IR 2022

Final Program

Radiology & AI: The Horizon on Approach افقی نو در رادیولوژی با هوش مصنوعی

19-22 July, 2022

۲۸ تا ۳۱ تیر ماه ۱۴۰۱

Milad Tower Convention Center

مرکز همایش‌های بین‌المللی برج میلاد تهران

سی و هفتمین کنگره رادیولوژی ایران

37th Iranian Congress of Radiology

نوزدهمین کنگره علوم پرتونگاری ایران

19th Iranian Congress of Radiographic Sciences Association

In The Name of God

37TH IRANIAN CONGRESS of RADIOLOGY

19TH IRANIAN CONGRESS of RADIOGRAPHIC SCIENCES ASSOCIATION

General Information

Venue

International Conference Center of Tehran Milad Tower, Tehran, Iran

Organizer

37th Iranian Congress of Radiology (ICR 2022) is organized by the Iranian Society of Radiology.

Date

July 19-22, 2022

Language

The language of the congress is English and Persian
Secretariat Registration
Registration fee includes: 5000,000 Rial

- Admission to scientific sessions and commercial exhibition

Scientific Program Secretarial

Assistance and information regarding the scientific program will be provided by secretariat at conference center lobby.

Speaker Ready Room

The slide preview room is located in lobby at the east (left) side of the main hall. Lecturers are requested to submit their presentations at least 30 minutes before their session. The presentation should be in Power Point 2003 format. The files should be in portable media format supplied in flash-disk or CD.

VIP Room

The VIP room (Molavi Hall) is available for all ICR2022 speakers on -1/B1 floor at Conference Center.

Electronic Posters

This year we only accept posters in electronic format. All posters should be prepared in PowerPoint 2016 format similar to a regular lecture presentation but with more description to let them be used stand-alone. Posters will be displayed in a specific site at lobby on several workstations.

Congress Badge

Participants are requested to always wear their badges. The badges contain a bar-code which will be used for registering your entrance into the halls and also restaurants.

Workshop Registration

Workshops need separate registration. workshop schedule will be available at www.37.icrad.ir

Meals

Coffee break will be available daily at 10:30-11:00, 16:00-16:30 and lunch at 13:00-14:00.

Technical Exhibition

A technical exhibition will take place at the Conference Center, sufficient time during intermissions is reserved for visiting the booths of leading sponsors (Medical Engineering Companies), which present their latest achievements and give you ample expert information.

Society Booth

The Iranian Society of Radiology booth is located on ground floor. Application forms and general information for membership are available. It provides membership services, information and an opportunity to pay annual dues for the society.

Morteza Sanei Taheri, MD

President,
Iranian Society of Radiology

Welcome message-ISR President*

Dear Colleagues and distinguished guests, welcome to the 37th ICR! I am cordially glad to make the acquaintance of all of you in here after 3 years of virtual congresses and Corona lock down.

Although during the past 3 years our society has pioneered in web based academic programs and vocational training schemes through its various scientific committees and faculty, the merits of a real congress and its potential to cover various aspects of the science of imaging is now appreciated. I take this opportunity to thank all members of the Iranian Society of Radiology for their devoted and relentless service in the diagnosis and treatment of patients during the pandemic which genuinely reflected the level of professional commitment among our colleague's radiologists, and technologists included.

Our thoughts with our lost colleagues in the past year (Prof. Akbar Bonakdarpour, Prof. Saeed Rad, Dr. Shahram Kahkouei, Prof. Javad Jannati) and our tribute to their outstanding contributions in our previous scientific events. I also feel most obliged about the martyrs of our healthcare system (especially radiologists) who made the ultimate sacrifice in the line of duty during the COVID outbreak.

I am honored to have Prof. Radmard as the president of the present congress who works with a panel of most renowned faculty as members of our scientific committees to make our congress as fruitful as possible.

We have endeavored to cover mainstream educational needs of radiologists in all aspects of this discipline as well as the latest information on Artificial Intelligence and legal issues related to digital imaging

I hope you find the academic and nonacademic programs of this congress satisfying and I welcome your feedbacks or points of view on educational and professional issues during the congress.

Amir Reza Radmard, MD

President of
the 37th Iranian Congress of Radiology
(ICR 2022)

Dear colleagues,
It is my great honor to invite you to the 37th Iranian Congress of Radiology (ICR 2022) to be held on July 19-22, 2022, in Tehran, Iran.
Although the pandemic crisis had a negative impact on all of us, it demonstrated the strength of our society. We not only did not give up but stayed united in support of each other to fight at the forefront against the pandemic. While the tremendous impact of the COIVD-19 crisis made our society cancel the face-to-face meetings in 2020 and 2021, we, like many other international meetings, planned to set up an in-person congress again featuring onsite activities from the world of medical imaging.
Following more than three decades of experience, the 37th annual ICR is planned to cover all different aspects of radiology, including four main themes of Abdominal Imaging, Breast Imaging, Artificial Intelligence, and Interventional Radiology, to offer a comprehensive program on the latest innovations in imaging and treatment to the medical imaging professionals. Radiology has witnessed impressive advancements in Iran over the past years. Currently, it is contributing to a wide spectrum of services from screening and early diagnosis to advanced patient management and treatment. The scientific committee of ICR 2022 is preparing a rich program that participants can fully engage and be part of the learning. In line with the latest updates in the scientific program, some new sessions and features will be launched in the congress including "Young ICR",, and "Jeopardy Quiz" which will greatly attract the participants in an interactive and motivating multidisciplinary environment.
Once again, the congress venue will be the International Convention Center at Milad Tower, Tehran, as one of famous Iran's landmarks. The health and well-being of our guests, registrants, and staff is our top priority; therefore, we will, of course, monitor the COVID-19 situation closely and follow all government-recommended quarantine guidelines.
I am confident that the ICR 2022 will provide excellent opportunities for the participants to meet other colleagues and learn, interact and engage with speakers and industry representatives. I am very much looking forward to welcoming you and wishing you a wonderful experience at ICR 2022 in Tehran.
Sincerely,

Amir Reza Radmard, MD
President of ICR 2022

Habib Mazaher, MD

Honorary President,
37th Iranian Congress of Radiology

After a long period of the covid-19 pandemic and worldwide restrictions, I am glad to see you again in ICR37.

It's my honor to welcome you, dear speakers and participants, to this congress, either in conference halls, or through the world with the assistance of web based programs.

Rapid advancements of radiology sciences in recent decades, lead us to more vigorous effort and practice to maintain our knowledge and gain new information. Here, the 37th Iranian congress of radiology is a good opportunity for these purposes. The last advances in abdominal imaging, breast imaging, artificial intelligence and interventional radiology are reviewed with more detail. Other fields in radiology also have valuable lectures and workshops during the congress.

I should announce my gratitude to dear Dr. Radmard, the president of the congress and also to the scientific and executive committees, the wise lecturers in every field and everyone involved in the execution of this congress.

Morteza Afra

President of the Iranian Association of Radiographic Sciences

Dear Colleagues

Welcome to 19th Iranian congress of Radiographic Sciences Association.
On behalf of the President of IRSA, please accept my best wishes for this scientific, informative and enjoyable event.
The medical world has made great strides in the last decade, and imaging has always played a major role in these advances.
Following the outbreak of the Covid-19 corona virus, the important role of imaging (especially CT scan, as the best way to diagnose the disease) was clearly identified. IRSA and the Scientific Committee of the Nineteenth Congress, in spite of this epidemic and the existing limitations, have made every effort to increase the knowledge of radio professionals and to share the capabilities of their colleagues.
Diagnostic radiography is an art and science in which many sub-disciplines are being developed, and radiotechnologists, as a qualified and reliable diagnostic radiograph, must have the necessary information from all the different methods and tools in the field of medical imaging. To be.
Through this conference, we want to engage with all of you in a constructive discussion about the effective and undeniable role of medical imaging in the diagnosis and treatment of diseases. Thus, the Scientific Committee of the Congress, with great effort and care, reviewed the submitted papers and shared the best of them in separate sections such as articles, lectures and posters, which I hope will be useful to all participants.
I would like to thank Dr. Morteza Sanei Taheri, President of ISR, for all the cooperation of the two associations in holding the Congress.
The IRSA and ISR Scientific Committees have made great efforts to improve the scientific level of Congress, and it is commendable.
I congratulate you on your commitment and active participation and wish you all success.

Mohamad Akbarnejad, MS

Director, 19th Iranian congress of Radiographic Science Association

Dear colleagues,

As the president and scientific secretary of the conference, I am pleased and honor to welcome you to the 19th congress of Radiographic sciences.

At this congress there has been an attempt to educate and improve relative techniques and various test approaches to imaging in order to develop the knowledge and capabilities of colleagues.

Moreover, having considered the rapid pace of growth and evolutions in the field of medical imaging and the need for acquaintance with modality, technique and new applications, the latest guidelines to recent radiography worldwide will be introduced.

Therefore, the Congress has gathered a team of the best medical imaging physicists and applicator specialists along with the country's top-notch radiography experts to represent talks and judging the presented articles.

The congress mainly deals with Abdominal and Breast Imaging, vascular and Interventional Radiology, and Artificial intelligence in Radiology, with particular focus on establishment and innovative performance in Medical imaging for to achieve the best diagnosis

Advisory Committee of 37th ICR

(alphabetical order)

Hosein Ghanaati

Masoumeh Gity

Hassan Hashemi

Ali Hekmatnia

Maryam Rahmani

Hadi Rokni

Nahid Sedighi

Ali Shakoori Rad

Hashem Sharifian

SCIENTIFIC COMMITTEE OF ICR 2022

(alphabetical order)

Nasrin Ahmadinejad, MD

Cancer Research Institute, Imam Khomeini Hospital
Advanced Diagnostic and Interventional Radiology Research Center (ADIR), Tehran University of Medical Sciences (TUMS), Tehran, Iran

Alireza Abrishami, MD

Assistant Professor of Radiology, Department of Radiology, Shahid Labbafinejad hospital,Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Leila Aghaghazvini, MD

Associate Professor of Radiology. Shariati hospital. Tehran University of Medical Sciences,Tehran, Iran

Mortaza Ashrafi, MD, M.S

Medical Ethics department, Faculty of Medicine,
Iran University of Medical sciences.
Chief of department of Radiology,
Hazrateh Fatemeh Hospital, Iran University of Medical sciences, Tehran, Iran

Seyed Morteza Bagheri, MD

Assistant Professor of Radiology,
Iran University of Medical Sciences, Tehran, Iran

Mohammad Hadi Gharib, MD

Assistant professor of radiology
Golestan university of medical sciences, Golestan , Iran

Sepehr Haghighi, MD

Radiologist,Children Medical Centre of excellence, Tehran University of Medical Sciences (TUMS), Tehran, Iran

Hamidreza Haghighatkhah, MD

Professor of radiology
Shahid Beheshti university of medical sciences, Tehran , Iran

Sara Haseli, MD

Assistant Professor of Radiology
Shahid Beheshti University of Medical Sciences, Tehran, Iran

Hassan Hashemi, MD

Professor ofRadiology
Tehran University of Medical sciences
Head of Radiology Department

Fariba Hashemi, MD

Radiologist, Tehran, Iran

Ghazaleh Jamalipour Soofi, MD

Assistant Professor, Isfahan University of Medical Sciences, Isfahan. Iran

Peyman Kamali Hakim, MD

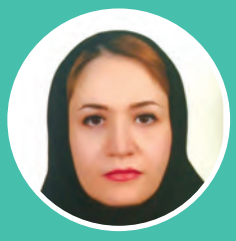
Tums certified Radiologist (MD_MPH)
Head of general education committee of ISR

Mohammadali Kazemi .MD

Associate Professor of Radiology, Tehran University of Medical Sciences, Tehran. Iran

Mahrooz Malek, MD

Associate professor of Radiology,Imam Khomeini Hospital,Medical Imaging Center,TUMS, Tehran, Iran



Neda Pak, MD

Associate Professor Of Radiology, Children Medical Centre of excellence, Tehran University of Medical Sciences (TUMS), Tehran, Iran

Alireza Rasekhi, MD

Shiraz University of Medical Sciences, Shiraz ,Iran

Morteza Tahmasebi, MD

Jundishapour University of Medical Sciences,Ahvaz ,Iran

Faeze Salahshour, MD
Associate Professor of Radiology
Tehran University of Medical sciences, Tehran, Iran

Alireza Shakibafard, MD
Shiraz University of Medical Sciences,Shiraz ,Iran

Ladan Younesi, MD
Associate professor of Radiology, Iran university of medical sciences, Shahid Akbarabadi hospital, Tehran, Iran

SCIENTIFIC COMMITTEE OF IRSA 2022

(Alphabetically Ordered)

Mohammad Akbarnejad,MSc
Mohammad Hossein Aseman Rafat, MSc
Ahmad Bitarafan, PhD
Fariborz Faeghi,PhD
Hasan Fatehi, MSc
Javad Ghasemi,BSC
Ramin Jaberi, PhD
Asghar Maziar, PhD
Ali Mohammadzadeh,MD
Hossein Mozdarani, PhD
Fatemeh Pakniyat, PhD
Hamidreza Pouraliakbar,MD
Majid Roshanfekr, BSC
Ali Shabestani Monfared, PhD
Mohsen Shojaei Moghadam, MSc
Shayar Saramad, PhD
Mansour Tayebi, PhD

GOLD MEDALISTS OF ICR 2022

Mehrdad Bakhshayesh Karam

Mehrzad Mehdizade

Alireza Shakibafard

Ali Shakouri Rad

37TH
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کنگره رادیولوژی ایران
37th Iranian Congress of Radiology
IR 2022

CERTIFICATE OF APPRECIATION FOR DEDICATED CONTRIBUTION

Vahid Karimi

IR 2022

SPONSORS OF ICR 2022

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Tuesday

	Main Hall (Hafez)	Sadi / 150	Roodaki / 150	Hall 1 / 60	Kamalol Molk / 40	Hall 3 / 60	Hall 4 / 100	Hall 5 / 100	Hall 7 / 60	VIP / 90	Shahriar
07:30-08:30	Bo Rev-1										
08:30-10:30	OB-1	GU-1	Pre. Quiz			WS	Cardio Thoracic-1	H&N-1	Int-1		
11:00-13:00	Breast-1	GI-1	Neuro-1	WS WS	SP-1	WS	Young ICR-1	AI	Int-2	OB WS	
13:00-14:00	Bo Rev-2										
14:00-16:00	GYN-1	GU-2	Quiz	Int WS			Ped-1	Neuro-2	Int-3	WS	
16:00-17:00		Bo Rev-3	WS				Tech		Int-4		
17:00-19:00	OC										

Wednesday

	Main Hall (Hafez)	Sadi / 150	Roodaki / 150	Hall 1 / 60	Kamalol Molk / 40	Hall 3 / 60	Hall 4 / 100	Hall 5 / 100	Hall 7 / 60	VIP / 90	Shahriar
07:30-08:30	Bo Rev-4										
08:30-10:30	OB-2	GU-3	MSK-1	Tech	SP-2	Tech	Ped-2	AI-2	Int-5	WS	
11:00-13:00	Breast-2	GI-2	GYN-2	WS	SP-3	Tech	Tech	AI-3	Int-6	WS	
13:00-14:00	Bo Rev-5										
14:00-16:00	OB-3	GI-3	H&N-2	Tech		WS	Cardio Thoracic-2	Tech	Int-7	WS WS	Mentor Meeting
16:30-18:30	Breast-3	GYN-3	Tech				Young ICR-2	Tech	WS	WS	
18:30-19:30		Bo Rev-6									

Thursday

	Main Hall (Hafez)	Sadi / 150	Roodaki / 150	Hall 1 / 60	Kamalol Molk / 40	Hall 3 / 60	Hall 4 / 100	Hall 5 / 100	Hall 7 / 60	VIP / 90	Shahriar
07:30-08:30	Bo Rev-7										
08:30-10:30	OB-4	MSK-2	Tech			Tech	Neuro-3	Young ICR-3	Int-8	WS	
11:00-13:00	Breast-4	GI-4	Tech	WS WS		Tech	Cardio Thoracic-3	GYN-4	Int-9	OB WS	
13:00-14:00	Bo Rev-8										
14:00-16:00	Jeopardy Quiz	Tech	Tech				MSK-3	Breast-5	Int-10	WS	
16:30-18:30	ISR GA		IRSA GA								
19:00-20:00	ICR Grand Ceremony										

Friday

	Main Hall (Hafez)	Sadi / 150	Roodaki / 150	Hall 1 / 60	Kamalol Molk / 40	Hall 3 / 60	Hall 4 / 100	Hall 5 / 100	Hall 7 / 60	VIP / 90	Shahriar
07:30-08:30	Bo Rev-9										
08:30-10:30	Common Mistakes	MSK-4					Cardio Thoracic-4		Int-11	WS	
11:00-12:30	EL Panel	GI-5	IRSA CC				WS		Int-12	WS	
13:00-15:00											

GENERAL INFORMATION

OC:	Opening Ceremony
Bo Rev:	Board Review
Tech:	Technologist Session
OB:	Obstetrics Imaging
GYN:	Gynecologic Imaging
GU:	Genitourinary Imaging
GI:	Gastrointestinal Imaging
Ped:	Pediatric Imaging
H&N:	Head & Neck Imaging
SP:	Scientific Papers
MSK:	Musculoskeletal Imaging
EL Panel:	Ethicolegal Panel
AI:	Artificial Intelligence
Int:	Interventional Radiology
WS:	Workshop

انجمن رادیولوژی ایران

2022

Abdominal Imaging
Breast Imaging
Artificial Intelligence
Interventional Radiology

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IR 2022

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19-22 July, 2022

۲۸ تا ۳۱ تیر ماه ۱۴۰۱

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19 JULY 2022 | Tuesday

سه‌شنبه ۲۸ تیرماه ۱۴۰۱

Hall Hafez (Main)

Session	Board Review I
07:30-08:30	• Hossein Ghanaati

Session	OB I (Screening and Anomaly Scan)
	Chairs: • Ahmadreza Tahmasebpour • Hamidreza Haghighatkhah • Behnaz Moradi
08:30	Measurement of Fetal NT in the Era of fcDNA, Considering Other Important Points of First Trimester Screening Ultrasound • Ahmadreza Tahmasebpour
08:50	Soft Markers of Second Trimester: Ultrasound and NIPT • Hojatollah Khajepour
09:10	Imaging of Fetal Gastero-intestinal Abnormalities • Violet Adib
09:30	Approach to Prenatal Diagnosis of Skeletal Dysplasia • Ensi Khalili Pooya
09:50	Prenatal Diagnosis of Congenital Diaphragmatic Hernia • Hamidreza Haghighatkhah
10:10	Fetal Kidney: Size and Echogenicity • Kourosh Shahsavan

10:30-11:00 Coffee Break

Session	Breast I
	Chairs: • Donya Farrokh • Nasrin Ahmadinejad • Masoumeh Gity
11:00	Abbreviated and Ultrafast Breast MRI in Clinical Practice • Masoumeh Gity
11:30	Microcalcification on Mammography: Approach to Interpretation and Management • Donya Farrokh
12:00	Breast Ultrasound ACR Lexicon • Niusha Minoo
12:30	Digital Breast Tomosynthesis: Update on Technology, Evidences and Clinical Practice • Amin Astani

13:00-14:00 Lunch

Session	Board Review II
13:00-14:00	• Ali Radmehr

Session	GYN I
	Chairs: • Sepideh Sefidbakht • Morteza Tahmasebi • Elham Keshavarz
14:00	Update Ultrasound Criteria for Polycystic Ovarian Syndrome • Elham Keshavarz
14:25	Ultrasound in the Evaluation of Abnormal Uterine Bleeding • Sepideh Sefidbakht
14:50	Ultrasound Evaluation of Gynecologic Causes of Pelvic Pain • Morteza Tahmasebi
15:15	Update in Pelvic Inflammatory Disease • Mahrooz Malek
15:40	Adnexal Masses (What's Benign What's Malignant) • Fariba Alikhani

16:00-16:30 Coffee Break

17:00-19:00 **Opening Ceremony**

Hall Sadi

Session	GU I (Renal Imaging)
	Chairs: • Babak Salevatipour • Alireza Abrishami • Makhtoom Shahnazi
08:30	Last Update in Bosniak Classification of Cystic Renal Masses • Alireza Abrishami
09:00	Imaging Approach of Indeterminate Renal Masses • Babak Salevatipour
09:30	Imaging of Renal Trauma • Behzad Aminzadeh
10:00	CT Evaluation of Renovascular Disease • Payman Family

10:30-11:00 Coffee Break

Session	GI I (Pancreatobiliary Imaging)
	Chairs: • Hazhir Saberi • Hadi Rokni Yazdi
11:00	Acute Pancreatitis Standardized Reporting • Babak Salevatipour
11:20	Focal Pancreatitis or Pancreatic Tumor? • Amir Davarpanah (USA)
11:45	Imaging of Hilar Cholangiocarcinoma • Niloofar Ayoubi Yazdi
12:10	Imaging of Bile Duct Injury • Niloofar Ayoubi Yazdi
12:35	Biliary Strictures (Benign vs. Malignant) • Maryam Farghadani

13:00-14:00 Lunch

Session	GU 2 (General Genitourinary Imaging)
	Chairs: • Shahram Akhlaghpour • Daryoush Saedi • Mohammad Davoudi
14:00	Ultrasound-guided Genitourinary Interventions: Tips and Strip • Shahram Akhlaghpour
14:30	Imaging the Adrenal Mass • Daryoush Saedi
15:00	Imaging of Hematuria • Adeleh Dadkhah
15:30	Imaging of the Inguinofemoral Region Disease • Hoda Asefi

Session	Board Review III
16:00-17:00	• Mehrzad Lotfi

Hall Roodaki

Session	Resident Quiz I
08:30-10:30	Chairs: • Ghazaleh Jamalipour Soofi • Sepehr Haghighi • Fariba Hashemi

10:30-11:00 Coffee Break

Session	Neuro I Brain Tumor Imaging: Bridging Innovation & Practice Chairs: • Hassan Hashemi • Morteza Sanei Taheri • Helen Nayyeri
11:00	Neuro-oncology MRI Protocols (Multi-Parametric Imaging of Brain Tumors) • Shervin Sharif Kashani
11:20	Recent Advances in Neuroimaging of Adult Brain Tumors • Mahyar Mohammadifard
11:45	Perfusion Imaging, DTI and fMRI Application for Pre-surgical Brain Tumor Planning (Case Presentation) • Hassan Hashemi
12:10	Pediatric Posterior Fossa Tumors; Discussion on Radiomic Features in Brain Multi-Parameter MRI to Predict Molecular Subgroups of Medulloblastoma • Helen Nayyeri
12:30	Postoperative Brain in Brain Tumor Surgery: Expected vs. Suspicious Findings • Golnaz Izadi

13:00-14:00 Lunch

Session	Resident Quiz II Chairs: • Ghazaleh Jamalipour Soofi • Sepehr Haghighi • Fariba Hashemi
14:00	Judging Panel: • Hassan Hashemi • Nahid Sadighi • Kaveh Samimi • Mahyar Mohammadifard

Session	Vendor Workshop (Hirad Teb)
16:00	O-RADS Ultrasound & MRI Case Based Radiologist-Gynaecologist Correlation • Mahrooz Malek • Sara Parviz • Firoozeh Sadat Hashemi

Hall # I

Session	Workshop
11:00	Diagnostic Approach to Mediastinal Masses • Fariba Alikhani

Session	Vendor Workshop (Pishrafteh (GE.Co))
12:00	Color Doppler Sonography of Lower Extremity Varicose Veins • Mehrzad Lotfi

13:00-14:00 Lunch

Session	Vendor Workshop (Takapoteb)
14:00	Breast Intervention Workshop Series: - MRI Guided Breast Biopsy - Pre-operative Lesion Localization - Should I Insert a Marker at the Biopsy Site? - Stereotactic Guided Breast Biopsy • Amin Astani

16:00	How to Make Wire and Marker for Breast and Extraction of Foreign Bodies by Guide of Imaging • Azim Motamedfar

Hall Kamalolmolk

Session	SP I • Zahra Ghomi • Arash Khameneh Bagheri
11:00	One-to-Many U-Net Model for Medical Image Segmentation • Author: Mostafa Ghelich Oghli
11:08	Q&A
11:10	An Efficient Strategy for the Breast Tumor Segmentation in Ultrasound Images Based on Improved Mask R-CNN Model • Author: Mostafa Ghelich Oghl
11:18	Q&A
11:20	Design and Fabrication of ZnO-Bi2O3-P2O3 Phosphate Radio Protective Glass • Author: Fatemeh Moradi
11:28	Q&A
11:30	Iron Oxide-based Targeted Core/Shell Nano-contrast Agent for Magnetic Resonance Imaging • Author: Reza Malekzadeh
11:38	Q&A
11:40	An Artificial Intelligence-based Algorithm for Segmentation and 3D Visualization of Pancreatic Ductal Adenocarcinoma and Surrounding Vessels in CT Images • Author: Tahereh Mahmoudi
11:48	Q&A
11:50	Polyethylene Glycol Coated Manganese Oxide/Gold Nanocomposite for Dual Modal MRI/CT and Investigation of Loading Capacity of 5-Fluorouracil • Author: Tohid Mortezazadeh
11:58	Q&A
12:00	Evaluation of the Performance of Lodine Load Reduction at Low kVp CT Protocol • Author: Rezvan Ravanfar Haghighi
12:08	Q&A
12:10	Feature Tracking Technique and Quantifying Biventricular Strain Pattern in Ebstein's Anomaly; A Case-Control Study in Iran • Author: Mohammad Ali Mohammadi Vajari
12:18	Q&A
12:20	Cerebral Venous Sinus Stenting for Resistant Idiopathic Intracranial Hypertension (IIH), an Experience on 15 Patients • Author: Mohammad Karimi
12:28	Q&A
12:30	Evaluation the Ability of Emotional Inhibition in Patients with Frontal Lobe Lesions Using fMRI Before and After Operation • Author: Zahra Farshidfar
12:38	Q&A
12:40	Role of Arterial Spin Labeling in Alzheimer's disease • Author: Vahid Shahmaei
12:48	Q&A
12:50	Differentiation of Tumoral and Nontumoral Lesions in Cervical Cord and Brainstem by Tractography • Author: Aidin Taghiloo
12:58	Q&A

13:00-14:00 Lunch

Hall # III

Session	Workshop
09:30	LI-RADS Workshop • Arvin Aryan

10:30-11:00 Coffee Break

Session	Vendor Workshop Head & Neck (Tanasateb)
11:00	Thyroid Nodules: UP to FNA • Leila Aghaghazvini • Sheida Javadi • Mohammad Davoodi

13:00-14:00 Lunch

Session	Tech
14:00	Screening Mammography with Additional Views • Nasrin Ahmadinejad • Soheila Koopaee
15:00	Contrast Media

Hall # IV

Session	Cardiothoracic I Chairs: • Payam Mehrian • Soheila Zahirifard • Mehrdad Bakhshayesh Karam
08:30	Imaging Features of COVID-19 on Chest Radiographs and CT Images and Change in COVID-19 Findings over Time • Payam Mehrian
08:50	Fibrotic Interstitial Lung Diseases • Soheila Zahirifard
09:10	Non-Fibrotic Interstitial Lung Diseases • Soheila Zahirifard
09:30	Fibrotic Pneumoconiosis • Mehrdad Bakhshayesh Karam
09:50	Non- Fibrotic Pneumoconiosis • Mehrdad Bakhshayesh Karam
10:10	Sarcoidosis from Head to Toe: What the Radiologist Needs to Know • Marzieh Alinejad

10:30-11:00 Coffee Break

Session	Young ICR I Chairs: • Ali Hekmatnia • Alireza Abrishami • Taraneh Faghihi
11:00	• Saeed Mardpour • Mina Salehi • Samira Soleimani • Zahra Mahboubi • Ehsan Ranjbar • Fatemeh Ghiasi • Mohammad Ghorbani • Mahshid Bahrami • Ghazaleh Amjad • Neda Azin • Marzieh Alinejad

13:00-14:00 Lunch

Session	Pediatric Chairs: • Neda Pak • Maryam Riahinejad
14:00	Technical Points and Interpretation of MRCP and Ultrasound in Pediatric Biliary Disorders • Neda Pak
14:30	Imaging Approach in Pediatric Abdominopelvic Masses • Mitra khalili
15:00	Pediatric Abdominal Doppler Ultrasound, What Radiologists Needs to Know • Maryam Riahinejad
15:30	Age Based Imaging Approach to Pediatric Bowel Obstruction • Parisa Hajalioghli

Session	Tech
16:00	Assessment of Hemorrhage in Brain MRI • Navid Sarmast Alizadeh

Hall # V

Session	H&N I (Paranasal Sinuses)
	Chairs: • Hashem Sharifian • Mohammad Ali Kazemi
08:30	Red Flags in Reporting of PNS CT Scan • Maryam Mohammadzadeh
09:00	Panel: Fungal Infections: Which Points to Report? Moderator: • Mohammad Ali Kazemi (Radiologist) --- • Mehrdad Hasibi (Infectious disease specialist) • Shirin Irani (ENT Surgeon)
10:00	Key Points of Reporting in Post PNS Surgeries • Hashem Sharifian

10:30-11:00 Coffee Break

Session	AI I: The basic
	Chairs: • Mansoor Fatehi • Ashkan Sami
11:00	AI, Human Computer Interaction • Zohreh Azimifar
11:30	How Clinical Data Can be Prepared for AI Research and Development? • Mansoor Fatehi
12:00	From Data to Deployable AI-based Systems in Radiology • Ashkan Sami
12:30	Why AI Is Harder Than We Think • Alireza Shakibafard

13:00-14:00 Lunch

Session	Neuro II
	Chairs: • Ali Hekmatnia • Reza Bakhshandehpour • Dayan Amanian • Rouzbeh Shams Amiri
14:00	Anatomy and Nomenclature of Cervical and Lumbar Degenerative Disease • Fatemeh Hosseinabadi
14:20	Important Features of Mechanical Instability and Facet Degeneration • Reza Bakhshandehpour
14:45	Focus on Spinal Stenosis • Farnaz Godazandeh
15:05	Alarm Features in Routine Spine Images; Do Not Neglect Concurrent Infection or Tumor, A Case Discussion Presentation • Soheila Borji
15:25	What a Neurosurgeon Wants in Spine Imaging Reports • Rouzbeh Shams Amiri

Hall # VII

Session	Intervention I (Neurointervention: Embolization)
	Chair: • Hossein Ghanaati
08:30	Different Between Phill and Onyx in Treatment of AVM • Rambod Salouti
08:50	Dural AVF • Mohammad Gharib Salehi
09:10	Endovascular Treatment of Central Aneurysm of Brain • Hossein Ghanaati
09:30	Endovascular Treatment of AVMs • Ramin Pourghorban
09:50	Q&A

10:30-11:00 Coffee Break

Session	Intervention II (Neurointervention: Strictures & Stenting)
	Chair: • Rambod Salouti
11:00	Cervical Carotid • Mohammad Reza Ahrabi
11:20	Intracranial Stent • Rambod Salouti
11:40	Vertebral Artery + Steal Syndrome • Mohammad Reza Ahrabi

12:00	Ischemic Stroke (Role of IR) • Mohammad Gharib Salehi
12:20	Q&A

13:00-14:00 Lunch

Session	Intervention III (Head and Neck Interventions) Chair: • Hojjat Ebrahimi Nik
14:00	FNA and Biopsy: Indications-method • Farzad Moradhaseli
14:20	Parathyroid Tumors: Ablation of Metastatic L.N • Hossein Chegini
14:40	Embolization of Head and Neck Tumors • Mohammad Reza Sasani
15:00	Cystic Thyroid Lesions: Approach– Treatment • Hossein Chegini
15:20	Thyroid RF Ablation: Indication, Method, Outcome • Hojjat Ebrahimi Nik
15:40	Q&A

Session	Intervention IV (Cardiothoracic IR) Chair: • Shahram Akhlaghpour
16:00	Bronchial Artery: Hemoptesis • Ramin Pourghorban
16:10	Pulmonary Artery: AVM, AML. Embolization • Hamid Mojibian
16:20	SVC Syndrome • Kiara Rezaei Kalantari
16:30	Lung Biopsy • Mohammad Momen Gharibvand
16:40	Lung Nodule Ablation • Bita Abbasi
16:50	Management of the Pulmonary Thromboembolism • Hamid Mojibian

Hall # VIP

Session	Vendor Workshop (Takvin Teb)
11:00	Next Step Evaluation in Presence of Soft Markers in Anomaly Scan • Kourosh Shahsavan

13:00-14:00 Lunch

Session	Workshop (Tajhiz Gostaresh Sina)
14:00	Liver Mass • Faeze Salahshour

-2 Floor, Poster Exhibition Site

Session	# Quiz of the Day Head: • Fariba Hashemi Moderators: • Sepehr Haghighi • Ghazaleh Jamalipour Soofi
12:00	Case 1
	Case 2
	Case 3

lenovo
FUJIFILM

20 JULY 2022 | Wednesday

چهارشنبه ۲۹ تیرماه ۱۴۰۱

Hall Hafez (Main)

Session	Board Review IV
07:30	• Mohammad Kazem Tarzamni

Session	OB II (Comprehensive Evaluation of Fetal CNS)
	Chairs: • Behnaz Moradi • Leila Bayani • Amirhossein Hashemiattar
08:30	Sonographic Examination of the Fetal CNS (Basic CNS Scan of Second Trimester) • Mahyar Mohammadifard
08:50	Advanced CNS Examination (Second Trimester Neurosonography) • Sara Parviz
09:10	Abnormal Shape of the 4th Ventricle & Related Posterior Fossa Malformations • Ahmadreza Tahmasebpour
09:30	Evaluations of Fetal Corpus Callosum • Behnaz Moradi
09:50	First Trimester Neurosonography • Leila Bayani
10:10	The Diagnostic Features of Spina Bifida: Role of Ultrasound • Narges Afzali

10:30-11:00 Coffee Break

Session	Breast II
	Chairs: • Nahid Sadighi • Masoumeh Raoufi • Nasrin Ahmadinejad
11:00	Breast MRI ACR Lexicon • Khadijeh Bakhtavar
11:25	New Indications for MRM: Occult Cancer, Nipple Discharge and Other Special Clinical Scenarios • Nahid Sadighi
11:50	Breast Imaging Case Review • Maryam Rahmani
12:15	Breast Panel: (When do You Request Breast MRI and What to Expect?) Moderator: • Nahid Sadighi • Maryam Rahmani • Arvin Aryan • Khadijeh Bakhtavar • Ramesh Omranipour

Session	Board Review V
13:00-14:00	• Mahyar Ghafouri

Session	OB III
	Chairs: • Zeinab Safarpour Lima • Mohammad Kazem Tarzamni • Mohammad Taghi Taghi
14:00	Spectrum of Placenta Accreta Disorders • Mahrooz Malek
14:20	Early Pregnancy Complications • Fatemeh Hosseinabadi
14:40	Ectopic Pregnancy: Diagnosis and Interventions • Zeinab Safarpour Lima
15:00	Multiple Pregnancy (Role of Ultrasound in Twin Pregnancy) • Morteza Tahmasebi
15:20	Diagnosis and Management of Small for Gestational Age Fetus and Fetal Growth Restriction • Ayda Roostaee
15:40	Role of Ultrasound in Screening for and Follow-up of Preeclampsia Including New Ultrasound Markers (Ophthalmic Artery Doppler) • Mohammad Kazem Tarzamni

16:00-16:30 Coffee Break

Session	Breast III
	Chairs: • Nasrin Ahmadinejad • Zahra Mahboubi • Masoumeh Salamati
16:30	Breast Mammography ACR Lexicon • Fahimeh Zeinalkhani
17:00	Breast Imaging Case Review (Tomosynthesis) • Nasrin Ahmadinejad
17:30	Missed Breast Cancer on Mammogram • Simin Alerasoul
18:00	Role of Radiologist in Treatment Planning of Breast Cancer: Updates and Current Challenges • Arvin Aryan

Hall Sadi

Session	GU III (Imaging of Lower Genitourinary System)
	Chairs: • Mahyar Ghafouri • Mohammad Hadi Gharib • Ahmad Enhesari
08:30	PI-RADS and MRI / Ultrasound Fusion Prostate Biopsy • Mahyar Ghafouri
09:00	Use of Artificial Intelligence for Prostate Cancer Detection based on PI-RADS Classification • Mohammad Hadi Gharib
09:30	Practical Points in the Prostate Biopsy • Mohammad Kazem Tarzamni
10:00	Imaging of Scrotal Masses and the Role of Scrotal MRI • Mohammadreza Hosseini

10:30-11:00 Coffee Break

Session	GI II (Colorectal Imaging)
	Chairs: • Alireza Dehghan • Gholamali Hamed Barghi • Reza Nafisimoghaddam
11:00	Imaging of Perianal Fistula • Hamid Reza Haghighatkhah
11:25	Rectal Cancer Staging • Alireza Dehghan
11:50	Rectal Cancer Re-staging • Amir pejman Hashemi Taheri
12:15	MR Defecography • Faeze Khorasanizade
12:35	Colon Cancer, Screening to Follow up • Manije Ataee

Session	GI III (Intestinal Imaging)
	Chairs: • Arvin Aryan • Pooneh Dehghan • Nematollah Nematollahi
14:00	Imaging Role in GI bleeding • Omid Ghaemi
14:20	Crohn Disease Imaging (MRE) • Arvin Aryan
14:45	Imaging of Malabsorption • Nematollah Nematollahi
15:10	Imaging of Mesenteric Ischemia • Pooneh Dehghan
15:35	Bowel Obstruction • Behrouz Zandi

16:00-16:30 Coffee Break

Session	GYN III
	Chairs: • Shima Ghafurian • Behnaz Moradi • Ahmad Soltani Shirazi
16:30	Imaging Uterine Fibromas Benign or Malignant (What Radiologist Needs to Know) • Behnaz Moradi
16:55	Imaging the Endometrial Cancer (New Aspects) • Shima Ghafurian
17:20	Imaging the Uterine Cervix Cancer (What Radiologist Needs to Know) • Ahmad Soltani Shirazi
17:45	Panel of GYN Cancer: What Radiologist Has to Know in Gynecological Tumors (Cased Base) • Mahrooz Malek • Behnaz Moradi • Shima Ghafurian • Ahmad Soltani Shirazi • Setare Akhavan • Mitra Mohit

Session	Board Review VI
18:30-19:30	• Hamidreza Haghighatkhah

Hall Roodaki

Session	MSK I (Imaging in Bone Metastasis)
	Chairs: • Ali Radmehr • Ali Hekmatnia • Hassan Hashemi
08:30	Radiologic Assessment of Bone Metastasis (CT scan and MRI) • Parham Pezeshk
08:50	Top Topics to Reduce Metal Artifacts in CT and MRI • Omid Ghaemi
09:10	Hybrid Imaging in Bone Metastasis • Mehrdad Bakhshayesh Karam
09:30	Dixon Imaging • Sara Parviz
09:50	Conventional Bone Scintigraphy for Bone Metastatic Survey • Abtin Doroodinia
10:05	Imaging in Malignant and Benign Osseous Tumors • Ali Radmehr

10:30-11:00 Coffee Break

Session	GYN II
	Chairs: • Firoozeh Ahmadi • Roohangiz Kamankesh • Nazanin Farshchian
11:00	Update Uterine Anomalies (3D Ultrasound & MRI) • Firoozeh Ahmadi
11:25	Update Endometrio-myometrial Disease Related to Infertility (Importance of Imaging) • Roohangiz Kamankesh
11:50	Update Ovarian Imaging in Infertility • Morteza Tahmasebi
12:15	Infertility Panel: Management of Infertile Woman (Imaging Importance) • Elham Keshavarz • Firoozeh Ahmadi • Roohangiz Kamankesh • Morteza Tahmasebi • Mehri Mashayekhi

13:00-14:00 Lunch

Session	H&N II (Oropharyngeal Tract Lesions: How We Report Them) Chairs: • Jalal Jalalshokouhi • Shervin Sharif kashani • Mohammad Ali Kazemi
14:00	Oral Cavity: Tongue, Sublingual, and Alveolar Ridge • Fahimeh Azizi Nik
14:30	Oral Cavity: Buccal and Palate • Shervin Sharif Kashani
15:00	Nasopharynx and Oropharynx • Maryam Mohammadzadeh
15:30	Hypopharynx and Esophagus • Jahanbakhsh Hashemi

16:00-16:30 Coffee Break

Session	Tech
16:30	New Advanced Quantitative Methods in Abdominal MR Imaging • Vahid Shahmaei
17:30	Orthopedic Protocols in CT Scan • Mohamadhossein Aseman Rafat

Hall # I

Session	Tech
08:30	Machine Learning and Radiomics in Radiology • Ahmad Bitarafan
09:30	AI (Artificial Intelligence) in Imaging • Shahyar Saramad • Saeid Setayeshi

10:30-11:00 Coffee Break

Session	Workshop
11:00	Diagnostic and Therapeutic Interventional Radiology in Lung Cancer and Mediastinal Masses • Mehran Malekshoar

13:00-14:00 Lunch

Session	Tech
14:00	Breast imaging Contrast Enhanced MRM Protocols, Breast Mammography and Stereotactic Vacuum Assisted Biopsy • Maryam Jafari • Shahrzad Dadgari • Effat Sheydaian • Ghasideh Ravan Bakhsh

Hall Kamalolmolk

Session	SP II Chairs: • Mehrnam Amouei • Dina Jalalvand
08:30	The Value of Ultrasound-Guided Core Needle Biopsy in Differentiating Benign from Malignant Salivary Gland Lesions • Author: Javid Azadbakht
08:37	Q&A
08:39	Lung Contusion, A Covid 19 Pneumonia Mimicker • Author: Behzad Aminzadeh
08:46	Q&A
08:48	Ultrasound Findings in Tethered Cord Patients Before and After Surgery • Author: Behzad Aminzadeh
08:55	Q&A
08:57	Evaluation of Disease Activity in Rheumatoid Arthritis Patients Based on Ultrasound Findings • Author: Behzad Aminzadeh
09:04	Q&A

09:06	Pregnancy Rate in Intrauterine Insemination, Is Uterine Biophysical Profile of Predictive Value? A Prospective Study • Author: Javid Azadbakht
09:13	Q&A
09:15	Comparing Carotid Artery Intima-Media Thickness Between Preeclamptic, Healthy Pregnant and Non-Pregnant Women • Author: Javid Azadbakht
09:22	Q&A
09:24	Comparing Carotid Artery Intima-Media Thickness in Women with Polycystic Ovary Disease with That of Age-Matched Healthy Women • Author: Nazanin Farshchian
09:31	Q&A
09:33	Evaluation of Relationship between Fetal Thalamus Echogenicity by Ultrasound and Neonatal Lung Maturity • Author: Saeed Naghibi
09:40	Q&A
09:42	Ultrasound Visibility of Appendix Submucosal Layer and Its Correlation with Appendicitis Complications in Patients with Acute Appendicitis • Author: Nazanin Farshchian
09:49	Q&A
09:51	A Comparative Survey of the Doppler Indices of Uterine Artery in Pregnant Women with and without History of Previous Abortion(S) • Author: Nazanin Farshchian
09:59	Q&A
10:01	To Determine the Diagnostic Value of First Trimester Uterine Artery PI for Prediction of Abortion or IUFD • Author: Fatemeh Yarmahmoodi
10:08	Q&A
10:10	Decreased Pulmonary Artery Bifurcation Angle: A Novel Imaging Criterion for the Diagnosis of Chronic Pulmonary Thromboembolism • Author: Bita Abbasi
10:17	Q&A
10:19	Clinical Significance of the Biliary Findings in MR Enterography of Patients with Inflammatory Bowel Disease • Author: Sara Momtazmanesh
10:26	Q&A

10:30-11:00 Coffee Break

Session	**SP III** Judging Panel: • Leila Aghaghazvini • Mehrdad Dadgostar • Mohammadali Karimi • Majid Shakiba
11:00	Comparison of Predictive Value of Helsinki Computerized Tomography Scoring System, Rotterdam and Stockholm in Long-term Outcome Prediction in Patient with Traumatic Brain Injury • Reyhane Faghihi
11:10	Q&A
11:12	Fast-Unet++: A Novel Deep Learning Based Approach for Kidney Dimension Measurement Using Ultrasound Images • Author: Mostafa Ghelich Oghli
11:22	Q&A
11:24	Automatic Diagnosis of Liver Steatosis by Calculation Hepato-renal Index in Ultrasound Images Using Deep Learning • Author: Mostafa Ghelich Oghl
11:34	Q&A
11:36	A Novel Approach to Breast Tumor Classification in Ultrasound Images Based on the Improved Inception-V3 Model • Author: Mostafa Ghelich Oghli
11:46	Q&A
11:48	An Artificial Intelligence-based Algorithm for Segmentation and 3D Visualization of Pancreatic Ductal Adenocarcinoma and Surrounding Vessels in CT Images • Tahereh Mahmoudi
11:58	Q&A

12:00	Comparative Study of Liver Fibrosis Staging and Grading by MRI(DWI) and Biopsy • Author: Saeed Naghibi
12:10	Q&A
12:12	Cascade-Net: A Deep Learning-based Framework for Auto-segmentation of Prostate and Organs at Risk in Ultrasound Images for High-dose Rate Brachytherapy • Author: Eman Showkatian
12:22	Q&A
12:24	Correlation of Chest CT and MRI in Staging Pulmonary Morphological Changes in Cystic Fibrosis Patients • Javid Azadbakht
12:34	Q&A
12:36	MRI Evaluation of the Symmetry of the Levator Veli Palatini Muscle Among a Noncleft Palate Population • Author: Neda Tahmasebifard
12:46	Q&A
12-48	Using Deep Learning Networks for Classification of Lung Cancer Nodules in CT Images • Author: Mohamad Ali Javadzade
12:58	Q&A

13:00-14:00 Lunch

Hall # III

Session	Tech
08:30	Neurospine MRI Trips & Tricks • Ali Saeedi

10:30-11:00 Coffee Break

Session	Tech (CT SCAN & Artificial Intelligence Session) Chairs: • Shahyar Saramad • Ahmad Bitarafan • Ali Mohammadzadeh • Asghar Maziar
11:00	Optimization of Mammography Image in Conventional and Digital Mammography Device in the Conditions Used by the Device in Tabriz • Mahdi Khalilneghad
11:15	A New Method for Estimating of Patient Effective Dose in Computed Tomography Angiography: Based on Body Mass Index and Dose Length Product • Mohammad Hossein Jamshidi
11:30	Machine Learning Algorithms in Classification and Staging of Glioma Tumors Using Magnetic Resonance Imaging (MRI) • Zahra Papi
11:45	Preparation and Evaluation of Shell-core Nanoparticles of Bismuth Oxide and Pegylated Iron Oxide to Improve Imaging for Myocardial Infarction • Mohamadreza Kordani
12:00	CT Dose Management and Related Cancer Risk Estimation During COVID-19 Outbreak • Mostafa Robatjazi

13:00-14:00 Lunch

Session	Workshop
14:00-16:00	Imaging of Traumatic Brachial and Sacral Plexus Injuries: Interesting Tricky Cases • Reza Alizadeh

Hall # IV

Session	Ped II
	Chairs: • Fatemeh Zamani • Mehrzad Mehdizadeh
08:30	Imaging Approach and Ultrasound in Pediatric Hydronephrosis and Microlithiasis • Mehrzad Mehdizadeh
09:00	Technical Points and Interpretation of MRU in Pediatric Urinary System Anomalies • Fatemeh Zamani
09:30	What is Important in Imaging of Pediatric Precautious Puberty? • Elham Zarei
10:00	Scrotal Ultrasound in Paediatrics • Amirreza Jahanshahi

10:30-11:00 Coffee Break

Session	Tech
11:00	Cardiac MRI Essentials Technologist • Sanaz Asadian • Kianoosh Kasani • Parham Rabiei
12:00	Cardiac MRI without Contrast, T1 and T2 Mapping • Ali Mohammadzadeh • Hasan Fatehi • Golnaz Houshmand

Session	Cardiothoracic II
	Chairs: • Mehrzad Lotfi • Mehrdad Bakhshayesh Karam • Taraneh Faghihi
14:00	Spectral CT: From Basic to Clinical Applications in Thoracic Imaging) • Mehrzad Lotfi
14:25	Imaging of Lung Cancer: Implications on Staging and Management (Updates in TNM Staging) • Alireza Dehghan
14:50	LDCT Lung Cancer Screening • Masoumeh Raoufi
15:15	Approach to Solitary Pulmonary Nodule (SPN) • Taraneh Faghihi
15:40	Role of PET/CT in Management of Early Lung Cancer • Mehrdad Bakhshayesh Karam

10:30-11:00 Coffee Break

Session	Young ICR II
	Chairs: • Alireza Abrishami • Taraneh Faghihi • Ali Hakmatnia
16:30	• Ebrahim Ghanei • Amir Afraz Fallah • Rana Eftekhar Vaghefi • Zahra Ghomi • Hoda sadat Sharif • Fariba Alikhani • Nazanin Sadraei • Nooshin Miratashi • Sedigheh Rahmani • Mahsa Karbasi • Arash Khameneh Bagheri

Hall # V

Session	AI I: AI & MI
	Chairs: • Jalal JalalShokouhi • Hamid Soltanianzadeh
08:30	Data Processing for AI in Medicine • Hamid Soltanianzadeh
09:00	From Data to AI, COVID Example • Sattar Hashemi
09:30	AI in Medicine, What to Watch out • Ashkan Sami
10:00	Integration of AI Solutions into Daily Radiological Workflow • Mansoor Fatehi

10:30-11:00 Coffee Break

Session	AI III: Specific Radiological Applications Chairs: • Mojtaba Ebrahimi • Alireza Shakibafard
11:00	AI in Ultrasound, Perspective & Challenges • Mostafa Ghelich Oghli
11:30	AI Applications in Musculoskeletal Imaging • Mansoor Fatehi
12:00	AI Applications, Mobile & Web Based • Alireza Shakibafard

13:00-14:00 Lunch

Session	Tech (Radiobiology & Radiation Protection) Chairs: • Hossein Mozdarani • Ali Shabestani Monfared • Mahmoodreza Aghamiri • Ramin Jaberi • Fatemeh Paknyiat • Mansour Tayebi
14:00	Lifetime Attributable Breast Cancer Risk Related to Lung CT Scan in Women with Covid19 • Atefeh Tahmasebzadeh
14:20	Investigation of Absorbed Dose and Estimation the Risk of Secondary Thyroid Cancer in Whole Brain Radiotherapy • Mahtab Ahmadi
14:40	Investigation of the Mitigation Effect of Spirulina Against on Rat's Heart Tissues • Mohammad Hootan Ahmadvand
15:00	The Effect of Geometric Parameters of Lead Grid on Dosimetric Characteristics of External Radiotherapy Using Electron Beam of a Medical Linear Accelerator • Kamran Entezari
15:20	Radiation Dose Reduction of Breast Using Lead Apron During the Head Scanning: A Computed Tomography Technique • Fatemeh Asghari
15:40	Q&A

16:00-16:30 Coffee Break

Session	Tech
16:30	Low Dose Occupational Exposure and the Risk of Trans-generational Radiation Induced Genome Instability • Hossein Mozdarani
17:00	What We Need for Breast Imaging in Radiation Oncology? • Ali Shabestani Monfared
17:30	New Softwares in Medical Imaging

Hall # VII

Session	Intervention V (GI) Chair: • Hadi Rokni Yazdi
08:30	GI Bleeding: Indication for Angiography IR • Amin Abolhassani Foroughi
08:50	Cirrhotic Patient's and Bleeding • Hadi Rokni Yazdi
09:10	TIPS • Alireza Rasekhi
09:30	Interventional Treatment of Hemangioma • Hadi Rokni Yazdi
10:10	Ethics in IR • Hossein Ghanaati

10:30-11:00 Coffee Break

Session	Intervention VI (GYN Intervention) Chair: • Azim Motamedfar
11:00	Cystic Ovarian Lesions and Endometriomas • Fariba Zarei
11:15	Ablation of Fibroids (Non Vascular) • Shahram Akhlaghpour
11:30	Collection and Tubal Interventions • Azim Motamedfar

11:45	UFE • Hamidreza Haghighatkhah
12:00	How to Manage and How to Avoid Complications • Amin Astani
12:15	Acquired Enhanced Endometrial Vascularity • Amin Abohlhassani Foroughi
12:30	Q & A

13:00-14:00 Lunch

Session	Intervention VII (GU Interventions)
	Chair: • Aliireza Rasekhi
14:00	Post-Surgical or Post-Traumatic Bleeding • Abbas Ayoub
14:15	Tumor Ablation • Masoud Pezeshki Rad
14:30	Hematuria of Bladder Origin • Alireza Sattar
14:45	Pelvic Congestion (IR) • Mohammad Reza Babaei
15:00	Scrotal Varices • Ali Fani
15:15	Ureteric Interruption • Alireza Rasekhi
15:30	Q&A

16:00-16:30 Coffee Break

Session	Vendor Workshop (Arayeh Zisti)
16:30-18:30	Varices Clinic Workshop How to Manage A Varices Clinic? A – Z Vein Interventions How to Visit the Patient? How to Have Varix Clinic • Shahram Akhlaghpour

Hall # VIP

Session	Vendor Workshop (Arya Ghalb Pishro Co.)
08:30	Vacume Assisted Breast Biopsy Workshop • Nasrin Ahmadinejad

10:30-11:00 Coffee Break

Session	Vendor Workshop (Payonparto)
11:00	Thyroid Nodules: After FNA • Hashem Sharifian • Mohammad Ali Kazemi • Hojjat Ebrahimi Nik • Mohammad Shirkhoda (Oncosurgeon) • Seyed Mohammad Tavangar (Pathologist) • Farzad Yazdani Biucki (Pathologist) • Kayvan Aghazadeh (ENT Surgeon) • Mehrshad Abbasi (Nuclear Medicine) • Farahnaz Salehinia (Endocrinologist)

Session	Workshop
14:00	Intracranial Meningeal Enhancement Characterization; A Case- Based Review • Morteza Sanei Taheri • Zahra Mahboubi
15:00	Brain Cases: Game for Applications of DWI, DTI, DSC, MRS, SWI • Ali Hekmatnia • Mina Salehi

16:00-16:30 Coffee Break

Session	Vendor Workshop (Takapooteb Co.)
16:30	Osteoporosis • Mansoor Fatehi

-2 Floor, Poster Exhibition Site

Session	# Quiz of the Day
	Head: • Fariba Hashemi Moderator: • Ghazaleh Jamalipour Soofi • Sepehr Haghighi
08:00	Case 4
	Case 5
	Case 6

Hall Shahriar

Session	Mentor Meeting
15:00	

21 JULY 2022 | Thursday

پنجشنبه ۳۰ تیرماه ۱۴۰۱

Hall Hafez (Main)

Session	Board Review VII
7:30	• Hamidreza Pouraliakbar

Session	OB IV
	Chairs: • Elham Keshavarz • Morteza Sanei Taheri • Reza Gerami
08:30	How to Obtain the Best Image of Four Chamber View, Outflow Tracts and 3 Vessel Tracheal View & Thymus Gland • Mohammad Ali Karimi
08:50	Atrial, Ventricular and Atrioventricular Septal Defects • Amirhossein Hashemi Attar
09:10	Outflow Tracts Abnormalities • Morteza Sanei Taheri
09:30	Fetal Heterotaxy and Situs Inversus • Reza Gerami
09:50	Anomalies of Pulmonary Venous Connections • Reza Gerami
10:10	Right Aortic Arch, Double Aortic Arch and Aberrant Subclavian Artery • Elham Keshavarz

10:30-11:00 Coffee Break

Session	Breast IV
	Chairs: • Masoumeh Gity • Toktam Beheshtian • Elham Neshan
11:00	A Primer on Imaging of Molecular Subtypes of Breast Cancer • Sepideh Sefidbakht
11:25	Non Mass Findings at Breast Ultrasound: Definitions, Classifications and Differential Diagnosis • Maryam Farghadani
11:50	High Risk Lesions • Farid Azmoodeh Ardalan
12:05	Breast Panel: Management of BIRADS 3 High Risk Lesions Moderator: • Masoomeh Gity • Nasrin Ahmadinejad • Ali Arab Kheradmand • Abdol Ali Asarian • Farid Azmoudeh Ardalan

Session	Board Review VIII
13:00-14:00	• Mahyar Mohammadifard

Session	Jeopardy Quiz
14:00	Moderator: • Peyman Kamali Hakim

Session	ISR General Assembly
17:00	

Session	ICR Grand Ceremony
19:00	

Hall Sadi

Session	MSK II (Imaging in Sport Injuries-upper Limb (part 1))
	Chairs: • Leila Aghaghazvini • Mahrooz Malek • Reza Nafisimoghadam
08:30	Imaging in Traumatic Muscle Injuries • Alireza Shakibafard
08:45	Imaging in Shoulder Impingement, An Update • Ghazaleh Jamalipour Soofi
09:05	Imaging in Rotator Cuff Lesions in Athletes • Reza Nafisi Moghaddam
09:25	Imaging in Shoulder Instability in the Young Adult • Seyed Hassan Mostafavi
09:45	Panel Discussion: Clinicoradiological Correlation Case-based Discussion in Shoulder Imaging Moderator: • Leila Aghaghazvini Panel Members: • Seyed Hassan Mostafavi • Leila Zanjani • Nima Bagheri • Mohadese Azadvary

10:30-11:00 Coffee Break

Session	GI IV (Liver Imaging)
	Chairs: • Reza Javad Rashid • Arvin Aryan • Shahram Akhlaghpour
11:00	Benign Liver Lesions (FNH vs. Adenoma) • Faeze Salahshour
11:25	Approach to Nodules in the Cirrhotic Liver and HCC • Faeze Salahshour
11:50	Cystic Liver Lesions • Reza Javad Rashid
12:15	Evaluation of Normal Post-ablation Cavity and Residual Tumor • Mohammadhosein Ahrar Yazdi
12:40	Liver Elastography (Vendor Speech)

Session	Tech
14:00	Time Resolved MRA • Fariborz Faeghi

16:00-16:30 Coffee Break

Hall Roodaki

Session	Tech
08:30	Cardiac CTA Coronary & Congenital • Marzieh Motevali • Mohammad Akbarnejad • Kianoosh Kasani • Nahid Rezaeian

10:30-11:00 Coffee Break

Session	Tech
11:00	TAVI CT Angiography • Hamidreza Pouraliakbar
12:00	CT Venography Direct and Indirect Injection • Kiara Rezaei • Ali Hosseini

13:00-14:00 Lunch

Session	Tech
14:00	Dose Management in CT Scan • Masoud Sadrnia • Hossein Farahnak
15:00	Adernal Ct Scan • Javad Ghasemi
Session 16:30-18:30	**IRSA General Assembly**

Hall # I

Session	Vendor Workshop (Axon Dielectric)
11:00	Updates in Bone Densitometry • Alireza Ehsanbakhsh
12:00	Imaging Approach to Sellar and Supra-sellar Lesions: Interactive Case Presentation • Hamidreza Haghighatkhah • Mohammadali Karimi

13:00-14:00 Lunch

Hall # III

Session	Tech (MRI Session) Chairs: • Majid Roshanfekr • Mohsen Shojaei Moghadam • Hamidreza Pouraliakbar • Fariborz Faeghi • Manizheh Pakravan
08:30	Early Detection of Cognitive Disorders Using QSM Technique: At What Stage Does Iron Deposition Begin? • Farzaneh Nikparast
08:45	Feasibility Evaluation of Synthetic Diffusion-Weighted MRI in Patients with Brain Tumor in Comparison with Conventional Diffusion-Weighted MRI • Vahid Shahmaei
09:00	Review of a Quality Control Period of MRI 1.5T Along with Designing a Software for Recording and Reporting Results • Iman Azinkhah
09:15	Brain MRI Techniques and Clinical Findings in Patients with COVID-19 • Samad Hasani
09:30	Cost-efectiveness and Limitations of Ischemia Detection by Cardiac Magnetic Resonance Imaging • Mohammad Hossein Jamshidi
09:45	Introduction to Electrical Properties Tomography: A New MR-based Method • Vahid Shahmaei
10:00	Review and Evaluation of Different Software Packages for Perfusion (DCE) MRI Analysis • Iman Azinkhah
10:15	Q&A

10:30-11:00 Coffee Break

Session	Tech (MRI Session)
11:00	Synthesic MRI • Mohsen Shojaei Moghadam
12:00	Clinical Applications of Advanced MRI Techniques in Female Pelvic Study • Maryam Farsi • Mahrooz Malek

13:00-14:00 Lunch

Hall # IV

Session	Neuro III (Intracranial Vessel Wall Imaging and Perfusion Imaging; What is NEW?)
	Chairs: • Hamid Reza Haghighatkhah • Ahmad Alizadeh • Mohammad Hadi Gharib
08:30	Introduction to Intracranial VWI Imaging Technique/How-to do's/Basic Image Interpretation • Mohammad Soltani
08:55	The Role of VWI in Acute Stroke, Cryptogenic Stroke and Vasculopathy Differentiation and Evaluation of Aneurysms: Its Integration Into Work Flow • Maryam Haghighi Morad
09:20	Novel Applications of Perfusion Imaging in Neuroradiology • Mohammad Hadi Gharib
09:45	Stroke Work-up: Beyond Our Classic Radiologic Concepts • Nematollah Nematollahi

10:30-11:00 Coffee Break

Session	Cardiothoracic III
	Chairs: • Hamidreza Pouraliakbar • Marzieh Motevalli • Ali Mohammadzadeh
11:00	Cardiac Indications and Application of Cardiac MRI • Sanaz Asadian
11:30	Case-based Approach to PH Cases • Parham Rabiee
12:00	Cardiac Manifestations of Coronavirus (COVID-19) • Hamidreza Pouraliakbar
12:30	Cardiac CT for Protocol with Emphasis on the Coronary Calcium Score • Kiara Rezaei Kalantaria

13:00-14:00 Lunch

Session	MSK III Imaging in Sport Injuries-upper Limb (Part 2)
	Chairs: • Seyed Hassan Mostafavi • Reza Alizadeh
14:00	Imaging in TFCC • Mohammadreza Movahedi
14:20	Imaging in Overuse Injuries of the Elbow • Sepehr Haghighi
14:40	Imaging in Wrist Instability • Masih Rikhtegar
15:00	Panel: Radiologist-Orthopedic Surgeon Case-based Panel Discussion in Wrist and Hand Imaging Moderator: • Reza Sadeghi Panel Members: • Farimah Noorbakhsh • Farid Najd Mazhar • Aidin Arabzade

Hall # V

Session	Young ICR III
	Chairs: • Alireza Abrishami • Taraneh Faghihi • Ali Hekmatnia
08:30	• Behzad Aminzadeh • Arezoo Shafieioun • Mehrnam Amouei • Sara Besharat • Reza Naseri • Mahsa Masjedi • Hoda Asefi • Sepehr Haghighi • Saeedeh Shokri • Shadi Nouri • Manochehr Khatami

10:30-11:00 Coffee Break

Session	GYN IV
	Chairs: • Masoumeh Raoufi • Morteza Sanei Taheri • Morteza Tahmasebi
11:00	Endometriosis (What Gynecologist Wants to Know) • Azam Sadat Mahdavi (Gynecologist)
11:25	Update Ultrasound Protocol for Pelvic Endometriosis • Masoumeh Raoufi
11:50	Update MRI Features of Pelvic Endometriosis • Morteza Sanei Taheri
12:15	Panel Endometriosis: Discussion of Endometriosis Cases • Shima Ghafurian • Azam Sadat Mahdavi • Masumeh Raoufi • Morteza Sanei Taheri

13:00-14:00 Lunch

Session	Breast V
	Chairs: • Niusha Minoo • Masoumeh Salamati • Nasrin Ahmadinejad
14:00	Pregnancy-associated Breast Cancer and Other Breast Diseases • Behnaz Moradi
14:30	Approach to Axillary Lymph Node Staging and Sentinel Lymph Node Biopsy in Patients with Breast Cancer • Elham Keshavarz
15:00	Breast Implant Imaging (MRI and US) • Toktam Beheshtian
15:30	Idiopathic Granulomatous Mastitis: Multimodality Imaging and Pitfall • Elham Neshan

Hall # VII

Session	Intervention VIII
08:30	Panel Hepatic Locoregional Treatment of Malignancy • Alireza Rasekhi • Hazhir Saberi • Shahram Akhlaghpour • Masoud Pezeshki Rad • Javad Jallili • Ali Fani • Mohammad Saleh Jafarpisheh

10:30-11:00 Coffee Break

Session	Intervention IX (Biliary Interventions)
	Chairs: • Shahram Akhlaghpour
11:00	Preoperative Mapping of Biliary System by Imaging • Hesamoddin Shahbazi
11:15	PTBD • Mohammad Saleh Jafarpisheh
11:30	Benign Biliary Strictures • Arash Khameneh Bagheri
11:45	Malignant Biliary Strictures • Hazhir Saberi
12:00	Brachytherapy • Hazhir Saberi
12:15	Q & A

13:00-14:00 Lunch

Session	Intervention X (Central Venous Access)
	Chairs: • Alireza Rasekhi
14:00	Type of Double Lumen: Method of Insertion • Mohammad Reza Azimi Aval
14:15	Failure of Shunt: Management • Afshin Mohammadi
14:30	Cerebral Sinus Sampling • Javad Jallili

14:45	Biembolization • Alireza Sattar
15:00	Challenging Cases • Alireza Rasekhi

Hall # VIP

Session	Vendor Workshop (Noavaran Darman Atlas)
08:30-10:30	Hip Ultrasound in Pediatric DDH • Mehrzad Mehdizadeh

10:30-11:00 Coffee Break

Session	Vendor Workshop (Payonparto)
11:00-13:00	Evaluation of Fetal Heart • Reza Gerami • Elham Keshavarz

Session	Vendor Workshop (Tanasateb)
14:00-15:00	Liver Elastography • Mohammadkazem Tarzamni

-2 Floor, Poster Exhibition Site

Session	# Quiz of the Day Head: • Fariba Hashemi Moderator: • Ghazaleh Jamalipour Soofi • Sepehr Haghighi
08:00	Case 7
	Case 8
	Case 9

22 JULY 2022 | Friday

جمعه ۳۱ تیرماه ۱۴۰۱

Hall Hafez (Main)

Session	Board Review IX
7:30	• Nahid Sadighi

Session	Common Mistakes in Radiology: How to Avoid
	Chairs: • Mehrdad Bakhshayesh Karam • Amir Reza Radmard • Seyed Morteza Bagheri • Ahmad Reza Tahmasebpour • Morteza Sanei Taheri
08:30	Common Mistakes in Chest Imaging • Mehrdad Bakhshayesh Karam
08:50	Common Mistakes in GI Imaging • Amir Reza Radmard
09:10	Common Mistakes in GU Imaging • Seyed Morteza Bagheri
09:30	Common Mistakes in GYN Imaging • Morteza Sanei Taheri
09:50	Common Mistakes in OB Ultrasound • Ahmad Reza Tahmasebpour
10:10	Q&A

10:30-11:00 Coffee Break

Session	EL Panel
11:00-12:30	Main Topic: Digital Imaging
11:00	Introductory Lecture: Ethico-legal Aspects of Digital Imaging • Mansoor Fatehi Panelists: • Alireza Shakibafard • Mansoor Fatehi • Majid Reza Khalajzadeh • Mina Foroozandeh • Alireza Radpour • Mortaza Ashrafi

Hall Sadi

Session	MSK IV (Imaging in Sport Injuries-lower Limb)
	Chairs: • Pooneh Dehghan • Iraj Honarbakhsh • Seyed Hassan Mostafavi
08:30	Imaging in ACL Tear and Post-op (Radiologist-Orthopaedist Correlation) • Pooneh Dehghan • Mohammadreza Minator Sajjadi
08:55	Imaging in Meniscal Tear According ISAKOS Classification (Radiologist-Orthopedist Correlation) • Behzad Aminzadeh • Hamidreza Yazdi
09:25	Imaging in Groin Pain in Young Adults (Radiologist-Orthopedic Surgeon Correlation) • Mahrooz Malek • Mohammad Javad Mortazavi
09:50	Imaging in Ankle Pain (Radiologist-Orthopedic Surgeon Correlation) • Mehdi Karami • Gholamreza Naderi
10:15	Imaging in Patellofemoral Pain in the Young Adults • Fatemeh Karami

10:30-11:00 Coffee Break

Session	GI V (Miscellaneous)
	Chairs: • Nahid Sadighi • Mohammadkazem Tarzamni • Seyed Hassan Mostafavi
11:00	Nonmalignant Esophageal Disease • Nahid Sadighi
11:20	Portal Hypertension Doppler • Mohammadkazem Tarzamni
11:40	Imaging Approach to Gallbladder Polyp • Farhad Naleini
11:55	Abdominal Wall Hernia • Atousa Adibi
12:10	Acute Abdominal Pain After Gastrointestinal Procedures (ERCP, Endoscopy, Colonoscopy) • Seyed Hassan Mostafavi

Hall Roodaki

Session	Tech
11:00-12:30	IRSA Closing Ceremony

Hall # IV

Session	Cardiothoracic IV
	Chairs: • Taraneh Faghihi • Marzieh Motevali • Ramezan Jafari • Ali Mohammadzadeh
08:30	Carotid CT Angiography Based on Plaques Characterization and New Risk Stratification • Ali Mohammadzadeh
08:55	Coronary Anomalies: What The Radiologist Should Know • Taraneh Faghihi
09:20	Case Presentation of Cardiac Imaging • Marzieh Motevalli
09:45	Chest CT Imaging Features of COVID-19-Related Pulmonary Fibrosis: What the Radiologist Should Know • Ramezan Jafari
10:10	Atypical Manifestations of COVID-19 and Imaging Challenges • Amin Sabouri

10:30-11:00 Coffee Break

Session	Vendor Workshop (Payonparto)
11:00	Evaluation of Fetal CNS • Ahmadreza Tahmasebpour • Behnaz Moradi

10:30-11:00 Coffee Break

Hall # VII

Session	Intervention XI (MSK)
	Chairs: • Mohammad Reza Babaei
08:30	Disc Disease • Mohammad Reza Babaei
08:50	Cementoplasty and Kyphoplasty • Mohammad Reza Abedini
09:10	Embolization of Vertebral Tumor and Hemangioma • Mohammad Momen Gharibvand
09:30	Facet Block, Injection (Tendons, Joints) • Mohammad Reza Babaei
09:50	Osteoid Osteomas • Alireza Rasekhi
10:10	Q & A

10:30-11:00 Coffee Break

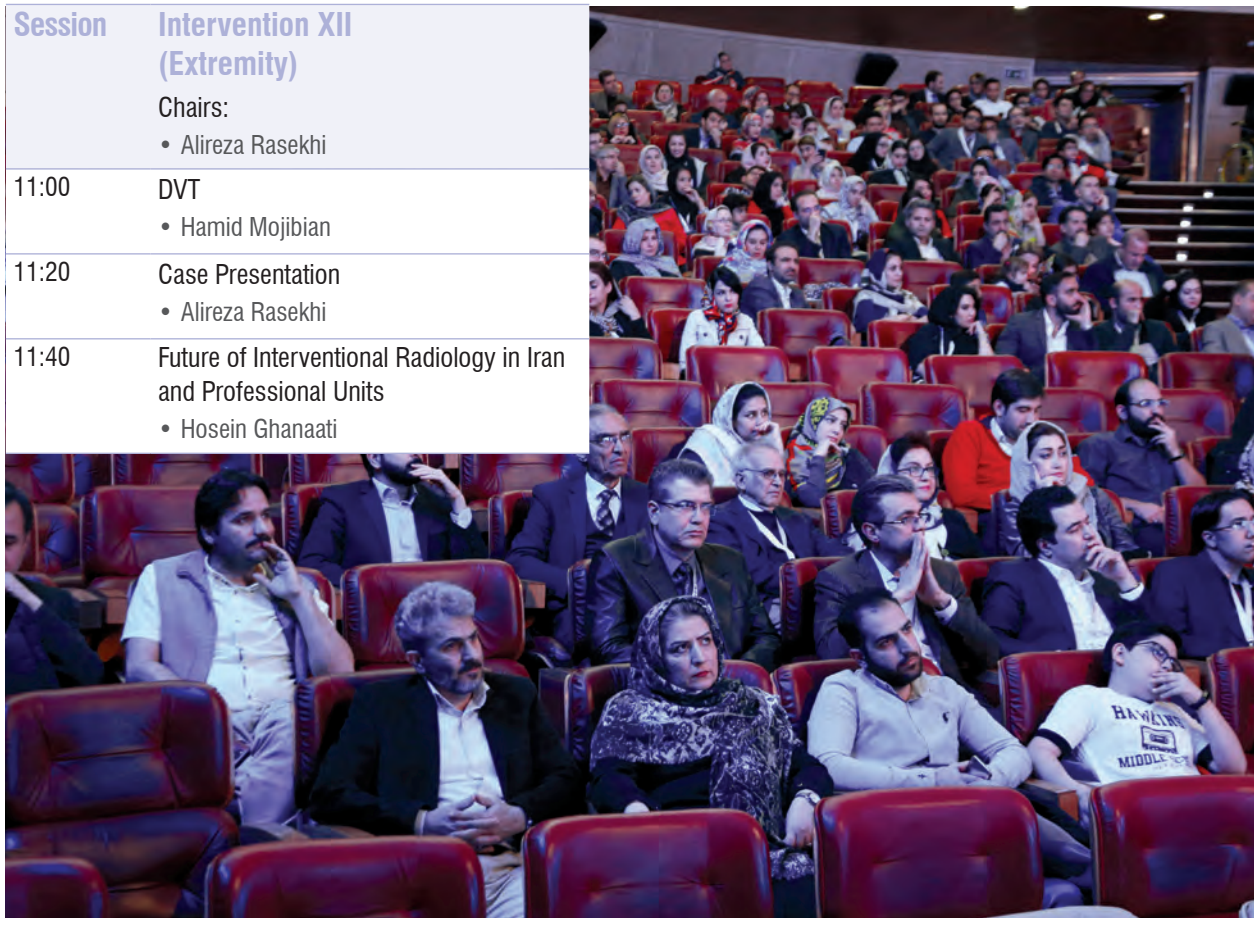
Session	Intervention XII (Extremity)
	Chairs: • Alireza Rasekhi
11:00	DVT • Hamid Mojibian
11:20	Case Presentation • Alireza Rasekhi
11:40	Future of Interventional Radiology in Iran and Professional Units • Hosein Ghanaati

Hall # VIP

Session	Vendor WS (Danesh Bonyan Takvin Co.)
09:30-10:30	Breast Intervention (Breast Tissue Wire & Marker Clip Insertion) • Elham Keshavarz

10:30-11:00 Coffee Break

Session	Vendor Workshop (Takapooteb)
11:00-12:00	Tomosynthesis • Masoumeh Gity



تپاک (تدارکات پزشکی ایران کالا)

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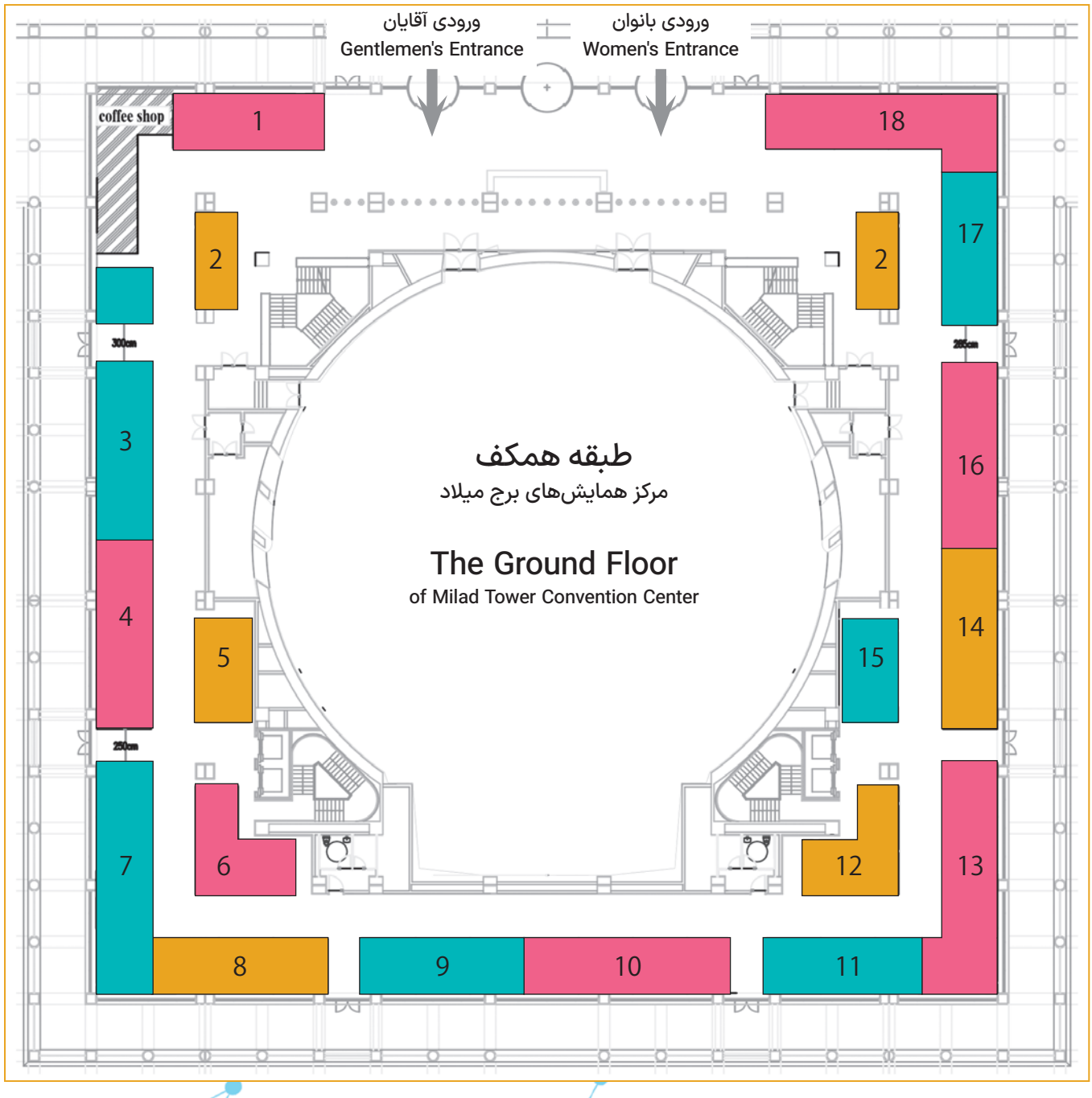

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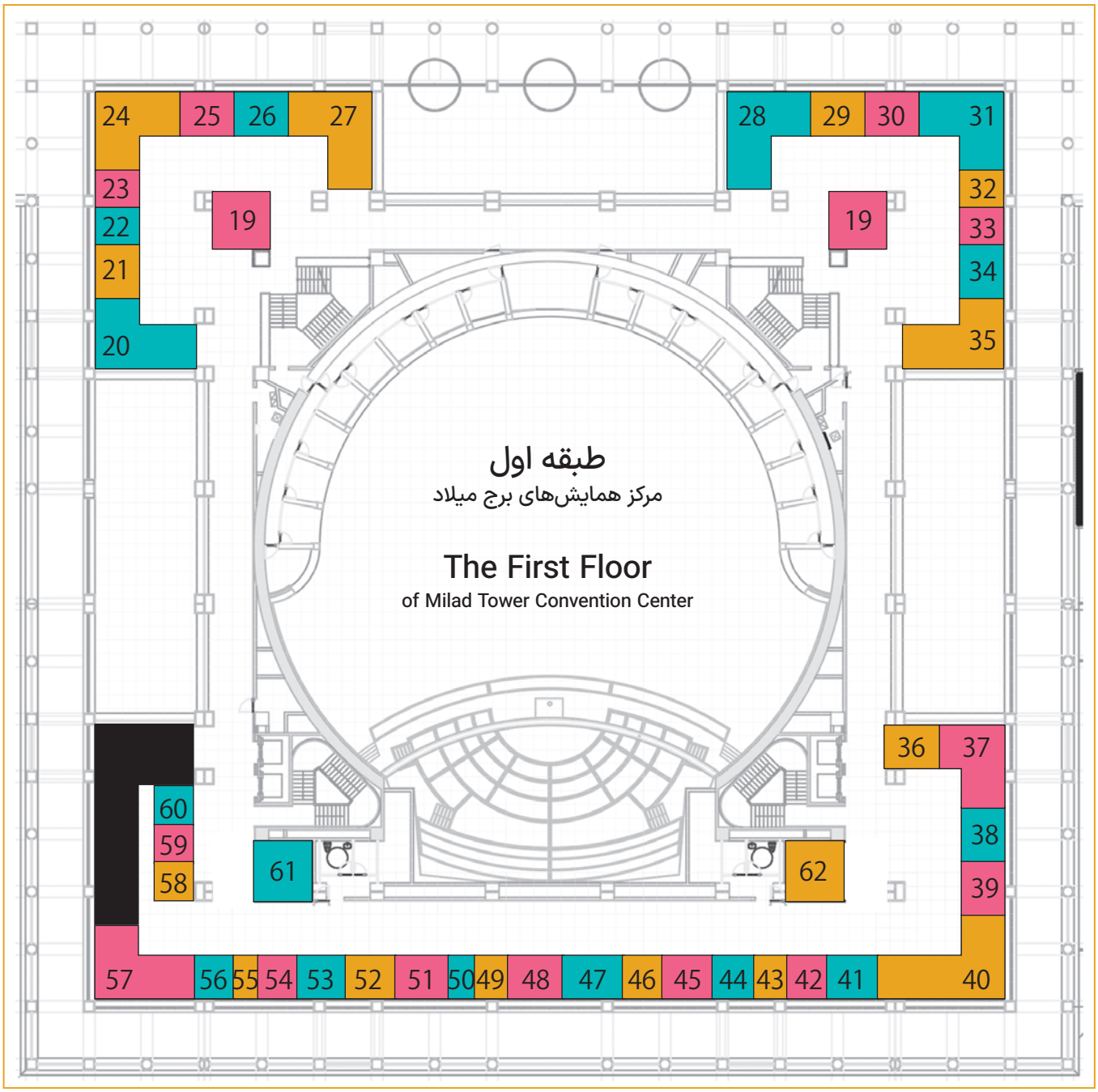

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15	Fanavari Azmayeshgahi	فن‌آوری آزمایشگاهی
16	Tan Asa Teb Novin	تن آسا طب نوین
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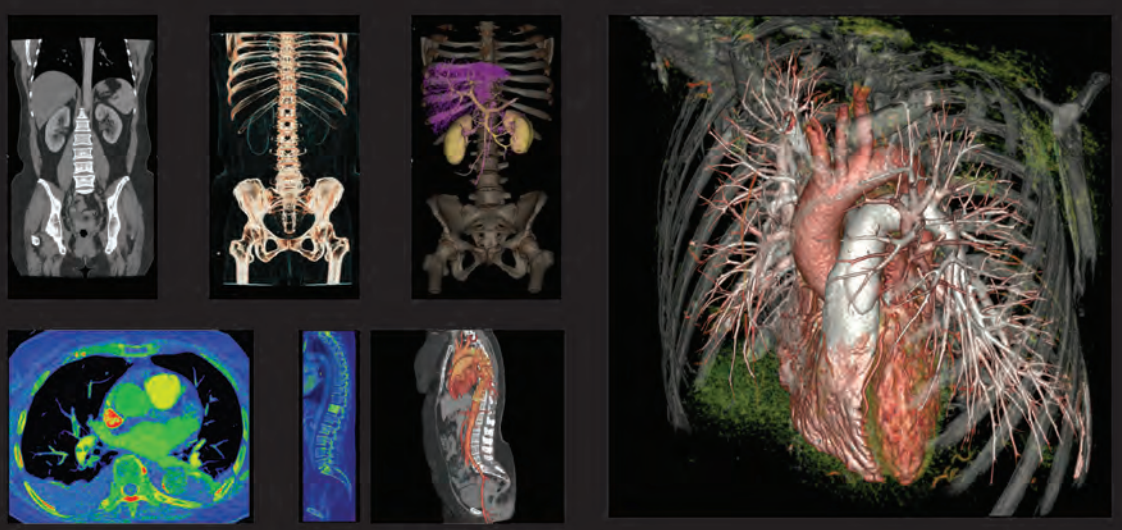

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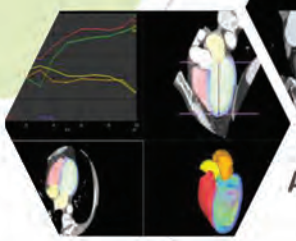

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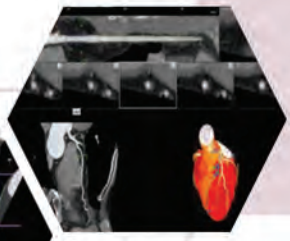


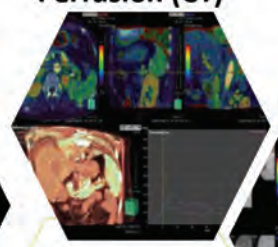
Coronary Analysis CT

Calcium Scoring

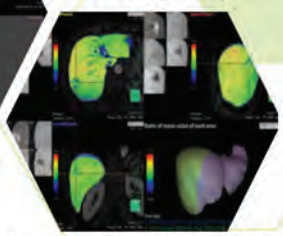
Liver Analysis (CT&MRI)

Automatic Colon Extraction

Abdominal Perfusion (CT)

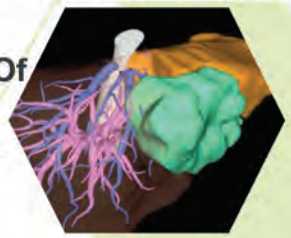


Regional Signal Ratio(MRI)



Segmentectomy (CT)

Simple and Easy use Liver Volumetry Automatic extraction Of Liver, P V, HV and HA



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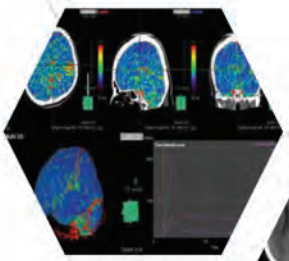
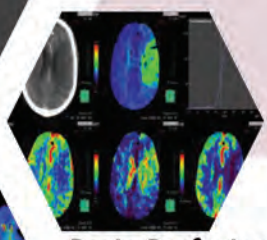
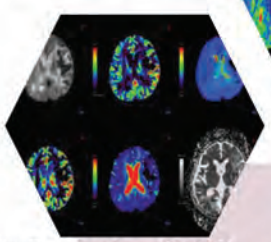


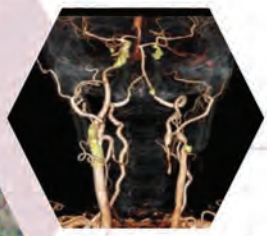
4D Perfusion



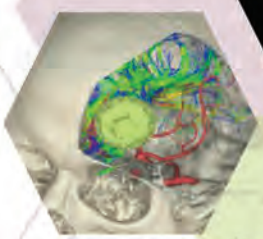
Brain Perfusion (CT)



Brain Perfusion (MRI)

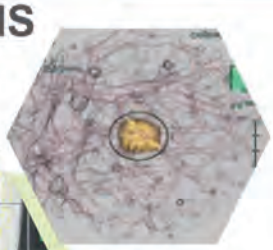


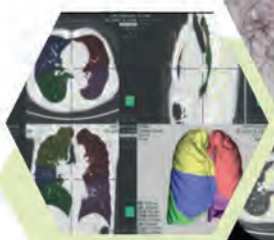
Vessel Extraction

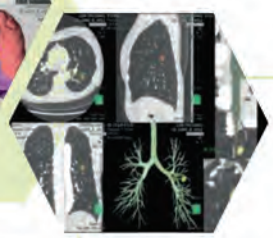


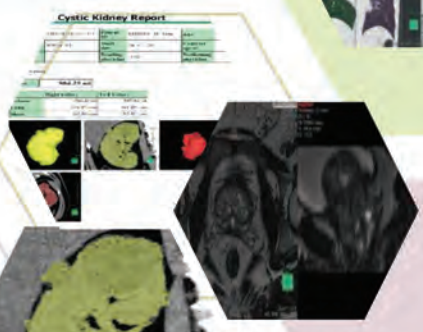
Craniotomy/Tensor Analysis

LUNG ANALYSIS SCOPE

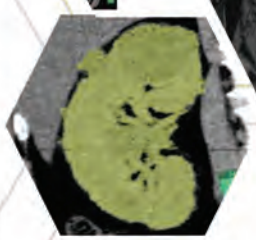








Prostate Viewer



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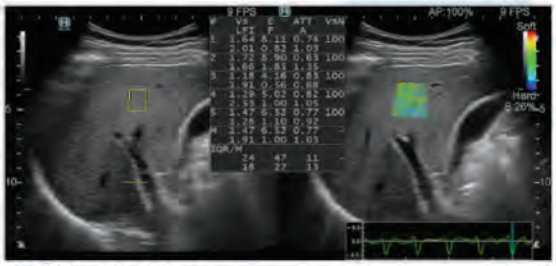
شرکت مهندسی پزشکی
پایون پرتو

Norihisa Yada et al, "Diagnosis of Fibrosis and Activity by a Combined Use of Strain and Shear Wave Imaging in Patients with Liver Disease",Dig Dis 2017;35:515–520.
https://pubmed.ncbi.nlm.nih.gov/29040983/

Abstract

Objective: Performing shear wave imaging is simple, but can be difficult when inflammation, jaundice, and congestion are present. Therefore, the correct diagnosis of liver fibrosis using shear wave imaging alone might be difficult in mild to-moderate fibrosis cases. Strain imaging can diagnose liver fibrosis without the influence of inflammation. Therefore, the combined use of strain and shear wave imaging (combinational elastography) for cases without jaundice and congestion might be useful for evaluating fibrosis and inflammation. ***Conclusions:*** The combined use of strain and shear wave imaging (combinational elastography) might increase the positive diagnosis of liver fibrosis and inflammation.



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(DeepInsight is a registered trademark or a trademark of FUJIFUILM Healthcare Corporation in Japan and other countries.)

FUJIFILM Healthcare Corporation has developed a noise reduction technology named *DeepInsight* that significantly improves the quality of images produced by ultrasound systems. This technique uses AI to distinguish between echo signals and noise, and selectively extracts the signals necessary for diagnosis. This enables ultrasound systems to provide high-quality images even from deep regions of the body that have been difficult to examine due to the weak received signals, thereby supporting more accurate ultrasound examinations. *DeepInsight* is a technology based on AI that can effectively reduce unnecessary electrical noise from echo signals while improving the basic performance required for ultrasound images. This enabled to obtain clearer images of the shape shape and dynamics of tissues deep inside the body, where they used to be blurred by noise. In the future, we will seek to the early release of a product supporting this technology in cooperation with medical institutions, and we will contribute to the realization of more accurate ultrasound examinations.

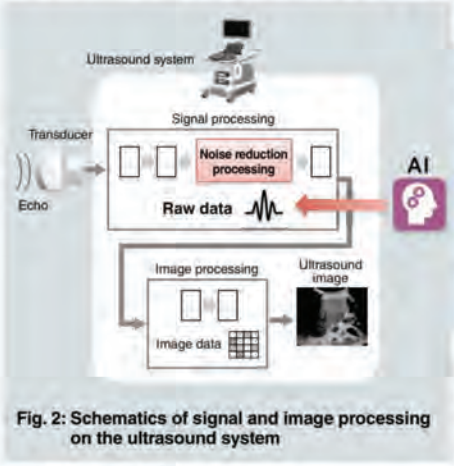

Fig. 2: Schematics of signal and image processing on the ultrasound system

Fujifilm Healthcare

Sofuni et al., "Real-time virtual sonography visualization and its clinical application in biliopancreatic disease",World J Gastroenterol 2013 November 14; 19(42): 7419-7425 ISSN 1007-9327 (print) ISSN 2219-2840.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3831224/

Abstract: AIM: To evaluate the usefulness of real-time virtual sonography (RVS) in biliary and pancreatic diseases. CONCLUSION: RVS has potential usefulness in objective visualization and diagnosis in the field of biliary and pancreatic diseases.

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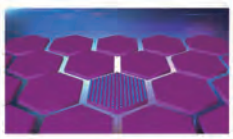

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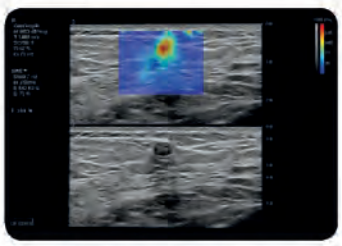

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2D Real Time ShearWaveElastography : الاستوگرافی شیرویو منحصر بفرد سوپرسونیک در تمامی پروب ها فعال بوده که تنها الاستوگرافی دقیق و قابل اعتماد و دارای تاییدیه آمریکا می باشد که امکان بررسی کلیه توده ها از قبیل توده های پستان، تیروئید، پروستات و کبد را فراهم می کند و همچنین دارای الاستوگرافی جهت بررسی عضلات، عصب و تاندونها (*MSK*) نیز می باشد.

Liver Fibrosis Assessment : دستگاه دارای دقیق ترین ابزار جهت بررسی فیبروز کبد، با قابلیت نمایش *Real Time* و اندازه گیری بصورت کمی و کیفی بوده و همچنین دارای پارامترهای اندازه گیری و تشخیص گرید کبد چرب بصورت کمی نیز می باشد.

AngioPLUS : جدیدترین تکنیک تصویربرداری در آشکارسازی و نمایش عروق بسیار ریز با جریان و سرعت پایین بوده و امکان نمایش *MicroVascular Flow* در شکم و بافت های سطحی را فراهم می سازد که امکان بررسی خون رسانی توده های مختلف را به کاربر می دهد.

TriVu : قابلیت تصویربرداری و نمایش همزمان سه مد: *2D*، الاستوگرافی*ShearWave* و *Color* که امکان بررسی همزمان *Stiffness* و خون رسانی بافت و توده های مختلف را فراهم می سازد.

Image Quality : مشاهده بیشترین جزئیات آناتومیکی در سونوگرافی بارداری، زنان، *Breast*، *MSK*، شکم، لگن، تیروئید، اندام، کبد، کلیه و *General* با بهره مندی از تکنولوژی *Single Crystal* در ساخت پروب و نیز نرم افزارهای پیشرفته جهت پردازش تصویر در دو حالت *Real Time* و *Post Processing*

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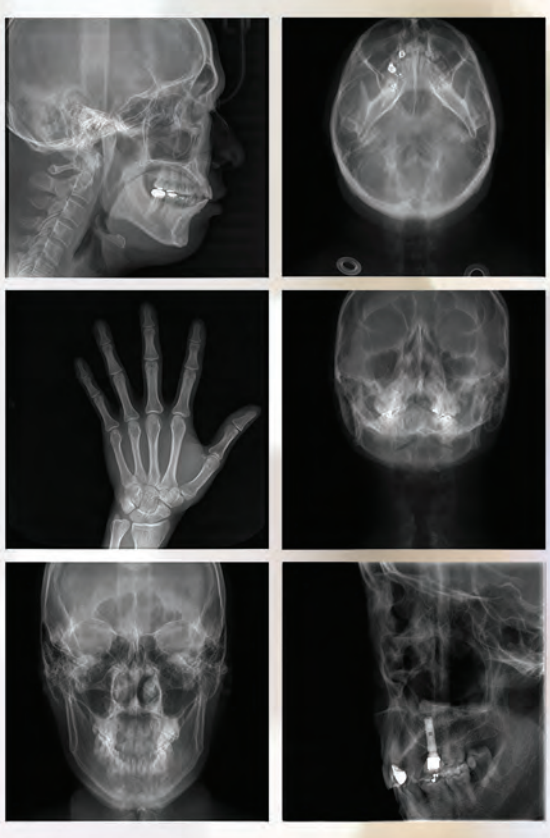

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