine in Iran provides an irreplaceable opportunity for the specialists working in the field of MRI in Medicine to discuss the interdisciplinary problems from the point-of-view of the clinician, radiologist, MRI physicist, related scientists and MRI technologist in order to come up with a sole solution for the complex clinical problem in the field.

IRANMRI2022 as the official annual meeting event of the Iranian Chapter of the Iranian Society for Magnetic Resonance in Medicine (ISMRM) for the year of 2022 offers six different workgroups of Cancer MRI, Neuro MRI, Cardiac MRI, MRI Physics, Artificial Intelligence in MRI, and MRI Technologist Society in more than 30 professional and interdisciplinary panels with more than 120 brilliant speakers when about 40 of them are non-resident Iranians living outside of Iran.

IRANMRI2022 will be held in hybrid format when both physical and virtual attendance is possible for the attendees from different categories including clinicians and scientists, residents and students, researchers and professors, and all the professionals working in the field of MRI, who are kindly invited to attend this annual meeting in order to increase the meeting value and to help each other improve this field in our great country of Iran!

Thanks to all,
Dr Hossein Ghenaati, Chairman
Director of Tehran University of Medical Sciences





Message of the Congress Executive Secretary

Iranian Chapter of the International Society for Magnetic Resonance in Medicine (ISMRM) commits to develop science and technology in the field of Magnetic Resonance Imaging (MRI) in Medicine and Biology, and to all the scientists, technologists and clinicians working in the versatile and multidisciplinary field of MRI in the country of Islamic Republic of Iran and the Middle East.

Iranian Chapter of ISMRM leverages the continued advancement and enhancement of the value of Magnetic Resonance by bringing both clinicians and scientists under one umbrella in order to develop tools and platforms to enable widespread innovation for diverse clinical specialties, for diverse scientific disciplines, and for the public.

Iranian Chapter of ISMRM aims to create greater awareness and to promote the benefits of MR from one hand, and to provide opportunities to build relationships and share knowledge from the other hand to the public, to diverse scientific disciplines, to diverse clinical specialties, and within our own community.

Iranian Chapter of ISMRM invites all national and international students, MR technologists, clinical professionals and specialists, researches, scientists, physicists and engineers, and any other individuals interested in the field of MRI in Medicine and Biology to join the community society at IRANMRI2022, the first annual meeting of the Iranian Chapter and the largest meeting of the country in the field of MRI in Medicine, to interact their knowledge, experience, science and data in six specialized work-groups to promote their actual practical experiences by sharing with others and learning from each other, leading to foster our country's glory and success by 'Interdisciplinary Teamwork for MR Quality Imaging'!

With best regards,

Dr Hamidreza Saligheh Rad

Executive Secretary

Chairman of the ISMRM Iranian Chapter





Message of the Congress Scientific Secretary

Today we see daily and wide expansion of the MRI applications in medicine and development of new techniques that could not have happened without a strong teamwork among radiologists, clinicians, physicists and technologists.

International Society for Magnetic Resonance in Medicine (ISMRM) has been developed to promote such teamwork and collaboration among different specialties in order to create a better health system for the mankind in the world, and in Iran via the Iranian Chapter of ISMRM since 2013. Now we are more than happy to introduce the first annual meeting of our chapter being held in Tehran, August 24-26, 2022.

In the congress, we will have dedicated sessions with more than 30 specialized panel discussions in 6 different study groups as Cancer MRI, Neuro MRI, Cardiac MRI, MRI Physics, Artificial Intelligence in MRI, and MRI Technologists. A group of well-known and experienced medical specialists, radiologists and physicists will transfer new advances and novel applications of MRI in Medicine to our colleagues and will introduce the expanding research horizons within our great country of Iran.

We are hoping that with such an interdisciplinary meeting, the community of Iranian scientists can even further actively take part in the advancement of global knowledge in the field of MRI.

Dr Masoumeh Gity
Scientific Secretary



Executive Committee



Interdisciplinary Teamwork
for MR Quality Imaging



Dr. Hamidreza Saligheh Rad
Congress Executive Secretary
Chairman of the ISMRM Iranian Chapter



Mr. Davoud khani
Executive Manager



Ms. Zahra Hasankhani
SMRT Study Group
Coordinator



Ms. Leila Ghasemi
Cancer MRI Study
Group Coordinator

Executive Committee



Dr. Elham Mohammadi
Cardiac MRI Study Group
Coordinator



Ms. Zahra Sadeghi
MRI Physics Study
Group Coordinator



Amin Barati Shoorche
AI Study Group Coordinator



Ms. Fatemeh Mohammadian
Neuro MRI Study
Group Coordinator



Mr. Mahmoud Morafegh
Secretariat Assistant



Milad Payandeh
Website Manager

Scientific Committee



Dr. Masoumeh Gity
Professor of Radiology,
Advanced Diagnostic and Interventional
Radiology Research Center,
Breast Disease Research Center,
Tehran University of Medical Sciences



Dr. Hamidreza Saligeh Rad
MRI Physicist



Dr. Hamid Soltanianzadeh
Senior Scientist, Henry Ford
Hospital
Professor, University of Tehran



Dr. Zahra Alizadeh Sani
Cardiologist



Dr. Abbas Nasirayi Moghaddam
Physicist



Dr. Hamidreza Haghghat Khah
Radiologist

Scientific Committee



Dr. Mahyar Ghafuori
Professor of Radiology
Iran University of Medical Sciences
School of Medicine Hazrat Rasul
Akram University Hospital



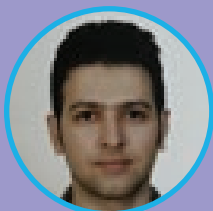
Dr. Alireza Shakiba Fard
Radiologist



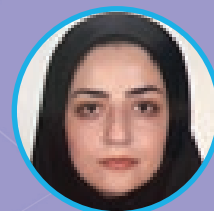
Dr. Ali Fatemi Ardekani
Ph.D MCCPM
Director of Medical Physics,
Community Health System (CHS)
Chief Science Officer, SpinTecx. LLC



Dr. Kavous Firouznia
Radiologist



Dr. Shahrokh Abbasi Rad
MRI Physicist



Dr. Atena Akbari
MRI Physicist

Scientific Committee



Dr. Vahid Malekian
MRI Physicist



Dr. Ahmad Ameri
Clinical Oncologist
Shahid Beheshti University of
Medical Sciences



Dr. Farid Azmoudeh Ardalan
Pathologist



Dr. Manijeh Beigi
Medical Physicist,
Iran University of Medical Sciences



Dr. Aydin Taghilu
Neuroradiologist

Scientific Committee



Dr. Mostafa Robot Jazi
Ph.D. in Medical Physics
Radiotherapy and Oncology Center,
Sabzevr



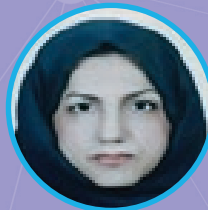
Dr. Mohammadreza Divband
PhD. In Medical Physics
Research Director at Shahid Beheshti
University of Medical Sciences



Dr. Shahriar Faghani
AI Postdoctoral Research Fellow
At Mayo Clinic/Doctor
of Medicine



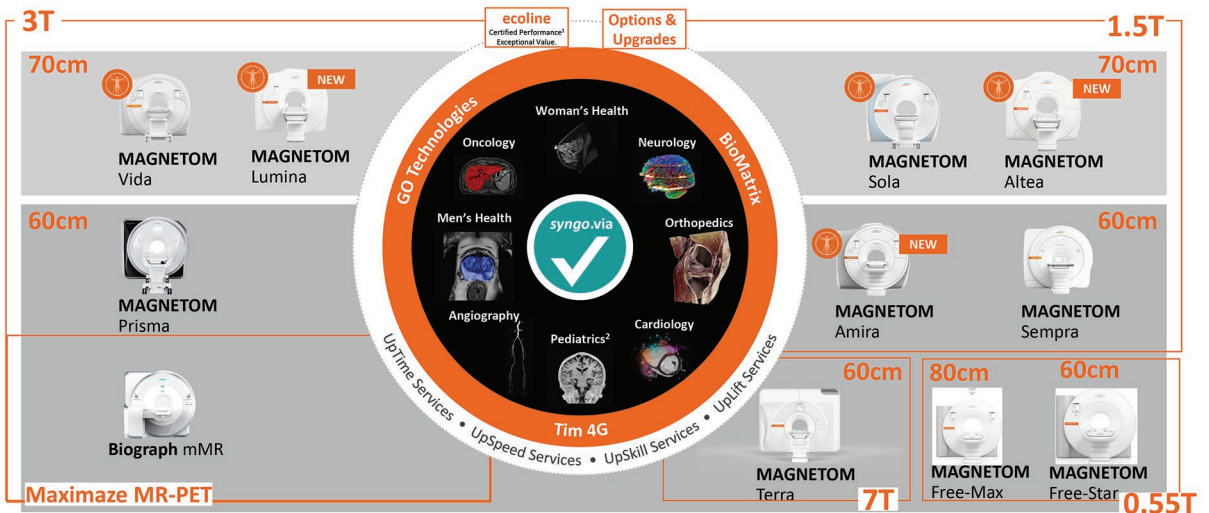
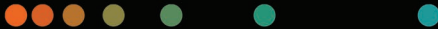
Kianoosh Kasani
MRI Application Specialist



Manijeh Pakravan
Medical Imaging

Siemens Healthineers MAGNETOM Family

Our strongest MRI portfolio
Pioneering Magnetic Resonance

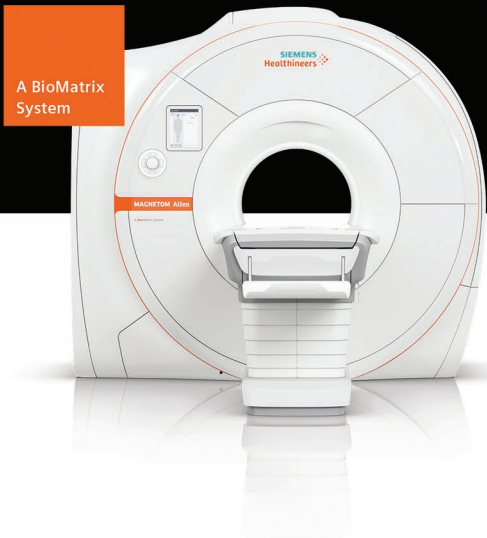
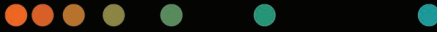


Fanavari Azmayeshgahi CO.

SIEMENS
Healthineers

Embrace human nature

BioMatrix Technology



A BioMatrix System

MAGNETOM Altea (Bore 70 cm)

MAGNETOM Altea is our new 1.5T Open Bore system

Powered by our premium MRI technology, MAGNETOM Altea combines our unique , our exclusive and our new AI-powered image reconstruction technology to fundamentally transform care delivery.

MAGNETOM Amira (Bore 60 cm)

MAGNETOM Amira is our new 1.5T system

This MRI scanner is specifically designed to enhance clinical capabilities and deliver comprehensive, advanced technology. MAGNETOM Amira helps extend care to a greater number of patients, improve the patient experience, and boost process efficiency – at lower costs per scan.



Fanavari Azmayeshgahi CO.

SIEMENS
Healthiners

NEURO TRACK

Alzheimer Disease Screening Software

NeuroTrack, a fully automated MRI post-processing and quantification software, measures brain structures volume (from T1-MRI) and hyper-intensity lesion volume and count (from T2-MRI), and compares the results with the expected size for age- and sex-matched healthy group if needed.

Fully automated, reliable, reproducible analysis of brain atrophy:

- Volumes of 42 cortical and subcortical regions (T1)
- Quantification of longitudinal changes in brain structure atrophy
- Comparison of results to normative reference data adjusted for age and intracranial volume with results presented in tabular form or as age-corrected plots
- Interactive image review, with the ability to compare multiple time point

Fully automated, reliable, reproducible analysis of brain white matter hyper-intensity:

- White-matter hyper-intensity segmentation (T2-FLAIR)
- Quantification of longitudinal changes in brain lesion changes and segmentations
- Comparison of results to normative reference data adjusted for age and intracranial volume with results presented in tabular form plots
- Interactive image review, with the ability to compare multiple time points



KIO medical
Longitudinal atrophy analysis
NEURO TRACK^{vi}
POWERED BY AI

Patient information
Patient ID: 304027
Name: Soheil Mirzabaghian
Age: 32
Sex: M
Study date: 2020/07/27

Brain Volumetry

ICV	Mean	ICV
445.09 cm ³	1360.17 cm ³ *	1533.29 cm ³ *
24.91 % of ICV	75.96 % of ICV	

Hippocampus & Lobes Volumetry

Structure	Total (cm ³)	Percentile	Total (cm ³)	Percentile	Change %
2020/07/27					
2022/02/21					
Amygdala	1012 (102.4%)	61.19	1061 (102.4%)	64.10	+4.87%
Caudate	126.5 (8.9%)	86.60	126.1 (9.1%)	86.32	-0.32%
Putamen	102.5 (7.2%)	89.59	102.2 (9.3%)	89.37	-0.26%
Substantia nigra	64.0 (3.8%)	88.71	64.0 (2.7%)	89.87	+0.06%
Cingulate	28.4 (1.4%)	87.08	27.4 (1.6%)	86.02	-3.51%
Superior frontal	97.0 (32.2%)	44.20	95.2 (3.3%)	74.24	-1.15%
Medial prefrontal	26.1 (1.4%)	38.42	27.2 (1.8%)	69.04	+4.33%
Parahippocampal	5.3 (0.3%)	39.27	5.3 (0.3%)	55.50	-0.13%
Subcallosal	20.0 (1.1%)	52.56	21.2 (1.2%)	66.60	+1.16%
Medial orbitofrontal	10.2 (0.5%)	51.46	10.1 (0.4%)	67.66	-0.16%
Superior parietal	26.4 (1.4%)	82.64	27.2 (1.6%)	89.32	+0.47%
Middle temporal	22.0 (1.0%)	53.66	23.0 (2.5%)	68.11	+0.67%
Superior temporal	21.0 (1.2%)	58.47	20.1 (1.2%)	48.28	-1.07%
Medial temporal	22.8 (1.2%)	72.29	23.4 (1.3%)	83.01	+0.20%
Superior temporal	26.0 (1.8%)	17.98	26.0 (2.1%)	26.10	+1.07%
Inferior temporal	27.0 (1.5%)	33.58	29.0 (1.7%)	64.04	+1.47%
Insula	16.7 (0.8%)	68.69	16.2 (1.2%)	66.89	-1.00%
Opercular	6.0 (0.3%)	58.47	5.2 (0.3%)	66.21	-1.30%
Supramarginal	6.3 (0.3%)	66.71	6.3 (0.4%)	66.99	+0.20%
Precentral	20.4 (0.8%)	62.71	20.4 (1.8%)	66.10	+0.11%
Postcentral	7.4 (0.4%)	52.23	7.7 (0.4%)	70.96	+0.34%
Posterior cingulate	7.8 (0.4%)	61.07	6.1 (0.3%)	66.34	-1.76%
Subcallosal	1.8 (0.1%)	66.12	1.4 (0.1%)	66.89	-0.39%
Subcallosal	6.0 (0.3%)	64.40	6.0 (0.7%)	69.89	+0.89%
Lateral ventricle	12.7 (0.7%)	66.12	11.9 (0.7%)	59.21	-6.21%
Caudate	6.0 (0.3%)	66.18	6.0 (0.3%)	67.60	+0.42%
Putamen	11.3 (0.6%)	64.00	11.1 (0.6%)	66.10	-0.18%
Insula	10.0 (0.5%)	76.89	14.1 (0.8%)	66.75	+3.75%
Amygdala	4.4 (0.2%)	76.07	4.0 (0.2%)	66.13	-0.13%
Brainstem	27.0 (1.5%)	96.51	24.0 (1.4%)	86.20	-3.30%
Hippocampus	16.2 (0.8%)	67.53	16.1 (0.8%)	66.10	-0.10%
Cerebellum vermis	30.2 (1.8%)	38.00	29.0 (1.4%)	53.01	+1.01%
Cerebellum Cortex	126.6 (8.7%)	37.53	73.0 (4.2%)	0.00	

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Longitudinal atrophy analysis
NEURO TRACK^{vi}
POWERED BY AI

Reference Cortex Curves: Total, Left Frontal, Right Frontal, Parietal, Occipital, Cingulate, Temporal, Amygdala, Hippocampus, Brainstem, Cerebellum.

Longitudinal WMI analysis powered by NeuroTrack

Patient ID	Patient name	Sex	Date of birth	Age at latest exam	Report date
emc2	Anonymous	F	1949-09-01	64 years old	2022-02-02

White Matter Hyperintensities

Volume (cm ³)	Number of WMI	Volume (cm ³)	Number of WMI	Volume change (cm ³)
2020-02-21				
2022-01-11				
Disappearing	0.3	23	-	-0.3
Pre-Existing*	7.6	44	22.3	14.7
New	-	-	1.4	1.4
Total	7.9	67	23.8	+15.8

*The second time-point may include confluent lesions.

Overview Images

Follow-up scan
2022-01-11
2020-02-21

WMI segmentation of follow-up scan approved by NeuroTrack on 2022-01-01 at 15:22
WMI segmentation of baseline scan approved by NeuroTrack on 2022-01-01 at 15:22

Patient ID: emc2
NEURO TRACK^{vi}
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Page 1

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2022 IRANMRI

Interdisciplinary Teamwork
for MR Quality Imaging

24, 25, 26 ²⁰²²
August

Tehran University of Medical Sciences

Congress Overview



Days Events

3



Speakers

142



Workshops

3



Study Groups

6



Countries

11



Panels

40



Audience

436



CME

286

Wednesday 24th August 2022

First Day – First Hall

(Amphitheater – Capacity: 600 People)



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: MRI in Breast Cancer			
8 to 9:45	Indications of Breast MRI in Different Clinical Settings	Dr. Arab Kheradmand	Surgeon
	Essential of Imaging and Differentiation of Lesions in Breast MRI	Dr. Nahid Saddighi	Radiologist
	Best Conventional and Advanced of Techniques of Breast MRI Today	Mr. Mohammad Fathi	MR Application Specialist
	Role of MRI after Diagnosis of Breast Cancer	Dr. Nasrin Ahmadi Nejad	Radiologist
	Role of MRI Screening, Now and Future	Dr. Masumeh Gity	Radiologist
	How to Manage the Time to Screen More Patients with MRI in a Breast Center	Dr. Hadi Zomorrodian	Radiologist
Hour	Name and Surname of the Lecturer	Lecturer Specialty	
Congress Opening			
10 to 11:45	Dr. Hossein Ghenaati	President of Tehran University of Medical Sciences	
	Dr. Masumeh Gity	Scientific Secretary of Congress	
	Dr. Hamidreza Saligheh Rad	Executive Secretary of Congress	
	Dr. Sorena Sattari	Vice Presidency for Science and Technology	
	Dr. Ghale Noei	Deputy of International Center for Interactions	
	Dr. Bahram Eynollahi	Minister of Health	

Wednesday 24th August 2022

First Day – First Hall

(Amphitheater – Capacity: 600 People)



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: MRI in Breast Cancer			
12 to 13	Breaking Barriers in MRI: From BioMatrix to Novel Acceleration Algorithms and A.I. part I	Dr. Guy Umberto Poloni	CT/MRI Product Specialist
Lunch time			
Panel Title: Ultrahigh Field MRI			
13 to 14:45	Ultrahigh Field MRI: Physics, Benefits and Challenges	Dr. HaMidreza Saligheh Rad	MRI Physicist
	Magnet Technology for UHF-MRI	Dr. Yaohui Wang	MRI Physicist
	B0 Shimming at UHF	Dr. Ali Aghaei Far	Faculty Member of Department of Biomedical Engineering, Amirkabir University
	B1+ Inhomogeneity at UHF	Dr. Shahrokh Abbasi Rad	Postdoc at MGH – Martinos Center
	Compact Benchtop NMR System and its Industrial Applications	Dr. Xiaodong Yang	MRI Physicist
Panel Title: Multidisciplinary Approach to Adult Diffuse Glioma Diagnosis and Treatment			
15 to 16:45	Neurosurgical Consideration in Adult Type Diffuse Gliomas	Dr. Amin Jahanbakhshi	Neurosurgeon
	Pathological Aspects and Latest Classification of Adult Type Diffuse Gliomas	Dr. Farid Azmoudeh-Ardalan	Neuropathologist
	Diagnosis Of Adult Type Diffuse Gliomas Based on MRI Imaging	Dr. Mahyar Mohammadifard	Neuropathologist
	MRI Imaging of Adult Type Diffuse Gliomas	Mr. Jamil Abdolmohammadi	Physicist

Wednesday 24th August 2022

First Day – First Hall

(Amphitheater – Capacity: 600 People)



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: QC & QA in MR			
17 to 18:45	MRI QC and QA From ACR Perspective	Dr. Alireza Shakiba Fard	Radiologist
	QC and QA Procedure in MRI	Dr. Ali Fatemi	MRI Physicist
	QC & QA Phantoms Features in MRI	Dr. Mohammadreza Divband	Physicist
	QC and QA Standards in MRI Hardware	Dr. Nader Binesh	MRI Physicist
	Tune up in MRI	Mr. Mehdi Yazdan	Physicist
	QC and QA in Other Modalities	Mr. Davood Khani	QC Expert

First Day – Second Hall

Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: CMR in Arrhythmia			
8 to 9:45	DCM and Fibrosis, Is MRI Game Changer?	Dr. Shabnam Maddadi	Cardiologist
	Role of cardiac MRI in Cardiac Arrhythmia Ablation and Electronic Device Implantation	Dr. Vahid Jor'at	Cardiologist
	Cardiac and Non-cardiac MRI in Patients with Cardiac Electronic Devices	Dr. Mehrdad Saravi	Cardiologist
	Role of MRI for HCM Risk Stratification	Dr. Ali Heydari	Cardiologist
	MRI and SCD Risk Stratification	Dr. Mehrdad Mirmasoumi	Cardiologist

Wednesday 24th August 2022

First Day – Second Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
10 to 11:45	Congress Opening		
Lunch Time			
Panel Title: Epilepsy MRI			
13 to 14:45	Epilepsy Diagnosis And Treatment	Dr. Abbas Tafakhori	Neurologist
	Epilepsy Diagnosis And Treatment	Dr. Sohrab Hashemi Fesharaki	Neurologist
	Epilepsy MRI Before Surgery	Dr. Shervin Sharifkashani	Neuroradiologist
	Epilepsy MRI Imaging	Dr. Hamid Soltanian-Zadeh	Physicist
	Epilepsy Surgery	Dr. Morteza Faghih-Jouybari	Neurosurgeon
Panel title: Advanced Modalities: DTI and SWI			
15 to 16:45	DTI: Physics, Benefits and Challenges	Dr. Mohammadreza Nazemzadeh	MRI physicist
	DTI Clinical Applications	Dr. Samira Raminpard	Neuroscientist
	SWI: Physics, Benefits and Challenges	Dr. Ali Fatemi	Physicist
	Clinical Application of Susceptibility Weighted Imaging	Mr. Navid Sarmast Alizadeh	Technologist
10 to 11:45	Panel title: Applying Artificial Intelligence Methods to Drug Addiction Related MR Images		
17 to 18:45	Addiction Definition	Dr. Hamed Ekhtiari	Neuroscientist
	Brain Connectivity in Addictin	Dr. Arash Zare Sadeghi	Biomedical Engineer
	MRS in Addiction	Dr. Samira Ramin Fard	Neuroscientist
	Addiction Definition	Dr. Hamed Ekhtiari	Neuroscientist

Wednesday 24th August 2022

First Day – Third Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Application of AI to MRI for Diagnosis and Treatment of Epilepsy			
8 to 9:45	Medical Imaging and Analysis	Dr. Hamid Soltanian Zadeh	Multimodality MRI Analysis
	Medical Imaging and Analysis	Dr. Mohammadreza Nazem Zadeh	DTI Analysis
	Medical Image Analysis	Dr. Alireza Fallahi	fMRI-Based Connectivity Analysis
	Medical Image Analysis	Dr. Elyas Ebrahim Zadeh	EEG-fMRI Analysis
10 to 11:45	Congress Opening		
Lunch Time			
Panel Title: Vice-Presidency for Science and Technology Panel on Non-Resident Iranian Experts			
13 to 14:45	Dr. Mehdi Ghaleno'e		
	Dr. Mostafa Ghane'e		
	Dr. Ali Hosseini		
	Dr. Saeed Sarkar		
	Dr. Amir Ali Hamidieh		
	Dr. Bahram Salavati		

Wednesday 24th August 2022

First Day – Third Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Update on Myocarditis: Covid and Beyond			
15 to 16:45	Role of Endomyocardial Biopsy (EMB) and CMR in Myocarditis: Clinical Perspective	Dr. Sepideh Taghavi	Cardiologist
	Imaging in Myocarditis (MMI and LL Criteria)	Dr. Parham Rabiei	Radiologist
	COVID-19 Myocardial Injury: Role of Imaging and Clinical Outcomes	Dr. Hamidreza Pourali Akbar	Radiologist
	Imaging Myocarditis After COVID Vaccine	Dr. Mohammad Kasaei	Cardiologist
	CMR with Scare Gallery	Dr. Faezeh Tabesh	Cardiologist
Panel Title: CMR from Research to Clinic			
17 to 18:45	The History of Cardiac MRI in the World and Iran	Dr. Zahra Alizadeh Sani	Cardiologist
	Cardiac MRI Education & Training: from Proton to Reporting	Dr. Farhad Akhavin	Cardiologist
	The Future of CMR: New Advanced Technologies	Dr. Abbas Nasiraei Moghaddam	Physicist
	Economic Challenges of CMR Centers in Iran	Mr. Seyed Jafar Shoja Razavi	Technologist
	Mentorship, Coaching and Leadership Through CMR Imaging Career Stages	Dr. Zahra Alizadeh Sani	Cardiologist
	Vortex Quantification in CTEPH Patients pre and post-surgical Endarterectomy	Dr. Arshid Azarin	Radiologist

Thursday 25th August 2022



Second Day – First Hall

(Amphitheater – Capacity: 600 People)

Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel title:			
Role of MRI in Diagnosis and Treatment of Liver Cancer			
8 to 9:45	Role of MRI in Diagnosis and Treatment of Liver Cancer	Mr. Vahid Shahmaei	Application Specialist
	Role of MRI in Diagnosis and Treatment of Liver Cancer	Dr. Nilufar Ayubi	Radiologist
	Role of MRI in Diagnosis and Treatment of Liver Cancer	Dr. Faezeh Salahshour	Radiologist
	Role of MRI in Diagnosis and Treatment of Liver Cancer	Dr. Ali Jafarian	Postdoctoral Fellowship Hepatobiliary Surgery and Liver Transplantation
	Role of MRI in Diagnosis and Treatment of Liver Cancer	Dr. Stanescu	MRI Physicist
Panel title:			
Assessment Of Structural and Functional Changes in Brain for Dementia Patients			
17 to 18:45	MRI-Based Imaging Diagnosis of Dementia	Dr. Aydin Taghilou	Neuroradiologist
	Dementia Diagnosis	Dr. Fatemeh Khamseh	Neurologist
	MRI images Acquisition and Analysis for Dementia Application	Dr. Vahid Malekian	Physicist
	Dementia (Cognitive Decline)	Dr. Mohsen Sedighi	Neuroscientist
	MRI-Based Imaging Diagnosis of Dementia	Dr. Soroor Kalantari	Radiologist
Lunch Time			

Thursday 25th August 2022

Second Day – First Hall

(Amphitheater – Capacity: 600 People)



Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: Plenary Talk			
13 to 14:45	Principles of Clinical MRI Research: Procedures and Ethics	Dr. Mark Schweitzer	Radiologist
	Principles of Clinical MRI Practice: Procedures and Ethics	Dr. Ali Nabavizadeh	Radiologist
Panel Title: Advanced Modalities: MRS and PWI			
15 to 16:45	MRS: Physics, Benefits and Challenges	Dr. Mohammad Ali Oghabian	MRI Physicist
	MRS Clinical Applications	Dr. Elhan Rahimian	Neuroradiologist
	PWI: Physics, Benefits and Challenges	Dr. Hamidreza Saligheh Rad Dr. Anahita Fathi	Physicist
	PWI Clinical Applications	Dr. Mahyar Mohammadifard	Radiologist
Panel Title: Added Value of a MR Physicist in the MR Imaging Center			
17 to 18:45	Added Value of MRI Physicist in Cancer and Neuro Imaging	Dr. Mohammad Ali Oghabian	MRI Physicist
	What's the Role of a MRI Physicist in Clinical Imaging Center	Dr. Nader Binesh	MRI Physicist
	Added Value of MRI Physicist in Advanced Imaging	Dr. Hossein Ghenaati	Radiologist
	Added Value of MRI Physicist in Research Leadership	Dr. Hamidreza Saligheh Rad	MRI Physicist
	Interaction of Senior Technologist with Physicist and Radiologist in MRI Imaging Center	Mr. Vahid Shahmaei	Application Specialist

Thursday 25th August 2022



Second Day – First Hall

(Amphitheater – Capacity: 600 People)

Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Congress Closing			
8 to 9:45	Dr. Masumeh Gity	Scientific Secretary of Congress	
	D. Hamidreza Saligheh Rad	Executive Secretary of Congress	
	Dr. Hossein Ghenaati	President of Tehran University of Medical Sciences President of the Congress	
Plenary Talk:			
20	Dr. Mark Schweitzer	Principles of Clinical MRI Research: Procedures and Ethics	
Dinner Time			

Second Day – Second Hall

Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Preclinical MRI: Application & Challenges			
8 to 9:45	Dr. Ehsan Sharif Paghaleh		
	Dr. Hamidreza Saligheh Rad		
	Dr. Elham Bidram		

Thursday 25th August 2022

Second Day – Second Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: MR in Ovarian & Endometrial Cancers Management			
10 to 12:15	Role of MR in Adnexal Pathologies	Dr. Maryam Rahmani	Radiologist
	Role of Multi-parametric MRI in Complex Adnexal Mapping	Dr. Hamidreza Saligheh Rad	MRI Physicist
	Who Is Candidate for Fertility Preservation in Endometrial Cancer (Role of MRI)/ Who Is Candidate for Laparoscopy in Endometrial Cancer and Review of MRI Cases	Dr. Maliheh Arab	Gyneco Oncologist
	Case Report of Young Endometrial Cancer and Review of MRI/Overview of MRI in Early Stage Endometrial Cancer	Dr. Masumeh Raoufi	Radiologist
	Who Is Candidate for Surgery in Endometrial Cancer and Review of MRI Cases/Overview of MRI in Advanced Endometrial Cancer	Dr. Saeed Nasiri	Radiologist
	Main Points of MRI Physics in Endometrial Cancer	Dr. Hamidreza Saligheh Rad	MRI Physicist
Lunch Time			

Thursday 25th August 2022

Second Day – Second Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: MRI in Head and Neck Radiotherapy			
15 to 16:45	How Does MR Imaging Help Care for Head and Neck Cancer Patients? Perspective of a Radiation Nncologist	Dr. Shaghayegh Yeganeh	Radiation Oncologist
	How Can MRI Help in Diagnosis, Treatment and Monitoring of Tumor in Head and Neck Cancer Patients?	Dr. Hashem Sharifian	Radiologist
	MRI in Head and Neck Radiotherapy Planning	Dr. Manije Beigi	Physicist
	MR-simulation for Radiotherapy treatment Planning of Head and Neck Cancer	Mr. Ali Naghizadeh	Physicist
	Introduction to MR-Linac, MR Guided Radiotherapy and Adaptive Planning”	Dr. Kamran Fathi	Physicist
Panel Title: MRI Application in Brain Cancer Diagnosis and Radiotherapy			
17 to 18:45	Introduction to Brain Tumors	Dr. Reza Ghale Taki	Radiologist
	MRI Application in Diagnosis and Post Treatment Follow up of Brain Gliomas	Dr. Mohammadali Kazemi	Radiation Oncologist
	Brain Tumor and Its Common Radiation Techniques Using MR Images	Dr. Ali Ghanbari Motlagh	Radiation Oncologist
	MRI application in Target Delineation of Brain Tumors	Dr. Mohsen Bakhshandeh	Physicist
	MRI-based Treatment Planning for Radiotherapy of Brain Tumors	Dr. Ahmad Mostaar	Physicist
	Advanced MR Imaging Methods for a Personalized Assessment of Post Brain Radiation Necrosis	Dr. Ali Fatemi	Physicist

Thursday 25th August 2022

Second Day – Third Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Open Innovation in High-Tech Technologies			
10 to 11:45	Re Branding in High Tech Product with the Approach of Global Marketing	Prof. Dr. Mehrdad Fojlaley	Academician of European Academy of Sciences
	Intellectual Properties	Prof. Dr. Mladen Karic	Vice President of European in Ventors Association
Lunch Time			
Panel Title: How I Do It: Stress CMR			
13:45 to 15:30	Clinical Perspective Stress CMR, Pros and Cons	Dr. Sanaz Asadian	Radiologist
	Advanced Imaging Technique for Current Stress CMR (Non-contrast Technique, T1 Mapping, Strain)	Dr. Sahar Asl Fallah	Cardiologist
	Current New Guide Line for Stress CMR Protocol	Dr. Negar Omid	Cardiologist
	Interesting Cases Based on CMR	Dr. Nahid Rezaeian	Cardiologist
	Future Approaches: Exercise-stress Real Time CMR	Dr. Elham Mohammadi	Physicist
Panel Title: Introducing the Latest Features and Capabilities of the CMR Image Post-Processing Software			
15:30 to 16:45	Introducing the Latest Features and Capabilities of the CMR Image Post-Processing Software	Giovanni Jansen	CT/MRI Product Specialist

Thursday 25th August 2022

Second Day – Third Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Advanced Methods in CMR: Tissue Characterization			
17 to 18:45	Mapping Techniques: Acquisition, Analysis, and Artifacts	Dr. Farhad Akhavin Dr. Reza Nezafat	Cardiologist
	Applications in Infiltrative Heart Diseases	Dr. Sanaz Asadian	Cardiologist
	Assessment of Myocardial Iron	Dr. Negar Omidi	Cardiologist
	Strain Imaging and Its Application	Dr. Sahar Asl Fallah	Cardiologist
	Application in Myo-cardial Ischemia	Dr. Abdolmohammad Ranjbar	Radiologist
	Application in Hypertrophic Cardio-myopathy (HCM)	Dr. Bahareh Jahan shahi	Cardiologist

Thursday 25th August 2022

Second Day – Forth Hall



Time	Title of Lecture, Workshop ...	Name and Surname of the Lecturer	Lecturer Specialty
Panel Title: Automatic Module for Brain Volumetry and WMH lesion Segmentation in Alzheimer`s Disease			
15 to 16:45	Automatic Module for Brain Volumetry and WMH Lesion Segmentation in Alzheimer`s Disease	Dr. Aydin Taghili	
	Automatic Module for Brain Volumetry and WMH Lesion Segmentation in Alzheimer`s Disease	Dr. Maryam Noruzian	
	Automatic Module for Brain Volumetry and WMH Lesion Segmentation in Alzheimer`s Disease	Dr. Sam Sharif Zadeh	
	Automatic Module for Brain Volumetry and WMH Lesion Segmentation in Alzheimer`s Disease	Mr. Fardin Samadi	

Friday 26th August 2022



Third Day – First Hall
(Amphitheater – Capacity: 300 People)

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: CMR in Cardio-Oncology			
8 to 9:45	Role of AI and Strain 3D Echo in Cardio-Oncology	Dr. Azin Alizadeh Asl	Cardiologist
	Interesting and Challenging Case of Cardio-Oncology	Dr. Azin Alizadeh Asl	Cardiologist
	Cardiac Neoplasms: The Value of CMR for Imaging and Prognosis	Dr. Hamidreza Pourali Akbar	Radiologist
	Challenging Case in Cardio-Oncology based on CMR	Dr. Hamidreza Pourali Akbar	Radiologist
	Quick Clinical CMR in Cardio-Oncology: Best Protocols, Prognostic and Management Implications	Dr. Kiara Rezaei-Kalantari	Radiologist
	Interventional Approach to Cardio-Oncology	Dr. Kiara Rezaei-Kalantari	Radiologist
Panel Title: Update on Artificial Intelligent (AI) Challenges and Successes in CMR			
10 to 11:45	How AI May Help Us to Perform CMR?	Dr. Arshid Azarin	Radiologist
	AI in CMR Imaging: Opportunities & Challenges	Mr. Mobin Mohebi Mr. Erfan Barzegar	Technologist
	Cardio-Vascular MRI Quality Assessment Using Deep Learning	Dr. Shahab Nabavi	Medical Imaging Computing
	The Future of CMR with AI	Dr. Freshteh Hassan Zadeh	Technologist
	Assessment of Myocardial Viability in Patients with Heart Failure After Surgical Revascularization	Ms. Fatemeh Arian	Technologist
	Machine Learning Modeling of Chemoradiotherapy Induced Cardiotoxicity in Breast Cancer Patients Using Clinical, Imaging and Dosimetric Features	Mr. Amin Talebi	Technologist

Friday 26th August 2022



Third Day – First Hall
(Amphitheater – Capacity: 300 People)

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Lunch Time			
Panel Title: Artificial Intelligence in Radiology Challenges and Opportunities			
13 to 14:45	AI Challenges in Radiology	Dr. Alireza Shakiba Fard	Radiologist
	Evolution of Artificial Intelligence in Radiology	Mr. Behzad Amanpour	AI
	Common Methods of Artificial Intelligence in Radiology	Dr. Vafaei Sadr	AI
	New Methods of Artificial Intelligence in Radiology	Dr. Henning Mueller	AI
	Artificial Intelligence Opportunities in Diagnostic Radiology	Dr. Hamidreza Saligheh Rad	Physicist
Panel Title: MRI in Diagnosis and Treatment of Prostate Cancer			
15 to 17:45	Introduction to Prostate Cancer	Dr. Mahyar Ghafouri	Radiologist
	MRI in Prostate Cancer from Urologist Point of View	Dr. Mohammadreza Norouzi	Urologist
	Role of Multi Parametric MRI in Prostate Cancer	Dr. Mahyar Ghafouri	Radiologist
	External Radiotherapy of Prostate Cancer	Dr. Hadi Molana	Radiation Oncologist
	MR-Linac in Prostate Cancer	Dr. Rabi Mahdavi	Physicist
	Pitfalls of MRS and Multi Parametric MRI in Prostate Cancer	Dr. Mostafa Robot Jazi	Physicist
	Brachytherapy of Prostate Cancer	Dr. Mehdi Aghili	Radiation Oncologist
	Application of MRI in Prostate Cancer Brachytherapy	Dr. Ramin Jaberi	Physicist
	MR-Guided EBRT and Brachytherapy in Treatment of Prostate Cancer	Dr. Akbar Beiki	Physicist

Friday 26th August 2022



Third Day – First Hall

(Amphitheater – Capacity: 300 People)

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: MRI Application in Cervical Cancer Brachytherapy			
18 to 19:45	Clinical Needs of Radiation Oncologist in Cervical Cancer Treatment	Dr. Marzieh Gomar	Radiologist
	Role of MRI in Diagnosis of Cervical Cancer	Dr. Mehrouz Malek	Radiation Oncologist
	MRI Role in Cervical Cancer Brachytherapy	Dr. Ramin Jaberi	Physicist
	MR-Guided Brachytherapy in Treatment of Cervical Cancer	Dr. Akbar Beiki	Physicist

Third Day – Second Hall

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: ACR MRI Accreditation			
8 to 9:45	Introduce of acr Accreditation Guidelines for Brain mri	Ms. Manijeh Pakravan	Medical Physicist
	Brain MRA and ACR Practice Parameters	Mr. Vali Shahabian	Medical Physicist
	ACR Practice Parameter for Performance of the (fMRI) Brain	Ms. Fatemeh Mohammadian	Medical Imaging Specialist
	ACR Quality Assurance Protocol for Diffusion Tensor Imaging	Ms. Forough Sodaei	Medical Imaging Specialist

Friday 26th August 2022

Third Day – Second Hall



Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: Neuroimaging in Neuro-oncology			
10 to 11:45	Presurgical Evaluation in Neuro-oncology	Dr. Aidin Omidvar	Neurosurgeon
	Technical Aspect of fMRI in Neuro-oncology Evaluation	Mr. Amir Eftekhari	MRI Application Specialist
	Technical Aspect of MRS and PWI in Neuro-oncology Evaluation	Mr. Vahid Shahmaei	MRI Application Specialist
	Technical aspect of DTI and Tractography in Neuro-Oncology Evaluation	Mr. Amir Eftekhari	MRI Application Specialist
Lunch time			
Panel Title: MR Angiography Clinics and Techniques			
13 to 14:45	MR Angiography Clinics	Dr. Sahar Asl Falalh	Cardiologist
	MR Angiography Techniques	Ms. Nazanin Sahraei	Technologist
	4D-flow	Dr. Nahardani	Physicist
Panel Title: Recent Advances in Cardiac MRI			
15 to 17:45	Advanced Imaging (T1 and T2 Mapping)	Mr. Hasan Fatehi	Technologist
	CMR Imaging in Patients with Arrhythmia	Dr. Golnaz Houshmand	Cardiologist
	Clinical Usage of Advanced CMR Imaging	Dr. Ali Mohammad Zadeh Dr. Amir Azimi	Radiologist
	Clinical Usage of Stress CMR	Mr. Kianoosh Kasani	Technologist
	Optimizing Cardiac MR Imaging: Practical Remedies for Artifacts	Mr. Kianoosh Kasani	Technologist

Friday 26th August 2022



Third Day – Second Hall

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: Abdomen MRI Imaging Considering Timing and Artifact Reduction			
18 to 19:45	New Techniques in Abdomen MRI	Mr. Mohsen Shojaei Moghaddam	Technologist
	Enterography and Angiography MRI Techniques in Abdomen	Mr. Ahmadreza Shoaie	Technologist
	Abdomen MRI Imaging Considering Timing and Artifact Reduction	Ms. Maryam Farsi	Technologist

Third Day – Third Hall

Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: Application of AI in MR Data Generation			
8 to 9:45	Introduction to Generative Models	Dr. Shahriar Faghani	AI in Radiology
	Super Resolution	Dr. Bardia Khosravi	AI in Radiology
	Generation of Missing MR Sequences	Dr. Mana Moassefi	AI in Radiology
	Inpainting	Dr. Pouria Rouzrokh	AI in Radiology
	Biases in Generative Models	Dr. Shahriar Faghani	AI in Radiology

Friday 26th August 2022

Third Day – Second Hall



Time	Title of lecture, workshop ...	Name and surname of the lecturer	Lecturer specialty
Panel Title: fMRI			
10 to 11:45	Introduction to BOLD fMRI: From Physiology to Physics	Dr. Batuli	MRI Physicist
	Task vs Resting state fMRI: Pros and Cons	Dr. Arash Zare Sadeghi	Biomedical Engineering
	fMRI at Higher Spatial and Temporal Resolutions	Dr. Vahid Malekian	MRI Physicist
	fMRI Non-BOLD	Dr. Atena Akbari	MRI Physicist
	fMRI in Clinical Applications	Dr. Aydin Taghilu	Neuroradiologist
Lunch time			
Panel Title: Applications of AI and MRI in Cancer Research			
17 to 18:45	Introduction to AI in Cancer Research	Dr. Pouria Rouzrokh	AI in Radiology
	Breast Cancer Detection	Mr. Behzad Amanpour	Medical Engineering
	Discrimination of Trueprogression vs. Pseudoprogession in Glioblastoma	Dr. Mana Moassefi	AI in Radiology
	Survival Prediction of Glioblastoma Patients	Dr. Shahriar Faghani	AI in Radiology
	Biases in Using AI for Cancer Research	Dr. Pouria Rouzrokh	AI in Radiology



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