

# **JRC 2016 Program**

The 75th Annual Meeting of the Japan Radiological Society

The 72nd Annual Scientific Congress of the Japanese Society of Radiological Technology

The 111th Scientific Meeting of the Japan Society of Medical Physics

The International Technical Exhibition of Medical Imaging 2016

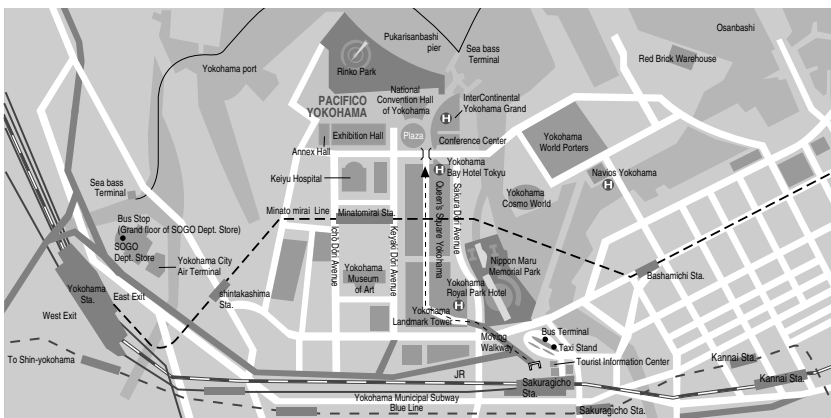
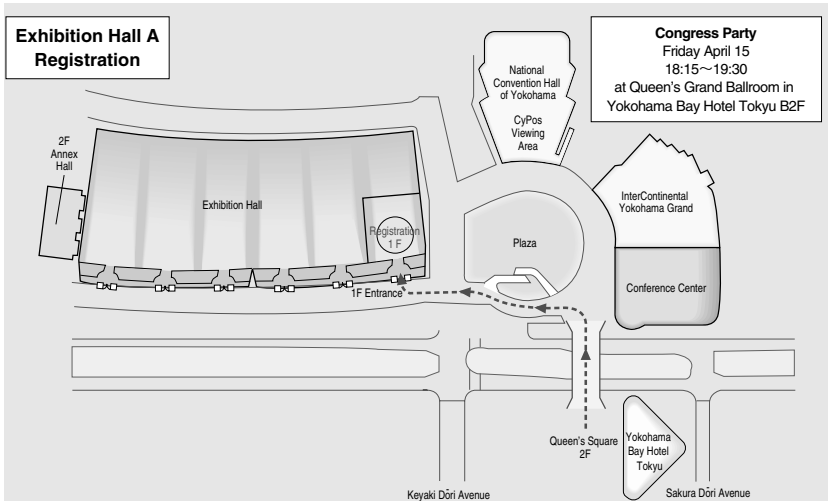
April 14 (Thu) - April 17 (Sun), 2016

**PACIFICO YOKOHAMA**

# Access

<b>渋谷駅</b> Shibuya Sta.	<b>【東急東横線【みなとみらい線 乗り入れ】 約30分(特急)</b> Tokyo Toyoko Line, 30 min.	<b>みなとみらい線</b> <b>【徒歩】 約 3分</b> Minato Mirai Line, 3 min.	<b>パシフィコ横浜</b> PACIFICO YOKOHAMA
<b>横浜駅</b> Yokohama Sta.	<b>【みなとみらい線】 約 3分</b> Minato Mirai Line, 3 min.	<b>【バス】 約10分(東口そごう 1階 市営・京急バス14のりば)</b> 10 min. by Bus from Bus stop 14 located at the 1st floor of Sogo Department Store, Yokohama St. Est.	
<b>新横浜駅</b> Shin-yokohama Sta.	<b>【JF横浜線】 約15分</b> JR Yokohama Line, 15 min. <b>【横浜市営地下鉄】 約15分</b> Yokohama Subway, 15 min.	<b>【タクシー】 約 7分(東口ポルタ地下2階 タクシーのりば)</b> 7 min. by Taxi. Taxi Stand on 8 2F of Porta, Yokohama St. Est.	
	<b>桜木町駅</b> Sakuragicho Sta.	<b>【徒歩】 約12分</b> 12 min. on foot. <b>【バス】 約 7分(市営バス 1のりば)</b> 7 min. by Bus from Bus Stop 1. <b>【タクシー】 約 5分</b> 5 min. by Taxi.	

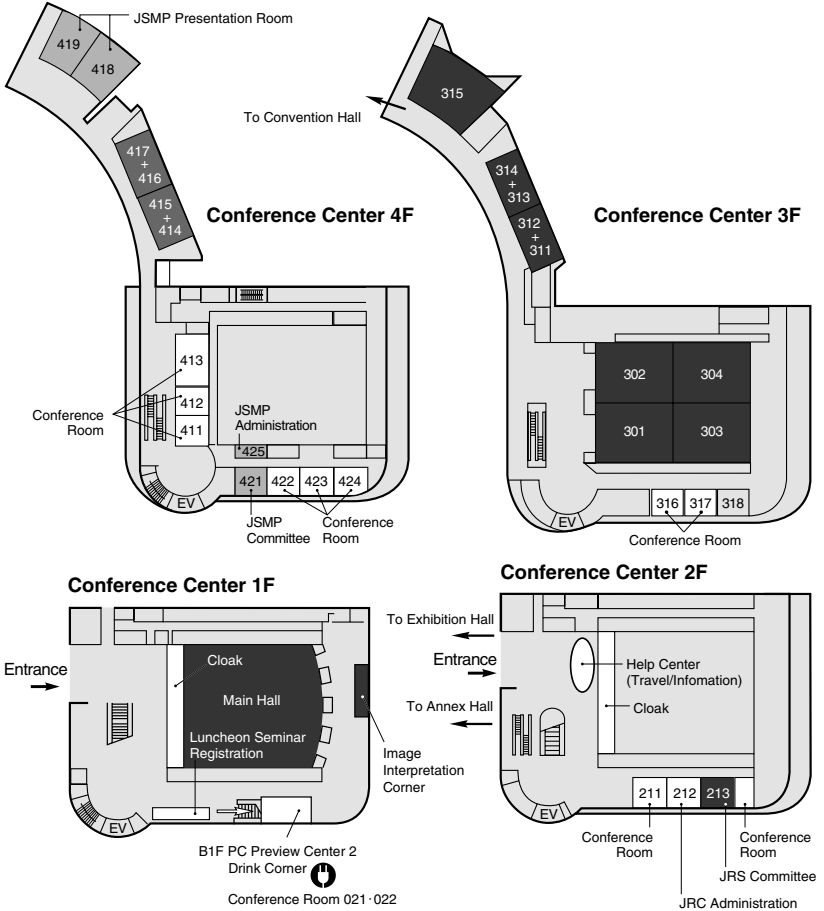
※ Each time required shows approximately.



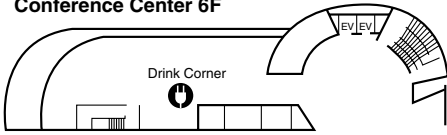
# Venue Map

<b>J R S</b>
<b>J S R T</b>
<b>J S M P</b>
<b>Common</b>

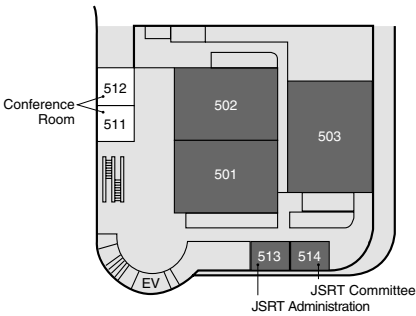
Help Center (Conference Center 2F)	045-228-6441
JRS Committee (213)	045-228-6437
JSRT Committee (514)	045-228-6438
JSMP Committee (425)	045-228-6439
ITEM Administration	045-228-6571
JRC Administration (212)	045-228-6440



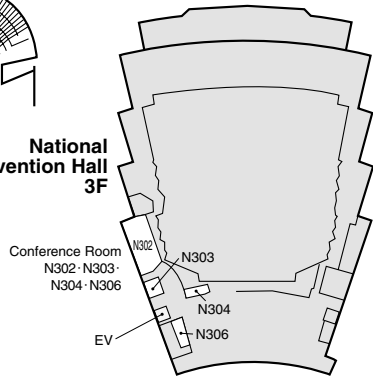
**Conference Center 6F**



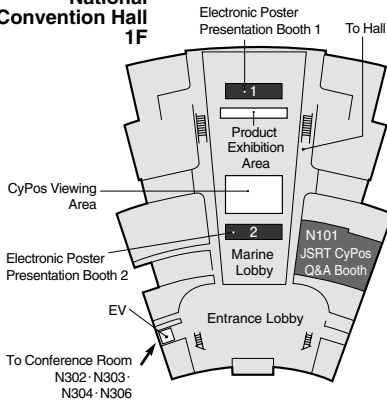
**Conference Center 5F**



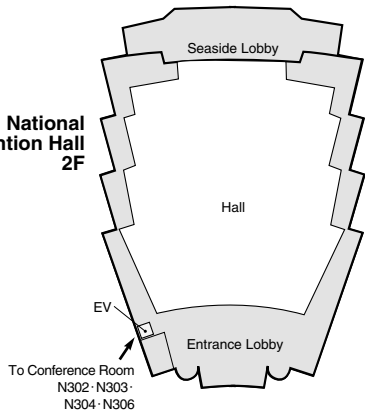
**National Convention Hall 3F**



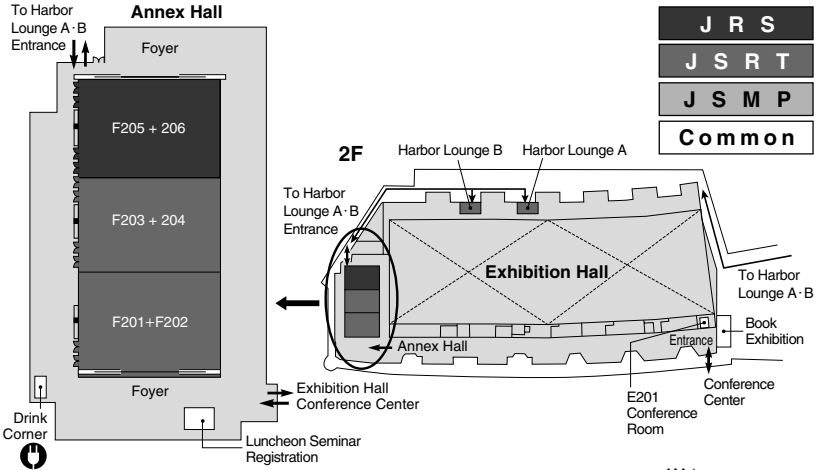
**National Convention Hall 1F**



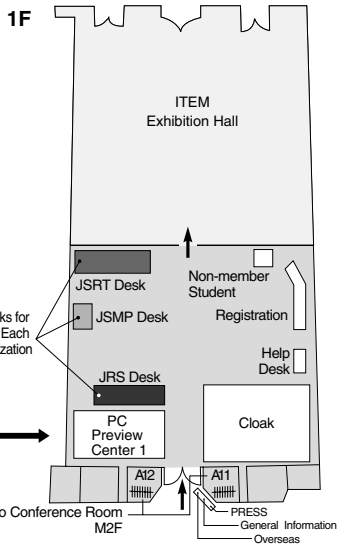
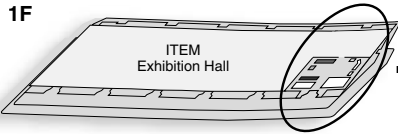
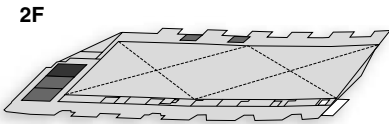
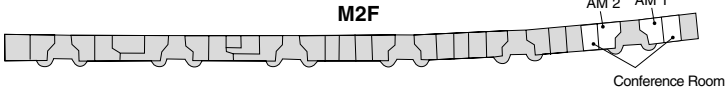
**National Convention Hall 2F**



# Exhibition Hall



J	R	S	
J	S	R	T
J	S	M	P
<b>Common</b>			



# Time Table

April 14 (Thursday)

Venue		8	9	10	11	12	13
Main Hall	1F						
301	3F						
302							
303							
304							
311+312							
313+314							
414+415	4F						
416+417							
418							
419							
421							JSMP Board of Directors
501	5F						
502							
503							
F201+202	Annex Hall						
F203+204						CT colonography hands-on training course	
F205+206						CT colonography hands-on training course	
Marine Lobby	National Convention Hall		Electronic Exhibition/Product Exhibition				
Exhibition Hall A~D							

13		14		15		16		17		18		19		20
Representative Assembly										RSNA Lecture				
				1. RT 1		Overseas Lecture 1	Overseas Lecture 2							
				2. IR 1				Overseas Lecture 3						
				3. NM 1		4. NM 2								
RADIATION TECHNOLOGY														
Radiation Technology Clinical Safety		Radiation control Radiation exposure of lens		Radiation control Angiography		X-ray Angiography; Cone Beam CT		X-ray Angiography; System		X-ray Angiography: Radiation Condition				
Broadcast:414+415														
Radiation Therapy (photon/ electron) 1		Radiation Therapy (photon/ electron) 2		Radiation Therapy (photon/ electron) 3		Radiation Therapy (photon/ electron) 4		Radiation Therapy (photon/ electron) 5						
Radiation Therapy (heavy particle) 1		Radiation Therapy (heavy particle) 2		Radiation Therapy (heavy particle) 3		Radiation Therapy (heavy particle) 4		Radiation Therapy (heavy particle) 5						
JSMP Board of Directors														
MR Abdomen, Pelvis (diffusion)		MR Liver		MR Heart		MR Musculoskeletal (MRA)	MR Diffusion		MR Head and Neck (diffusion)					
Nuclear Medicine Dopamine transporter (imaging)		Nuclear Medicine Other (pediatrics/ radionuclide therapy /brain imaging)		Nuclear Medicine Multi-focus fan beam collimator/ semiconductor detector		Nuclear Medicine PET 1 (image processing)		Nuclear Medicine PET 2 (image processing)						
X-ray Tomosynthesis: Breast Imaging, DR		Diagnosis of Neuroradiology and Head and Neck Radiology		Diagnosis for Gynecologic Imaging		Analysis of the Diagnostic Process on Mammography Interpretation								
CT Performance evaluation 1	CT Performance evaluation 2	CT Radiation dose reduction technology (Dose Index)		CT Radiation dose reduction technology (Dose measurement, Dosimetry)		CT Radiation dose reduction technology (Dose distribution)		CT Clinical study 1						
		Imaging Image display		Imaging Image evaluation, etc		Imaging CAD: detection, etc		Imaging CAD: clinical application						
CT colonography hands-on training course														
Electronic Exhibition/Product Exhibition														

□	JRS
□	JSRT
□	JSMP
□	Joint Session



April 15 (Friday)

Venue		8	9	10	11	12	13
National Convention Hall		Educational Lecture 1	Keynote Lecture	Symposium 1			
Main Hall	1F	Educational Lecture 2	Resident Seminar (Diagnosis) 1				Luncheon Seminar 1★
301	3F	Educational Lecture 3	Symposium 2			Overseas Lecture 4	Luncheon Seminar 2
302		Educational Lecture 4	Overseas Lecture 5	Overseas Lecture 6	Overseas Lecture 7	Overseas Lecture 8	Luncheon Seminar 3
303		Educational Lecture 5	5. Chest 1		6. Chest 2		Luncheon Seminar 4
304		Educational Lecture 6	7. Breast 1	8. Breast 2	9. Breast 3		Luncheon Seminar 5
311+312		Educational Lecture 7	10. Informatics		11. NM 3		Luncheon Seminar 6
313+314		Educational Lecture 8					Luncheon Seminar 7
315		Educational Lecture 9	12. Uroradiology		13. Cardiovascular 1	Luncheon Seminar 8	
414+415		4F	JSMP-JSRT Joint Session			Ultrasonography and Bone mineral quantitative inspection	International Lunch Reception
416+417	Broadcast:414+415				Luncheon Seminar 9		
418	Morning Educational Lecture 1		Radiation Therapy (photon/electron) 6	Radiation Therapy (photon/electron) 7	Radiation Therapy (photon/electron) 8		Lunch Time Lecture 1 (Educational Lecture)
419			Diagnostic Imaging (X-Ray/CT) 1	Diagnostic Imaging (X-Ray/CT) 2	Radiation Therapy (heavy particle) 6		
501	5F		AC 1 (Nuclear Medicine)	EL 1	72nd. Nuclear Medicine Section		
502		ATS 2	ATS 1	Radiotherapy Planning Specific QA	Radiotherapy Dose Calculation Evaluation		ATS 3
503		Valuable Basic Technologies for Diagnosis 1	Symposium 3			JSMP-JSRT Joint Session Plenary Lectures 1	AC 3 (TV, IVR)
Harbor Lounge A	Annex Hall						
Harbor Lounge B					ATS 5	ATS 6	
F201+202		Valuable Basic Technologies for Diagnosis 2 (MRI)	MR Basic	MR Measurement		Collaborative session (CFD)	AC 4 (Radiation Protection)
F203+204		Valuable Basic Technologies for Diagnosis 3 (CT)	CT Contrast enhancement (Injection technique)	CT Contrast enhancement (Scan technique)	CT Contrast enhancement (Low kV scan)	CT Perfusion CT	ATS 7
F205+206		Educational Lecture 10	Educational Lecture 11		指導者講習会		Luncheon Seminar 10
N101	National Convention Hall			Imaging Image evaluation	MR Head and Neck	MR Breast	MR Abdomen, Pelvis
Marine Lobby		7:15 Electronic Exhibition/Product Exhibition					
Marine Lobby 1				Poster 1 Cardiovascular 1	Poster 2 Cardiovascula 2		
Marine Lobby 2				Poster 6 NM 1	Poster 7 IR 1	Poster 8 Chest 1	
Exhibition Hall A~D				ITEM Opening Ceremony	ITEM2016		

13	14	15	16	17	18	19	20
		Resident Seminar (Radiation Oncology)					
Opening Ceremony	Joint Special Lecture	Honorary Member Award Ceremony	Joint Symposium 1				
		Keynote Lecture	Symposium 3				
		Keynote Lecture	Symposium 4				
		Overseas Lecture 9	Overseas Lecture 10	Overseas Lecture 11	Overseas Lecture 12		
		14. Liver 1	15. Liver 2	16. Liver 3			
		17. IR 2		18. IR 3			
		19. Cardiovascular 2		20. Cardiovascular 3			
		Nuclear Medicine SPECT (image evaluation /quantitative analysis)	Radiation Technology Education:AI	Radiation control X-ray examination	Radiation control Hazard		
		Broadcast:414+415					
		Radiation Therapy (photon/ electron) 9		Radiation Therapy (photon/ electron) 10	Dose calibration session		
		Radiation Therapy (heavy particle) 7		Radiation Therapy (heavy particle) 8			
MR Head and Neck		MR Head (MRA, ASL)		MR Musculoskeletal (MRE)			
Expert Lecture 1		Radiotherapy Treatment planning		Radiotherapy IGRT (QA/QC)			
JSMP-JSRT Joint Session Plenary Lectures 2		Symposium 2					
		Broadcast:Harbor Lounge B					
		Panel Discussion					
		Scientific Sections Symposium					
CT Cardiac CT (Basic study)		CT Cardiac CT (Coronary study)	CT Dual energy (Basic study)	CT Dual energy (Contrast enhancement)			
		MR Artifact reduction	MR Imaging technique	MR Clinical technique	Nuclear Medicine SPECT (brain image/ quantitative analysis)		
		Electronic Exhibition/Product Exhibition					
		Poster 3 Neuro 1	Poster 4 Neuro and Head and Neck	Poster 5 AI and others			
		Poster 9 Chest 2	Poster 10 Chest 3				
		ITEM2016					

Reception for All Participants (Congress Party) (Yokohama Bay Hotel Tokyu B2F Queen's Grand Ballroom)

	JRS
	JSRT
	JSMP
	Joint Session





April 16 (Saturday)													
Venue		8	9	10	11	12	13						
National Convention Hall		Educational Lecture 12	Joint Symposium 2										
Main Hall	1F	Educational Lecture 13	Resident Seminar (Diagnosis) 2				Luncheon Seminar 11						
301	3F	Educational Lecture 14	Keynote Lecture	Symposium 6			Luncheon Seminar 12						
302		Educational Lecture 15	Overseas Lecture 15	Overseas Lecture 16	Overseas Lecture 17	Overseas Lecture 18	Luncheon Seminar 13						
303		Educational Lecture 16			Overseas Lecture 20	Overseas Lecture 21	Overseas Lecture 22	Luncheon Seminar 14					
304		Educational Lecture 17	21. Gastrointestinal 1		22. Pediatric		23. Gastrointestinal 2		Luncheon Seminar 15				
311+312		Educational Lecture 18	24. MSK 1			25. MSK 2		Luncheon Seminar 16					
313+314		Educational Lecture 19	Special Project 2				Luncheon Seminar 17						
315		Educational Lecture 20				26. OB/GYN 1	27. OB/GYN 2	Luncheon Seminar 18					
414+415		4F	AC 7 (Measurement)	EL 5		47th. Measurement Section			BC 3 (Measurement)				
416+417	Broadcast:414+415						Luncheon Seminar 19						
418	Morning Educational Lecture 2		Radiation Therapy (photon/ electron) 11		Radiation Therapy (photon/ electron) 12		Brachytherapy		Lunch Time Lecture 2 (Educational Lecture)				
419			Magnetic Resonance 1		Magnetic Resonance 2		Session for Students Studying in Japan						
501	5F	ATS 8	EL 2		66th. Radiation Imaging Section			AC 5 (MR)					
502		AC 6 (Imaging)	Medical Information Terminology	Imaging Image processing, etc		Imaging Scattered radiation correction processing (evaluation)		Imaging Scattered radiation correction processing (application)		BC 1 (Imaging)			
503		Valuable Basic Technologies for Diagnosis 4 (Mammography)	X-ray Breast Imaging		Collaborative session (Breast)		Invited Lecture 2★		BC 2 (Radiation Protection)				
Harbor Lounge A	Annex Hall	Broadcast:Harbor Lounge B											
Harbor Lounge B		Radiation Protection Forum			Standardization Forum								
F201+202		Collaborative session (DRL)	CT Dual energy (Clinical study)		CT Iterative reconstruction (Coronary artery)		CT Iterative reconstruction (Human body simulated)		ATS 4				
F203+204		ATS 3	MR Abdomen	MR Liver (MRE, others)		MR Safety		Educational Basic Course 1					
F205+206		Educational Lecture 21	Educational Lecture 22		Educational Lecture 23		Luncheon Seminar 20						
N101						Radiotherapy							
Marine Lobby	National Convention Hall	7:15 Electronic Exhibition/Product Exhibition						Product Exhibition Core Time					
Marine Lobby 1					Poster 11 Liver and pancreas 1		Poster 12 Liver and pancreas 2		Poster 13 Pediatric				
Marine Lobby 2					Poster 18 Uroradiology and OB/GYN		Poster 19 Breast 1		Poster 20 Breast 2				
Exhibition Hall A~D						ITEM2016							

13	14	15	16	17	18	19	20
Radiotherapy IGRT Registration	Radiotherapy QA/QC	Radiotherapy Dose Distribution Analysis	Radiotherapy Planning CT, CBCT				
Overseas Lecture 13	Keynote Lecture	Symposium 5		Image Interpretation Session			
Keynote Lecture	Symposium 7			Overseas Lecture 14			
	Overseas Lecture 19	Keynote Lecture	Symposium 8				
28. Chest 3		Overseas Lecture 23	Overseas Lecture 24	29. Chest 4			
30. RT 2	31. RT 3	32. RT 4	33. RT 5				
			34. AI	35. Emergency radiology			
36. IR 4	37. IR 5	38. IR 6	39. Head and Neck 1				
40. Neuro 1	41. Neuro 2	42. Neuro 3	43. Technologies				
EL 6		42nd. Radiation Protection Section					
Broadcast:414+415							
JCMP meeting							
JBMP meeting	Nuclear Medicine 1	Nuclear Medicine 2			JSMP General Meeting of Members	JCMP Meeting	
EL 3	66th. Radiation Imaging Section		Expert Lecture 2				
Invited Lecture 3	EL 4	79th. Imaging Section					
Symposium 1		Invited Lecture 1★	Segi Award Winner's Lecture (Best Paper in 2015)	Regular General Meeting			
Broadcast:Harbor Lounge B							
Radiation Safety Management Forum		Patient Safety Forum					
CT Streak artifact	CT Metal artifact, Effect of reducing	JSMP-JSRT Joint Session					
Educational Courses							
Educational Lecture 24	Educational Lecture 25	Educational Lecture 26	Educational Lecture 27				
	X-ray	CT Contrast material	CT Basic study	CT Performance evaluation 3	Radiation Technology device		
	Product Exhibition Core Time	Electronic Exhibition/Product Exhibition					
Poster 14 Cardiovascular 3	Poster 15 Gastrointestinal	Poster 16 RT 1	Poster 17 RT 2				
Poster 21 NM 2	Poster 22 NM 3	Poster 23 MSK 2	Poster 24 NM 4				
ITEM2016							

	JRS
	JSRT
	JSMP
	Joint Session

April 17 (Sunday)		8		9		10		11		12		13
Venue												
Main Hall	1F	Educational Lecture 28	Joint Symposium 3				Luncheon Seminar 21					
301	3F	Educational Lecture 29	Overseas Lecture 25	Broadcast:302				Luncheon Seminar 22				
302		Educational Lecture 30	Symposium 9				Luncheon Seminar 23					
303		Educational Lecture 31	Overseas Lecture 26	Special Project 1				Luncheon Seminar 24				
304		Educational Lecture 32	44. RT 6				Luncheon Seminar 25					
311+312		Educational Lecture 33	45. NM 4				46. NM 5		Luncheon Seminar 26			
313+314		Educational Lecture 34	47. Head and Neck 1		48. Neuro 4		49. Neuro 5		Luncheon Seminar 27			
315		Educational Lecture 35	50. IR 7		51. IR 8		52. IR 9		Luncheon Seminar 28			
414+415		4F	Next Generation Session				Special Lectures for Students		RPT Doi Awards Ceremony and Winner's Lectures			
416+417			Broadcast:414+415				Luncheon Seminar 29					
418	Morning Educational Lecture 3		Image (Processing/ Analysis/ Informatics)/ Medical Informatics 1		Image (Processing/ Analysis/ Informatics)/ Medical Informatics 2		JSMP-JSMBE Joint Session		Lunch Time Lecture 3 (Educational Lecture)			
419	Radiation Measurement 1		Radiation Measurement 2		Radiation Measurement 3							
501	5F		AC 8 (Medical Information)	EL 7		27th. Medical Information Section				BC 4 (Medical Information)		
502		Valuable Basic Technologies for Diagnosis 5 (Nuclear Medicine)	Nuclear Medicine Cardiac Imaging		Nuclear Medicine PET 3 (analysis)		Nuclear Medicine Dopamine transporter (analysis)		ATS 2			
503		AC 9 (CT)	EL 8		66th. Radiation Imaging Section				Educational Basic Course 2			
F201+202	Annex Hall	ATS 4	JIRA Workshop				X-ray Exposure Index		BC 5 (Radiotherapy)			
F203+204		MR Musculoskeletal	MR Spine		MR Breast		MR Myocardial		Luncheon Seminar 30			
F205+206		Educational Lecture 36	Educational Lecture 37		Educational Lecture 38				Luncheon Seminar 31			
National Convention Hall	National Convention Hall	AC 10 (Radiotherapy)	EL 9		72nd. Radiotherapy Section							
Marine Lobby		7:15 Electronic Exhibition/Product Exhibition										
Marine Lobby 1		Poster 25 RT 3		Poster 26 RT 4		Poster 27 RT 5						
Marine Lobby 2		Poster 29 IR 2		Poster 30 IR 3		Poster 31 IR 4						
Exhibition Hall A~D		ITEM2016										

13	14	15	16	17	18	19	20
		Closing and Awards Ceremony					
JRS-KSR Joint Symposium							
53. Chest 5	54. Cardiovascular 4						
55. RT 7							
56. NM 6	57. NM 7						
58. Pancreas and GB							
59. IR 10							
Radiation control Simulation	Radiation control CT						
Broadcast:414+415							
The 111th JSMP Symposium							
Medical Information analysis,Workflow analysis	Medical Information System development, Utilization of a system						
X-ray Angiography: Development	X-ray General Radiography						
CT Image quality evaluation methods	CT Clinical study 2						
Radiotherapy Dosimetry Device	Radiotherapy Positioning Accuracy						
MR Head (contrast)							
JCR Hour 2016							
指導者講習会							
Electronic Exhibition/ Product Exhibition							
Poster 28 RT 6							
ITEM2016							

	JRS
	JSRT
	JSMP
	Joint Session

## I . Joint Sessions for Japan Radiology Congress

### Opening Ceremony

· Opening Ceremony : April 15 (Fri.) 13:00-14:30 (Main Hall)

Performance: Ensemble Dunamiz

Keynote lecture

President	Nagara Tamaki (Hokkaido University) The 75th Annual Meeting of the Japan Radiological Society (JRS)
Conference President	Akio Ogura (Gunma Prefectural College of Health Sciences) The 72nd Annual Scientific Congress of the (JSRT)
Congress Chair	Fujio Araki (Kumamoto University) The 111th Scientific Meeting of the (JSMP)
Chairman	Kenichi Komatsu Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

### Joint Special Lecture

· Joint Special Lecture : April 15 (Fri.) 14:00-14:30 (Main Hall)

Moderator: Nagara Tamaki (Hokkaido University)

Universe, Human, and Dream

Astronaut Naoko Yamazaki

### Joint Symposium

· Joint Symposium 1 : April 15 (Fri.) 15:10-17:10 (Main Hall)

「Anticipation of Radiology Progress in the Next Quarter of Century」

Moderator: Keigo Endo (Kyoto College of Medical Science)

Shigeru Sanada (Kanazawa Univ.)

1. Diagnostic Imaging 25 Years from Now

Masahiro Jinzaki (Keio Univ.)

2. Future Perspective in Nuclear Medicine

Ukihide Tateishi (Tokyo Medical and Dental Univ.)

3. Interventional Radiology

Takuji Yamagami (Kochi Univ.)

4. Hopes for Progress in Radiation Oncology in the Next 25 Years

Keiichi Jingu (Tohoku Univ.)

5. Expectation for successive innovation in Medical Physics field

Masayori Ishikawa (Hokkaido Univ.)

6. For the Development of Technology in Radiology

Hiroyuki Takashima (Sapporo Medical University Hosp.)

• Joint Symposium 2 : April 16 (Sat.)  
9:10–11:50 (National Convention Hall)

「Dose evaluation and control for medical radiation exposure」

Special Presentation Prelude (9:10–9:40)

Moderator: Shinichiro Mori (NIRS)

1. Development of kV X-ray imaging dose calculation system for image guided radiation therapy  
Yoshitomo Ishihara (Kyoto Univ.)
2. Evaluation of k-factor (DLP to Effective dose) with ICRP 110 reference phantom  
Masanao Kobayashi (Fujita Health Univ.)
3. Fundamental Study on Patient Radiation Dose Measurement in Catheter Ablation Using the Real Time Dosimeter.  
Mamoru Kato (Akita Research Institute of Brain and Blood Vessels)

Symposium (9:40–11:50)

Moderator: Keiichi Akahane (NIRS)

Kazuko Ohno (Kyoto College of Medical Science)

1. Dose metrics in CT, mammography, radiography, and fluoroscopy: Practical Implications for Clinical Relevancy  
John M. Boone (University of California Davis, USA)
2. Report from the working group of recommended Diagnostic Reference Level (DRL) for interventional radiology  
Takao Ichida (Osaka City University Hosp.)
3. Dose evaluation and control for CT  
Kosuke Matsubara (Kanazawa Univ.)
4. Diagnostic and functional imaging using low dose chest CT  
Hisanobu Koyama (Kobe Univ.)
5. Dose evaluation and control for Nuclear Medicine  
Makoto Hosono (Kindai Univ.)

• Joint Symposium 3 : April 17 (Sun.) 9:30–11:50 (Main Hall)

「Benefit to radiological diagnosis of the contrast media」

Moderator: Katsumi Hayakawa (Iwate Prefectural Kamaishi Hosp.)

Akio Ogura (Gunma Prefectural College of Health Sciences)

1. Development of Contrast Media: History and Future Perspective  
Masaharu Yamaoka (Bayer Yakuhin Ltd.)
2. Consideration of intravenous contrast medium administration and scan timing at X-ray CT  
Isao Yamaguchi (Butsuryo College of Osaka)
3. The transition of diagnostic process caused by emergence of novel contrast media  
Satoshi Kobayashi (Kanazawa Univ.)
4. Risk management of contrast media  
Yoshito Tsushima (Gunma Univ.)
5. The gadolinium deposition in the brain: The new trend in Japan and in the world  
Tomonori Kanda (Teikyo Univ.)



## **Reception for All Participants (Congress Party)**

• Reception for All Participants (Congress Party) :

April 15 (Fri.) 18:15-19:30

(Yokohama Bay Hotel Tokyu B2F Queen' s Grand Ballroom)

## **Closing and Awards Ceremony**

• Closing and Awards Ceremony : April 17 (Sun.) 15:00-16:15 (Main Hall)

「Performance: JRC Festival Orchestra」

Program: 「Valse des fleurs」 others

## II. JRS Activities

### Honorary Member Award Ceremony

- Honorary Member Award Ceremony :  
April 15 (Fri.) 14:30–15:00 (Main Hall)

Moderator: Hiroshi Honda (Kyushu Univ.)

Nagara Tamaki (Hokkaido Univ.)

Markus Schwaiger (Klinikum rechts der Isar der Technischen Universität  
München, Germany)

H. William Strauss (Memorial Sloan Kettering Cancer Center, USA)

Zheng Yu Jin (Peking Union Medical College Hospital, China)

### Special Project

- Special Project 1 : April 17 (Sun.) 9:50–11:50 (303)

「Special Project for QIBA (Quantitative Imaging Biomarker Alliance)」

Moderator: Tomio Inoue (Yokohama City Univ.)

Shigeki Aoki (Juntendo Univ.)

### Keynote lecture

From Qualitative to Quantitative: The Role of the RSNA Quantitative Imaging  
Biomarkers Alliance (QIBA)

Edward Jackson (University of Wisconsin-Madison School of Medicine &  
Public Health, USA)

### Remarks

What does RSNA/QIBA expect of the Japan/QIBA activity?

Kevin O'Donnell (Toshiba Medical Research Institute USA, Inc., USA)

### Activities in Japan

1. CT Imaging Biomarker

Noriyuki Tomiyama (CT coordinates committee/Osaka Univ.)

2. MRI Imaging Biomarker

Kengo Yoshimitsu (MRI coordinates committee/Fukuoka Univ.)

3. PET/SPECT Imaging Biomarker

Hidehiro Iida (NM coordinates committee/National Cerebral and Cardiovascular  
Center)

4. US Imaging Biomarker

Riwa Kishimoto (US coordinates committee/NIRS)

- Special Project 2 : April 16 (Sat.) 9:10-11:10 (313+314)

〔For Future Plans of Oversea Activities〕 (Japanese)

Moderator: Shigeru Ehara (Iwate Medical Univ.)

Hiroto Hatabu (Brighamand Women's Hospital, Harvard Medical School, USA)

Satoshi Minosima (University of Utah, USA)

Yoshimi Anzai (University of Utah, USA)

Hiroto Hatabu (Brighamand Women's Hospital, Harvard Medical School, USA)

Mizuki Nishino (Dana-Farber Cancer Institute, Harvard Medical School, USA)

Yutaka Sato (University of Iowa, USA)

Hisataka Kobayashi (National Cancer Institute, National Institute of Health, USA)

Takahiro Higuchi (Universitaetsklinikum Wuerzburg, Germany)

## JRS-KSR Joint Symposium

- JRS-KSR Joint Symposium : April 17 (Sun.) 13:00-14:00 (302)

Moderator: Seung Hyup Kim (Seoul National University Hospital, Korea)

Sachio Kuribayashi (HIMEDIC Imaging Center at Lake Yamanaka)

1. Recent Trends in Cardiovascular Imaging

Jongmin John Lee (Kyungpook National University Hospital, Korea)

2. Current role of the Radiologist in Cardiovascular imaging and intervention.

Kei Takase (Tohoku Univ.)

## RSNA Lecture

- RSNA Lecture : April 14 (Thu.) 16:40-17:10 (301)

Moderator: Kuni Ohtomo (The Univ. of Tokyo)

MR Elastography: New Quantitative Imaging Biomarkers

Richard L. Ehman (Mayo Clinic, USA)

## Overseas Lecture

- Overseas Lecture 1 : April 14 (Thu.) 15:50-16:20 (302)

Moderator: Koichi Sakata (Sapporo Medical Univ.)

Precision Therapy in Head and Neck Cancer, from Technology to Biomarker-Based Risk Stratification

Quynh-Thu Le (Stanford University, USA)

- Overseas Lecture 2 : April 14 (Thu.) 16:30-17:00 (302)

Moderator: Hiroki Shirato (Hokkaido Univ.)

Intensity Modulated Proton Therapy for Head and Neck Tumors

The MD Anderson Cancer Center Experience

Steven J. Frank (MD Anderson Cancer Center, USA)

- Overseas Lecture 3 : April 14 (Thu.) 16:30-17:00 (303)

Moderator: Hiroyuki Tajima (Nippon Medical School Musashikosugi Hosp.)

Renal Trauma

Joel A. Gross (University of Washington, USA)

- Overseas Lecture 4 : April 15 (Fri.) 11:10-11:40 (301)  
Moderator: Harumi Sakahara (Hamamatsu Univ.)  
Imaging and Immunotherapy  
Noriko Sato (National Cancer Institute, National Institute of Health, USA)
- Overseas Lecture 5 : April 15 (Fri.) 9:10-9:40 (302)  
Moderator: Hiroshi Ito (Fukushima Medical Univ.)  
Imaging Biomarkers of Dementia  
Satoshi Minoshima (University of Utah, USA)
- Overseas Lecture 6 : April 15 (Fri.) 9:50-10:20 (302)  
Moderator: Kei Yamada (Kyoto Prefectural Univ. of Medicine)  
Advanced Neuroimaging of Aging: from Involutive to Degenerative  
Armando Tartaro (The "G. d'Annunzio" University of Chieti-Pescara, Italy)
- Overseas Lecture 7 : April 15 (Fri.) 10:30-11:00 (302)  
Moderator: Yukio Miki (Osaka City Univ.)  
Imaging in Population-Science: the German National Cohort MRI Study  
Fabian Bamberg (University of Tuebingen, Germany)
- Overseas Lecture 8 : April 15 (Fri.) 11:10-11:40 (302)  
Moderator: Toshi Abe (Kurume Univ.)  
Imaging for Planning Endoscopic Skull Base Surgery  
Roberto Maroldi (University of Brescia, Italy)
- Overseas Lecture 9 : April 15 (Fri.) 15:10-15:40 (303)  
Moderator: Kiyoshi Murata (Shiga Univ. of Medical Science)  
MR Imaging of Pulmonary Diseases in Pediatric Patients  
Abdulkakim Coskun (Erciyes University Faculty of Medicine, Turkey)
- Overseas Lecture 10 : April 15 (Fri.) 15:50-16:20 (303)  
Moderator: Yutaka Imai (Tokai Univ.)  
How We Teach Pediatric Radiology in the Residency Program  
Yutaka Sato (University of Iowa, USA)
- Overseas Lecture 11 : April 15 (Fri.) 16:30-17:00 (303)  
Moderator: Koji Takahashi (Asahikawa Medical Univ.)  
From Pulmonary Functional Imaging to Image-based Phenotyping  
Hiroyo Hatabu (Brigham and Women's Hospital, Harvard Medical School, USA)
- Overseas Lecture 12 : April 15 (Fri.) 17:10-17:40 (303)  
Moderator: Shinji Naganawa (Nagoya Univ.)  
New Horizons in Head and Neck Cancer Imaging in Personalized Care  
Yoshimi Anzai (University of Utah, USA)

- Overseas Lecture 13 : April 16 (Sat.) 13:00-13:30 (Main Hall)  
 Moderator: Shigeru Ehara (Iwate Medical Univ.)  
 Theranostic Near Infrared Photoimmunotherapy  
 Hisataka Kobayashi (National Cancer Institute, National Institute of Health, USA)
- Overseas Lecture 14 : April 16 (Sat.) 15:50-16:20 (301)  
 Moderator: Takehiko Gokan (Showa Univ.)  
 Potentials of PET/MRI for the Management of Prostate Cancer  
 Matthias Roethke (German Cancer Research Center(DKIZ), Germany)
- Overseas Lecture 15 : April 16 (Sat.) 9:10-9:40 (302)  
 Moderator: Yasuhito Sasaki (Shonan Kamakura General Hosp.)  
 Characterizing Atherosclerosis, from Inflammation to Calcification  
 H. William Strauss (Memorial Sloan Kettering Cancer Center, USA)
- Overseas Lecture 16 : April 16 (Sat.) 9:50-10:20 (302)  
 Moderator: Yoshiharu Yonekura (NIRS)  
 PET/MR as Tool for Translational Research  
 Markus Schwaiger (Technische Universität München, Nuklearmedizinische  
 Klinik und Poliklinik, Germany)
- Overseas Lecture 17 : April 16 (Sat.) 10:30-11:00 (302)  
 Moderator: Shin-ichiro Kumita (Nippon Medical School)  
 Role of Imaging in Personalized Cardiovascular Care  
 Ignasi Carrio (Hospital Sant Pau, Spain)
- Overseas Lecture 18 : April 16 (Sat.) 11:10-11:40 (302)  
 Moderator: Takashi Kudo (Nagasaki Univ.)  
 Molecular Imaging of the Heart: from Basic to the Clinic  
 Takahiro Higuchi (Universitaetsklinikum Wuerzburg, Germany)
- Overseas Lecture 19 : April 16 (Sat.) 13:40-14:10 (302)  
 Moderator: Hiroshi Honda (Kyushu Univ.)  
 Asian Perspectives of Molecular Imaging  
 Zheng Yu Jin (Peking Union Medical College Hospital, China)
- Overseas Lecture 20 : April 16 (Sat.) 9:50-10:20 (303)  
 Moderator: Takaaki Hosoya (Yamagata Univ.)  
 EBM and Big Data Rush: Double-edged Sword for the Radiologists?  
 Tae Hwan Lim (National Evidence-based Healthcare Collaborating Agency, Korea)
- Overseas Lecture 21 : April 16 (Sat.) 10:30-11:00 (303)  
 Moderator: Takamichi Murakami (Kindai Univ.)  
 Imaging of Small Bowel Tumors: Current Concepts and Future Direction  
 Phillippe Soyer (Université Paris 7-Sorbone, France)

- Overseas Lecture 22 : April 16 (Sat.) 11:10-11:40 (303)  
 Moderator: Yoshihiro Takai (Hirosaki Univ.)  
 Nanomedicine Application from Diagnosis to Treatment in Oncology  
 Seung Hong Choi (Seoul National University Hospital, Korea)
- Overseas Lecture 23 : April 16 (Sat.) 14:20-14:50 (303)  
 Moderator: Yasuo Nakajima (St. Marianna Univ. School of Medicine)  
 Breast Imaging  
 Debra M. Ikeda (Stanford University, USA)
- Overseas Lecture 24 : April 16 (Sat.) 15:00-15:30 (303)  
 Moderator: Kei Takase (Tohoku Univ.)  
 The Role of Emergency Radiologist in the Management of Polytraumatized Patients  
 Mariano Scaglione (Pineta Grande Hospital, Italy)
- Overseas Lecture 25 : April 17 (Sun.) 9:10-9:40 (301)  
 Moderator: Masataka Uetani (Nagasaki Univ.)  
 How to Optimize Finger MRIs?  
 Jean-Luc Drape (Hôpital Cochin - Service de Radiologie B, France)
- Overseas Lecture 26 : April 17 (Sun.) 9:10-9:40 (303)  
 Moderator: Tsuneo Ishiguchi (Aichi Medical Univ.)  
 Combined TACE and RFA of Hepatocellular Carcinoma  
 Chang-Jin Yoon (Seoul National University Bundang Hospital, Korea)

### Keynote Lecture • Symposium

- Keynote Lecture : April 15 (Fri.) 9:10-9:40 (National Convention Hall)  
 Moderator: Masumi Kadoya (Shinshu Univ.)  
 Non-surgical Therapies for Liver Malignancies  
 Jean-Francois H. Geschwind (Yale University School of Medicine, USA)
- Symposium 1 : April 15 (Fri.) 9:50-11:50 (National Convention Hall)  
 「Radiology of HCC –Diagnosis and treatment update–」 (English)  
 Moderator: Yasuyuki Yamashita (Kumamoto Univ.)  
 Susumu Kanazawa (Okayama Univ.)
  1. New Development of Imaging of Liver Cancer  
 Takamichi Murakami (Kindai Univ.)
  2. Interventional radiology (IR) for HCC –TACE–  
 Yasuaki Arai (National Cancer Center Hosp.)
  3. Ablation for Liver Tumors  
 Koichiro Yamakado (Hyogo College of Medicine)
  4. Stereotactic Body Radiation Therapy and Proton Beam Therapy for  
 Hepatocellular Carcinoma  
 Norio Katoh (Hokkaido University Hosp.)
  5. Hepatic fiducial marker placement for image-guided stereotactic radiotherapy  
 Yusuke Sakuhara (Hokkaido University Hosp.)

• Symposium 2 : April 15 (Fri.) 9:10-11:10 (301)

「Progress of Radiation Oncology -Contribution of Molecular Imaging and Biology-」(Japanese)

Moderator: Naoyuki Shigematsu (Keio Univ.)

Kenji Nemoto (Yamagata Univ.)

1. Boron Neutron Capture Therapy and FBPA PET: another type of radionuclide therapy for malignant tumor

Jun Hatazawa (Osaka Univ.)

2. Progress of Clinical Research on the Combination of Radiotherapy and Targeted Therapy

Tomonari Sasaki (Kyushu Univ.)

3. Is it possible to predict outcomes of radiation therapy by FDG-PET/CT?

Noriyoshi Takahashi (Tohoku Univ.)

4. Hot topics in Radionuclide Therapy

Tohru Shiga (Hokkaido Univ.)

5. Hypoxia Imaging with Cu-ATSM and the Application

Yukie Yoshii (NIRS)

6. Evaluation of therapeutic effects of radiotherapy using molecular imaging methods

Hirofumi Fujii (National Cancer Center)

• Keynote Lecture : April 15 (Fri.) 15:10-15:40 (301)

Moderator: Kiyoshi Koizumi (Tokyo Medical Univ. Hachioji Medical Center)  
Molecular Imaging & Therapy Using Sodium/ Iodide Symporter  
June-Key Chung (Seoul National University Hospital, Korea)

• Symposium 3 : April 15 (Fri.) 15:50-17:50 (301)

「Molecular Imaging : its Development and Role in Therapeutic Management」  
(English)

Moderator: Seigo Kinuya (Kanazawa Univ.)

Manabu Hashimoto (Akita Univ.)

1. Current status of Amino-acid PET tracer for imaging of brain tumor

Masashi Kameyama (National Center for Global Health and Medicine)

2. Molecular Imaging of tumor hypoxia with FMISO-PET and future perspective for new therapeutic strategies

Shozo Okamoto (Hokkaido Univ.)

3. Somatostatin Receptor Scintigraphy in Patients with Gastroenteropancreatic neuroendocrine tumors

Yuji Nakamoto (Kyoto Univ.)

4. PET Molecular Imaging with F-18 Fluoroacetate in Hemodynamic Cerebral Ischemia

Ryuichi Nishii (NIRS)

• Keynote Lecture : April 15 (Fri.) 15:10-15:40 (302)

Moderator: Masahiro Hiraoka (Red Cross Wakayama Medical Center)  
MRI Image Guided Radiotherapy

Vincenzo Valentini (Gemelli Art, Italy)

• Symposium 4 : April 15 (Fri.) 15:50–17:50 (302)

「Necessity of Precise Imaging for Advanced Radiation Therapy」(Japanese)

Moderator: Masamitsu Hatakenaka (Sapporo Medical Univ.)

Yasumasa Nishimura (Kindai Univ.)

1. Oncologic Imaging Requested by Advancement of Radiotherapy  
Hiroshi Onishi (Univ. of Yamanashi)
2. Intensity-Modulated Radiation Therapy for Head and Neck Cancers: Treatment Planning with Various Imaging Modalities  
Toru Shibata (Kagawa Univ.)
3. Required Diagnostic Imaging in Radiotherapy for Head and Neck Cancers  
Noriyuki Fujima (Hokkaido University)
4. Stereotactic body radiotherapy for lung cancer: dual-energy spectral CT imaging for pretreatment evaluation  
Masahiko Aoki (Hirosaki Univ.)
5. Diagnostic Imaging Strategy for Radiotherapy of Lung Cancer  
Hidetake Yabuuchi (Kyushu Univ.)
6. The Role of PET-CT in Radiation Therapy Planning  
Kenji Hirata (Hokkaido Univ.)

• Keynote Lecture : April 16 (Sat.) 13:40–14:10 (Main Hall)

Moderator: Noriyuki Tomiyama (Osaka Univ.)

Treatment Monitoring in Oncology: Imaging as a Marker of Precision Medicine for Cancer

Mizuki Nishino (Dana-Farber Cancer Institute, Harvard Medical School, USA)

• Symposium 5 : April 16 (Sat.) 14:20–16:20 (Main Hall)

「Optimization and Quantification of the Therapeutic Effect in Cancer Management」(Japanese)

Moderator: Sadayuki Murayama (Univ. of the Ryukyus)

Koji Murakami (Keio Univ.)

1. Is ADC a Reliable Biomarker for the Prognosis of Head and Neck Cancer?  
Masamitsu Hatakenaka (Sapporo Medical Univ.)
2. Prognosis and Treatment Response Assessment for Lung Cancer  
Hidetake Yabuuchi (Kyushu Univ.)
3. FDG PET Evaluation of Treatment Response in Malignant Lymphoma  
Mitsuaki Tatsumi (Osaka University Hosp.)
4. Response Assessment of Neoadjuvant Chemotherapy in Breast Cancer  
Ukihide Tateishi (Tokyo Medical and Dental Univ.)

• Keynote Lecture : April 16 (Sat.) 9:10–9:40 (301)

Moderator: Kimihiko Kichikawa (Nara Medical Univ.)

Clinical Application of Quantitative DSA: The Impacts on Vascular Disorders Management

Wan-Yuo Guo (Taipei Veterans General Hospital, Taiwan)



• Symposium 6 : April 16 (Sat.) 9:50-11:50 (301)

「Therapeutic Strategy of Radiation Therapy for Malignant Brain Tumors and Role of Diagnostic Imaging Before and After the Therapy」(Japanese)

Moderator: Toshihide Ogawa (Tottori Univ.)

Hidefumi Aoyama (Niigata Univ.)

1. The Role of Peritherapeutic MR imaging for Malignant Glioma: Additive Values of Diffusion-weighted and Perfusion Imaging

Toshinori Hirai (Univ. of Miyazaki)

2. Recent Advances in Peritherapeutic Imaging for Malignant Glioma

Takashi Yoshiura (Kagoshima Univ.)

3. Role of Positron Emission Tomography on the Malignant Glioma Treatment

Shigeru Yamaguchi (Hokkaido Univ.)

4. Radiation Therapy for Glioblastoma Multiforme: Role of Methionine PET

Masayuki Matsuo (Gifu Univ.)

5. Radiotherapy for malignant brain tumors - Possibility of carbon ion radiotherapy -

Masashi Koto (NIRS)

• Keynote Lecture : April 16 (Sat.) 13:00-13:30 (301)

Moderator: Kazuro Sugimura (Kobe Univ.)

Imaging of Gynecologic Tumors: Combining Morphology and Function

Evis Sala (Memorial Sloan Kettering Cancer Center, USA)

• Symposium 7 : April 16 (Sat.) 13:40-15:40 (301)

「Diagnostic Imaging for Genealogical Malignancies with Perspective on Prognostic Prediction and Treatment Strategy」(English)

Moderator: Kaori Togashi (Kyoto Univ.)

Kazuro Sugimura (Kobe Univ.)

1. Endometrial cancer

Shinya Fujii (Tottori Univ.)

2. The Prognostic Evaluation with Treatment Strategy of Cervical Cancer by MR Imaging

Aki Kido (Kyoto Univ.)

3. Role of Diagnostic Imaging in Management of Epithelial Ovarian Cancer

Yumiko Oishi Tanaka (Univ. of Tsukuba)

4. Uterine Sarcoma

Mayumi Takeuchi (Tokushima Univ.)

• Keynote Lecture : April 16 (Sat.) 14:20-14:50 (302)

Moderator: Naofumi Matsunaga (Yamaguchi Univ.)

Cardiac MRI: Its Clinical Impact, Challenges, and Future

Raymond Y Kwong (Brigham and Women's Hospital, Harvard Medical School, USA)

• Symposium 8 : April 16 (Sat.) 15:00-17:00 (302)

「Integrated Diagnostic Imaging of Cardiac Disease」(English)

Moderator: Teruhito Mochizuki (Ehime Univ.)

Hajime Sakuma (Mie University Hosp.)

1. Detecting Ischemia Causing Stenosis by Physiological Indexes.-The Similarities and Differences between CFR and FFR-  
Hitoshi Matsuo (Gifu Heart Center)
2. Recent Advances and Increasing Importance of Cardiac SPECT and PET  
Masao Miyagawa (Ehime Univ.)
3. MRI-based Myocardial Quantitative Evaluation  
Noriko Oyama-Manabe (Hokkaido University Hosp.)
4. Cardiac CT: From Cardiologists Perspective  
Kengo Tanabe (Mitsui Memorial Hosp.)
5. CT Assessment of Myocardial Perfusion and Fibrosis  
Kakuya Kitagawa (Mie University Hosp.)

• Symposium 9 : April 17 (Sun.) 9:50-11:50 (301, Broadcast:302)

「Offense & Defense in Diagnostic Radiology : How to Impress the Attending Physician」(Japanese)

Moderator: Taro Shimono (Osaka City Univ.)

Masaaki Akahane (NTT Medical Center Tokyo)

Introduction to the theme "Offense and Defense in Diagnostic Radiology: How to impress the attending physician."

Taro Shimono (Osaka City Univ.)

1. My Personal Approach on How To Answer to Neurologists and Neurosurgeons  
Toshiaki Akashi (Tohoku Univ.)
2. Chest Imaging - How to Be a User - Friendly Radiologist  
Takeshi Kubo (Kyoto Univ.)
3. Abdominal and General Radiology  
Takeyuki Watadani (The University of Tokyo Hosp.)
4. General and Pediatric-The Strategy of a Bumpkin  
Masashi Koyama (Okazaki City Hosp.)

## Image Interpretation Session (Japanese)

- Image Interpretation Session : April 16 (Sat.) 17:00-19:00 (Main Hall)
  - Moderator: Satoshi Terae (Sapporo City General Hosp.)  
Takashi Koyama (Kurashiki Central Hosp.)
  - Question master: Tomonori Kanda (Teikyo Univ.)  
Takashi Norikane (Kagawa Univ.)
  - Satoshi Yabusaki (Hokkaido University Hosp.)
  - Kei Tsukamoto (Seirei Hamamatsu General Hosp.)  
Hirofumi Koike (Nagasaki University Hosp.)
  - Kenichi Suzuki (Toho Univ. Omori medical center)  
Takashi Koyama (Kurashiki Central Hosp.)
  - Discussor: Youko Kaichi (Hiroshima University Hosp.)  
Hiroki Mukai (Chiba University Hosp.)  
Tsuneo Yamashiro (Univ. of the Ryukyus)  
Aya Hashimoto (Nara City Hosp.)
  - Daichi Kuroiwa (Fukushima Medical University Hosp.)  
Minoru Yamada (Kindai University Hosp.)  
Taisuke Harada (Hokkaido University Hosp.)

## Resident Seminar (Diagnosis)

- Resident Seminar (Diagnosis) 1 :  
April 15 (Fri.) 9:10-11:50 (Main Hall) (Japanese)  
[Neuroradiology, Chest radiology and Nuclear medicine]
  - Moderator: Keiko Toyoda (Teikyo Univ.)  
Atsutaka Okizaki (Asahikawa Medical Univ.)
  - 1. Neuroradiology for the Beginner  
Masafumi Kanoto (Yamagata Univ.)
  - 2. Chest X-ray Interpretation for Beginners  
Saiko Isshiki (Nippon Medical School Musashikosugi Hosp.)
  - 3. FDG-PET: Easily-mistaken Pitfalls and Cautions  
Tadashi Watabe (Osaka Univ.)
- Resident Seminar (Diagnosis) 2 :  
April 16 (Sat.) 9:10-11:50 (Main Hall) (Japanese)  
[Cardiac, abdominal and interventional radiology]
  - Moderator: Noriko Oyama-Manabe (Hokkaido University Hosp.)  
Kenichi Kato (Iwate Medical Univ.)
  - 1. The Role of Multimodality Imaging in the Management of Cardiac Disease  
Teruhito Kido (Ehime Univ.)
  - 2. Lessons for Reading Abdominal CT; Enhancing Your Lesion Detectability  
Shigeki Arizono (Kyoto Univ.)
  - 3. IVR Meets Post-Surgical Complications!  
Daisuke Abo (Hokkaido University Hosp.)

## Resident Seminar (Radiation Oncology)

- Resident Seminar (Radiation Oncology) :

April 15 (Fri.) 15:10-17:10 (National Convention Hall) (Japanese)

Moderator: Rikiya Onimaru (Hokkaido Univ.)

1. Importance of Making the Evidence

Yoshinori Ito (National Cancer Center Hosp.)

2. How Do We Describe a Good Protocol for Clinical Trials?

Naoto Shikama (Saitama Medical Univ. International Medical Center)

3. Medical Statistics for Clinical Research

Yoichi M.Ito (Hokkaido Univ.)

## Educational Lecture (Japanese)

- Educational Lecture 1 :

April 15 (Fri.) 8:00-9:00 (National Convention Hall)



「[MOC requirements] Radiation safety/protection」 ※JRS members only

Moderator: Yoshiaki Narimatsu (Kawasaki Municipal Hosp.)

1. Radiation Protection and Reduction During Interventional Radiology

Masakazu Hirakawa (Kyushu University Beppu Hosp.)

2. Safe Use of iodine Contrast Media

Yoshifumi Narumi (Osaka Medical College)

- Educational Lecture 2 : April 15 (Fri.) 8:00-9:00 (Main Hall)

「Gastrointestinal radiology 1」

Moderator: Kengo Yoshimitsu (Fukuoka Univ.)

1. Pathological Diagnosis of Hepatocellular Carcinoma

Shinichi Aishima (Saga Univ.)

2. A Guide to Interpreting Computed Tomography Images of Hepatocellular Carcinoma

Kazuhiko Ueda (The Cancer Institute Hosp. of JFCR)

- Educational Lecture 3 : April 15 (Fri.) 8:00-9:00 (301)

「Genitourinary radiology 1」

Moderator: Takehiko Gokan (Showa Univ.)

1. Differentiation of Histologic Subtypes of Renal Cell Carcinoma

Hirota Akita (Keio Univ.)

2. Imaging of Hereditary Renal tumors I

Nagaaki Marugami (Nara Medical Univ.)

- Educational Lecture 4 : April 15 (Fri.) 8:00-9:00 (302)

「Chest radiology 1」

Moderator: Yoshiharu Ohno (Kobe Univ.)

1. Imaging of IPF/UIP and NSIP

Fumikazu Sakai (Saitama Medical Univ. International Medical Center)

2. Imaging Diagnosis of Idiopathic Acute or Subacute Interstitial Pneumonias (cryptogenic organizing pneumonia, acute interstitial pneumonia)

Kazuya Ichikado (Saiseikai Kumamoto Hosp.)

• Educational Lecture 5 : April 15 (Fri.) 8:00-9:00 (303)

〔Neuroradiology 1〕

Moderator: Osamu Abe (Nihon Univ.)

Advanced MR Imaging in the Traumatic Brain Injury

Toshiaki Taoka (Nagoya Univ.)

• Educational Lecture 6 : April 15 (Fri.) 8:00-9:00 (304)

〔Nuclear Medicine 1〕

Moderator: Jun Hashimoto (Tokai Univ.)

1. Appropriate Procedures for Myocardial Perfusion SPECT

Masao Miyagawa (Ehime Univ.)

2. Image Interpretation Method of Myocardial Perfusion SPECT

Yoshimitsu Fukushima (Nippon Medical School Hosp.)

• Educational Lecture 7 : April 15 (Fri.) 8:00-9:00 (311+312)

〔Cardiac radiology 1〕

Moderator: Michinobu Nagao (Kyushu Univ.)

1. Coronary Artery Imaging: What Should Radiologists Know?

Daisuke Utsunomiya (Kumamoto Univ.)

2. Diagnostic Imaging of Myocardial Disease

Yoshiaki Morita (National Cerebral and Cardiovascular Center)

• Educational Lecture 8 : April 15 (Fri.) 8:00-9:00 (313+314)

〔Musculoskeletal radiology 1〕

Moderator: Hideharu Sugimoto (Jichi Medical Univ.)

1. Imaging of Ankle sprain

Yuko Kobashi (Tokyo Dental College Ichikawa General Hosp.)

2. Imaging of the Wrist

Kaoru Kitsukawa (St. Marianna Univ. School of Medicine)

• Educational Lecture 9 : April 15 (Fri.) 8:00-9:00 (315)

〔Interventional radiology 1〕

Moderator: Shigeru Furui (Teikyo Univ.)

1. Percutaneous Needle Biopsy: Tips and Tricks to Obtain Good Specimen Safely  
Shunsuke Sugawara (National Cancer Center Hosp.)

2. CT-guided Percutaneous Abscess Drainage

Yoshitaka Tamura (Kumamoto Univ.)

• Educational Lecture 10 :

April 15 (Fri.) 8:00-9:00 (Annex Hall F205+206)

〔Radiation oncology 1〕

Moderator: Katsumasa Nakamura (Hamamatsu Univ. School of Medicine)

1. Tongue Cancer: Imagine If You Should Lose Your Tongue

Ryoichi Yoshimura (Tokyo Medical and Dental Univ.)

2. Radiation Therapy for Pharyngeal and Laryngeal Malignancies

Tomoaki Okimoto (Hyogo Ion Beam Medical Center)

• Educational Lecture 11 :

April 15 (Fri.) 9:10-10:10 (Annex Hall F205+206)

〔Radiation oncology 2〕

Moderator: Takashi Nakano (Gunma Univ.)


1. Prostate

Toshio Ohashi (Keio Univ.)

2. Image-guided brachytherapy for uterine cervical cancer

Shin-ei Noda (Gunma Univ.)

• Educational Lecture 12 :

April 16 (Sat.) 8:00-9:00 (National Convention Hall) 

〔〔MOC requirements〕 Medical ethics〕 ※JRS members only

Moderator: Masatoshi Hasegawa (Nara Medical Univ.)

1. Research Ethics and Conflict of Interests, Basics and Practice: Up to Date

Chieko Kurihara (NIRS)

2. Cases and Guidelines concerning the Ethics of Terminal Care

Hitoshi Arima (Yokohama City Univ.)

• Educational Lecture 13 : April 16 (Sat.) 8:00-9:00 (Main Hall)

〔Gastrointestinal radiology 2〕

Moderator: Kazuo Awai (Hiroshima Univ.)

1. Gd-EOB-DTPA Enhanced MR Imaging for Hepatocellular Carcinoma

Azusa Kitao (Kanazawa University Hosp.)

2. Imaging Findings of Early Intrahepatic Cholangiocarcinoma

Kazuto Kozaka (Kanazawa Univ.)

• Educational Lecture 14 : April 16 (Sat.) 8:00-9:00 (301)

〔Genitourinary radiology 2〕

Moderator: Hiroshi Shinmoto (National Defense Medical College)

1. Staging of Uterine Cervical Cancer

Kazuhiro Kitajima (Hyogo College of Medicine)

2. Preoperative Staging of Endometrial Cancer

Go Nakai (Osaka Medical College)

• Educational Lecture 15 : April 16 (Sat.) 8:00-9:00 (302)

〔Radiation oncology 3〕

Moderator: Hideyuki Sakurai (Univ. of Tsukuba)

1. Proton Beam Therapy for Children

Hiroshi Fuji (National Center for Child Health and Development)

2. Carbon Ion Radiotherapy for Bone and Soft Tissue Sarcomas

Reiko Imai (NIRS)

- Educational Lecture 16 : April 16 (Sat.) 8:00-9:00 (303)  
 [Neuroradiology 2]  
 Moderator: Yukunori Korogi (Univ. of Occupational and Environmental Health)
  1. Imaging of Traumatic Head Injury  
 Mitsuru Matsuki (Kindai Univ.)
  2. Traumatic brain injury in Children  
 Yuki Wakata (Hyogo College of Medicine)
  
- Educational Lecture 17 : April 16 (Sat.) 8:00-9:00 (304)  
 [Nuclear Medicine 2]  
 Moderator: Shigeru Kosuda (Koseikai Clinic)
  1. FDG-PET/CT in Hepatobiliary and Pancreatic Diseases - Pearls and Pitfalls  
 Koya Nakatani (Kurashiki Central Hosp.)
  2. Oncologic PET/CT: Breast cancer  
 Ukihide Tateishi (Tokyo Medical and Dental Univ.)
  
- Educational Lecture 18 : April 16 (Sat.) 8:00-9:00 (311+312)  
 [Head and Neck Radiology 1]  
 Moderator: Tatsuhiko Nakasato (Iwate Medical Univ.)
  1. Oral cancer: Anatomy and Imaging  
 Koji Sato (Fujita Health Univ.)
  2. Treatment and Evaluation of Oral Cancer  
 Kuniyasu Moridera (Hyogo College of Medicine)
  
- Educational Lecture 19 : April 16 (Sat.) 8:00-9:00 (313+314)  
 [Musculoskeletal radiology 2]  
 Moderator: Mamoru Niitsu (Saitama Medical University Hosp.)
  1. Imaging Features of the Metabolic Bone Disease  
 Shoichiro Takao (Tokushima Univ.)
  2. Musculoskeletal Lesions Associated with Systemic Diseases  
 Hajime Fujimoto (Numazu City Hosp.)
  
- Educational Lecture 20 : April 16 (Sat.) 8:00-9:00 (315)  
 [Interventional radiology 2]  
 Moderator: Shozo Hirota (Hyogo College of Medicine)
  1. Percutaneous Sclerotherapy for Venous Malformations and Sclerotherapy for Arteriovenous Malformations  
 Shigeki Imai (Southern Tohoku General Hosp.)
  2. Radiofrequency Ablation for the Treatment of Malignant Lung and Adrenal Tumors  
 Takaaki Hasegawa (Aichi Cancer Center Hosp.)

• Educational Lecture 21 :

April 16 (Sat.) 8:00-9:00 (Annex Hall F205+206)

〔Chest radiology 2〕

Moderator: Kazuto Ashizawa (Nagasaki Univ.)

1. Smoking-related Interstitial Pneumonias (DIP, RBILD, and other CT findings in smokers)

Tae Iwasawa (Kanagawa Cardiovascular and Respiratory Center)

2. Imaging of Rare IIPs and Histologic Patterns in New ATS/ERS Multidisciplinary Classification of the IIPs

Takeshi Johkoh (Kinki Central Hosp.)

• Educational Lecture 22 :

April 16 (Sat.) 9:10-10:10 (Annex Hall F205+206)

〔Breast Imaging〕

Moderator: Takayoshi Uematsu (Shizuoka Cancer Center)

RCT on Effectiveness of Mammography and Adjunctive Ultrasonography for Breast cancer screening, J-START

Noriaki Ohuchi (Tohoku Univ.)

• Educational Lecture 23 :

April 16 (Sat.) 10:10-11:10 (Annex Hall F205+206)

〔Cardiac radiology 2〕

Moderator: Kunihiro Yoshioka (Iwate Medical Univ.)

Imaging and Treatment of Aortic Dissection: Comprehensive Review

Eijun Sueyoshi (Nagasaki Univ.)

• Educational Lecture 24 :

April 16 (Sat.) 13:00-14:00 (Annex Hall F205+206)

〔Radiation oncology 4〕

Moderator: Yasushi Nagata (Hiroshima Univ.)

1. Chemoradiotherapy for Esophageal Cancer - Current status and future directions - Keiji Nihei (Tokyo Metropolitan Cancer and Infectious diseases Center Komagome Hosp.)

2. Chemoradiotherapy for Locally Advanced Non-small Cell lung Cancer

Yuko Nakayama (Kanagawa Cancer Center)

• Educational Lecture 25 :

April 16 (Sat.) 14:00-15:00 (Annex Hall F205+206)

〔Radiation oncology 5〕

Moderator: Yasuhiro Ogawa (Hyogo Prefectural Kakogawa Medical Center)

1. Hyperthermia

Nobue Uchida (Tottori Univ.)

2. Normal Tissue Reaction

Hideki Hirata (Kyushu Univ.)



• Educational Lecture 26 :

April 16 (Sat.) 15:00-16:00 (Annex Hall F205+206)



〔[MOC requirements] Radiation safety/protection〕 ※JRS members only

Moderator: Ryohei Sasaki (Kobe University Hosp.)

1. Medical Radiation Safety

Ichiro Yamaguchi (National Institute of Public Health)

2. Radiation Emergency Medicine in Fukushima nuclear power plant disaster

Hisashi Sato (Fukushima Medical Univ.)

• Educational Lecture 27 :

April 16 (Sat.) 16:00-17:00 (Annex Hall F205+206)

〔Chest radiology 3〕

Moderator: Masashi Takahashi (Yujin-Yamazaki Hosp.)

1. Unclassifiable Idiopathic Interstitial Pneumonias: Clinical Concept and Thin-Section/High-Resolution CT Findings

Kiminori Fujimoto (Kurume Univ.)

2. Before Diagnosing "Idiopathic" Interstitial Pneumonitis

Noma Satoshi (Tenri Hosp.)

• Educational Lecture 28 : April 17 (Sun.) 8:00-9:00 (Main Hall)



〔[MOC Requirements] Quality of Imaging Diagnosis〕 ※JRS members only

Moderator: Tamio Kushihashi (Showa University Northern Yokohama Hosp.)

1. Basics for Radiologist

Yutaka Emoto (Kyoto College of Medical Science)

2. Overview of IHE ITI for Medical Practice in a Union of Medical Facilities of a Community

Norinari Honda (Saitama Medical Center)

• Educational Lecture 29 : April 17 (Sun.) 8:00-9:00 (301)

〔Gastrointestinal radiology 3〕

Moderator: Masayuki Kanematsu (Gifu Prefecural General Medical Center)

1. Diagnostic Imaging of Liver Metastases

Satoshi Goshima (Gifu University Hosp.)

2. CT and MRI of Uncommon Malignant Liver Tumors

Katsuhiro Sano (Saitama Medical Univ. International Medical Center)

• Educational Lecture 30 : April 17 (Sun.) 8:00-9:00 (302)

〔Cardiac radiology 3〕

Moderator: Hiromitsu Hayashi (Nippon Medical School)

1. Role of Imaging in Pulmonary Hypertension

Hideki Ota (Tohoku Univ.)

2. Diagnostic and Interventional Radiology of Venous Thromboembolism

Hiroyuki Tajima (Nippon Medical School Musashikosugi Hosp.)

• Educational Lecture 31 : April 17 (Sun.) 8:00-9:00 (303)

〔Neuroradiology 3〕

Moderator: Hajime Kitagaki (Shimane Univ.)

1. Spinal Trauma

Tsutomu Inaoka (Toho University Sakura Hosp.)

2. Sports Related Head Injury

Haruo Nakayama (Toho Univ. Ohashi Medical Center Neurosurgery)

• Educational Lecture 32 : April 17 (Sun.) 8:00-9:00 (304)

〔Nuclear Medicine 3〕

Moderator: Eku Shimosegawa (Osaka Univ.)

1. Nuclear Medicine in Dementia: Cerebral Blood Flow SPECT and

Fluorodeoxyglucose PET

Kato Takashi (National Center for Geriatrics and Gerontology)

2. Molecular Neuroimaging in Dementia

Hiroshi Matsuda (National Center of Neurology and Psychiatry)

• Educational Lecture 33 : April 17 (Sun.) 8:00-9:30 (311+312)

〔Pediatric Radiology〕

Moderator: Noriko Aida (Kanagawa Children's Medical Center)

1. Gastrointestinal Diseases in the Perinatal Period

Rieko Furukawa (Jichi Children's Medical Center Tochigi)

2. Pediatric Gastrointestinal Diseases Seen in Emergency Rooms

Atsuko Fujikawa (St. Marianna Univ. School of Medicine)

3. Hepatobiliary and Pancreatic disease- Minimal essence of Pediatric radiology

Masahiro Kitami (Tohoku Univ.)

• Educational Lecture 34 : April 17 (Sun.) 8:00-9:00 (313+314)

〔Head and Neck Radiology 2〕

Moderator: Takao Kodama (Miyazaki Prefectural Miyazaki Hosp.)

1. Imaging Anatomy and Diagnosis of Oropharynx

Takashi Katsube (Shimane University Hosp.)

2. Medical Treatments for the Oropharynx Cancer; Methods, Results, and Evaluation After Treatments

Kazuo Kusuhara (Univ. of Miyazaki)

• Educational Lecture 35 : April 17 (Sun.) 8:00-9:00 (315)

〔Interventional radiology 3〕

Moderator: Hiroya Saitoh (Sapporo Higashi Tokushukai Hosp.)

1. Radiofrequency Ablation for Small Renal Cell Carcinomas and Musculoskeletal Tumors

Takashi Yamanaka (Mie University Hosp.)

2. Cryoablation; Kidney, Bone and Soft Tissue

Hiroyasu Fujiwara (Okayama University Hosp.)

• Educational Lecture 36 :

April 17 (Sun.) 8:00-9:00 (Annex Hall F205+206)



「[MOC Requirements] Quality of Radiotherapy」 ※JRS members only

Moderator: Tadashi Kamada (NIRS)

Quality of Radiotherapy

Yoshinori Ito (National Cancer Center Hosp.)

• Educational Lecture 37 :

April 17 (Sun.) 9:10-10:10 (Annex Hall F205+206)

「Radiation oncology 6」

Moderator: Yoshikazu Kagami (Showa Univ.)

1. Head and Neck Cancer

Yuji Murakami (Hiroshima Univ.)

2. Intensity-modulated Radiotherapy for Prostate Cancer

Katsumasa Nakamura (Hamamatsu Univ. School of Medicine)

• Educational Lecture 38 :

April 17 (Sun.) 10:20-11:20 (Annex Hall F205+206)

「Radiation oncology 7」

Moderator: Tetsuo Akimoto (National Cancer Center East)

1. Prevention and Management for Radiation Dermatitis and Mucositis

Chikako Yamauchi (Shiga Medical Center for Adults)

2. Radiation Induced Lung Injury

Kayoko Tsujino (Hyogo Cancer Center)

### 指導者講習会

• 指導者講習会 : April 15 (Fri.) 10:50-11:50 (Annex Hall F205+206)

Moderator: Masumi Kadoya (Shinshu Univ.)

Lecture: Manabu Minami (Univ. of Tsukuba)

• 指導者講習会 : April 17 (Sun.) 13:00-14:00 (National Convention Hall)

Moderator: Masumi Kadoya (Shinshu Univ.)

Lecture: Yasushi Kaji (Dokkyo Medical Univ.)

## CT colonography hands-on training course

- CT colonography hands-on training course :  
April 14 (Thu.) 10:00-18:00 (Annex Hall)

## JCR Hour 2016

- JCR Hour 2016 : April 17 (Sun.) 13:10-14:40 (Annex Hall F205+206)  
[How will it look like? Our future of Radiology]

Moderator: Hiroshi Ohnishi (Univ. of Yamanashi)  
Ryo Takagi (Nippon Medical School)

1. Radiology and Healthcare Transformation in the USA: Present and Future  
Yoshimi Anzai (University of Utah, U.S.A.)
2. Choosing wisely: Radiologists get involved in ensuring appropriateness of the indication  
Kanako Kumamaru (Juntendo Univ.)
3. Medical policies towards 2025  
Kazuhiro Oshima (cabinet secretariat, office of healthcare policy)

## Luncheon Seminar

- Luncheon Seminar 1 : April 15 (Fri.) 12:00-12:50 (Main Hall)  
[Latest information of Gadovist enhanced-MRI]

Moderator: Shigeki Aoki (Juntendo Univ.)

1. Gadovist initial usage experiences in CNS field  
Akio Hiwatashi (Kyushu Univ.)
2. Current evidence in Gd signal intensity increase in the brain: what we know and what we do not know  
Alexander Radbruch (University of Heidelberg, Germany)

Sponsored by : Bayer Yakuhiin, Ltd.

- Luncheon Seminar 2 : April 15 (Fri.) 12:00-12:50 (301)  
[3T MRI : Advanced Applications]

Moderator: Masahiro Jinzaki (Keio Univ.)

1. Practical Tools, MAGiC\* and Zero TE MRA \*SyMRI  
Masaaki Hori (Juntendo Univ.)
2. Body Imaging Up to Data: 3T MRI including SIGNA Pioneer  
Takayuki Masui (Seirei Hamamatsu General Hosp.)

Sponsored by : GE Healthcare Japan Corporation

- Luncheon Seminar 3 : April 15 (Fri.) 12:00-12:50 (302)

Moderator: Naoyuki Shigematsu (Keio Univ.)

Initial experience of radiation therapy using TrueBeam

Kiyoshi Nakamatsu (Kindai Univ.)

Sponsored by : Varian Medical Systems K. K.

• Luncheon Seminar 4 : April 15 (Fri.) 12:00-12:50 (303)

「Expanding the clinical capabilities with cutting-edge 3T MRI technologies」

Part1

Moderator: Shinji Naganawa (Nagoya Univ.)

1. Reasons for me to select Olea

Toshiaki Taoka (Nagoya University Hosp.)

2. Clinical Neuroimaging and Analysis with Vitrea Workstation

Kazuhiro Murayama (Fujita Health Univ.)

Part2

Moderator: Toshiaki Nitatori (Kyorin Univ.)

1. State of the Art Clinical Application for Body Imaging at Vantage Titan 3T  
Saturn Gradient

Yoshiharu Ohno (Kobe Univ.)

Sponsored by : TOSHIBA MEDICAL SYSTEMS CORPORATION

• Luncheon Seminar 5 : April 15 (Fri.) 12:00-12:50 (304)

「Innovations at MRI and CT」

Moderator: Yukio Miki (Osaka City Univ.)

1. Latest topics of brain MRI ~ Beyond the clinical routine ~

Takashi Yoshiura (Kagoshima Univ.)

2. Updating of clinical utility in IR techniques and an expectation for Spectral CT  
~ Practical tips for iDose4 and IMR ~

Kazuhiro Katahira (Kumamoto Chuo Hosp.)

Sponsored by : Philips Electronics Japan LTD

• Luncheon Seminar 6 : April 15 (Fri.) 12:00-12:50 (311+312)

Moderator: Nobuya Higuchi (Tokyo Medical Center)

It is also possible to establish cooperation with any PACS manufacturer!? Your diagnostic power is increased naturally as though it were a game!? You can see innovative PACS related software!!

Kenichi Matsunaga (Takeda General Hosp.)

Sponsored by : Yokogawa Medical Solutions Corporation

• Luncheon Seminar 7 : April 15 (Fri.) 12:00-12:50 (313+314)

Moderator: Seigo Kinuya (Kanazawa Univ.)

Update on Radiotherapy for Prostate Cancer

Tetsuo Akimoto (National Cancer Center East)

Makoto Hosono (Kindai Univ.)

Sponsored by : Bayer Yakuhin, Ltd.

• Luncheon Seminar 8 : April 15 (Fri.) 12:00-12:50 (315)

Moderator: Masafumi Harada (Tokushima Univ.)

Brain Structures and Oxygen Metabolism Visualized by Quantitative Susceptibility Mapping (QSM)

Kohsuke Kudo (Hokkaido Univ.)

Sponsored by : Hitachi Medical Corporation

• Luncheon Seminar 9 : April 15 (Fri.) 12:00-12:50 (416+417)

Moderator: Hiroko Tsunoda (St.Lukes's International Hosp.)

Hot News of digital mammography in 2016

Tokiko Endo (National Hospital Organization Higashi Nagoya Hosp.)

Sponsored by : FUJIFILM Medical Co., Ltd.

• Luncheon Seminar 10 :

April 15 (Fri.) 12:00-12:50 (Annex Hall F205+206)

Moderator: Kazuro Sugimura (Kobe Univ.)

yes, DS! Practical Personalized Low Dose in the real world

Shuhei Sato (Okayama Univ.)

Satoru Takahashi (Kobe Univ.)

Sponsored by : Siemens Healthcare K.K.

• Luncheon Seminar 11 : April 16 (Sat.) 12:00-12:50 (Main Hall)

「Clinical Impact of Cardiovascular Imaging using Area Detector CT」

Moderator: Kunihiro Yoshioka (Iwate Medical Univ.)

1. Clinical Impact of 320row Area Detector CT – Coronary Artery Imaging –

Kanako Kumamaru (Juntendo Univ.)

2. Clinical Impact of FIRST – Adult and pediatric cardiovascular Imaging –

Eriko Maeda (The University of Tokyo Hosp. 22nd Medical and Research Center)

3. Clinical Impact of 320row Area Detector CT – Myocardial Perfusion Imaging –

Noriko Manabe (Hokkaido University Hosp.)

Sponsored by : TOSHIBA MEDICAL SYSTEMS CORPORATION

• Luncheon Seminar 12 : April 16 (Sat.) 12:00-12:50 (301)

Moderator: Yasushi Koyama (Sakurabashi Watanabe Hosp.)

Stress CT perfusion from start-up!

Akira Kurata (Ehime Univ.)

Sponsored by : Bayer Yakuhin, Ltd.

• Luncheon Seminar 13 : April 16 (Sat.) 12:00-12:50 (302)

「Current Status and Future Perspective of CT Spectral Imaging」

Moderator: Kuni Ohtomo (The Univ. of Tokyo)

Features of Dual Energy and Photon Counting Technologies

Robert F Senzig (GE Healthcare USA)

Yasuhiro Imai (GE Healthcare Japan)

Sponsored by : GE Healthcare Japan Corporation

• Luncheon Seminar 14 : April 16 (Sat.) 12:00-12:50 (303)

Moderator: Nagara Tamaki (Hokkaido Univ.)

The Munich Experience with Siemens Biograph mMR

Markus Schwaiger (TUM School of Medicine, Germany)

Sponsored by : Siemens Healthcare K.K.

• Luncheon Seminar 15 : April 16 (Sat.) 12:00-12:50 (304)

〔New Trends and Innovations in Image Guidance and Assessment for TACE〕

Moderator: Shiro Miyayama (Fukui-ken Saiseikai Hosp.)

1. Connecting image guidance to therapy delivery in Interventional Oncology  
Alessandro Radaelli (Philips Electronics, Netherlands)
2. The next phase in image guidance during TACE: how can we assess therapy?  
Jean-Francois H. Geschwind (Yale University School of Medicine, USA)

Sponsored by : Philips Electronics Japan LTD

• Luncheon Seminar 16 : April 16 (Sat.) 12:00-12:50 (311+312)

〔High-Precision Radiotherapy using Fiducial Marker VISICOIL〕

Moderator: Takushi Dokiya (Kyoundo Hosp.)

1. Don't worry, VISICOIL is visible!  
Hiroshi Onishi (Univ. of Yamanashi)
2. IMRT for Prostate cancer using VISICOIL: technique and problems  
Kazuo Hatano (Tokyo bay advanced imaging&radiation oncology clinic-Makuhari)

Sponsored by : Sceti Medical Labo K.K.

• Luncheon Seminar 17 : April 16 (Sat.) 12:00-12:50 (313+314)

〔Usefulness of Noise Reduction Software〕

Moderator: Masahiro Jinzaki (Keio University Hosp.)

Usefulness of Noise Reduction Software in CT/MRI

Kazuhiro Katahira (Kumamoto Chuo Hosp.)

Sponsored by : AZE, Ltd

• Luncheon Seminar 18 : April 16 (Sat.) 12:00-12:50 (315)

Moderator: Koichiro Abe (Tokyo Women's Medical Univ.)

Diagnosis and Treatment of Pancreatic, Gastrointestinal Neuroendocrine Tumor  
in Japan

Tetsuhide Ito (Kyushu Univ.)

Sponsored by : FUJIFILM RI Pharma Co., Ltd

• Luncheon Seminar 19 : April 16 (Sat.) 12:00-12:50 (416+417)

Moderator: Takashi Yoshiura (Kagoshima University Medical and Dental Hosp.)

Training System for Diagnostic Report "Beyond the Framework of Teaching File"

Kohsuke Kudo (Hokkaido University Hosp.)

Sponsored by : J-MAC SYSTEM, INC.

• Luncheon Seminar 20 :

April 16 (Sat.) 12:00-12:50 (Annex Hall F205+206)

「Creation of value-added application in clinical use (General radiography)」

Moderator: Shuji Sakai (Tokyo Women's Medical Univ.)

1. Practical application of tomosynthesis and energy-subtraction method in our institution

Kosuke Morita (Tokyo Women's Medical University Hosp.)

2. Investigation of chest-tomosynthesis with iterative reconstruction algorithm

Yukihiro Nagatani (Shiga Univ. of Medical Science)

Sponsored by : SHIMADZU CORPORATION

• Luncheon Seminar 21 : April 17 (Sun.) 12:00-12:50 (Main Hall)

「Contrast enhanced CT — Clinical images with the state of the art technologies—」

Moderator: Masahiro Jinzaki (Keio Univ.)

1. Abdominal contrast enhanced CT—Quantity of optimal intravenous contrast agent iodine dose with a latest diagnosis technology—

Satoshi Goshima (Gifu University Hosp.)

2. Latest trends of clinical applications in cardiac CT

Haruhiko Machida (Tokyo Women's Medical Univ. Medical Center East)

Sponsored by : DAIICHI SANKYO CO.,LTD.

• Luncheon Seminar 22 : April 17 (Sun.) 12:00-12:50 (301)

「Brain tumor diagnosis and management by the MRI」

Moderator: Osamu Abe (Nihon Univ.)

1. Management of brain tumor using contrast media

Toshiaki Taoka (Nagoya Univ.)

2. Non-contrast MR imaging for brain tumors: Recent advances

Takashi Yoshiura (Kagoshima Univ.)

Sponsored by : Fuji Pharma Co., Ltd.

• Luncheon Seminar 23 : April 17 (Sun.) 12:00-12:50 (302)

Moderator: Takamichi Murakami (Kindai Univ.)

Administration of the contrast agent at CT and MR based on pharmacokinetics

Kazuo Awai (Hiroshima Univ.)

Sponsored by : Eisai Co., Ltd.

• Luncheon Seminar 24 : April 17 (Sun.) 12:00-12:50 (303)

Moderator: Takashi Terauchi (Cancer Institute Hosp.)

Staging and Response assessment based on PET/CT —Lugano Classification—

Koji Izutsu (Toranomon Hosp.)

Sponsored by : Nihon Medi-Physics Co., Ltd.

• Luncheon Seminar 25 : April 17 (Sun.) 12:00-12:50 (304)

Moderator: Takuji Yamagami (Kochi Univ.)

On the front line of VTE treatment: the Single-Drug Approach

Takeshi Yamamoto (Nippon Medical School Hosp.)

Sponsored by : Bristol-Myers K.K. / Pfizer Japan Inc.



- Luncheon Seminar 26 : April 17 (Sun.) 12:00-12:50 (311+312)

Moderator: Kimiichi Uno (Gaien Higashi Clinic)

Dedicated breast PET MAMMI, an extraordinary tool to improve breast cancer diagnosis and treatments

Michel Herranz (USC Hospital Complex, GALARIA-SERGAS, Spain)

Sponsored by : Meditec Far East Inc.
  
- Luncheon Seminar 27 : April 17 (Sun.) 12:00-12:50 (313+314)

Moderator: Hiromi Oda (Saitama Medical University Hosp.)

Clinical Value of a new X-ray imaging system based on Talbot-Lau interferometry

Tokiko Endo (National Hospital Organization Nagoya Medical Center)

Hiroyuki Yoshioka (Saitama Medical University Hosp.)

Sponsored by : Konica Minolta Health Care Co., Ltd.
  
- Luncheon Seminar 28 : April 17 (Sun.) 12:00-12:50 (315)

• 「New Horizon of 4D Imaging」

Moderator: Yasuo Nakajima (St. Marianna Univ. School of Medicine)

  1. Clinical Effectiveness of PhyZiodynamics application on TAVI Planning & Assessment

Kentaro Hayashida (Keio Univ.)

  2. Post-processing of CT data supporting interventional radiology and emergency medicine

Yoshiaki Ichinose (National Hospital Organization Disaster Medical Center)

Sponsored by : Ziosoft, Inc. / Amin Co., Ltd.
  
- Luncheon Seminar 29 : April 17 (Sun.) 12:00-12:50 (416+417)

「What's FFR<sub>CT</sub>—The New Method of Non-Invasive Functional Testing Using Cardiac CT」

Moderator: Teruhito Mochizuki (Ehime Univ.)

  1. Perspective from Cardiologist

Hitoshi Matsuo (Gifu Heart Center)

  2. Perspective from Radiologist

Kunihiro Yoshioka (Iwate Medical Univ.)

Sponsored by : HeartFlow, GK.
  
- Luncheon Seminar 30 :

April 17 (Sun.) 12:00-12:50 (Annex Hall F203+204)

Moderator: Jianping Dai (Beijing Tian Tan Hospital Capital Medical University, China)

Influence of imaging parameters on the detection of gadolinium concentration in artificial CSF in FLAIR MR Imaging at low field strength

Desheng Zhang (Jingchang Central Hospital, China)

Sponsored by : Nuesoft Medical Systems Co., Ltd. / Chartwell Healthcare Corporation

• Luncheon Seminar 31 :

April 17 (Sun.) 12:00-12:50 (Annex Hall F205+206)

Moderator: Kengo Yoshimitsu (Fukuoka Univ.)

Enjoy a comfortable work environment with a PACS for interpretation and other needs.

Kazuhiro Katahira (Kumamoto Chuo Hosp.)

Sponsored by : PSP Corporation.

## Educational Exhibition Programs

April 14 (Thu.) ~ April 17 (Sun.)

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### Neuroradiology

- E001 MR Imaging of Horizontal Eye Movement Disorders Caused by Brainstem Lesions  
Dept of Radiology, Nagasaki Kita Hosp. / Makoto Ochi
- E002 Secondary degeneration of the brain after localized brain injury: MR imaging findings  
Dept. of Diagnostic Radiology, Saitama Medical University International Medical Center / Akira Uchino
- E003 MR Imaging of Paraneoplastic Neurological Syndrome  
Dept. of Radiology, Hyogo College of Medicine / Kumiko Ando
- E004 Radiological spectrum of treatment-related disorders of the brain and signal change of the cranial nerve relating to tumor extension  
Dept. of Radiology, Yamaguchi University School of Medicine / Matakazu Furukawa
- E005 CT and MR imaging of dural arteriovenous fistulas  
Department of Diagnostic Radiology, Tenri Hospital / Hirofumi Yamada
- E006 What is the cause of brain abscess? : Insights from dental CT for differential diagnosis.  
Dept. of Radiology, Tobata Kyoritsu Hospital / Daiji Uchiyama
- E007 The differentiation of ring-enhancing cerebral lesions; the usefulness of advanced MRI biomarkers  
Department of Radioisotope Medicine, Atomic Bomb Disease Institute, Nagasaki University / Reiko Ideguchi

### Head and Neck

- E008 Diagnosis for Nerve of Origin in Head and Neck Schwannomas: MRI features with anatomical correlation  
Department of Radiology, Showa University Fujigaoka Hospital, Yokohama, Japan / Nobuyuki Takeyama
- E009 Utility of PET/MR in head and neck cancer  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine
- E010 MRI findings of trigeminal neuralgia  
Dept. of Radiology, Kansai Medical University Takii Hospital / Koshi Ikeda
- E011 Benign Head and Neck tumors in the Posterior Cervical Space and Surrounding Boundaries to differentiate from Schwannomas  
Department of Radiology, Showa University Fujigaoka Hospital, Yokohama, Japan / Nobuyuki Takeyama
- E012 Deep neck space infections: anatomy, types and spread of infection and imaging findings.  
Dept. of Radiology, Nagasaki University Hospital / Ayano Ishiyama
- E013 Diagnostic imaging of olfactory disorder: review according to the 'pathway of smell'  
Department of Radiology, Tokyo Medical and Dental University, Tokyo, Japan / Tomoyuki Fujioka

- E014 Tumors and Tumor-like conditions of the Inner Canthus of Orbit: Review and Imaging features  
Dept. of Radiology, Kyorin University, Faculty of Medicine / Makiko Ishikawa
- E015 Visual Pathway: Anatomy, Diseases, and the Role of Imaging Studies  
Dept. of Diagnostic Radiology, Kitasato University School of Medicine / Ryutarou Ukisu

### Chest

- E016 Congenital pulmonary vascular anomalies requiring treatment: A pictorial essay  
Dept. of Diagnostic Imaging and Interventional Radiology, Kyoto Katsura Hospital / Koji Tokunaga
- E017 Imaging of central airway disease  
Dept. of Radiology, Terni hospital / Mami Nishioka
- E018 Diagnostic imaging of thoracic injury: penetration injuries and aortic/airway injuries.  
Dept. of Radiology, Asahikawa Medical University / Shunta Ishitoya
- E019 High-resolution CT findings of viral pneumonias  
Dept. of Radiology, Yamaguchi University Graduate School of Medicine / Yoshie Kunihiro
- E020 Imaging findings of cavitating lung lesions  
Dept. of Radiology, Nagoya City University Graduate School of Medical Sciences / Yoshiyuki Ozawa
- E021 The visualization of bronchi and regional lung parenchyma movements using dynamic respiratory CT  
Image Diagnosis Center, Ohara General Hospital / Hiroshi Moriya
- E022 Diffusion-weighted MR imaging and apparent diffusion coefficient values of mediastinal lesions: Usefulness and pitfalls in diagnosis  
Dept. of Radiology, Faculty of Medicine, Saga University / Takahiko Nakazono
- E023 Fully-integrated understanding of thymoma: clinical, pathological, and radiological diagnoses  
Dept. of Radiology, Osaka University Graduate School of Medicine / Masahiro Yanagawa
- E024 Imaging of the thymus: Exploring the spectrum of normal and abnormal thymus in adults  
Department of Radiology, Brigham and Women's Hospital, Harvard Medical School / Tetsuro Araki
- E025 Diagnostic methods of chest wall invasion of lung cancer  
Image Diagnosis Center, Ohara General Hospital / Hiroshi Moriya
- E026 Cystic mediastinal masses: spectrum of diseases with imaging findings  
Dept. of Radiology, Kyushu Medical Center / Kiyomi Furuya

### Cardiovascular

- E027 You can diagnose super-acute myocardial infarction on ECG non-gated contrast enhanced CT, even if clinicians didn't expect the possibility.  
Depy. of Diagnostic Radiology, Kawasaki Saiwai Hospital / Hiroshi Nobusawa
- E028 A central venous stenosis due to SAPHO syndrome tends to be overlooked could be detected on routine contrast-enhanced computed tomography.  
Dept of Radiology, Jichi Medical University / Mizuho Suzuki

- E029 CT imaging of the aortic valve: native valve, prosthetic valve and preoperative planning  
Dept. of Radiology, The Sakakibara Heart Institute of Okayama / Masatoshi Tsunoda
- E030 Acute aortic diseases: Significance of non-contrast-enhanced CT scan findings  
Dept. of Radiology, Asahikawa Medical University / Yasuomi Fujimoto
- E031 How should coronary plaque images on non-contrast T1-weighted magnetic resonance imaging be utilized in regular urban hospitals?  
SAPPORO MEDICAL CENTER NTT EC / Yasuka Kikuchi
- E032 Diagnosis and evaluation of the cardiac sarcoidosis with FDG PET/CT and MRI  
Dept. of Nuclear Medicine, Hokkaido University / Osamu Manabe

### Hepatobiliary and Pancreas

- E033 Are There Any Subtle Clues to Detect Pancreatic Adenocarcinoma on Previous Abdominal CT before Initial Diagnosis?  
Dept of Radiology, Ehime University Graduate School of Medicine / Takaharu Tsuda
- E034 Resected Invasive Ductal Carcinoma of the Pancreas in Patients with or without Preoperative Chemoradiation: Staging and Prognostic Analysis  
Dept. of Diagnostic Radiology, Osaka Medical Center for Cancer and Cardiovascular Diseases / Masayuki Murata
- E035 Value of DWI and Gd-EOB-DTPA-enhanced MRI in the Evaluation of Malignant Liver Tumors: Beyond Hepatocellular Carcinoma  
Dept. of Radiology, Osaka University Graduate School of Medicine / Hiromitsu Onishi
- E036 Hepatic complicated cyst; typical image, differential diagnosis and its natural course  
Dept. of Radiology, Tokyo Metropolitan Ohtsuka Hospital / Takuma Saeki
- E037 Ultrasound approaches for the differentiation of autoimmune pancreatitis and pancreatic cancer  
Dept. of Radiology, Toho University Ohashi Medical Center / Ryuzo Sekiguchi
- E038 Chronic pancreatitis: From past to future  
Dept. of Radiology, Sendai city medical center / Reiji Sugita

### Gastrointestinal

- E039 Imaging Features of Tumors and Tumor-like Lesions of the Appendix  
Dept. of Radiology, National Hospital Organization Kure Medical Center / Yoko Maeda
- E040 CT findings of gastrointestinal tract and other complications caused by fish bones.  
Dept. of Radiology, Okitama General Hospital / Hitoshi Ito
- E041 CT findings of Drug-Induced Gastrointestinal Disorders  
Dept. of Radiology, JMA Ebina Medical Plaza / Eliko Tanaka
- E042 MDCT findings of inflammatory bowel disease  
Dept. of Radiology, Yamaguchi University Graduate School of Medicine / Kensaku Shimizu
- E043 Evaluation of the local depth of invasion of gastric cancer using CT: Comparison with the histopathological findings  
Dept. of Radiology, Kansai Medical University / Hiroaki Kurokawa

- E044 Presurgical CT assessment of detailed abdominal vascular anatomy in the era of minimal invasive surgery  
Dept. of Radiology, St Luke's International Hospital / Takeshi Wada
- E045 Imaging diagnosis of appendix: beyond appendicitis  
Department of Radiology, Shiga University of Medical Science, Shiga, Japan / Akitoshi Inoue

#### Uroradiology

- E046 Primary aldosteronism associated with subclinical Cushing's syndrome: Imaging features and pit falls for adrenal venous sampling  
Dep. of Diagnostic Radiology, Tokyo Medical and Dental University Graduate School of Medicine / Mitsuhiro Kishino
- E047 Imaging of Scrotal Disease: US, CT, MRI  
Dept. of Radiology, Kamagaya General Hospital / Motoaki Sato
- E048 Uncommon Retroperitoneal Masses: CT and MR Imaging Findings  
Dept. of Radiology, National Defense Medical college Hospital / Fumiko Hamabe
- E049 Differential diagnosis of adrenal lesions: a systematic approach  
Dept. of Radiology, Hiroshimai University / Yukiko Honda
- E050 Retroperitoneal masses: what are the diagnostic clues?  
Department of Radiology, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan / Masahiro Tanabe
- E051 Renal Involvement in Systemic Disease: Case-based Approach  
Dept. of Radiology, Nara Medical University / Aki Marugami
- E052 Imaging of retroperitoneal masses  
Dept. of Radiology, Asahikawa Medical University / Naofumi Watanabe

#### Obstetrics/Gynecology

- E053 Current update on MR imaging of endometrial cancer: Beyond staging.  
Division of Radiology, Department of Pathophysiological and Therapeutic Science, Faculty of Medicine, Tottori University / Shinya Fujii
- E054 Update on MR imaging of fallopian tube diseases  
Dept. Radiology, Niigata Cancer Center Hospital / Mina Asatani
- E055 Clinical application of susceptibility-weighted MR imaging in gynecologic diseases  
Dept. of Radiology, University of Tokushima / Mayumi Takeuchi
- E056 MR imaging of the puerperal uterus: A pictorial essay.  
Dept. of Radiology, Japanese Red Cross Medical Center / Akinori Harada
- E057 The Gestational Trophoblastic Disease: the Etiology and Radiologic Features Considering the Difference of the Guideline between Japan and Western Countries  
Dept. of Radiology, Nara Medical University / Junko Takahama
- E058 Imaging characteristics of fallopian tube tumors  
Dept. of Diag Radiol, Toyama Pref Centr Hosp. / Hitoshi Abo
- E059 Imaging features of less common and rare endometriosis sites  
Dept. of Radiology, Toyama Prefectural Central Hosp / Kimiho Kusabiraki
- E060 Imaging features of ectopic pregnancy  
Dept. of Diag Radiol, Toyama Pref Centr Hosp. / Rie Ikeda
- E061 Diagnostic Strategy for Obstetric and Gynecologic Emergency  
Dept. of Radiology, Machida Municipal Hospital / Yoshiko Kurihara

- E062 Unusual Findings of Leiomyomas: Evaluation with CT and MRI  
Dept. of Radiology, Juntendo University Faculty of Medicine / Rie Dosho
- E063 Prenatal diagnosis of placenta accreta: Imaging findings of ultrasonography and magnetic resonance  
Department of Radiology, Kobe University Graduate School of Medicine /  
Utaru Tanaka

#### Breast

- E064 Benign Non-neoplastic Lesions of the Breast: Pictorial Review of Imaging Features.  
Dept. of Radiology, Shinko Hospital / Shuichi Monzawa
- E065 The image of apocrine carcinoma of the breast.  
Dept. of Radiology, Breastopia Miyazaki Hospital / Hiroshi Nakahara

#### Musculoskeletal

- E066 Magnetic Resonance Neurography for the Assessment of Peripheral Nerve Disorders  
Dept. of Radiology, Kurume University School of Medicine / Shuji Nagata
- E067 CT and MR imaging findings of sacral tumors  
Dept. of Radiology, Gifu University School of Medicine / Mitsuyo Teramachi
- E068 Imaging of calcification in the musculoskeletal system  
Dept. of Radiology, Jichi Medical University School of Medicine / Takeshi Shinozaki
- E069 Bone metastases from Head & Neck cancer. -Retrospective analysis of Whole  
Body MRI (WB-MRI), FDG-PET and CT-  
Dept. of Diagnostic Radiology, Osaka Medical Center for Cancer and  
Cardiovascular Diseases / Katsuyuki Nakanishi
- E070 Radiological Assessment of Bone Lesions in the Foot: What the Radiologist  
Needs to Know?  
Dept. of Radiology, Okayama University Hospital / Ryota Inai

#### Pediatric

- E071 Prenatal diagnosis of skeletal dysplasia with 3D CT  
Dept. of Radiology, Asahikawa Medical university&Hospital / Eriko Takabayashi
- E072 Clinical importance of joint evaluation by ultrasonography in pediatric patients  
with haemophilia  
Dept. of Diagnostic Radiology, Hiroshima University Hospital / Tani Chihiro

#### Whole Body

- E073 Lymph node tomography using fusion imaging combining diffusion-weighted  
imaging and 3D fat-suppressed contrast-enhanced T1-weighted imaging  
Dept. of Diagnostic Radiology, Gunma Prefectural Cancer Center /  
Hiroyuki Horikoshi
- E074 The role of image diagnosis in palliative care  
Dept. of Radiology, Rakuwakai Otowa Hospital / Mikihiko Fujimura
- E075 Imaging of Extranodal Rosai Dorfman disease.  
Dept. of Radiology, Kanazawa Medical University / Ichiro Toyota

### Miscellaneous

- E076 Drug-induced Disorders in the Abdomen: Clinico-radiological Features.  
Department of Radiology, IVR center, Nara Medical University / Hiroshi Okada
- E077 Points and pitfalls for interpreting digital tomosynthesis  
Department of Radiology, Tokyo Women's Medical University Medical Center  
East / Haruhiko Machida
- E078 Who am I ? Foreign bodies, devices, drugs and their complications  
Dep. of Diagnostic Imaging and Interventional Radiology, St' Lukes  
International Hospital / Tomoya Nishiyama
- E079 Foreign Bodies  
Radiology Services, Gifu University Hospital / Haruo Watanabe
- E080 Consideration of causes of overlooking in imaging diagnosis  
Dept. of Radiology, Fukushima Medical University School of Medicine /  
Shirou Ishii
- E081 X producing tumors in the abdomen: the effects on clinical and radiological  
features and differential diagnosis  
Dept. of Radiology, Nara Medical University / Shota Tatsumoto

### Nuclear Medicine

- E082 A method for differentiating between Lewy body disease and Parkinson's  
syndrome: the 123I-MIBG and 123I-FP-CIT-based 4 division method  
Dept. of Diagnostic Radiology, Tohoku University School of Medicine /  
Yoshitaka Toyama
- E083 Usefulness of quantitative hepatic uptake for prognostic implications following  
I-131 therapy for differentiated thyroid cancer.  
Dept. of Radiology, Asahikawa Medical University / Michihiro Nakayama
- E084 Present and Future Role of FDG-PET/CT Imaging in the Management of Head  
and Neck carcinoma  
Division of Nuclear Medicine and PET Center, Hyogo College of Medicine /  
Kazuhiro Kitajima
- E085 Extra-pulmonary accumulation as demonstrated by lung perfusion scintigraphy  
using  $^{99m}\text{Tc}$ -macroaggregated albumin.  
Dept. of Radiology, Tokushima University Hospital / Katsuya Takechi
- E086 Myocardial perfusion and reserve with quantitative dynamic SPECT imaging  
using a CZT gamma camera: Association with cardiovascular risk factors  
Dept. of Diagnostic Imaging, Faculty of Life Sciences Kumamoto University /  
Shinya Shiraishi
- E087 Review of the F-18 FDG PET/CT imaging of breast tumor  
Dept. of Radiology, Tokushima University Hospital / Takayoshi Shinya
- E088  $^{18}\text{F}$ -FDG PET/CT findings of benign and malignant musculoskeletal tumors and  
tumor-like conditions  
Division of Radiology, Dept. of Pathophysiological and Therapeutic Science,  
Faculty of Medicine, Tottori University / Mana Ishibashi
- E089 FDG-PET imaging of malignant lymphoma : atypical cases and pitfalls  
Dept. of Radiology, Tenri Hospital / Shunjiro Noguchi



- E090 The Roles of FDG-PET in Patients with Leukemia  
Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate  
School of Medicine / Maya Arimoto
- E091 Pictorial essay of diffuse bone marrow uptake on FDG-PET/CT  
Department of Radiology, Kobe University Graduate School of Medicine /  
Kazuhiro Hayashi
- E092 Imaging of PET tracers using in our institution  
IBRI / Akihito Ohnishi
- E093 A utilization of SUV navigator interface for speedy image interpretation on  
F-18 FDG PET/CT : compared with 3D VOI evaluation.  
Dept. of Radiology, Asahikawa Medical University / Atsutaka Okizaki
- E094 PET/MR: where do we stand?  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine

#### Vascular/Interventional

- E095 Transcatheter arterial chemoembolization for localized hypervascular  
hepatocellular carcinoma using angiography and multidetector CT system:  
proof of survival benefit  
Dept. Diagnostic Radiology, Osaka Medical Center for Cancer and  
Cardiovascular Diseases / Masayuki Murata
- E096 Adrenal vein sampling : How to deal with the difficult cases?  
Dept. of Radiology, Keio University of medicine / Sota Oguro
- E097 Retrieval of inferior vena cava filters with the routine and the advanced techniques  
Dept. of Radiology, Nara City Hosp. / Hiroshi Anai
- E098 Computed tomography-guided core needle biopsy of pulmonary solid nodules  
20mm or smaller : Frequency and content of non-malignant lesions  
Dept. of Radiology, Miyazaki University School of Medicine / Hiroshi Nakada
- E099 CT Fluoroscopy Guided Percutaneous Cryoablation for Painful Musculoskeletal  
Lesions: Technical Tips and Tricks  
Dept. of Interventional Radiology and Clinical Ultrasound Center /  
Masaya Miyazaki

#### Autopsy Imaging

- E100 Causes of Poor Postmortem Ultrasound Image Quality at Low Body Temperature  
Dept. of Radiology, Seirei Fuji Hospital / Seiji Shiotani

#### Radiation safety/Miscellaneous

- E101 Diagnostic Reference Levels: What Radiologists Should Know.  
Dept. of Radiology, NTT Medical Center Tokyo / Masaaki Akahane
- E102 Studies on Radiation Protection and Regulations in Medicine Granted by  
Ministry of Health, Labour and Welfare of Japan  
Institute of Advanced Clinical Medicine, Kindai University Faculty of Medicine  
/ Makoto Hosono

## Oral Presentation Programs

April 14 (Thu.)

302

15:00-15:50 1. Radiation Oncology 1: Head and neck 1

Kazuhiko Tsuchiya

001 Definitive Radiotherapy for Early Stage (cT1-T2) Glottic Squamous Cell Carcinoma: the University of Tokyo Hospital Experience

Dept. of Radiology, The University of Tokyo Hospital / Wataru Takahashi

002 RADIOTHERAPY FOR CERVICAL LYMPH NODE METASTASES OF UNKNOWN PRIMARY SITE

Division of Radiation Oncology, Kobe University Graduate School of medicine  
/ Yuko Inoue

003 Definitive Radiotherapy for T3/T4 Hypopharyngeal Squamous Cell Carcinoma  
Division of Radiation Oncology, Kobe University Graduate School of Medicine

/ Yoshiro Matsuo

004 Do head and neck cancer patients treated with definitive intensity modulated radiation therapy (IMRT) need the enteral tube feeding (ETF)?

Dept. of Radiation oncology, Saitama Univ. International Center /  
Kazunari Miyazawa

005 Patterns of Recurrence after Intensity-modulated Radiotherapy for Pharyngeal Cancer

Dept. Radiology, Nara Hospital, Kinki University / Kaoru Okajima

303

15:00-15:40 2. Interventional Radiology 1: Embolization (bleeding)

Yasuaki Arai

006 Clinical results of provocative angiography in lower gastrointestinal (LGI) hemorrhage

Dept. of Radiology, Kansai Medical University / Asami Yoshida

007 Super-selective Arterial Embolization with N-Butyl cyanoacrylate (NBCA) for Colonic Diverticular Hemorrhage

Dep. of Interventional Radiology, Kawasaki Saiwai Hospital / Sokun Fuwa

008 Safety and risk of superselective transcatheter arterial embolization for acute lower gastrointestinal hemorrhage with N-butyl-2-cyanoacrylate (NBCA): angiographical and colonoscopic evaluation

Dept. of Radiology, Tottori University School of Medicine / Mika Kodani

009 The role of uterine artery embolization in the treatment of postpartum hemorrhage

Dept. Radiology, Tottori University Faculty of Medicine / Takayoshi Kimura

311+312

15:00-15:40 3. Nuclear Medicine 1: Brain PET

Kenji Hirata

010 New SPECT scanner with semiconductor detectors enables dual tracer imaging of 123I-ioflupane and 99mTc-ethylcysteinate dimer

Dept. of Nuclear Medicine, Hokkaido University School of Medicine /  
Takuya Toyonaga

- 011 Increases and decreases of regional cerebral blood flow during whole body vibration exercise measured by  $^{99m}\text{Tc}$ -ECD and SPECT  
Sendai Medical Imaging Center / Ikuo Odano
- 012 The possible correlation of striatal uptake of  $^{11}\text{C}$ -PiB PET with regional cerebral hypometabolism in cognitive impairment patients  
Dept. of Radiology, Kinki University Faculty of Medicine / Chisa Hosokawa
- 013 Multi atlas-based attenuation correction for brain FDG-PET imaging using a TOF-PET/MR scanner; comparison with clinical single atlas-based attenuation correction  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine

311+312

15:50-16:30 4. Nuclear Medicine 2: Neuroradiology/head and neck

Kazunari Ishii

- 014 Relationship between Degree of F-18 FDG Uptake and Histopathological Findings of Meningioma  
Dept. of Radiology, Kushiro Kojinkai Memorial Hospital / Noriyuki Shuke
- 015 Iterative factor analysis : Strategy for estimating input function in dynamic FDG brain PET  
Faculty of Health Sciences, Hokkaido University / Chietsugu Katoh
- 016 PET/MR versus PET/CT in the Initial Staging of Head and Neck Cancer  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine
- 017 Utility of Pretherapeutic FDG-PET/CT for Evaluating Cancer of External Auditory Canal  
Dept. of Diagnostic Radiology and Nuclear Medicine, Tokyo Medical and Dental University Graduate School of Medicine / Akira Toriihara

April 15 (Fri.)

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9:10-10:00 5. Chest 1: Tumor 1

Hiroaki Arakawa

- 018 Comparison of Capability for Therapeutic Outcome Prediction between Dynamic CE-Perfusion Area-Detector CT and FDG-PET/CT in NSCLC Patients with Chemoradiotherapy  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno
- 019 Comparison of Capability for N-Stage Assessment between Dynamic CE-Perfusion ADCT and FDG-PET/CT in Non-Small Cell Lung Cancer Patients  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno
- 020 New WHO Classification; Thin-section CT Features of pT1 Invasive Adenocarcinomas of Lung  
Dept. of Diagnostic Radiology, Hyogo Cancer Center / Saori Hirabayashi
- 021 Comparison of Recurrence Assessment Capability among Whole-Body MRI with and without DWI, PET/MRI, PET/CT and Conventional Examination in NSCLC Patients  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno

- 022 Utility of histogram analysis of apparent diffusion coefficient map associated with pathological grade of non-small cell lung cancer  
Dept. of Radiology, Kanazawa Medical University School of Medicine / Naoko Tsuchiya
- 303
- 10:10-11:10 6. Chest 1: Tumor 2 Shuji Sakai
- 023 Re-evaluation of Stable Ground-Glass Opacity Nodules on Thin-section CT of the Lung by Further Follow-up  
Dept. of Diagnostic Radiology, Niigata Cancer Hospital / Naoya Koizumi
- 024 Detection of vertebral metastases from lung cancer by temporal subtraction on chest CT  
Dept. of Radiology, Nagoya University Graduate School of Medicine / Shingo Iwano
- 025 Evaluation of locoregional invasiveness of small-sized lung cancer by enhanced dual-energy computed tomography  
Dept. Radiology, Nagoya University Graduate School of Medicine / Hironori Shimamoto
- 026 Pulmonary MR Imaging with Ultra-Short TE vs. Low- and Standard-Dose CTs: Capability for Lung Nodule Detection and Nodule Type Classification  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno
- 027 Chemical Exchange Saturation Transfer (CEST) Imaging: Comparison of Capability for Differentiation of Malignant from Benign Pulmonary Lesions with PET/CT  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno
- 028 ADC histogram analysis in thymic epithelial tumors: correlation with WHO histological classification  
Dept. Radiology, Tokyo Medical University / Takafumi Yamada
- 304
- 9:10-9:50 7. Breast 1: MRI 1 Tokiko Endo
- 029 'T2-Hyper Rim' and 'Delayed Surrounding Rim' Signs of Invasive Breast Carcinomas: Correlation with Enhancement Ratio and Histologic Features  
Breast Care Center, Radiology and Clinical Research Institute, National Medical Center / Namoto Matsubayashi Roka
- 030 Focus in breast MRI: assessment based on lesion and patient related characteristics  
Department of Radiology, Kameda Kyobashi Clinic / Youichi Machida
- 031 Characterization of breast cancers using histogram analysis of pharmacokinetic parameters on dynamic contrast enhanced MRI: Correlation with immunohistochemical subtypes  
Dept. of Radiology, Nagoya University Graduate School of Medicine / Hiroko Satake
- 032 Usefulness of PMView for analysis of time intensity on 3T dynamic breast MRI  
Dept. of Diagnostic and Interventional Radiology, Hokkaido University Hospital / Fumi Kato

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10:00-10:30 8. Breast 2: MRI 2 Mariko Goto

033 Magnetic resonance examination to predict pCR following neoadjuvant chemotherapy: When is it appropriate for HER2-positive and triple-negative breast cancers?

Dept. of Radiology, St. Marianna University School of Medicine, Breast and  
Imaging Center / Satoko Okamoto

034 A New Fat Suppression Technique in Computed Diffusion-weighted Imaging Using ADC Value of Fat

Dept. of Radiology, Tokai University School of Medicine / Toshiki Kazama

035 A comparison of the usefulness of MRI and Digital Breast Tomosynthesis in evaluating of a pCR after Neo Adjuvant Chemotherapy

Dept. of Diagnostic Radiology, National Cancer Center Hospital / Mari Kikichi

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10:50-11:50 9. Breast 3: Miscellaneous Ichiro Isomoto

036 Visibility of Circumscribed Masses on Breast Tomosynthesis: Do You Know the Halo Sign?

Dept. of Breast Imaging / Breast Intervention Section, Shizuoka Cancer Center  
/ Kazuaki Nakashima

037 Quality Evaluation of Clinical Images Acquired by Novel Image Processing for Dose Reduction in Mammography

Dept. of Breast Treatment, NHO Higashi Nagoya National Hospital / Tokiko Endo

038 Evaluation of Axillary Lymph Nodes in Patients with Breast Cancer Using Contrast-enhanced Ultrasound

Dept. of Breast Imaging and Breast Intervention, Shizuoka Cancer Center Hospital  
/ Takayoshi Uematsu

039 Differential diagnosis of homogeneously enhancing breast lesions on contrast-enhanced US

Dept. of Radiology, Faculty of Medicine, Fukuoka University / Ritsuko Fujimitsu

040 Clinical Usefulness of Synthetic MMG in Breast Cancer Diagnosis

Dept. of Radiology, National Cancer Center / Nachiko Uchiyama

041 A new approach for diagnosis of breast cancer on digital breast tomosynthesis: Value of reconstructed slab-MIP images

Dept. of Radiology, Nippon Medical School / Ryusuke Murakami

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9:20-10:20 10. Informatics (IT, Education) Norinari Honda

042 Assessing the Efficiency and Stress-reducing Effects of Work Systems for Image Reading Duties

Dept. of Radiology, Kyoto Prefectural University of Medicine / Chisa Bamba

044 Problems of EPR (Electronic Patient Record) and Images Sharing system with XDS / XDS-I on thin-client system

Division of Medical Informatics, Tottori University Hospital / Hiroshi Kondoh

- 045 Entity-Relationship Model of Enterprise PACS: Backward Compatible with DICOM Information Model  
Department of Diagnostic Radiology, Toyama Prefectural Central Hospital / Hiroshi Demachi
- 046 Is it possible for assuming disease name appropriately using the keywords extracted from radiological report?  
Dep. of Medical Informatics, Osaka University Graduate School of Medicine / Naoki Mihara
- 047 Google Glass: A Tool to Assess and Document Interventional Radiology Trainee Procedural Competence, a Pilot Study  
Department of Radiology, Loma Linda University Medical Center / David R. Rajaratnam
- 048 Radiological E-learning System for Medical Students Using Full-functional Picture Archiving System  
Diagnostic Imaging and Nuclear Medicine, Tokyo Women's Medical Univ. / Kazufumi Suzuki

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10:50-11:50 11. Nuclear Medicine 3: Cardiac Masayuki Inubushi

- 049 Prognostic impact of deep-inspiratory breath-hold pulmonary perfusion SPECT-CT in patients with chronic pulmonary thromboembolism  
Dept. of Radiology, Nippon Medical School Hospital / Yoshimitsu Fukushima
- 050 Measurement of Cardiac Function Before and After TAVI (Transcatheter Aortic Valve Implantation) Using Myocardial Scintigram  
Dep. of Radiology, Sendai Kousei Hospital / Keiichirou Yamaguchi
- 051 Relationship among Wall Motion Synchrony Derived from Three Programs and Relationship between These Indices and Myocardial Perfusion in Rest SPECT  
Dept. of Radiology, Nipponn Medical School Tamanagayama Hospital / Akira Yamamoto
- 052 Relationship among Wall Motion Synchrony Derived from Three Programs in Low Dose Rest and High Dose Exercise Stress Cardiac SPECT  
Dept. of Radiology. Nippon Medical School Tamanagayama Hospital / Akira Yamamoto
- 053 Evaluation of Systole Function After and Before TAVI with Myocardial Perfusion SPECT  
Dept. of Radiology, Sendai Kosei Hospital / Shigeyasu Sugawara
- 054 C-11 PiB PET in cardiac amyloidosis: preliminary results  
Dept. of Radiology, Fact. of Medicine, Kagawa University / Takashi Norikane

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9:50-10:50 12. Uroradiology Yasushi Kaji

- 056 [Canceled]
- 057 Measurement of renal plasma flow on dynamic contrast-enhanced CT  
Dept. Radiology, Fujita Health University School of Medicine / Ryo Matsukiyo
- 058 [Canceled]

- 059 What affects the visualization of prostate cancer using MRI in patients treated with RARP?  
Dept. of Radiology, Dokkyo Medical University School of Medicine / Kensuke Inamura
- 060 T2-weighted imaging of the prostate: comparison of a modified DIXON TSE technique and a conventional TSE technique  
Department of Radiology Informatics and Network, Graduate School of Medical Sciences, Kyushu University / Yukihsa Takayama
- 061 Comparison between 2D chemical shift T1-weighted imaging and mDIXON in assessment of adrenal masses  
Dept. of Radiology, Fukuoka University School of Medicine / Ayako Morita
- 315
- 11:00-11:50 13. Cardiovascular 1: MRI Michinobu Nagao
- 062 Assessment and detection of left ventricular thrombus in patients with acute ischemic stroke using cardiac MR (ADVENT study)  
National Cerebral and Cardiovascular Center, Department of Radiology / Yoshiaki Morita
- 063 Fermi function-constrained deconvolution underestimates myocardial blood flow and myocardial perfusion reserve regardless of saturation correction of arterial input curve  
Dept. of Radiology, Mie University Hospital / Akimasa Yamada
- 064 Diagnostic performance of Non-contrast enhanced MR Angiography as a following modality after Endovascular Aortic Repair  
Dept. of Radiology, Gifu university hospital / Hiroshi Kawada
- 065 Native T1 mapping allows for the accurate detection of the segments with myocardial infarction in patients with coronary artery disease  
Dept. of Radiology, Mie University Hospital / Yoshitaka Goto
- 066 Diagnostic performance of 3.0T whole-heart coronary MR angiography performed as a part of routine contrast-enhanced CMR study  
Department of Radiology, Mie University Hospital / Akimasa Yamada
- 304
- 15:10-15:50 14. Liver 1: Liver tumor and Parenchyma Kazuhiko Ueda
- 067 [Canceled]
- 068 The usefulness of view-sharing multi-phasic gadoteric acid-enhanced hepatic arterial phases for the diagnosis of hypervascular hepatocellular carcinoma  
Department of Radiology, Gifu University Hospital / Nobuyuki Kawai
- 069 Distinguishing Inflammatory Pseudo-Tumor from Hepatic Metastasis Using Gadoteric Acid-Enhanced MR Imaging  
Dept. of Radiology, Yamanashi University School of Medicine / Tatsuya Suzuki
- 070 Risk of hepatocellular carcinoma development assessed by gadoteric acid-enhanced MRI and MR elastography : a prospective study  
1. Department of Radiology, University of Yamanashi, Yamanashi, Japan / Tatsuya Shimizu

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16:00-16:40 15. Liver 2: Spare ability and Fibrosis Katsuyoshi Ito

071 Extracellular volume fraction calculated from equilibrium phase iodine map of dual-energy CT in diagnosing liver fibrosis grade: preliminary report

Dept. of Radiology, Fukuoka University School of Medicine / Yoshinobu Shinagawa

072 Measuring pre-therapeutic hepatic functional reserve using T1 mapping Gd-EOB-DTPA-enhanced MRI: comparing 99mTc GSA scintigraphy with indocyanine green (ICG) retention

Dept. of Radiology, Kumamoto University School of Medicine / Masataka Nakagawa

073 Magnetic resonance elastography (MRE) in assessing hepatic fibrosis: comparative study with transient elastography (TE) in same patients with histological data

Dept. of Radiology, Kinki University School of Medicine / Masafumi Toguchi

074 Arterial phase enhancement effect on the dynamic phase of gadoxetate-enhanced MRI may be diminished in patients with liver dysfunction

Dept. of Radiology, Fukuoka University School of Medicine / Tomonobu Tani

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16:50-17:40 16. Liver 3: Techniques Akihiro Nishie

075 CT Perfusion in the Abdomen: Dose Reduction using kV change and AEC

Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Takeshi Yoshikawa

076 Reduction of the Radiation Dose and the Amount of Contrast Material in Hepatic Dynamic CT with Low-Tube-Voltage and AIDR 3D

Dept. of Radiology, Osaka Medical College / Atsushi Nakamoto

077 Diagnostic performance of 60% dose reduction in early arterial phase of liver dynamic CT using model based iterative reconstruction (MBIR)

Dept. of Radiology, Graduate School of Medicine, The University of Tokyo / Runa Kataoka

078 Anatomical and Hemodynamic Assessments of Hepatic Vasculatures using 4D-PCA Technique: Initial Experience

Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Takeshi Yoshikawa

079 Computed Diffusion-Weighted Image in the Abdomen

Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Takeshi Yoshikawa

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15:10-16:20 17. Interventional Radiology 2: Liver (TACE)

Hidefumi Mimura

080 Local recurrence rate of Ultraselective transcatheter arterial chemoembolization (TACE) for hepatocellular carcinoma (HCC)

Department of Diagnostic and Interventional Radiology, Hokkaido University Hospital / Daisuke Abo



- 081 Single step versus stepwise chemoembolization for unresectable giant hepatocellular carcinoma: Is single step chemoembolization harmful?  
Dept. of Radiology, Nagasaki University School of Medicine / Yohei Ikebe
- 082 Safety of Treatment of Hepatic Malignancy with Transarterial Chemoembolization Using Drug-eluting Beads; Early Experiences  
IVR Center, Okayama Saiseikai General Hospital / Kotaro Yasui
- 083 Switching from Hepasphere to DC Bead: Chemoembolization with drug-eluting beads in recurrent hepatocellular carcinoma patients with extensive embolization histories  
Dept. of Medical oncology, Suita Tokushukai Hospital / Akihiko Seki
- 084 Transarterial chemoembolization with drug eluting microspheres (DEB-TACE) for initial large hepatocellular carcinoma  
Dept. of Diagnostic and Interventional Radiology, Osaka University Graduate School of Medicine / Noboru Maeda
- 085 Salvage Lip-TACE after insufficient DEB-TACE  
Dept. of Radiology, Teine Keijinkai Hospital / Yoshihisa Kodama
- 086 Does Initial Learning Curve Compromise Outcomes of DEB-TACE?  
Dept. of Radiology, Teine Keijinkai Hospital / Yuki Yoshino

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16:30-17:30 18. Interventional Radiology 3: Neurointervention

Satoshi Takahashi

- 087 Preliminary results of proton beam therapy combined with cisplatin intra-arterial infusion via a superficial temporal artery for maxillary carcinoma  
Dept. of Radiology, Southern Tohoku Proton Therapy Center / Tatsuya Nakamura
- 088 Clinical results of intra-arterial high-dose cisplatin chemotherapy and concomitant radiation therapy followed by surgery to treat advanced paranasal sinus cancer  
Dept. of Radiology, Okayama University Hosp. / Kento Hisazumi
- 089 Initial experience of coil Embolization for cerebral Aneurysms using the Enterprise 2 intracranial stent  
Department of Radiology and Interventional Neuroradiology, Ishinkai Yao General Hospital / Kaoru Myouchin
- 090 Usability and feasibility of J-pre-shaped microcatheter that is suitable for 3.5-Fr angiographic catheter -: application for head and neck cancer  
Department of Diagnostic Radiology, Hiroshima Prefectural Hospital Hiroshima, Japan / Taichi Kurose
- 091 Incidence and prognosis of plaque protrusion during carotid artery stenting  
Department of Radiology and Interventional neuroradiology, Ishinkai Yao General Hospital / Katsutoshi Takayama
- 092 Coil embolization using Enterprise stent for kissing aneurysms of the internal carotid artery  
Dept. of Radiology, Nara Medical University / Takeshi Wada

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## 15:10-16:10 19. Cardiovascular 2: Myocardium and Perfusion

Kenichi Yokoyama

- 093 Quantitative Assessment of Left Ventricular Three-Dimensional Maximum Principal Strain using Cardiac Computed Tomography for Identification of Myocardial Infarction  
Ehime University Graduate School of Medicine. / Yuki Tanabe
- 094 The myocardial area at risk for coronary CT angiography using Voronoi algorithm-based myocardial segmentation in comparison with <sup>13</sup>N-ammonia PET  
Department of Radiology, Ehime Prefectural Central Hospital / Naoto Kawaguchi
- 095 Myocardial Blood Flow of Area at Risk Based on Stress Dynamic Perfusion Computed Tomography: Validation by Using Fractional Flow Reserve  
Dept. of Radiology, Ehime University School of Medicine / Naoki Fukuyama
- 096 Permissible Sampling Rate of Whole Heart Dynamic Computed Tomography (CT) Scan Leading Myocardial Blood Flow (MBF) for Clinical Use  
Dept. of Radiology, Ehime University School of Medicine / Takahiro Yokoi
- 097 Radiation Exposure Reduction in 320-row Cardiac CT using Forward Projected Model-based Iterative Reconstruction Solution (FIRST)  
Dept. of Radiology, The University of Tokyo Hospital / Eriko Maeda
- 098 Evaluation of coronary dominancy using bull's eye map reconstruction with coronary MDCT  
Department of Diagnostic imaging and Nuclear medicine, Tokyo Women's Medical University / Kenji Fukushima

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## 16:20-17:10 20. Cardiovascular 3: Coronary artery

Kei Takase

- 099 Adenosine Triphosphate Stress Dynamic Perfusion CT Imaging to Identify Myocardial Ischemia: Correlation with Coronary CTA and Invasive Coronary Angiography  
Department of Radiology, Ehime University / Enver Tahir
- 100 Comparison of Coronary CT-bull's Eye Map and Perfusion Defect by Ammonia PET in Patients with Ischemic Heart Disease  
Dept. of Diagnostic imaging and nuclear medicine, Tokyo women's medical university / Yuka Matsuo
- 101 Evaluation of image quality of coronary arteries on non-ECG-gated dual-source CT in children with congenital heart disease  
Dept. of Radiology, Okayama University Medical School / Yuichiro Kanie
- 102 Effects of monochromatic imaging at different keV on coronary motion artifact reduction by motion correction algorithm in coronary dual-energy CTA  
Department of Radiology, Tokyo Women's Medical University Medical Center East / Haruhiko Machida
- 103 Evaluation of the effect of intracoronary attenuation on coronary plaque measurements using a dual-phase coronary CT angiography technique  
Dept. of Radiology, Kumamoto University / Masafumi Kidoh

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9:10-10:00 21. Gastrointestinal 1: MRI Yukihisa Saida

104 Anterior Extension of Perianal Fistulae and Involvement of Genitalia: MR Imaging and significance of Fistulogram

Department of Radiology, Yashoda Hospital / Sridhar Devu

105 Magnetic Resonance Enterocolonography Reflects the Presence of Partial Mucosal Healing in Patients with Crohn's Disease

Dept. of Diagnostic Radiology, Tokyo Medical and Dental University /

Yoshio Kitazume

106 Ultra-High-Resolution 7-T MR Imaging of Gastric Carcinoma Ex Vivo: Correlation with Histopathologic Findings

Dept. of Diagnostic Radiology and Nuclear Medicine, Tokyo Medical and Dental University / Ichiro Yamada

107 Evaluation of rectal cancer in FOCUS-DWI: Preliminary study using synthetic DWI

Dept. of Radiology, Seirei Hamamatsu General Hospital / Motoyuki Katayama

108 Rectal Cancer: Apparent Diffusion Coefficient Value and Clinical-Pathologic Factors Associated with Local Recurrence or Distant Metastasis

Dept. Radiology, Gifu University Hospital / Yoshifumi Noda

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10:10-10:50 22. Pediatric Shunsuke Nosaka

109 Ultra-low-dose 320-row Pediatric Cardiac CT using Forward Projected Model-based Iterative Reconstruction SoluTion (FIRST)

Dept. of Radiology, University of Tokyo, School of Medicine / Eriko Maeda

110 Fetal MRI findings of congenital bronchial atresia; comparison with presurgical chest CT and pathological findings

Dept. of Radiology, Kanagawa Children's Medical Center / Kumiko Nozawa

111 Functional evaluation of congenital hydronephrosis using dynamic contrast-enhanced MR urography: A comparison with MAG3 scintigraphy

Dept of Radiology, National Center for Child Health and Development /

Mikiko Miyasaka

112 The Utility of spinal ultrasonography for screening in early infants: A comparison with spinal MRI

Dept. of Radiology, National Center for Child Health and Development /

Reiko Okamoto

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11:00-11:40 23. Gastrointestinal 2: Miscellaneous Hiromu Mori

113 Specific Diagnosis of Petersen's Hernia on CT by Focusing on Relationship between Superior Mesenteric Artery (SMA) Branches

Dept. Radiology, Saiseikai Maebashi Hospital / Jun Kubota

114 CT Gastrography of Diffuse-type Gastric Cancer: Relationships between CT Features and Prognostic Factors

Dept. of Radiology, Kyushu University / Daisuke Tsurumaru

- 115 Comparison of detectability of tumor invasion depth in gastric cancer between preoperative MR imaging and computed tomography  
Dept. of Radiology, Jichi Medical University / Hidenori Kanazawa
- 116 Evaluation of gastric cancer cases detected by annual screening involving a diagnostic category related to Helicobacter pylori gastritis  
Dept. of Radiology, Nara Medical University / Takahiro Itoh

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- 9:40-10:40 24. Musculoskeletal 1: MRI Kunihiro Fukuda
- 117 Prospective Study on changes in Atrophy and Fatty Infiltration of the Supraspinatus Muscle after Arthroscopic Repair and rehabilitation  
Department of Diagnostic and Interventional Radiology, Kwong Wah Hospital / Yin Ho Arnold Tsang
- 118 MRI in Differential Diagnosis of Nosological Form of Pathological Vertebral Fractures  
Department of Radiology, N.N. Blokhin Russian Cancer Research Center / Anastasia Nered
- 119 MR imaging of displaced bucket-handle tear of the medial and lateral meniscus  
Department of Radiology, Mungunguur hospital / Khongorzul Tungalag
- 120 Intravoxel incoherent motion MRI for differentiation of benign-intermediate malignancy soft tissue tumors and soft tissue sarcomas  
Department of Radiology, Graduate School of Medical and Dental Sciences, Kagoshima University / Masanori Nakajo
- 121 The ulnar nerve movement during elbow flexion: quantitative assessment using MRI  
Dept. of Radiology, Nagasaki Rosai Hospital / Yasuhiro Kawahara
- 122 Usefulness of MAVRIC-SL sequence for patients with total joint replacement  
Dept. of Radiology, Toho University Sakura Medical Center / Masayuki Odashima

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- 10:50-11:30 25. Musculoskeletal 2: Miscellaneous Takatoshi Aoki
- 123 Effect of compliance to Ottawa ankle rule on fracture detection rate of ankle radiographs performed in emergency department  
Department of Diagnostic and Interventional Radiology, Kwong Wah Hospital / Yin Ho Arnold Tsang
- 124 Clinical evaluation of a new X-ray imaging system based on Talbot-Lau interferometry: comparison of patients with RA to healthy volunteers  
Dept. of Radiology, Saitama Medical University / Junji Tanaka
- 125 Multiparametric Voxel-based Analyses of SUVs and ADCs of Soft-tissue Tumors with a PET/MR System  
Department of Clinical Radiology, Kyushu University / Koji Sagiyama
- 126 Prediction of femoral neck strength using tomosynthesis in patients with diabetes mellitus: optimal parameters in trabecular bone analysis  
Dept. of Radiology, University of Occupational and Environmental Health School of Medicine / Masami Fujii

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10:10-10:50 26. Obstetrics/Gynecology 1: Uterus and others

Satoru Takahashi

- 127 Magnetic resonance elastography predicts uterine fibroid response to magnetic resonance-guided focused ultrasound treatment: a preliminary study  
Dept. of Radiology, University of Yamanashi / Shintaro Ichikawa
- 128 Feasibility of computed diffusion weighted imaging and optimization of b-value in cervical cancer  
Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine / Yusaku Moribata
- 129 Endometrial cancer: Preoperative staging with high-resolution diffusion-weighted MR imaging using a two-dimensional spatially selective radiofrequency excitation technique  
Dept. Radiology, Osaka University Graduate School of Medicine / Takashi Ota
- 130 Delivery related changes in position of the pelvic organs and cross-sectional area of the vagina  
Dept. of Radiology, Graduate School of Medicine, The University of Tokyo / Shotaro Naganawa

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11:00-11:40 27. Obstetrics/Gynecology 2: Ovary Yumiko Oishi Tanaka

- 131 Is there any difference between typical and atypical MR image findings of ovarian clear cell carcinomas (OCCCs)?  
National Cancer Center / Tomoko Manabe
- 132 Ovarian carcinosarcoma: Magnetic resonance imaging findings with pathological correlations  
Dept. of Radiology, Tokyo metropolitan Tama med. center. / Takami Ota
- 133 Bilateral ovarian tumors on MRI: How should we differentiate the lesions?  
Dept. of Radiology, Tottori University / Naoko Mukuda
- 134 MR imaging findings of granulosa cell tumor of the ovary  
Dept. of Radiology, St. Luke's International Hospital / Yuka Okajima

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13:00-13:50 28. Chest 3: Perfusion Kiyoshi Murata

- 135 Which is Better Xenon-Enhanced CT between Dual-Energy and Subtraction CT Methods: Ventilation and Functional Loss Assessments in Smokers?  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno
- 136 Modified lung perfused blood volume with low attenuation volume on virtual non-contrast image for assessment of acute pulmonary embolism  
Det. of Radiology, Yamaguchi University School of Medicine / Munemasa Okada
- 137 Clinical severity of chronic thromboembolic pulmonary hypertension: Assessment on lung perfused blood volume images acquired by dual-energy CT  
Dept. of Diagnostic Radiology, Tohoku University Graduate School of Medicine / Hidenobu Takagi

- 138 Dynamic CE-Perfusion MRI: Influence of Contrast Media Volume for Perfusion and Functional Assessments as Compared with Dynamic CE-Perfusion ADCT  
Advanced Biomedical Imaging Research Center, Kobe University Graduate  
School of Medicine / Yoshiharu Ohno
- 139 4D Flow MRI for monitoring Mean Pulmonary Arterial Pressure for Chronic Thromboembolic Pulmonary Hypertension Treated by Balloon Pulmonary Angioplasty  
Dept. of Diagnostic Radiology, Tohoku University Hospital / Hideki Ota

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15:40-16:40 29. Chest 4: Miscellaneous Shuichi Ono

- 140 Characteristics of the Lung of Patients with Primary Spontaneous Pneumothorax: Evaluation with Computed Tomography  
Dept. of Radiology, Teikyo University Mizonokuchi Hospital / Noriko Kobayashi
- 141 Clinical-Radiologic-Pathologic diagnoses in the cases of possible UIP pattern according to IPF evidence-based guidelines  
Dept. of Radiology, Tenri Hospital / Yuko Nishimoto
- 142 Application of the homology method for quantification of low-attenuation lung region in patients with and without COPD  
Clinical PET Center, Institute of Biomedical Research and Innovation /  
Mizuho Nishio
- 143 Quantitative evaluation of interstitial pneumonia using 3D-curved high-resolution CT imaging parallel to the chest wall  
Dept. Radiology, Nagoya University Graduate School of Medicine /  
Hiroyasu Umakoshi
- 144 Pulmonary cysts identified on chest CT: Aging change or clinically significant?  
Department of Radiology, Brigham and Women's Hospital, Harvard Medical  
School / Tetsuro Araki
- 145 CT findings of adenocarcinoma in situ, minimally invasive adenocarcinoma and lepidic adenocarcinoma  
Dept. of Diagnostic Radiology, Niigata University Medical and Dental Hospital  
/ Takuya Yagi

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13:00-13:50 30. Radiation Oncology 2: Gastrointestinal

Tetsuo Nishimura

- 146 Comparative evaluation of respiratory-gated and un-gated PET based target volume in the definition of radiation treatment planning in pancreatic cancer  
Dept. of Radiation Oncology and Image-Applied Therapy, Kyoto University  
Graduate School of Medicine / Takahiro Kishi
- 147 Results of radiotherapy for tumor thrombosis in hepatocellular carcinoma  
Dept. of Radiology, Chiba University School of Medicine / Yuma Iwai
- 148 Treatment Time and Dose Rate Analysis for Respiratory Moving Liver Tumor Using Real-time-image Gated Spot Scanning Proton Beam Therapy System  
Dept. of Radiation Oncology, Hokkaido University Graduate School of  
Medicine / Shinichi Shimizu

- 149 A new treatment strategy for advanced rectal cancer: KORTUC (Kochi Oxydol Radiation Therapy for Unresectable Carcinomas) and S-1  
Dept. of Radiology and Radiotherapy, Nagasaki Prefecture Shimabara Hospital  
/ Shiro Obata
- 150 Concurrent Radiotherapy and 5-fluorouracil-based Chemotherapy for Esophageal Squamous Cell Carcinoma  
Dept. of Radiology and Radiation Oncology, Niigata University Graduate School of Medical and Dental Sciences / Hirotake Saito
- 304
- 14:00-14:50 31. Radiation Oncology 3: Prostate cancer Keisuke Sasai
- 151 Treatment outcome and prognostic factor analyses for patients with T3bN0M0 prostate cancer who received CIRT  
NIRS / Goro Kasuya
- 152 Extramedullary plasmacytoma and prostate cancer irradiated at the same time  
Dept. of radiology, Fujita Health University School of Medicine / Masayuki Ito
- 153 Long-term tumor control and late toxicities in patients with prostate cancer receiving hypofractionated soft tissue-matched image-guided intensity modulated radiotherapy  
Dept. of Radiology, Kyoto Second Red Cross Hospital / Daisuke Shimizu
- 154 Hypofractionated stereotactic radiotherapy for localized prostate cancer - A preliminary result  
Dept. of Carbon Ion Radiotherapy / Osamu Suzuki
- 155 Acute and Late Toxicities after High Dose Rate (HDR) Brachytherapy as Monotherapy in Localized Prostate Cancer  
Dept. of Radiology, Kochi Medical School / Shinji Kariya
- 304
- 15:00-15:40 32. Radiation Oncology 4: Miscellaneous Noriaki Nishiyama
- 156 Influence of Bone Cement for Vertebroplasty on Radiation Dose Distribution in the Treatment of Spinal Metastasis  
Dept. of Radiology, Aichi Medical University / Toshie Mori
- 157 Reduction of working time and cost by avoiding anesthesia by child life specialist assistance for pediatric raditherapy  
Dept. of Radiation Oncology, National Center for Child Health and Development  
/ Hiroshi Fuji
- 158 Acute Toxicities of Total Body Irradiation by Intensity-modulated Radiation Therapy  
Dept. of Radiology, Univ. of Tokyo Hosp. / Ryosuke Takenaka
- 159 The Benefit of Definitive Radiation Therapy for Elderly Patients More Than 80 Years Old  
Dept. of Radiology, The University of Tokyo Hospital / Yukiyasu Ehara
- 304
- 15:50-16:50 33. Radiation Oncology 5: Ion beam radiotherapy and others Norihiko Kamikonya
- 160 A surveillance study of Present status and pattern of practice for reirradiation  
Dept. of Radiology, Kyoto Pref. Medical School / Hideya Yamazaki

- 161 Evaluation about quality of life and psychophysiological effect in patients treated with radiotherapy for cancer recurrence or metastasis  
Dept. of Radiation Oncology, Saitama Medical Center, Saitama Medical University / Takeo Takahashi
- 162 Clinical efficacy of cepharanthin for radiotherapy-induced leukopenia: A nationwide multicenter observational study  
Dept. of Radiation Oncology, Kindai University, Faculty of Medicine / Shuichi Kanamori
- 163 Radiotherapy combined with systemic pulsed corticosteroids for moderate-to-severe Graves' ophthalmopathy: role of magnetic resonance imaging  
Dept. of Radiology, Tenri Hospital / Tatsuya Suwa
- 164 Boron Neutron Capture Therapy for Extensive Scalp Lesions -Treatment Planning Study-  
Research Reactor Inst, Kyoto Univ / Minoru Suzuki
- 165 Spot-scanning proton beam therapy (SSPT) with or without the use of a real-time tumor-tracking function: Clinical Experience  
Dept. of Radiation Oncology, Hokkaido University Hospital / Norio Katoh

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- 15:20-16:00 34. Autopsy Imaging Seiji Yamamoto
- 166 Postmortem radiological and pathological changes of lung within the first 24 hours after death in piglet model  
Dept. of Radiology, Univ. of Fukui / Kazuyuki Kinoshita
- 167 Drowning lung on postmortem CT; Ai experimental evaluation  
Dept. of Legal Medicine, Sapporo Medical University / Hideki Hyodoh
- 168 Hemopericardium on postmortem CT: What dose "hyperdense armored heart" indicate?  
Dept. of Radiological Science, Nagasaki University Graduate School of Biomedical Sciences / Tomonori Murakami
- 169 Post-mortem CT features of the lungs in carbon monoxide poisoning  
Dept. of Forensic Medicine, The University of Tokyo / Yohsuke Makino

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- 16:10-16:50 35. Emergency radiology and others Sojiro Morita
- 170 The efficacy of the ultrasonography guided biopsy of the submandibular gland for diagnosing IgG4-related disease  
Dept.Diagnostic Radiology / Yukio Ishisaka
- 171 Presence of midline subarachnoid hemorrhage on initial CT supports proper indication of MRI for detection of diffuse axonal injury  
Department of Diagnostic Radiology, Tohoku University Graduate School of Medicine, Sendai, Japan / Daddy Mata-Mbemba
- 172 Whole-body CT in Blunt Trauma Patients; Can the unenhanced CT Be Eliminated?  
Department of Radiology, Teikyo University School of Medicine / Yukichi Tanahashi



- 173 Concentration-dependent Signal Enhancement Effect of Gd-DTPA Contrast Agent in Low Field Magnetic Resonance Imaging  
Graduate School of Advanced Integration Science, Chiba University /  
Bimali S. Weerakoon

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- 13:00-13:40 36. Interventional Radiology 4: Chest and Lymphatics  
Hideo Gobara
- 174 [Canceled]
- 175 Interventional Angiography, Thrombectomy and Thrombolysis of Fulminant Pulmonary Embolisms in Patients Primarily Unsited for Conventional Intravenous Anticoagulation Treatment  
Institute of diagnostic and interventional Radiology, Staedisches Klinikum Karlsruhe and Institute of diagnostic and interventional Radiology, Knappschaftskrankenhaus Bochum-Langendreer, Germany / Arnd Felten
- 176 Reperfusion of Pulmonary AVMs after Coil Embolization: from the experience of embolization of 159 AVMs in 63 patients  
Dept. of Radiology, Hyogo College of Medicine / Satoshi Yamamoto
- 177 Transvenous retrograde cannulation of thoracic duct: Initial experience  
Dept. of Radiology, Kansai Medical University / Shuji Kariya

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- 13:50-14:50 37. Interventional Radiology 5: Experiments Osamu Ikeda
- 178 Early prediction of therapeutic effect of cryoablation using bioluminescence image: An experimental study  
Department of Nuclear Medicine and Diagnostic Radiology, Gunma University Graduate School of Medicine / Oyunbold Lamid-Ochir
- 179 Endovascular metallic marker implantation for real time tumor tracking during stereotactic irradiation : A phantom study using percutaneous marker  
Dept. of Radiology, Yamanashi University / Akira Imaizumi
- 180 Sensor-based electromagnetic navigation system for guidewire cannulation in renal and iliac arteries: A Phantom Model Study  
Dept. of Radiology, Kyorin University School of Medicine / Toshiya Kariyasu
- 181 In vivo evaluation of transarterial chemoembolization using cisplatin powder mixed with degradable starch microspheres in VX2 rabbit liver tumors  
Dept. of Radiology and IVR Center, Nara Medical University / Takeshi Sato
- 182 The utility of an active micro-catheter based on the Active Sheath mechanism  
Dept of Radiology, Shiga University of Medical Science / Norihisa Nitta
- 183 Hottest skin-dose presumed by apparent hot spots mapping system and Air Kerma indicated on DSA system  
Dept. of Diagnostic and Interventional Neuroradiology, Yamagata City Hospital  
/ Morio Nagahata

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15:00-15:50 38. Interventional Radiology 6: Embolization (miscellaneous)

Keigo Osuga

184 Initial experience with use of microspheres for embolization of type 3a arteriovenous malformations

Dept. of Radiology, Nagasaki University Hospital / Satomi Mine

185 Transcatheter arterial embolization of renal angiomyolipoma using a mixture of N-butyl-2-cyanoacrylate and iodized oil

Dept. of Radiology, Dokkyo Medical University Koshigaya Hospital /

Manabu Nakata

186 Initial experience of trans catheter arterial embolization of arteriovenous malformations in the extremities with microspheres

Dept. of radiology, KKR Sapporo Tonan Hospital / Tadashi Shimizu

187 Long-term outcomes of selective renal artery embolization for renal arteriovenous fistulas with aneurysmal change

Dept. of Radiology, Osaka University Graduate School of Medicine /

Yasushi Kimura

188 The early MR imaging outcomes after uterine artery embolization for uterine fibroids using Embosphere®

Dept. of Diagnostic and Interventional Radiology, Osaka University Graduate School of Medicine / Ryosuke Ohira

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16:00-16:40 39. Head and Neck 1: MRI

Reiichi Ishikura

189 Differences in Intravoxel Incoherent Motion Imaging Characteristics of HPV-Positive and HPV-Negative Head and Neck Squamous Cell Carcinomas

Dept. Diagnostic Radiology, Saitama Medical University, International Medical Center / Naoko Saito

190 Perfusion Imaging of Parotid Gland Tumors: Usefulness of Arterial Spin-Labeling for Differentiating Warthin's Tumors

Dept. of Radiology, Gifu University School of Medicine / Hiroki Kato

191 MR findings of mucoepidermoid carcinoma of the parotid gland using ADC value and dynamic contrast-enhanced study

Department of Radiology, Chiba University Hospital / Kenji Ohira

192 Comparison of MRI findings between intracranial and extracranial schwannomas

Department of Radiology, Gifu University Hospital / Tomohiro Ando

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13:00-13:40 40. Neuroradiology 1: Tumor

Masafumi Harada

193 [Canceled]

194 Diagnostic Utility of Intravoxel Incoherent Motion MR imaging in Differentiating Primary Central Nervous System Lymphoma from Glioblastoma Multiforme

Dept. of Clinical Radiology, Kyushu University / Koji Yamashita

195 Voxel-based Analyses of SUVs and ADCs with a PET/MR System: Initial Clinical Experience in Grading Diffuse Gliomas

Dept. of Clinical Radiology, Kyushu University / Osamu Togao

- 196 Performance of Major Diffusion Metrics in Distinguishing Lymphomas and Glioblastomas  
Hokkaido University / Khin Khin Tha
- 315
- 13:50–14:30 41. Neuroradiology 2: CT (others) Akira Kunimatsu  
197 [Canceled]
- 198 Iterative Reconstruction Designed for Brain CT: A Correlative Study with Filtered Back Projection for the Diagnosis of Acute Ischemic Stroke  
Dept. of Diagnostic Radiology / Takeshi Nakaura
- 199 Derivation and Prospective Validation of a Clinical Prediction Rule for a Potential Target of Lower Radiation Dose Head CT  
Dept. of Radiology, Juntendo University School of Medicine / Kanako Kumamaru
- 200 Assessment the utility of three-dimensional printed cerebral aneurysm model in neck clipping operation  
Dept. of Radiology, Kurume University School of Medicine / Ayako Yoshida
- 315
- 14:40–15:40 42. Neuroradiology 3: Miscellaneous Hitoshi Terada
- 201 Evaluation of intravoxel incoherent motion perfusion in the normal pituitary anterior lobe: turbo spin-echo diffusion-weighted imaging  
Dept. of Radiology, Kagoshima University Graduate School of Medical and Dental Sciences / Kiyohisa Kamimura
- 202 Neuroimaging Findings of Joubert Syndrome with C5ORF42 Gene Mutation: Do They Show Classic Molar Tooth Sign?  
Dept. of Radiology, Kanagawa Children's Medical Center / Mikako Enokizono
- 203 Contrast Enhancement of Perivascular Space in Basal Ganglia  
Dept. of Radiology, Nagoya University Graduate School of Medicine / Shinji Naganawa
- 204 Clinical usefulness of ischemic signs in differentiating thromboembolic occlusion from slow flow in patients with cerebrovascular disease  
Department of Radiology, National Cerebral and Cardiovascular Center / Naomi Morita
- 205 The characteristic distribution of Glx in depression patients  
Dept. of Radiology, St. Marianna University School of Medicine / Shingo Sakamoto
- 206 Consecutive Acquisition of Time-resolved Contrast-enhanced MR Angiography and Perfusion Imaging of the Brain Using a 1.0-M Contrast Agent  
Dept. of Radiology, Tokyo Teishin Hospital / Kazuhiro Tsuchiya
- 315
- 15:50–17:00 43. Technologies Chietsugu Katoh
- 207 The development of a new compression device for intravascular treatment of superficial vascular malformations  
Department of Radiology, Aichi Medical University / Akira Kitagawa

- 208 Evaluation of the accuracy of 3D printed visceral aneurysmal models utilizing CT angiography data  
Dept. of Radiology, The University of Tokyo Hospital / Eisuke Shibata
- 209 Lung cancer screening in ultra-low-dose CT by means of massive-training artificial neural network image-quality improvement: An initial clinical trial  
Dept. of Diagnostic Radiology, Hiroshima University / Wataru Fukumoto
- 210 Model-Based iterative reconstruction technique for low radiation dose abdominal CT: comparison with hybrid iterative reconstruction and filtered back projection techniques  
Dept. of Radiology, Kobe University Graduate School of Medicine / Yoshiko Ueno
- 211 Ultra High Field MRI of Human Brain Structure and Function  
Div. Cerebral Integration, National Institute for Physiological Sciences / Norihiro Sadato
- 212 The Effect of Acceleration Factor in Multiband GE-EPI Sequence on the Functional SNR and Slice-separation Accuracy in 7T MRI  
Division of Cerebral Integration, National Institute for Physiological Sciences / Norihiro Sadato
- 043 Initial evaluation of Photoacoustic Imaging in an vivo animal model  
Dept. of Radiology, Kanazawa University School of Medicine / Kenichiro Okumura

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- 9:50-10:50 44. Radiation Oncology 6: CNS Natsuo Oya
- 213 <sup>18</sup>F-labeled fluoromisonidazole (FMISO) positron emission tomography for pretreatment evaluation of hypoxia in metastatic brain tumor  
Dept. of Radiation Oncology, Hokkaido Univ. Hosp. / Takashi Mori
- 214 Patterns of failure in glioblastoma multiforme following standard (60 Gy) or short-course (40 Gy) radiation and concurrent temozolomide  
Dept. of Radiology, Kanazawa University School of Medicine / Miu Mizuhata
- 215 Outcome of Patients with Glioblastoma Multiforme Treated with Chemoradiotherapy and Bevacizumab  
Department of Comprehensive Clinical Oncology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan / Tadamasu Yoshitake
- 216 Retrospectively report about the treatment outcomes of patients with glioblastoma  
Dept. of Radiology, Chiba University School of Medicine / Rina Ichikawa
- 217 Treatment outcome of glioblastoma patients: retrospective study of single institute  
Radiation oncology service, Dept of Radiology, The University of Tokyo Hospital / Akihiro Nomoto
- 218 Clinical Outcome of Hypofractionated Radiotherapy with Concurrent Temozolomide in Elderly Patients with Glioblastoma  
Dept. of Radiation Oncology and Image-applied Therapy, Kyoto University Graduate School of Medicine / Megumi Uto

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- 9:40-10:50 45. Nuclear Medicine 4: Miscellaneous Mayuki Uchiyama
- 219 Semiquantitative parameters of  $^{18}\text{F}$ -Fluorodeoxyglucose Positron Emission Tomography and  $^{111}\text{In}$ -Ibritumomab tiuxetan scintigraphy study as prognostic factor of  $^{90}\text{Y}$ -ibritumomab tiuxetan therapy  
Department of Diagnostic Radiology and Nuclear Medicine, Gunma University  
/ Yudistiro Ryan
- 220 Phase I, First-in-Human Study of  $^{123}\text{I}$ IIMU, a Novel Thymidine Phosphorylase Tracer - Preliminary Report  
Dept. of Nuclear Medicine, Hokkaido University Graduate School of Medicine  
/ Shiro Watanabe
- 221 Feasibility of image fusion from MR and MR-compatible flexible PET: a pilot study  
Department of Diagnostic Imaging and Nuclear Medicine Graduate School of Medicine, Kyoto University / Ryusuke Nakamoto
- 222 Physiological uptake in PET/CT with  $^{68}\text{Ga}$ -DOTATOC  
Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine / Yuji Nakamoto
- 223 Physiological accumulation in the teres minor muscle on FDG-PET-CT  
Dept. of Radiology, Akita University School of Medicine / Koichi Ishiyama
- 224 Clinical evaluation and optimization of Q.Clear : a preliminary study of a new PET reconstruction method  
Department of Radiology, Hyogo Prefectural Amagasaki General Medical Center  
/ Tomoaki Otani
- 225 Differences of SUV between Q.Clear, a new image reconstruction method for PET, and conventional iterative reconstruction  
Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine / Takayoshi Ishimori

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- 11:00-11:50 46. Nuclear Medicine 5: Miscellaneous Yasuo Kuwabara
- 226 Different Prognostic Implications of  $^{18}\text{F}$ -FDG PET between Histological Subtypes in Patients with Cervical Cancer  
Biomedical Imaging Research Center, University of Fukui / Tetsuya Tsujikawa
- 227 Ring type dedicated breast PET scan; evaluation of diagnostic performance for breast lesions in comparison with conventional whole body PET  
Dept. of Radiology, Gifu University Hospital / Hiromi Koyasu
- 228 Evaluation of acquisition time and early and delayed images using Elmammo® dedicated breast positron emission tomography scanner  
Dept. of Radiology, Kizawa Memorial Hospital / Hironori Nishibori
- 229 Evaluation of bone uptake in patients with prostate cancer using a quantitative bone SPECT/CT with OSCGM reconstruction  
Dept. of Nuclear Medicine, Saitama Medical University International Medical Center / Ichiei Kuji
- 230 Diagnosis of FDG-PET/CT in Malignant Lymphoma of Bone and Fibrous dysplasia  
Dept. of Radiology, Kansai Medical University / Yasuhiro Ueno

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9:20-10:00 47. Head and Neck 2: CT and others

Hiroya Ojiri

231 Parapharyngeal Space Lesions; Spectrum in Asian Population

Department of Radiology, Pamela Youde Nethersole Eastern Hospital /  
Daniel Chun Wah Tang232 Diffusion-Weighted Imaging with TSE in the head and neck region: Comparison  
with Echo-Planner Imaging in Image Quality

Dept. of Radiology, Kumamoto University School of Medicine / Kenichiro Hirata

233 Detectability and anatomical location of cholesteatoma with fused thin slice  
non-echo planar imaging diffusion-weighted image and CT (CT-nEPID)Dept. Diagnostic Radiology, Yamagata University Faculty of Medicine /  
Toshitada Hiraka

234 Metastatic tumors of the parotid gland: CT and MR Imaging findings

Dept. of Radiology, Kinki University School of Medicine / Nobuo Kashiwagi

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10:10-11:00 48. Neuroradiology 4: ASL · NODDI

Kohsuke Kudo

235 Neurite Orientation Dispersion and Density Imaging (NODDI) of Patients with  
Progressive Multifocal Leukoencephalopathy (PML)

Dept. of radiology, Nara medical University / Toshiteru Miyasaka

236 Estimation of cerebral hemodynamic ischemia using dual-point ASL-CBF imaging

Dept. of Radiology, University of Fukui / Tatsuro Tsuchida

237 Arterial transit time measured by multi-delay ASL perfusion for evaluating major  
cerebral artery stenosis/occlusive disease: correlation with 123-IMP SPECT

Dept. of Radiology, University of Fukui / Kayo Takeuchi

238 Time course of the changes in white matter microstructure of small infarctions  
using neurite orientation dispersion and density imaging (NODDI)

Department of Radiology, Nagoya University / Toshiaki Taoka

239 Usefulness of 3D arterial spin-labeled brain perfusion imaging in the diagnosis  
of iNPH

Dept. of Radiology, Kumamoto Rousai Hospital / Shinichi Nakamura

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11:00-11:40 49. Neuroradiology 5:

Dementia and Neurodegenerative disease

Kentaro Akazawa

240 Signal intensity of pre- and postcentral gyri in corticobasal degeneration on  
phase-difference enhanced MR images: Comparison with Parkinson disease

University of Occupational and Environmental Health / Mari Miyata

241 Quantitative assessment of iron deposition in dementia patients with Alzheimer  
disease and Lewy bodies using quantitative susceptibility mappingDept. of Radiology, Miyazakii University, Faculty of Medicine /  
Yoshihito Kadota242 A quantitative technique for the evaluation of Parkinson's disease using  
quantitative susceptibility mapping and neuromelanin imagingDepartment of Radiology, Osaka University Graduate School of Medicine /  
Hiroto Takahashi

- 243 Transcranial MR-guided Focused Ultrasound Thalamotomy in patients with Essential Tremor: FDA-approved Safety and Feasibility (Phase I) Study in Japan  
Diagnostic Radiology, Shinyurigaoka General Hospital / Toshio Yamaguchi

315

9:10-10:00 50. Interventional Radiology 7: Biopsy/drainage

Koji Sugimoto

- 244 Efficacy and Safety of Transjugular Liver Biopsy for Patients with Massive Ascites or Severe Coagulopathy: Single Center Retrospective Study  
Dept. of Radiology, Okayama University Hospital / Jun Sakurai
- 245 Malignant bile duct obstruction jaundice treatment of Percutaneous Transhepatic Biliary Drainage complications with current situation in National cancer center, Mongolia  
HPBD, NCC of Mongolia / Gantulga Vanchinsuren
- 246 Analysis of CT-guided bone biopsy  
Dept. of Radiology, Kansai Medical University / Miyuki Nakatani
- 247 Percutaneous CT-guided implantation of a Visicoil fiducial marker for stereotactic body radiotherapy of the lung in 24 patients  
Dept. of Interventional Radiology, Kawasaki Saiwai Hospital / Soichiro Hase
- 248 Drainage of small abscesses in the iliopsoas muscle  
Dept. of Radiology, Tenri hosp / Hirota Tomimatsu

315

10:10-11:00 51. Interventional Radiology 8: Image-guidance techniques

Yukihiko Sato

- 249 Right portal vein embolization before major right hepato-ectomy for hepatocellular carcinoma  
Division of interventional radiology, department of hepato biliary pancreatic surgery, National cancer center of Mongolia / Erdenebulgan Batmunkh
- 250 Balloon-assisted n-butyl cyanoacrylate (NBCA) glue embolization mixed with Lipiodol and ethanol  
Dept. of Diagnostic Radiology, Tokai University School of Medicine / Jun Koizumi
- 251 Percutaneous puncture of inflow vein for rectal and stomal variceal bleeding  
Dept. of Radiology Nissei Hosp. / Munehiro Maeda
- 252 Evaluation of arterial distribution in the urinary bladder using CT arteriography at intra-arterial chemotherapy for invasive bladder cancer  
Dept. Diagnostic Radiology, Niigata Cancer Center Hospital / Hiroshi Seki
- 253 Evaluation of Input Methods for Manipulating Tablet Personal Computer in Sterile Techniques  
Dept. of Radiology, Shinshu University School of Medicine / Akira Yamada

315

11:10-11:50 52. Interventional Radiology 9: Aneurysm/stent/PTA

Makoto Hanawa

254 Clinical experience of the Crosser system in below the knee lesions in patients with critical limb ischemia

Tsuchiya general hospital / Tomoyasu Sato

255 Comparing Outcome of Ultrasound Guided Manual Compression vs Ultrasound Guided Thrombin Injection in Management of Iatrogenic Pseudo-aneurysms

Department of Radiology, Yashoda Hospital / Sridhar Devu

256 Coil packing using the hydro coil embolic system in the visceral artery aneurysms  
Dept. of Interventional radiology, Kawasaki Saiwai Hospital / Jun-ichi Nishimura

257 Intraoperative fibrin glue embolization of aneurysm to prevent type II endoleak during EVAR: One year follow-up

Dept. of Radiology, Tottori University School of Medicine / Kensuke Matsumoto

303

13:00-14:00 53. Chest 5: Anatomy/technique

Kazuto Ashizawa

258 Computer-Aided Volumetry for Lung Nodule Assessment: Comparison among FIRST, AIDR 3D and FBP in QIBA Recommended Lung Nodule Phantom Study

Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Yoshiharu Ohno

259 The usefulness of a dictionary learning post-processing technique for improving image quality of low-dose chest CT

Dept. of Radiology, Mie University Hospital / Yoshinori Kanii

260 A Preliminary Result on Localized Pleural Adhesion (LPA) Detection by Ultra-Low-Dose Four-Dimensional Computed Tomography with AIDR-3D (ULD-4DCT) and Trans-Thoracic Echocardiography

Dept. of Radiology, Shiga University of Medical Science / Yukihiro Nagatani

261 Submillisievert CT with new Model-Based Iterative Reconstruction (MBIR-VEO3.0): An Initial Lung Phantom Study

Dept. of Radiology, Osaka University Graduate school of Medicine / Akinori Hata

262 Ultra-low-dose chest CT for lung cancer screening using full iterative reconstruction: Feasibility study

Department of Diagnostic Radiology Graduate School of Biomedical Sciences, Hiroshima University / Masayo Fujita

263 Investigating an Optimal Acquisition Timing for Black-blood Lung MR with Peripheral Pulse Gating

Kyushu University Graduate School of Medical Sciences, Department of Clinical Radiology / Ryotaro Kamei

303

14:00-14:40 54. Cardiovascular 4: Artery and others

Daisuke Utsunomiya

264 Initial experience of assessment of lung perfusion images using lung subtraction in patients with chronic thromboembolic pulmonary hypertension

Dept. of Radiology, Kyorin University School of Medicine / Toshiya Kariyasu



- 265 Aortic diverticulum associated with aortic arch anomalies:evaluation of routine CT examinations  
Dept. of Radiology, Tokai University School of Medicine / Tamaki Ichikawa
- 266 Can whole-body screening CT under 75% dose-reduction protocol be applied for detection of arteriosclerotic lesions just after coronary CT angiography?  
Dept. of Radiology, Amakusa Medical Center / Morikatsu Yoshida
- 267 [Canceled]

304

13:00-13:50 55. Radiation Oncology 7: Lung and Female pelvis

Takashi Mizowaki

- 268 18F-fluoromisonidazole PET/CT for Stage I Non-Small Cell Lung Cancer Treated by Stereotactic Body Radiotherapy  
Dept. of Radiation Oncology, Hokkaido University Graduate School of Medicine / Tetsuya Inoue
- 269 Treatment outcomes of SBRT (stereotactic body radiation therapy) for lung metastases in colorectal cancer and primary lung adenocarcinoma patients  
Hiroshima Heiwa Clinic High-Precision Radiation Treatment Center / Yukio Akagi
- 270 Inverse planning in cervical cancer brachytherapy: comparison with graphical optimization  
Department of Physics, Stockholms University / Lucilio dos Santos Matias
- 271 Is prophylactic cranial irradiation necessary for small cell carcinoma of the uterine cervix?  
Dept. of Radiation Oncology and Image-Applied Therapy, Kyoto University School of Medicine / Satoshi Takeno
- 272 Quantification of uterine motion during a course of definitive radiotherapy  
Dept. of Radiology, University of the Ryukyus Hospital / Hitoshi Maemoto

311+312

13:00-13:50 56. Nuclear Medicine 6: Lung and Whole Body

Tsuneo Saga

- 273 Numerical evaluation of the degree of vascular impairment or remodeling of the lung with COPD by 99m-Tc MAA Scintigraphy SPECT  
Dept. of Radiology, Numata Hospital / Osamu Mitomo
- 274 Prognostic Impact of Deep-Inspiratory Breath-Hold Pulmonary Perfusion SPECT-CT in Patients with Pulmonary Emphysema  
Dept. of Radiology, Nippon Medical School Hospital / Teruhiko Hamana
- 275 Correlation of metabolic parameters using 18F-FDG PET/CT with thymidylate synthase expression in primary lung adenocarcinoma  
Dept. Radiology, Fac. Medicine, Kagawa University / Makiko Murota
- 276 The utility of PET/CT with <sup>68</sup>Ga-DOTATOC in sarcoidosis imaging: comparison with <sup>67</sup>Ga-scintigraphy  
Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto University School of Medicine / Tomomi Nobashi

- 277 Lymphadenopathy of Kikuchi Disease and TB Evaluated with FDG-PET Imaging as Compared with Castleman Disease  
Dept of Radiology, Kanazawa Medical University / Naoto Watanabe
- 311+312
- 13:50-14:50 57. Nuclear Medicine 7: Miscellaneous Yusuke Inoue
- 278 Predicting prognosis of posthepatectomy liver failure using  $^{99m}\text{Tc}$ -GSA scintigraphy and CT volumetry  
Dept. of Radiology Kyoto University School of Medicine / Ayako Kato
- 279 Varying  $^{18}\text{F}$ -FDG uptake and glucose transporter 1 expression in mass forming type of intrahepatic cholangiocarcinoma  
Department of Radiology, Kanazawa University Graduate School of Medical Science / Kazuto Kozaka
- 280 FLT PET/CT for staging of pancreatic cancer: Comparison with FDG PET/CT  
Department of Radiology, Kagoshima University, Graduate School of Medical and Dental Sciences / Masatoyo Nakajo
- 281 Usefulness of Semi-quantitative Analysis in I-123 Metaiodobenzylguanidine Scintigraphy for Differentiation of Pheochromocytoma and Cortical adenoma  
Department of Clinical Radiology, Kyushu University Graduate School of Medical Sciences / Yoshiyuki Kitamura
- 282 Detectability of primary invasive bladder cancer in delayed  $^{18}\text{F}$ -FDG-PET imaging after oral-hydration-voiding-refilling  
Dept. of Diagnostic Radiology, Osaka Medical College / Akira Higashiyama
- 055 Evaluation of new PET tracer of fluorine-18 labeled peptide targeting GPC3 for imaging Hepatocellular carcinoma  
Department of Diagnostic Radiology and Nuclear medicine, University of Gunma / Wenchao Gu
- 313+314
- 13:00-14:10 58. Pancreas and Gallbladder Toshifumi Gabata
- 283 [Canceled]
- 284 Pancreatic Perfusion Measurements Using 320-Detector Row CT: The Correlations between CTP Data and Histological Findings  
Dep. of Diagnostic Radiology, National Cancer Center Hospital East / Tatsushi Kobayashi
- 285 Prognostic significance of contrast-enhanced CT attenuation value in extrahepatic bile duct carcinoma  
Dept. of Clinical Radiology / Yoshiaki Asayama
- 286 Evaluation of Secondary Signs of the Pancreas: Comparison between the Patients with Pancreatic Cancer and without Pancreatic Cancer  
Dept. of Radiology, Kawasaki Medical School / Akihiko Kanki
- 287 FASE-DWI in the Abdomen  
Advanced Biomedical Imaging Research Center, Kobe University Graduate School of Medicine / Takeshi Yoshikawa
- 288 Optimal b value for distinguishing pancreatic cancer from pancreatitis using computed diffusion-weighted 1.5T MRI  
Dept. of Radiology, Shimane University School of Medicine / Rika Yoshida

- 289 Usefulness of 3D magnetic resonance cholangiopancreatography with partial maximum intensity projection for diagnosing autoimmune pancreatitis  
Dept. of Radiology, Shinshu University School of Medicine / Shin Yanagisawa

315

- 13:00-14:00 59. Interventional Radiology 10: Shunt/Vein/Lymphatics  
Yoshihisa Kodama
- 290 Evaluation of Blood Collection Methods in Adrenal Venous Sampling  
Dept. Radiology, Tenri Hospital / Tomoya Kadoba
- 291 Significance and efficacy of super-selective ACTH-stimulated adrenal venous sampling, compared to conventional sampling method  
Dept. of Radiology, Toho University Omori Medical Center / Masahiro Kobayashi
- 292 Outcome of endovascular treatment (BRTO/PTO) for visceral varices due to portal hypertension in one institute  
Dept. of Radiology, Hiroshima University School of Medicine / Tomoyo Fuji
- 293 MR findings after cryoablation of venous malformations  
Dept. of Radiology, Okayama University Medical School / Hiroyasu Fujiwara
- 294 Percutaneous Transhepatic Stent Placement for Symptomatic Portal Venous Stenosis after Surgical Treatment for Pancreatic and Biliary Malignancies  
Dept. of Diagnostic and Interventional Radiology, Hokkaido University Hospital  
/ Tasuku Kimura
- 295 Percutaneous embolization for hepatic encephalopathy due to portosystemic shunts  
The Department of Diagnostic and Interventional Radiology, Hokkaido University hospital / Ryo Morita

## Electronic Poster Presentation Programs

April 15 (Fri.)

### Poster Presentation Booth1

9:10-9:45 1. Cardiovascular 1

Norihiko Yoshimura

C001 Image Quality of Coronary Computed Tomography Angiography with 320-Row Area Detector Computed Tomography in Children with Congenital Heart Disease

Dept. of Radiology, Okayama University Medical School / Akihiro Tada

C002 High Risk Plaque and Calcification Assessed by Coronary CT as a Predictor of TVF and MACE after DES Implantation

Dept. of Radiology, New Tokyo Hospital / Nobuo Tomizawa

C003 Characterization of Normal Regional Left Ventricular Three-dimensional Maximum Principal Strain by Cardiac Computed Tomography

Dept. of Radiology, Ehime University School of Medicine / Emiri Miyauchi

C004 Explanatory echocardiographic variables for contrast arrival time and aortic concentration in cardiac CT

Dept. of Radiology, Graduate School of Medicine, The University of Tokyo / Shigeaki Kanno

C005 Imaging of Acute Coronary Syndrome on contrast-enhanced computed tomography

Dept. Radiology, Akita University Hospital / Yuki Wada

### Poster Presentation Booth1

10:00-10:35 2. Cardiovascular 2

Fumiko Kimura

C006 Factors affecting the heart rate reduction effect of landiolol hydrochloride for coronary computed tomography angiography: A multivariate analysis

Dept. of Radiology, Takase Clinic / Makoto Amanuma

C007 The Image Quality of Coronary Artery Plaque with Rapid kV-switching Dual-energy CT

Division of Radiology, Tottori University Faculty of Medicine / Yasutoshi Ohta

C008 Improvement of the thrombotic to venous contrasts in the lower limbs using low kilovoltage CT

Dept. of Radiology, Asahikawa Medical University / Tomoaki Sasaki

C009 The validity of D-dimer testing in patients with suspected new VTE in a university hospital setting

Dept. of Radiology, The University of Tokyo Hospital / Takatoshi Kubo

C010 Comparison of 2 biphasic contrast injection methods for separation of the pulmonary artery/vein at 3D-CT angiography before lung cancer surgery

Dept. of Radiology, Faculty of Life Sciences, Kumamoto University / Hideaki Yuki

### Poster Presentation Booth1

15:10-15:59 3. Neuroradiology 1

Masaki Katsura

C011 Can cerebral lymphomas and glioblastomas be differentiated based on histogram analysis parameters on contrast-enhanced T1-weighted images?

Dept of Radiology, University of Fukui / Tatsuya Yamamoto

- C012 Use of morphologic features of intratumoral susceptibility signals on PRESTO in predicting the preoperative grading of gliomas  
Dept. of Diagnostic Radiology, Tohoku University Graduate School of Medicine / Li Li
- C013 Developmental venous anomalies with focally increased arterial inflow detected on arterial spin labeling  
Dept. of Radiology, Hamamatsu University School of Medicine / Ai Koda
- C014 Discrimination of Glioblastoma and Primary Central Nervous System Lymphoma by Using a Machine Learning Technique  
Dept. Radiology, The University of Tokyo / Akira Kunimatsu
- C015 Turbo Spin-Echo-Based Black-Blood MRA of Intracranial Arteries; A Preliminary Experience  
Dept. of Radiology, Fukuoka University Faculty of Medicine / Koichi Takano
- C016 Utility of real-time prospective motion correction for segmentation of cerebral cortex on 3D T1WI: VBM analysis for the uncooperative patients  
Dept. of Radiology, University of Occupational and Environmental Health School of Medicine / Natsuki Igata
- C017 Evaluation of Head and Neck Arteriovenous Malformations with 4D Contrast-Enhanced MR Angiography at 3T  
Department of Diagnostic Radiology, Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan / Yasuhiko Iryo

**Poster Presentation Booth1**

- 16:00-16:49 4. **Neuroradiology and Head and Neck** Hiroshi Oba
- C018 Blood flow measurements before and after carotid artery stenting  
Dept. of Radiology, Osaka University School of Medicine / Hisashi Tanaka
- C019 Neurite Orientation Dispersion and Density Imaging in Evaluation of Microstructural Changes in Periventricular Brain Regions in Neuromyelitis Optica  
Dept. of Radiology, University of Yamanashi / Tomohiro Takamura
- C020 Correlation between neuromelanin-sensitive MRI and 123I-FP-CIT SPECT in patients with parkinsonism  
Division of Radiology, Department of Pathophysiological and Therapeutic Science, Tottori University, Faculty of Medicine / Keita Kuya
- C021 Neural basis of destination memory: Medial temporal lobe activity revealed by fMRI study  
Dept. Diagnostic Radiology, Tohoku Univ graduate school of medicine / Shunji Mugikura
- C022 Improved Homogeneity of B1+ and Signal Intensity at 7T Using a Parallel Transmission on Human Volunteers  
Department of Diagnostic and Interventional Radiology, Hokkaido University / Taisuke Harada
- C023 Diagnostic Performance of Dynamic Contrast-Enhanced MRI in Differentiating Central Nervous System Lymphoma from Other Tumors  
Dept. of Radiology, Fujita Health University / Kazuhiro Murayama
- C024 Differences in MR imaging characteristics of human papillomavirus positive and negative oropharyngeal cancers  
Dept. of Radiology, Jichi Medical University School of Medicine / Atsushi Ugajin

## Poster Presentation Booth1

17:00–17:49 5. Autopsy Imaging and others

Seiji Shiotani

C025 Analyses of postmortem brain CT changes by using statistical parametric mapping  
Dept. of Radiology, Shimane University School of Medicine / Hiroshi Mori

C026 Methods of optimizing the display conditions of brain MR images

Dept. of Diagnostic Radiology, Kitasato University School of Medicine /  
Toshimasa HaraC027 Diagnostic Performance of Ultra-high Resolution CT for Evaluating of Cerebral  
Small Arteries: Comparison with Conventional CT

Dept. of Radiology, Fujita Health Univ. / Hiroyuki Nagata

C028 Questionnaire-based Study of Usage of a Radiology Consultation Service for  
Designated Cancer Care HospitalsRadiology Consultation, Division of Medical Support and Partnership, Center  
for Cancer Control and Information Services, National Cancer Center /  
Hideaki KobayashiC029 Size-specific dose estimation for effective CT radiation dose in patients with  
hepatocellular carcinoma treated by transcatheter arterial embolizationDiv. of Radiological Technology, Hirosaki University School of Health Sciences  
/ Yoko SaitoC030 Usefulness of indocyanine green contrast agent for photoacoustic imaging in an  
in vivo modelDept. of Radiology, Kanazawa University School of Medical Science /  
Kotaro YoshidaC031 Imaging, and treatment of primary-tumor through immunogenic cell death  
(ICD), and metastasis through abscopal effect, using targeted nanoparticles via  
radiotherapy

Dept. of Radiology, Iwate Medical University / Satsohi Harada

## Poster Presentation Booth2

9:10–9:52 6. Nuclear Medicine 1: Miscellaneous

Yasuyuki Taki

C032 Quantification of left ventricular function using gated SPECT with three  
different automated software packages, cardiac MRI and echocardiography

Division of Radiology, Gunma Cardiovascular Center / Keiko Koyama

C033 Cardiac inflammation burden in cardiac involvement sarcoidosis independently  
increased to systemic inflammation burden using volumetric estimation and  
FDG PET/CT

Dept. of Nuclear Medicine, Hokkaido University / Osamu Manabe

C034 Correlation between parameters of <sup>99m</sup>Tc-GSA scintigraphy and hepatic fibrosis  
markersRadiology, Faculty of Medicine, University of Miyazaki, Miyazaki, Japan. /  
Yoichi MizutaniC035 The usefulness of FDG-PET/CT for preoperative examination in patients with  
intraductal papillary mucinous neoplasm of the pancreas

Dept. of Radiology, Kitaharima Medical Center / Shinsuke Shimoyama

C036 The utility of FDG-PET/CT in urinary malignancies

Dept. Radiology, Tokushima University Hospital / Saho Irahara

- C037 Comparison of the diagnostic value of bone scintigraphy with 68Ga-PSMA PET for bone metastasis in prostate cancer  
Dept. of Nuclear Medicine, Graduate School of Medicine, Hokkaido University  
/ Shozo Okamoto

Poster Presentation Booth2

10:00-10:49 7. Interventional Radiology 1: Miscellaneous

Yoshiki Asayama

- C038 Imaging anatomy of dural blood supply from pial arteries: evaluated by 3D rotational angiography in normal subjects and pathologic conditions  
Dept. of Radiology, Oita University faculty of Medicine / Shuichi Tanoue
- C039 [Canceled]
- C040 Experience of detachable coil embolization of left subclavian artery for TEVAR with debranching  
Dept. of Radiology, Kochi University School of Medicine / Tomoaki Yamanishi
- C041 Venous spasm occurring in peripheral insertion of central venous port or catheter  
Dept. of Radiology, Kochi University School of Medicine / Kenta Ogi
- C042 Adrenal venous sampling in patients with primary aldosteronism; which is the best method for evaluating an indication for surgery?  
Dept. of Radiology, University of The Ryukyus Hospital / Kimei Azama
- C043 Angiographic anatomy of the left inferior phrenic vein in patients with normal liver: for balloon-occluded retrograde transvenous obliteration  
Dept. of Radiology, University of Yamanashi / Takuji Araki
- C044 The influence of peritoneovenous shunt for refractory ascites on renal function  
Dept. of Radiology, Iwate Medical University / Takafumi Segawa

Poster Presentation Booth2

11:10-11:45 8. Chest 1

Takeshi Johkoh

- C045 Kinematic MR imaging of the thorax during forced breathing using 2D subsecond SSFP sequence: Comparison with pulmonary function test  
Dept. of Radiology, Kawasaki Medical School / Daigo Tanimoto
- C046 The phrenic nerve with accompanying vessels: A silent cause of cardiovascular border obliteration on chest radiograph  
Dept. of Radiology, Nagasaki Prefecture Shimabara Hospital / Yukihiko Ogihara
- C047 Changes of chemical shift ratio of thymic hyperplasia depending on age  
Dept. of Radiology, Asahikawa Medical University / Toshihiro Yamaki
- C048 Pulmonary hemodynamics measured by phase-contrast MRI as predictors of mortality in interstitial lung diseases  
Dept. of Radiology, University of the Ryukyus / Nanae Tsuchiya
- C049 Fat Suppression Capabilities at Chest 3T MRI: Utilities of Two-point mDixon-TSE Technique in Comparison with SPAIR and STIR Technique  
Division of Radiology, Department of Radiology, Kobe University Graduate School of Medicine, Kobe, Japan / Yuji Kishida

## Poster Presentation Booth2

15:10-15:59 9. Chest 2

Yoshiharu Ohno

- C050 Differential diagnosis of mediastinal solid tumors using perfusion CT with time-density curve analysis  
Dept. Clinical Radiology, Graduate School of Medical Sciences, Kyushu University  
/ Torahiko Yamanouchi
- C051 Movement of Intrathoracic Structures; Comparison between Prone Position and Supine Position  
Dept. of Radiology, Kitakyushu Municipal Medical Center / Ryo Murayama
- C052 A case of bilateral pulmonary artery pseudoaneurysms diagnosed by 3D-CT angiography  
Dept. of Radiology, Hirosaki University School of Medicine / Fumiyasu Tsumishima
- C053 Image Quality of HRCT with the New MBIR for Solitary Lung Nodules: A Comparison with Conventional MBIR and ASIR  
Dept. of Radiology, Tokyo University School of Medicine / Koichiro Yasaka
- C054 Continuous quantitative measurement of the proximal airway dimensions and lung density on 4-dimensional dynamic-ventilation CT in smokers  
Dept. of Radiology, University of the Ryukyus / Tsuneco Yamashiro
- C055 CT characteristics of non-small cell lung cancer with ALK rearrangement: comparison with EGFR mutation and ALK/EGFR negative lung cancer  
Dept. of Clinical Oncology, Nagasaki University Graduate School of Biomedical Sciences / Mio Mori
- C056 Correlation between dynamic and static lung perfused blood images on histogram-based analysis using dual-energy CT  
Dept. of Radiology, Yamaguchi University School of Medicine / Munemasa Okada

## Poster Presentation Booth2

16:00-16:49 10. Chest 3

Tae Iwasawa

- C057 The chest HRCT and abdominal CT findings of MPA(microscopic polyangitis)  
Dept. of Radiology, Nagoya City University School of Medicine / Nobukata Kazawa
- C058 CT examination as a screening for pneumoconiosis: Trial of making CT reference films  
Dept. of Clinical Oncology, Nagasaki University Graduate School of Biomedical Sciences / Hideyuki Hayashi
- C059 Pulmonary hypertension: prediction of pulmonary artery pressure based on lung CT histogram  
Department of Radiology, Kagoshima University Graduate School of Medical and Dental Sciences / Koji Takumi
- C060 One section diagnosis at the first branch of the main bronchus for pulmonary right or left isomerism by 3D CT  
PET Center, Nishinokyou Hospital / Hideaki Otsuji
- C061 Evaluation of the Correlation Between Image Severity of Interstitial Lung Disease and Lung Cancer  
Departments of Radiology, Juntendo University Faculty of Medicine / Akihiro Hotta



- C062 CT features associated with epidermal growth factor receptor mutation in patients with lung adenocarcinoma  
Dept. of Radiology, Kagoshima University Graduate School of Medical and Dental Sciences / Hiroto Hakamada
- C063 Diffuse pulmonary ossification in systemic sclerosis-related interstitial lung disease  
Dept. of Radiology, Saga University / Ryoko Egashira

April 16 (Sat.)

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Poster Presentation Booth1

- 9:10-9:59 11. Liver and pancreas 1 Yuya Onodera
- C064 Reduced Iodine Dosage in Hepatic Dynamic CT Using Virtual Monochromatic Imaging with a Fast-kVp Switching Dual-Energy CT  
Dept. of Radiology, Kindai University Faculty of Medicine / Tomoko Hyodo
- C065 Development of pancreatic adenocarcinoma is predictable well in advance using contrast-enhanced computed tomography: A case-cohort study  
Department of Radiology, Graduate School of Medicine, the University of Tokyo, Tokyo, Japan / Wataru Gono
- C066 Small (<2 cm) pancreatic ductal adenocarcinoma with capsule-like rim: evaluation by MDCT with pathological correlation  
Dept. of Radiology, Oita University Faculty of Medicine / Ryo Takaji
- C067 Abdominal lymph-node involvement in pneumoconiosis: evaluation with MDCT  
Dept. of Radiology, Oita University Faculty of Medicine / Maki Kiyonaga
- C068 Vascular Anatomy of the Inferior Pancreaticoduodenal Artery: Evaluation with Thin-slice CT  
Dept. of Radiology, Saitama Medical University International Medical Center / Yoshitaka Okada
- C069 Comparison of the contrast enhancement for different CT scanners from different vendors at abdominal CT  
Dept. of Radiology, Kumamoto University Hospital / Narumi Taguchi
- C070 Relation with Transient Severe Motion Related Artifact on Gd-EOB-DTPA MR Imaging and Respiratory bellows  
Dept. of Radiology, Kanazawa University Hospital / Hiroshi Ikeno

Poster Presentation Booth1

- 10:10-10:59 12. Liver and pancreas 2 Yasunari Fujinaga
- C071 Correlation between treatment response and hemodynamics changes after proton beam therapy for hepatocellular carcinoma using gadoxetate disodium-enhanced hepatic MRI  
Department of Radiotherapy, Kanazawa University School of Medicine / Shigeyuki Takamatsu
- C072 Gd-EOB-DTPA-Enhanced MR Imaging of Hepatic Adenomas in Experimental Animals: Image-Histology Correlation  
National Cancer Center / Masayuki Yamaguchi
- C073 Accuracy of hepatic fat fraction measurement after administration of Gd-EOB-DTPA with 6-point Dixon technique: Comparison with pre-contrast MR imaging  
Dept. of Diagnostic Radiology, Kumamoto University / Tomohiro Namimoto

- C074 Evaluating qualitative differences between liver metastasis and microabscess in bile duct and pancreas carcinoma with bile duct dilatation in EOB-MRI  
Diagnostic radiology and Radiation oncology, Chiba Univ. Hosp. / Yu Kawashima
- C075 Fat quantification of adrenal masses using 3D 6-point Dixon MR imaging :  
Comparison with chemical shift imaging and CT attenuation value  
Department of Radiology, Faculty of Medicine, University of Miyazaki /  
Norihiko Shinkawa
- C076 EpCAM-positive hepatocellular carcinoma: imaging and clinicopathological findings  
Dept. of Radiology, Kanazawa University Hospital / Norihide Yoneda
- C077 Incidence of peribiliary cysts in various chronic hepatic diseases and normal liver  
Department of Radiology, Kanazawa University Graduate School of Medical  
Science / Takashi Matsubara

#### Poster Presentation Booth1

11:10-11:45 13. Pediatric

Hiroko Hara

- C078 Synthetic ECG triggering in 320-row pediatric cardiac CT  
Dept. of Radiology, The University of Tokyo Hosp. / Eisuke Shibata
- C079 Accuracy of morphological evaluation of ventricular septal defects in inverted volume rendering using Flash Spiral Cardio mode  
Dept. of Radiology, Nagoya City University Graduate School of Medical Sciences  
/ Motoo Nakagawa
- C080 Spectrum of seizures in pediatrics with acute encephalopathy, biphasic seizures, and late reduced diffusion  
Dept. of Radiology, Kochi Medical School / Yoriko Murata
- C081 Progress of MRI findings of neonates who showed total brain injury and their clinical outcomes in the short term  
Japanese Red Cross Kyoto Daiichi Hospital / Sachiko Koshino
- C082 New Prototype Body Holder for MR Examination in Unanesthetized Neonates  
Dept. Radiology, Saitama Medical University Hospital / Ichiro Osawa

#### Poster Presentation Booth1

13:00-13:42 14. Cardiovascular 3

Yasuo Amano

- C083 Strain Analysis Using Feature-Tracking CMR in Patients with Old Myocardial Infarction  
Dept. of Radiology, Ehime University Graduate School of Medicine / Ryo Ogawa
- C084 Detection and quantification of cardiac involvement in systemic amyloidosis by cardiovascular magnetic resonance myocardial T1 mapping  
Department of Diagnostic Radiology, Faculty of Life Sciences, Kumamoto  
University / Seitaro Oda
- C085 Evaluation of cine MRI filters in left ventricular myocardial strain analysis using feature tracking  
Dept. of Radiology, Kochi University School of Medicine / Michiko Tadokoro
- C086 Clinical significance of the regional and global myocardial T1 value and extracellular volume fraction in hypertensive cardiomyopathy  
Dept. of Radiology, Nippon Medical School / Masaki Tachi

- C087 Whole heart coronary magnetic resonance angiography: Clinical feasibility of breath-hold chasing technique  
Dept. of Radiology, Takase Clinic / Makoto Amanuma
- C088 Evaluation of the diagnostic performance using single-source dual energy CT for detection of myocardial infarction and the extent of transmuralty  
Division of Radiology, Department of Pathophysiological Therapeutic Science, Faculty of Medicine, Tottori University / Shinichiro Kitao

Poster Presentation Booth1

- 14:00-14:49 15. Gastrointestinal Manabu Minami
- C089 CT findings of the Petersen's hernia  
Dept. of Radiology, Japan Red Cross Kyoto Daiichi Hospital / Osamu Sato
- C090 Missed Lesions on CT Colonography in Colorectal Cancer Screening  
Center for Preventive Medicine, Saiseikai Kumamoto Hospital / Katsuhiko Mitsuzaki
- C091 The Usefulness of the Parameters of Perfusion CT for Treatment Response Evaluation of Locally Advanced Rectal Cancer after Neoadjuvant Chemotherapy  
Dept. of Radiology, Nagoya University Graduate School of Medicine / Satoko Ishigaki
- C092 Recurrences Diagnosed in CT and the Related Characteristics in Post-operative Early Stage Gastric Carcinoma Patients  
Dept. of Diagnostic Radiology, National Cancer Center Hospital East / Kaoru Shimada
- C093 Preliminary experience of ZOOMit T2 SPACE 3D for rectal images in healthy volunteers: A comparative study with T2W  
Dep. Radiology, Kagawa University / Senri Ito
- C094 Cinematic magnetic resonance imaging for assessment of small bowel motility under oral administration of daikenchuto (TJ-100)  
Department of Radiology, Shiga University of Medical Science, Shiga, Japan / Akitoshi Inoue
- C095 Imaging of sporadic mesenteric desmoid tumors: radiographic features and histopathological correlation  
Dept. of Radiology. Tenri hosp / Yurika Nakashima

Poster Presentation Booth1

- 15:00-15:56 16. Radiation Oncology 1: Head and neck and Lung Kazushige Hayakawa
- C096 Postoperative radiotherapy for patients with malignant parotid tumor  
Dept. of Radiation Oncology, Tokyo Women's Medical University / Sachiko Izumi
- C097 Three-dimensional conformal radiotherapy for advanced nasal cavity and paranasal sinus tumor: Clinical results of 14 patients  
Dep. of Radiology, Osaka Rosai Hospital / Masashi Chatani
- C098 Clinical outcomes of radiotherapy for maxillary sinus cancer at University of Tokyo Hospital from 2009 to 2015  
Dept. of Radiology, Tokyo University School of Medicine / Noriyasu Sekiya

- C099 Custom-designed Oral Prosthesis Improve the Accuracy of Daily Treatment Setup for Head and Neck Cancer Radiotherapy  
Dept. of Radiology, Tottori University School of Medicine / Nobue Uchida
- C100 Clinical results of stereotactic body radiotherapy for pulmonary oligometastases: a multicenter study  
Dept. of Radiology, Okayama University Hospital / Kuniaki Katsui
- C101 Stereotactic body radiotherapy for oligo-recurrence in the lung  
Dept. of Radiation Oncology, Toyama Prefectural Central Hosp. / Shinichiro Toyoshima
- C102 The potentiality for improvement of overall survival with local control in SBRT for stage I NSCLC  
Dept. of Radiology University of Yamanashi / Takafumi Komiyama
- C103 Initial experience of fiducial marker placement in the pulmonary artery for respiratory-gated lung stereotactic radiotherapy  
Dept. Of Radiology, Kobe Minimally Invasive Cancer Center / Naoki Kanata

Poster Presentation Booth1

16:10-16:59 17. Radiation Oncology 2: Miscellaneous

Keiko Shibuya

- C104 Proton beam therapy or carbon ion therapy for patients wearing cardiac implantable electronic devices: A retrospective JRS multi-institutional study  
Dept. of Radiation Medicine, Hokkaido University Graduate School of Medicine / Takayuki Hashimoto
- C105 Chemoradiation therapy for pancreatic adenocarcinoma patients: Correlation between semiquantitative contrast-enhanced CT and overall survival  
Dept. of Radiology, Kagoshima University Graduate School of Medical and Dental Sciences / Ryutaro Higashi
- C106 Differences in gross tumor volumes for pancreatic cancer: A comparison of ungated positron emission tomography and contrast-enhanced 4-dimensional computed tomography  
Dept. of Radiation Oncology, Kagawa University Hospital / Shigeo Takahashi
- C107 Quantification of interfraction and intrafraction pancreatic tumor displacement in pancreas cancer patients  
Keio University School of Medicine / Ryo Takeshita
- C108 Comparison between radical surgery and definitive chemoradiation for 460 esophageal squamous cell carcinomas using propensity score matching  
University of Tokyo Hospital / Hideomi Yamashita
- C109 Six Cases of Anal Canal Cancer Treated with Chemo-radiotherapy  
Dept. of Radiology, Gifu University / Hidekazu Tanaka
- C110 Tumor volume change by cone beam CT during chemoradiation for Esophageal cancer  
Dept. of Radiology, The University of Tokyo Hospital / Tomoki Kiritoshi

Poster Presentation Booth2

9:10-9:59 18. Uroradiology and Obstetrics/Gynecology

Hirotaoka Akita

- C111 The Usefulness of Diffusion-Weighted MR images in the Staging of T Categorization in Renal Pelvic Carcinoma: Effect of Reader Experience  
Dept. of Radiology, Shimane University School of Medicine / Minako Maruyama
- C112 Renal corticomedullary differentiation on FLAIR (fluid-attenuated inversion recovery) imaging in relation to the e-GFR (estimated glomerular filtration rate)  
Department of Diagnostic Radiology, Kawasaki Medical School /  
Akira Yamamoto
- C113 CT evaluation of corpus luteum bleeding  
Dept. Radiology, Gunma University School of Medicine / Yuka Kumasaka
- C114 Ovarian seromucinous borderline tumors (SMBTs) with malignant components: magnetic resonance imaging findings  
Dept. of Radiology, Okayama University Medical School / Yuichiro Kanie
- C115 Feasibility of diffusion kurtosis imaging (DKI) for characterization of uterine cancers  
Dept of Radiology, Kagoshima University School of Medicine / Yuichi Kumagae
- C116 Assessment of endometrial and uterine volumes in postmenopausal women and estrogen-producing ovarian tumor patients by using 3D-volume isotropic spin-echo sequence  
Dept. of Imaging Diagnosis, Saitama Medical University, International Medical Center / Eito Kozawa
- C117 Assessment of Myometrial Invasion in Premenopausal Women with G1 Endometrial Carcinoma by MRI; Diagnostic Ability before Fertility-Preserving Hormone Therapy  
Dept. of Radiology, Osaka University Graduate School of Medicine /  
Makoto Sakane

Poster Presentation Booth2

10:10-10:59 19. Breast 1

Fumi Kato

- C118 Radiological and Pathological Findings of Breast Lesions Incidentally Detected on Computed Tomography  
Department of Diagnostic Radiology & Nuclear Medicine, Hamamatsu University School of Medicine / Hatsuko Nasu
- C119 Evaluation of multi-early phases on breast dynamic 3T MRI  
Dept. of Diagnostic and Interventional Radiology, Hokkaido University Hospital / Junichi Nakagawa
- C120 Efficacy for BI-RADS categorization of focal breast masses in breast MRI  
Dept. of Radiology, St.Marianna University School of Medicine / Keishi Fujiwara
- C121 Background parenchymal signal enhancement ratio: Correlation with molecular and prognostic markers of breast cancer  
Dept. of Radiology, Saga University / Ken Yamaguchi
- C122 Breast phyllodes tumor: Comparison MRI findings between benign and borderline/malignant tumors  
Dept. of Radiology, Hokkaido Cancer Center / Naoya Kinota

- C123 Changes of Hemoglobin Concentration and FDG Uptake after Neoadjuvant  
Chemotherapy in Breast Cancer  
Department of Diagnostic Radiology & Nuclear Medicine, Hamamatsu  
University School of Medicine / Nobuko Yoshizawa
- C124 Imaging phenotypes of 18F-FDG PET/CT and MRI in Predicting the  
Clinicopathologic Subtypes of Triple Negative Breast Cancers  
Dept. of Diagnostic Radiology, Tokyo Medical and Dental University /  
Kazunori Kubota

Poster Presentation Booth2

11:10-11:52 20. Breast 2

Sachiko Yuuen

- C125 Full-field digital mammography with soft-copy reading: Does it represent  
high-density in the central part for cancers characterized by density?  
Dept. of Radiology, Nagoya Medical Center / Mikinao Oiwa
- C126 Diagnostic impact of digital breast tomosynthesis for breast cancer occult on  
conventional digital mammography  
Dept. of Radiology, Nippon Medical School / Tomoyuki Kuwako
- C127 Image evaluation of the use of tungsten target digital mammography for the thin  
breast  
Dept. of Quantum Medical Technology, Graduate School of Medical Science,  
Kanazawa University / Hiroko Kawashima
- C128 Changes in Visibility due to Reconstruction Slab Thickness on Digital Breast  
Tomosynthesis  
Dept. of Diagnostic and Interventional Radiology, Ishikawa Prefectural Central  
Hospital / Ayako Katagiri
- C129 Accuracy of tumor size assessment in the preoperative breast cancer:  
comparison of DBT, FFDM, US and MRI  
Department of Radiology Nippon Medical School / Aya Yamane
- C130 Initial clinical experience of digital breast tomosynthesis in our hospital  
Dept. of Diagnostic imaging & Nuclear Medicine, Tokyo Women's Medical  
University / Ryoko Ohashi

Poster Presentation Booth2

13:00-13:42 21. Nuclear Medicine 2: Neuroradiology

Hiroshi Toyama

- C131 Characteristics and Limitations of <sup>99m</sup>Tc-HMPAO SPECT Findings During the  
Vasospasm Risk Period After Subarachnoid Hemorrhage  
Dept. of Nuclear Medicine and Radiology, Inst. of Development, Aging, and  
Cancer, Tohoku University / Tatsushi Mutoh
- C132 Imaging pattern of multiple system atrophy (probable MSA-P) using MRI and  
SPECT with 123I-labeled dopamine transporter ligands (DaT)  
Dept. of radiology, Juntendo University School of Medicine / Atsushi Nakanishi
- C133 Remote effects in patients with brain tumors: A study using FDG-PET  
Dept. of Radiology, Kochi University School of Medicine / Hitomi Iwasa
- C134 Evaluation of clinical single atlas-based attenuation correction for integrated  
PET/MR in human brain  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine

- C135 The usefulness of dopamine transporter volume estimated by C-11 PE-21 PET in diagnosing Parkinsonism-Comparison with C-11Raclopride or I-123 MIBG  
Dept. of Radiology, Miyazaki University School of Medicine / Shigeki Nagamachi
- C136 Quantitative Comparison of DaTSCAN SPECT with Neuromelanin MRI in Normal Volunteers and Patients  
Dept. of Radiology, Kansai Medical University / Yumiko Kono

Poster Presentation Booth2

- 14:00-14:56 22. Nuclear Medicine 3: Miscellaneous Kazuyoshi Suga
- C137 Clinical Significance of I-123 MIBG Spect and MRI Fusion for Endmetoriosis Diagnosis  
Dept. of Radiology, Kansai Medical University / Naoki Kan
- C138 Comparison of diagnostic performance of dbPET and WB-PET/CT in detection of breast cancer according to histological grade/histopathological classification  
Dept. of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University / Kayo Nishimatsu
- C139 Evaluation of the Degree and Distribution of Sodium Fluoride-18 Uptake in a Normal Skeleton, and Relationship with CT-based Hounsfield Unit  
Dept. of Radiology, Yokohama City University / Shintaro Nawata
- C140 Clinical utility of FDG-PET/CT in soft-tissue tumors and tumorlike lesions  
Dep. of Nuclear Medicine, Kansai Medical University, Hirakata Hospital / Sangkil Ha-Kawa
- C141 FDG-PET Findings of Multicentric Castleman's Disease  
Dept. of Radiology, Kizawa Memorial Hospital / Yo Kaneko
- C142 The utility of FDG-PET/CT in evaluating the disease activity, distribution and treatment response of IgG4-related disease  
Dept. of Radiology, Tokushima University Hospital / Maki Otomo
- C143 Visualization and analysis of vasovagal reflex due to blood vessel puncture on F-18 FDG PET/CT images  
Dept. of Radiology, Tokushima University Hospital / Yoichi Otomi
- C144 The observation of decline of serum TSH after injection of rTSH on a patient with chronic renal failure under continuous  
Department of nuclear medicine, Changhua Christian Hospital / Pei Jung Li

Poster Presentation Booth2

- 15:10-16:06 23. Musculoskeletal and Emergency radiology and others Tamotsu Kamishima
- C145 Effect of iterative reconstruction algorithms on measurement of trabecular bone microstructure with clinical MDCT: a cadaver study  
Dept. Radiology, Hiroshima University Graduate School of Medicine / Miyuki Takasu
- C146 Detection of the knee bone-cartilage interface alteration using texture analysis of UTE-T2\*map  
Dept. of Radiology, Saitama Medical University Hospital / Kaiji Inoue
- C147 Analysis of accuracy of a rapid point-of-care Creatinine analyzer  
Dept. of Radiology, Takase Clinic / Makoto Amanuma

- C148 Respiratory variation of the celiac artery: Role of the median arcuate ligament  
Dept. of Radiology, Shiga University of Medical Science / Shinichi Ota
- C149 Characterization of virtual monochromatic spectral image compared to single energy CT image  
Dept. of Radiology, Nippon Medical School / Yoshito Nishikawa
- C150 Assessment of Accuracy of Identification of Materials Using Basis Material Analysis: Phantom Study  
Nippon Medical School / Hajime Kiyuna
- C151 Visualization of pelvic splanchnic nerve using readout-segmented echo-planar diffusion-weighted magnetic resonance neurography at 3T: preliminary experience in healthy male volunteers  
Dept. of Radiology, Kyoto University Graduate School of Medicine / Rikiya Yamashita
- C152 Clinical Feasibility of Software Oriented Bone Suppression Technique for Portable Chest X-R Images  
Dept. of Radiology, Iwate Prefectural Central Hospital / Yasuo Sasaki

Poster Presentation Booth2

16:10-16:45 24. Nuclear Medicine 4: Neuroradiology/head and neck

Ekus Shimosogawa

- C153 Evaluation of the Malignancy of Supratentorial Gliomas with PET/CT and MRI  
Dept. of Radiology, Ehime University Graduate School of Medicine / Yoshiyasu Hiratsuka
- C154 FMISO PET at 4 hr showed better accuracy than 2 hr for grading gliomas  
Dept. of Nuclear Medicine, Hokkaido University / Kentaro Kobayashi
- C155 Is higher-order texture analysis superior to first-order histogram analysis in differential diagnosis of brain tumor on FDG PET?  
Dept. of Nuclear Medicine, Hokkaido University Graduate School of Medicine / Kenji Hirata
- C156 Resectability assessment of head and neck cancer; PET/MR versus PET/CT  
Dept. of Radiology, Nippon Medical School / Tetsuro Sekine
- C157 Diagnostic performance of time-of-flight system to detect neck small lymph node using <sup>18</sup>F-FDG PET/CT  
Dept. of Radiology, Nippon medical school / Hidemasa Saito

April 17 (Sun.)

Poster Presentation Booth1

9:10-9:45 25. Radiation Oncology 3: Prostate cancer

Masao Tago

- C158 External iliac vein stenosis and thrombotic occlusion after radiotherapy to prostate cancer with external iliac lymph node metastases: case report  
Dept. of Radiology, Yamanashi University / Shinichi Aoki
- C159 Change in serum testosterone level after radiotherapy for prostate cancer  
Dept. Radiation Oncology, Niigata University Graduate School of Medical and Dental Sciences / Eisuke Abe
- C160 Comparison of the MRI sequences in ideal fiducial marker-based radiotherapy for prostate cancer  
Dept. of Radiation Oncology, Gifu Municipal Hospital / Osamu Tanaka



- C161 Hypofractionated Intensity Modulated Radiotherapy for Localized High-Risk Prostate Cancer  
Aomori Prefectural Central Hospital / Junichi Yokouchi
- C162 Preliminary clinical outcomes of intensity-modulated radiotherapy for patients with localized prostate cancer  
Dept. of Radiology, University of Ryukyus hosp. / Seiji Hashimoto

Poster Presentation Booth1

- 10:00-10:42 26. Radiation Oncology 4: Miscellaneous Atsuro Terahara
- C163 Examination of the positions of clips and surgical margin in conservative breast therapy with reconstruction  
Dept. of Radiology, Nara Prefecture general Medical Center / Noriko Horikawa
- C164 Analysis of volumetric dose of the lung and the heart for tangential breast irradiation  
Department of Radiation Oncology, Hokkaido University Hospital /  
Rumiko Kinoshita
- C165 Clinical results of total skin irradiation for cutaneous T-cell lymphoma using helical tomotherapy: a report of three cases  
Dept. of Radiology, University of Tokyo Hospital / Kae Okuma
- C166 Does the time interval between surgery and radiotherapy affect the outcomes in postoperative radiotherapy of keloid?  
Dept. of Radiology, Nippon Medical School / Shigehiko Kuribayashi
- C167 An attempt to Respiratory Management Irradiation Using Three-dimensional Body Surface Scanner VOXELAN HEV-600M  
Dept. of Radiation Oncology, SEIREI HAMAMATSU General Hospital /  
Masashi Nozue
- C168 Dependency of Radiosensitivity and Recovery Capacity from Radiation-Induced Damage in Oxygenated Intratumor Quiescent Cells on p53 Status  
Particle Radiat. Biol., Div. of Radiat. Life Sci., Res. Reactor Inst., Kyoto Univ.  
/ Shin-ichiro Masunaga

Poster Presentation Booth1

- 11:00-11:35 27. Radiation Oncology 5: Female pelvis Rumiko Kinoshita
- C169 The Glasgow prognostic score determined during concurrent chemoradiotherapy is an independent predictor of survival for cervical cancer  
Okayama University, Radiology / Norihisa Katayama
- C170 Preliminary results of radiation therapy for forty-one patients of cervical cancer in single institute  
Southern TOHOKU General Hosp. / Kanako Kimura
- C171 Evaluation of ambulatory treatment with nedaplatin-based concurrent chemoradiotherapy for cervical cancer in our hospital  
Dept. of Radiation Oncology, Sakai City Medical Center / Masateru Fujiwara
- C172 One-year Experience of MRI Based Image Guided Adaptive Brachytherapy for Cervical Cancer  
Dept. of Radiat. Oncology, Kobe University Graduate School of Medicine /  
Ryo Nishikawa

- C173 Multi-institutional survey of QOL after treatment for uterine cervical cancer-  
Comparison between radical radiotherapy and surgery -  
Dept. of Radiation Oncology, Fukuyama Medical Center / Yuko Kaneyasu

Poster Presentation Booth1

- 13:00-13:42 28. Radiation Oncology 6: CNS Toshiki Kawamura
- C174 Comparative study of cerebral microvascular injury following whole-brain versus  
reduced-field irradiation in long-term survivors of intracranial germ cell tumors  
Dept. of Radiation Oncology and Diagnostic Radiology, Tohoku University  
Graduate School of Medicine / Li Li
- C175 Intrafractional cranial motion in frame-less image-guided stereotactic radiotherapy  
Dept. Radiology, Kagawa Prefecture Central Hospital / Kotaro Yoshio
- C176 Dosimetry analysis of intensity-modulated radiotherapy for high grade glioma  
Dept. of Radiology, Ryukyu University hosp / Takuro Ariga
- C177 Stereotactic radiotherapy of recurrent metastatic brain tumors~When should we  
change to whole brain irradiation instead of stereotactic radiotherapy~  
Dept. of Radiology, Aichi Medical University / Toshiki Kawamura
- C178 Treatment outcomes of hypofractionated stereotactic radiotherapy for  
meningiomas of skull base in our institute  
Dept. of Radiation Oncology, Saitama Medical Center / Takafumi Yamano
- C179 Stereotactic radiosurgery for brain metastases: neuropathological report of two  
autopsy cases  
Dept. Radiology, Tokyo University / Madoka Sakuramachi

Poster Presentation Booth2

- 9:10-9:52 29. Interventional Radiology 2: Embolization Daisuke Abo
- C180 Accumulation of Lipiodol Emulsion(LE) of Balloon-occluded Trans-catheter  
Arterial Chemoembolization (B-TACE) for Hepatocellular Carcinoma  
Department of Radiology, Shimane University Faculty of Medicine /  
Mitsunari Maruyama
- C181 A clinical trial of radiation dose reduction during transarterial chemoembolization  
with drug-eluting bead for hepatocellular carcinoma  
Dept. of Radiology, Kyushu University Beppu hospital / Masakazu Hirakawa
- C182 Extrahepatic arteries originating from hepatic arteries: analysis using CT during  
hepatic arteriography and their visualization on digital subtraction angiography  
Dept. of Radiology, Fukui Prefectural Hospital / Kumi Ozaki
- C183 Transcatheter arterial chemoembolization using microspheres for large  
hepatocellular carcinoma  
Dept. of Radiology, Saiseikai Shiga Hospital / Yoko Masuda
- C184 Transcatheter embolization for bleeding visceral artery pseudoaneurysm in the  
patients with pancreatitis or pancreatic surgery  
Department of Radiology, Kinki University, Faculty of Medicine / Isao Numoto
- C185 Selective Prostatic Artery Embolization for Refractory Hematuria of Prostatic Origin  
Dept. of Radiology, Tottori University / Masayuki Endo

Poster Presentation Booth2

10:00-10:56 30. Interventional Radiology 3: Miscellaneous

Yusuke Sakuhara

- C186 CT Fluoroscopy-Guided Percutaneous Drainage of Abdominal and Pelvic Abscess: Comparison of One-step and Seldinger techniques  
1. Diagnostic Radiology, Graduate School of Biomedical Sciences, Hiroshima University / Kenji Kajiwara
- C187 Computed tomography-guided core needle biopsy of ground-glass nodules 20mm or smaller: Frequency and content of non-malignant lesions  
Dept. of Radiology, Miyazaki University School of Medicine / Mei Shimomura
- C188 Needle Biopsy of Small Renal Tumors in Patients Referred for Percutaneous Cryoablation  
Dept. of Radiology, Okayama University Medical School / Toshihiro Iguchi
- C189 Percutaneous CT-guided radiofrequency ablation for renal cell carcinoma in von Hippel-Lindau disease  
Dept. of Radiology, Okayama University Medical School / Hideo Gobara
- C190 17G cryoneedles percutaneous cryoablation in patients with lung tumors: A preliminary experience  
Department of Diagnostic Radiology, Interventional Radiology and Nuclear Medicine Gunma University Hospital / Hiroyuki Tokue
- C191 Efficacy and safety of image-guided cryoablation for small renal tumors: Initial experience  
Dept. of Diagnostic and Interventional Radiology, Osaka University Graduate School of Medicine / Hiroki Higashihara
- C192 Rapid tumor progression of hepatocellular carcinoma after percutaneous radiofrequency ablation  
Dept. of Radiology, Obihiro-Kosei General Hospital / Noriyuki Miyamoto
- C193 Gastrojejunostomy tubes placed via Surgically-created Gastrostomy in Children: Safety and Impact on Growth  
SUNY Upstate Medical University School of Medicine / Katsuhiro Kobayashi

Poster Presentation Booth2

11:00-11:28 31. Interventional Radiology 4: Experiments and others

Manabu Hashimoto

- C194 An attempt to shorten loading time of epirubicin into DC Beads  
Dept. of Radiology, Shiga University of Medical Science / Akinaga Sonoda
- C195 Evaluation of the first coil in micro-balloon-assisted coil embolization (m-BACE) of normal artery compared with conventional coil embolization: experimental study  
Dept. of Radiology, Faculty of Medicine, Tottori University / Yasufumi Ohuchi
- C196 Development of Robot (Second-generation) for CT-guided IVR: Free Physician from Radiation  
Dept. of Radiology, Okayama University Medical School / Takao Hiraki
- C197 The precision and accuracy of 3D printed preoperative simulation models of a splenic artery aneurysm  
Department of Radiology, Graduate School of Medicine, University of Tokyo / Hidemasa Takao

## Product Exhibition Programs

Marine Lobby

Core Time April 16 (Sat.) 11:00-11:45, 14:00-15:00 \_\_\_\_\_

K001 Real 3D Interactive Anatomical Model for Experiencing Roux-en-Y  
Reconstruction Procedure and Consequent Petersen's Hernia

Dept. Radiology, Saiseikai Maebashi Hospital / Jun Kubota

K002 Building an integrated CAD development environment in clinical settings (the  
9th report): new web-based image database system for CAD development

Dept. of CDRPM, The University of Tokyo Hospital / Yukihiko Nomura

K003 3D rapid prototyping of mesentery and mesocolon

Dept of Radiology, Mita Hp, International University of Health and Welfare /  
Naoki Yoshioka

# The 72nd Annual Scientific Congress of the Japanese Society of Radiological Technology

JSRT-JSMP Plenary Lecture

JSRT-JSMP Joint Session 1

April 15 (Fri.) 11 : 00~11 : 50 (503)

Moderator: Kumamoto University Fujio Araki

〔New Concepts in CT Dosimetry〕

University of California Davis John M. Boone

JSRT-JSMP Joint Session 2

April 15 (Fri.) 14 : 40~15 : 30 (503)

Moderator: Teikyo University Shinji Kawamura

〔Integrated MRI-Linacs: A New Weapon in the Battle against Cancer〕

University of Sydney Paul Keall

Expert Lecture

Expert Lecture 1

April 15 (Fri.) 14 : 50~15 : 50 (502)

Moderator: Gunma Prefectural College of Health Sciences Akio Ogura

〔Functional MRI for Intracranial-condition Monitoring〕

Kanazawa University Tosiaki Miyati

Expert Lecture 2

April 16 (Sat.) 16 : 00~17 : 00 (501)

Moderator: Tenri Hospital Shigeo Nishiki

〔Safety Control in MRI: Expectations for the Person in Charge in MRI〕

Nippon Medical School Hospital Toshio Tsuchihashi

Segi Award Winner's Lecture (Best Paper in 2015)

April 16 (Sat.) 16 : 20~16 : 50 (503)

Moderator: Commendation Committee Chair Hiroko Nishide

JSRT Vol.70, No.11

〔Dose Reconstruction Using Respiratory Signals and Machine Parameters during  
Treatment in Stereotactic Body Radiotherapy〕

Department of Radiology, University of Tokyo Hospital Toshikazu Imae

## RPT Doi Awards Ceremony and Winner's Lectures

April 17 (Sun.) 12 : 00~12 : 50 (414+415)

General Moderator: RPT Editor-in-Chief Kunio Doi

Moderator: Teikyo University Shinji Kawamura

Moderator: RPT Deputy Editor Shigehiko Katsuragawa

### 1) Diagnostic Imaging RPT Vol.8, No.2

「Aliased Noise in X-ray CT Images and Band-limiting Processing as a Preventive Measure」

Tohoku University Hospital Kazuhiro Sato

Moderator: RPT Deputy Editor Tomoyuki Hasegawa

### 2) MR, Nuclear Medicine and Informatics RPT Vol.8, No.1

「Attenuation Correction of  $^{111}\text{In}$  Planar Images by Use of Dual Energy, Fundamental Study by Monte Carlo Simulation」

Fujita Health University Seiji Shirakawa

Moderator: RPT Deputy Editor Masahiro Endo

### 3) Radiation Therapy Physics RPT Vol.8, No.1

「Applicability of Self-activation of an NaI Scintillator for Measurement of Photo-neutrons around a High-energy X-ray Radiotherapy Machine」

Kindai University Atomic Energy Research Institute Genichiro Wakabayashi

## Symposia

### Symposium 1

April 16 (Sat.) 13 : 00~15 : 00 (503)

Moderator: Nara Medical University Hospital Mitsuhiro Nakamae

#### Technical Problems of Wireless Type Portable Flat Panel Detector

#### 1. The Change of Wireless Type Portable Flat Panel Detector and Consideration of the Operational Aspect

Central radiation department, Osaka Medical College Hospital

Yutaka Nishibata

#### 2. Basic Knowledge and Tips on How to Construct and Operate Wireless LAN

Allied Telesis K.K. Naoyuki Oda

#### 3. Useful Method of Mobile FPD

Department of Radiology, Kitasato University Medical Center

Satoshi Yanagita

#### 4. System Construction in General Radiography Department: Usefulness and Problems by the Long-length Imaging

Department of Radiology, Osaka City University Hospital Sadahiro Kudo

#### 5. About the Technology Used for Flat Panel Detector and New Image Processing

Osaka General Medical Center Kazuyuki Kashiya

## Symposium 2

April 15 (Fri.) 15 : 50~17 : 50 (503)

Moderator: Research Institute for Brain & Blood Vessels-Akita  
Mamoru Kato

### Development of the Diagnostic Reference Levels in the IVR

1. Development Review Process of DRLs 2015 for IVRs  
Department of Radiology, Research Institute for Brain & Blood Vessels-Akita  
Mamoru Kato
2. Problem for the Practical Use of DRLs 2015  
Department of Radiology, Yamanashi University Hospital Hajime Sakamoto
3. About the Difference of the Patient Dose According to Procedure  
Department of Radiology, NTT Medical Center Tokyo Atsuko Tsukamoto
4. Approach to Develop the New Diagnostic Reference Level Based on Radiation Dose Measurements in Cerebral Angiography  
Department of Radiology, Toranomon Hospital Satoru Kawauchi
5. About the Correlation of Actual Survey Data of the Patient Entrance Skin Dose and Air Kahma of a Patient Exposure Reference Point Displayed by a Device in the PCI  
Department of Clinical Radiology, Hospital of Hyogo College of Medicine  
Kazuma Matsumoto
6. What Is the Dosing Information That Doctors Need for IVR?  
Department of Radiological Health Science, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan  
Takashi Moritake

## Symposium 3

April 15 (Fri.) 8 : 50~10 : 50 (503)

Moderator: Gunma Prefectural College of Health Sciences Akio Ogura  
Department of Radiology, NTT Medical Center Tokyo  
Atsuko Tsukamoto

### Clinical Benefit and Problem of the Diagnostic Reference Levels (DRLs)

1. Significance and Application of DRLs in Radiological Protection for Medical Exposure  
Medical Exposure Research Project, National Institute of Radiological Sciences  
Keiichi Akahane
2. Challenges in Dose Evaluation Method  
Tokyo Metropolitan University, Faculty of Health Sciences,  
Department of Radiological Sciences Yoh Katoh
3. DRLs Criteria in Consideration of Image Information Amount  
Department of Central Radiology, Nagoya City University Hospital  
Hiroshi Kunitomo
4. Professionalism in Radiology : Implementation of DRL in Routine Clinical Practice  
Department of Radiology, NTT Medical Center Tokyo Masaaki Akahane

## Invited Lecture

### Invited Lecture 1

April 16 (Sat.) 15 : 10~16 : 10 (503)

Moderator: Kanazawa University Shigeru Sanada

「Current Situation and Future Perspective of Education for Radiographers and Their Academic Research in Europe」

European Federation of Radiographer Societies(EFRS) Håkon H. Hjemly

### Invited Lecture 2

April 16 (Sat.) 10 : 50~11 : 50 (503)

Moderator: National cancer center hospital east Kaoru Ikeno

「The Role of the Medical Physicist in the UK and Quality Assurance and Control Guidance for Digital Mammography in the National Breast Screening Programme」

Imperial College Healthcare Eugenia Kulama

### Invited Lecture 3

April 16 (Sat.) 13 : 00~14 : 00 (502)

Moderator: Kumamoto University Junji Shiraishi

「Computer-aided Diagnosis in Chest Radiography」

Radboud University Nijmegen Medical Centre Bram Van Ginneken

## JSMP-JSRT Joint Session

April 16 (Sat.) 14 : 30~17 : 00 (F201+202)

Moderator: Tokyo University Akihiro Haga

Tohoku University Toshiyuki Kadoya

### Current Status of Real-time Tumor Tracking Therapy

Key words: IGRT with 4D imaging, real time tracking, Adaptive

1. Real-time Radiotherapy: Motion Management from Bench to Bedside  
University of Sydney Paul Keall
2. Respiratory Motion Management in Locally Advanced Pancreatic Cancer  
Kyoto University Mitsuhiro Nakamura
3. Real-time Tumor-tracking Radiotherapy (RTRT) System and Development of Database System for Inter-fractional Organ Motion Estimated by RTRT  
Hokkaido University Ryusuke Suzuki
4. Carbon-ion Pencil Beam Scanning Treatment with Gated Real-time Markerless Tumor Tracking  
National Institute of Radiological Sciences Shinichirou Mori
5. Discussion



## Educational Lecture

### Educational Lecture 1

April 15 (Fri.) 8 : 50~9 : 50 (501)

Moderator: Kyushu University Kenta Miwa

〔From PMTs to SiPMs? What a Future PET System Will Be〕

Molecular Imaging Center, National Institute of Radiological Sciences Taiga Yamaya

### Educational Lecture 2

April 16 (Sat.) 8 : 50~9 : 50 (501)

Moderator: Nara Medical University Hospital Mitsuhiro Nakamae

〔An Overview of Interventional Radiology for Abdominal Organs〕

Department of Diagnostic Radiology, Keio University Seishi Nakatsuka

### Educational Lecture 3

April 16 (Sat.) 13 : 00~14 : 00 (501)

Moderator: Saitama City Hospital Isao Fujita

〔MRI Claustrophobia: Assessment and Management〕

Department of Psychiatry, Saitama City Hospital Jun'ichi Semba

### Educational Lecture 4

April 16 (Sat.) 14 : 00~15 : 00 (502)

Moderator: Nagoya City University Hospital Hiroshi Kunitomo

〔Let's Know How to Handle ROC/FROC Analysis〕

Faculty of Life Sciences, Kumamoto University Junji Shiraishi

### Educational Lecture 5

April 16 (Sat.) 8 : 50~9 : 50 (414+415)

Moderator: Tokyo Metropolitan University Yoh Katoh

〔Necessity for Dose Measurement in Diagnostic Energy Domain and Dosimeter Calibration in Diagnostic Domain Dose Standard Center〕

Brain and Mind Research Center, Nagoya University Shuji Koyama

### Educational Lecture 6

April 16 (Sat.) 13 : 00~15 : 00 (414+415)

Moderator: Kanazawa University Kosuke Matsubara

Worldwide Trend in Occupational Radiation Protection in Medicine

University of Malaya Kwan-Hoong Ng

The Current Status of Eye Lens Dose Measurement in Interventional Cardiology Personnel in Thailand

Chulalongkorn University Anchali Krisanachinda

### Educational Lecture 7

April 17 (Sun.) 8 : 50~9 : 50 (501)

Moderator: Tohoku University Hospital Hiroshi Sakamoto

「Past Images Are Garbage? or Treasure? ~ Trial of Practical Reuse of the Past  
Images for Education and Research ~」

Biomedical Imaging Research Center, University of Fukui Masato Tanaka

### Educational Lecture 8

April 17 (Sun.) 8 : 50~9 : 50 (503)

Moderator: Eastern Chiba Medical Center Noriyuki Yanagawa

「Expectation of CT Acquisition Standard Statement」

Department of Radiology, Osaka University Graduate School of Medicine

Yoshiyuki Watanabe

### Educational Lecture 9

April 17 (Sun.) 8 : 50~9 : 50 (National Convention Hall)

Moderator: Nagoya University Hiroshi Oguchi

「Uncertainty in Measurement of Absorbed Dose to Water」

Chiba Cancer Center, Division of Radiation Oncology Toru Kawachi

April 14 (Thu.) 14 : 00~15 : 00 (503)

Moderator: Gunma Prefectural College of Health Sciences Akio Ogura

「Diagnosis of Neuroradiology and Head and Neck Radiology」

Department of Diagnostic Imaging and Nuclear Medicine, Graduate School of  
Medicine, Kyoto University Akira Yamamoto

Moderator: Tenri Hospital Shigeo Nishiki

「Diagnosis for Gynecologic Imaging」

Department of Diagnostic Imaging and Nuclear Medicine,  
Graduate School of Medicine, Kyoto University Aki Kido

Moderator: Osaka General Medical Center Masao Funahashi

「Analysis of the Diagnostic Process on Mammography Interpretation」

Department of Radiology, Higashi-Nagoya Hospital Tokiko Endo

### Scientific Sections

#### 79th. Imaging Section

April 16 (Sat.) 15 : 00~17 : 00 (502)

Moderator: Gifu University of Medical Science Norimitsu Shinohara  
Tokushima Bunri University Rie Ishii

「The Clinical Field Is a Mine of Research Topics!」

1. What Makes a Difference of Clinical Image Quality between Two Equipment A and B?  
Diagnostic Imaging Center, Kurume University Hospital Reiji Katayama
2. How to Determine the Exposure Conditions of the Pediatric Radiography  
Department of Radiology, Osaka City University Hospital Kenji Kishimoto

3. Patient Thickness Required for the Application of X-ray Grid  
Nagoya City University Hospital Ryo Higashide
4. Let's Pay Attention to the Selection of Displays in Clinical Situation!  
School of Health Sciences, College of Medical,  
Pharmaceutical and Health Sciences, Kanazawa University Rie Tanaka

#### 72nd. Nuclear Medicine Section

April 15 (Fri.) 9 : 50~11 : 50 (501)

Moderator: Ibaraki Prefectural University of Health Sciences  
Hiroyuki Tsushima

##### Basic Lecture

[What Is Necessary for Nuclear Medicine to Be Used as a Biomarker?]

Division of Medical Quantum Science, Department of Health Sciences,  
Graduate School of Medical Sciences, Kyushu University Masayuki Sasaki

Moderator: Chiba University Hospital Takashi Iimori  
Nihon Medi-Physics Noriyasu Yamaki

##### Mini-Symposium Series III

[Necessary Knowledge and Techniques for Nuclear Medicine Examinations]

1. Oncology PET

Central CI Clinic Shinji Ochi

2. Neurotransmission Function

Department of Radiological Technology, Kurashiki Central Hospital  
Norikazu Matsutomo

#### 72nd. Radiotherapy Section

April 17 (Sun.) 9 : 50~11 : 50 (National Convention Hall)

Moderator: National cancer center hospital east Takaki Ariji  
Kumamoto University Hospital Yuji Nakaguchi

[IMRT Optimize Algorithm and Method of the Practical Planning]

1. IMRT Optimize Algorithm and Method of the Practical Planning

Department of radiation Oncology national cancer center hospital east  
Takaki Ariji

2. The Present Situation of IMRT in Kyushu University Hospital

Department of Radiology, Kyushu University Hospital Jun-ichi Fukunaga

3. Current Situation of IMRT in National Cancer Center Hospital East

Radiation Therapy, National Cancer Center Hospital East Fumiya Tanaka

4. The Present Situation of IMRT in Yamagata University Hospital

Cancer Center Yamagata University Faculty of Medicine Koji Suzuki

5. The Present Situation of IMRT in Aichi Cancer Center Central Hospital

Department of Radiation Oncology, Aichi Cancer Center Central Hospital  
Hidetoshi Shimizu

66th. Radiation Imaging Section

April 16 (Sat.) 9 : 50~11 : 50 (501)

Moderator: Teikyo University Takahide Okamoto  
Kawasaki Municipal Ida Hospital Hiroyuki Miyake

「Pursuing Better Imaging Techniques in Radiology: No.128, Safe Abdominal  
Interventional Radiology」

1. The Change of the Angio Machine  
Department of Clinical Radiology, Hospital of Hyogo College of Medicine  
Kazuma Matsumoto
2. A Practical Support in the Abdominal Interventional Radiology  
Department of Radiology, Osaka City University Hospital Yoshinori Takao
3. Radiation Management for Abdominal IVR  
Department of Radiology, Yamanashi University Hospital Hajime Sakamoto
4. Team Medical Care for Patients in Interventional Radiology  
Department of Nursing, National Cancer Center Nozomi Asai

April 17 (Sun.) 9 : 50~11 : 50 (503)

Moderator: Fujita Health University Hospital Yoshihiro Ida  
National cancer center hospital east Yoshihisa Muramatsu

「Pursuing Better Imaging Techniques in Radiology: No.129, Standardization of the  
X-ray CT imaging ~ GALACTIC (second edition) ~」

1. Guidelines for the Techniques of Chest CT  
Department of Radiological Technology, Tochigi Cancer Center  
Yoshihiro Hagiwara
2. Guidelines for the Techniques of Cardiovascular CT  
Department of Radiology, Japan Community Health care Organization  
Hokkaido Hospital Takayoshi Yamaguchi
3. Guidelines for the Techniques of Orthopedics CT  
Department of Radiology, Toyama Rousai Hospital Toshiyuki Nomizu
4. Standardization of CT Scan Protocols with CT-AEC  
Department of Radiology, National Cancer Center Hospital East  
Keiichi Nomura
5. Standardization of Scan Protocols with CT Contrast Technology  
Department of Radiology, Saitama Red Cross Hospital Kazuaki Terasawa

April 16 (Sat.) 14 : 00~16 : 00 (501)

Moderator: Saitama City Hospital Isao Fujita  
Gunma Prefectural College of Health Sciences Norio Hayashi

「Pursuing Better Imaging Techniques in Radiology: No.130, MRI Safety Update:  
Management of MRI Conditional Implants in High Field Magnetic Field」

1. Safety Control in MRI: Expectations for the Person in Charge in MRI  
Osaka University Hospital Tsukasa Doi
2. Physical Property of MR Imaging against Implantable Medical Device  
BioView, Inc. Akihiko Kobayashi

3. The MRI Compatibility of Cardiac Device Systems Approved for Safe Use, and Care of Imaging

Department of Radiology, Takasaki General Medical Center  
Yukifumi Kobayashi

4. Management of MRI Conditional Implant: Focusing on Cochlear Implant

Department of Radiology, Fukushima Medical University Hospital  
Shinya Seino

47th. Measurement Section

April 16 (Sat.) 9 : 50~11 : 50 (414+415)

Moderator: Kanazawa University Hospital Kimiya Noto  
Hyogo College Of Medicine Takahiro Minamoto

[Let's Organize for the Dosimeter to Measure Yourself]

1. Ionization Chamber

Department of Radiological Sciences,  
Ibaraki Prefectural University of Health Sciences Hitoshi Sato

2. About Semiconductor Dosimeter

Department of Radiology, The Jikei University Kashiwa Hospital  
Tomokazu Shohji

3. Survey Meter

Department of Radiological Technology, Kyoto College of Medical Science  
Hitoshi Horii

4. The Manufacturing of the Simple -type Dosimeter and the Dynamic-characteristics Aiming at Popularization to the Clinical Scene

Tokyo Metropolitan University Izumi Ogura

42nd. Radiation Protection Section

April 16 (Sat.) 15 : 00~17 : 00 (414+415)

Moderator: Kyushu University Toshioh Fujibuchi

[Consider about the Non-uniform Exposure for Medical Staffs]

1. Definition and Consensus of 1-cm Dose Equivalent

Cent-Medical Associates LLC Yoshiaki Hirofujii

2. The Non-uniform Exposure of Medical Staffs in General Radiography

Department of Radiology, Hamamatsu University Hospital Yasutaka Takei

3. The Non-uniform Exposure in Interventional Radiology

Fujita Health University Sumi Yokoyama

4. The Non-uniform Exposure of Medical Staffs in X-ray Computed Tomography Examination

Department of Radiology, Kyushu Medical Center Ryuichi Miyajima

27th. Medical Information Section

April 17 (Sun.) 9 : 50~11 : 50 (501)

Moderator: Kumamoto University Hospital Shuichi Tochihara  
Tokyo Women's Medical University Hospital Miyoko Fukuoka

「Challenge a System Replace,

~ Long-term Management for Medical Image Data ~」

1. Appropriate Selection of DICOM Objects

Japan Medical Imaging and Radiological Systems Industries Association  
Makoto Suzuki

2. Practical Use and Future Perspective on a New Concept Multipurpose Viewer

Department of Radiological, Technology Yamaguchi University Hospital  
Hideyuki Iwanaga

3. About Use of the House and outside Preservation Interlocking Movement Model  
PACS

Saka General Hospital Yuki Tanaka

4. The Current State of the outside Safekeeping Introduction in a University Hospital

Section of Radiology, Department of Medical Technology Support,  
Kobe University Hospital Tohru Murakami

Basic Course

Basic Course 1 (Imaging)

April 16 (Sat.) 12 : 00~12 : 45 (502)

Moderator: Tokushima Bunri University Rie Ishii

「Usefulness of Computer Simulations to Analyze Diagnostic X-ray Images」

Department of Computer and Electrical Engineering,  
Kagawa National Institute of Tecnology Michitaka Honda

Basic Course 2 (Radiation Protection)

April 16 (Sat.) 12 : 00~12 : 45 (503)

Moderator: Hamamatsu University Hospital Yasutaka Takei

「Reconsider of the Radiation Exposure in CT Scans」

Department of Clinical Practice and Support, Hiroshima university hospital  
Eiji Nishimaru

Basic Course 3 (Measurement)

April 16 (Sat.) 12 : 00~12 : 45 (414+415)

Moderator: Hyogo College Of Medicine Takahiro Minamoto

「“Uncertainty” Beginner」

Tokyo Metropolitan University, Faculty of Health Sciences,  
Department of Radiological Sciences Yoh Katoh

Basic Course 4 (Medical Information)

April 17 (Sun.) 12 : 00~12 : 45 (501)

Moderator: Toyohashi Municipal Hospital Masatoshi Harase

「The First Step for BCP about a PACS and Radiology Information System」

South Miyagi Medical Center Takaaki Banno

Basic Course 5 (Radiotherapy)

April 17 (Sun.) 12 : 10~12 : 55 (F201+202)

Moderator: Hiroshima University Hospital Takeo Nakajima

「Basic Lecture of LINAC to Understanding High Energy X-ray」

Department of Radiotherapy Quality Management, Kansai Rosai Hospital

Kazutoshi Yabuta

Advanced Course

Advanced Course 1 (Nuclear Medicine)

April 15 (Fri.) 8 : 00~8 : 45 (501)

Moderator: Hitachi Medical Corporation Shoji Kondo

「Basic Lecture of an Imaging Device in Nuclear Medicine」

Department of Nuclear Medicine System, Toshiba Medical Systems

Nobutoku Motomura

Advanced Course 2 (Nuclear Medicine)

April 15 (Fri.) 12 : 00~12 : 45 (501)

Moderator: Kindai University Hospital Kouhei Hanaoka

「PET Imaging for Brain」

Department of Radiology, Kindai University Faculty of Medicine

Kazunari Ishii

Advanced Course 3 (TV, IVR)

April 15 (Fri.) 12 : 00~12 : 45 (503)

Moderator: Kawasaki Municipal Ida Hospital Hiroyuki Miyake

「Understanding of Preventive Medicine and Applications – Challenge to the Effectiveness Evaluation Improvement of Gastric Cancer Screening –」

Radiation Technology Department, Kanagawa Health Service Association

Shinichi Mimoto

Advanced Course 4 (Radiation Protection)

April 15 (Fri.) 12 : 00~12 : 45 (F201+202)

Moderator: Tsukuba University Tomonori Isobe

「The Radiological Protection in a Nuclear Power Plant Accident」

Department of Radiation Health Management, Fukushima Medical University

Arifumi Hasegawa

Advanced Course 5 (MR)

April 16 (Sat.) 12 : 00~12 : 45 (501)

Moderator: Gunma Prefectural College of Health Sciences  
Norio Hayashi

〔Principle of MRI Imaging〕

Department of Radiology, Gunma University Hospital Kouichi Ujita

Advanced Course 6 (Imaging)

April 16 (Sat.) 8 : 00~8 : 45 (502)

Moderator: Nagoya City University Hospital Hiroshi Kunitomo

〔Some Useful Tips for the Evaluation of Clinical Image Quality in Soft-copy Reading Environment〕

Diagnostic Imaging Center, Kurume University Hospital Reiji Katayama

Advanced Course 7 (Measurement)

April 16 (Sat.) 8 : 00~8 : 45 (414+415)

Moderator: Tokyo Metropolitan University Yoh Katoh

〔Measurement of Entrance Skin Dose in the Diagnosis Field〕

Department of Radiology, Yamanashi University Hospital Hajime Sakamoto

Advanced Course 8 (Medical Information)

April 17 (Sun.) 8 : 00~8 : 45 (501)

Moderator: Hiroshima University Hospital Masamichi Aita

〔Ensure Cyber Security in the Medical Field〕

Shimadzu corporation Shinichiro Nishida

Advanced Course 9 (CT)

April 17 (Sun.) 8 : 00~8 : 45 (503)

Moderator: Eastern Chiba Medhical Center Noriyuki Yanagawa

〔Let's Study of CT to Understand the Iterative Reconstruction Algorithms!〕

Department of Radiology,

National Hospital Organization Saitama National Hospital Toshihiro Ishihara

Advanced Course 10 (Radiotherapy)

April 17 (Sun.) 8 : 00~8 : 45 (National Convention Hall)

Moderator: Miyakojima iGRT Clinic Daisaku Tatsumi

〔Use of Deformable Image Registration for Radiotherapy Applications〕

Department of Radiation Oncology, Tohoku University School of Medicine

Noriyuki Kadoya



Educational Basic Course

Educational Basic Course 1

April 16 (Sat.) 12 : 00~12 : 45 (F203+204)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

「Three Arcanums to Publish Your First Scientific Paper」

Department of Radiology, Shiga Medical Center for Children Atsushi Fukuda

Educational Basic Course 2

April 17 (Sun.) 12 : 00~12 : 45 (503)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

「Design Your Study, Carefully」

Department of Radiological Technology, School of Health Sciences,  
Gifu University of Medical Science Hiroko Nishide

Applied Technology Seminar Series

Applied Technology Seminar 1

April 15 (Fri.) 8 : 50~9 : 35 (502)

To Become an International Society

Global Committee Chair Tosiaki Miyati

JSRT Global Strategy

Global Committee Member Shigeaki Morioka

Applied Technology Seminar 2

April 15 (Fri.) 8 : 00~8 : 45 (502), April 17 (Sun.) 12 : 00~12 : 45 (502)

「Basic Technique and Practical Tip for Making Well-organized English Slides」

Global Committee Member Rie Tanaka

Applied Technology Seminar 3

April 15 (Fri.) 12 : 00~12 : 45 (502), April 16 (Sat.) 8 : 00~8 : 45 (F203+204)

Moderator: Tokyo Metropolitan University Yuka Matuura

「English Presentation Boot Camp」

Division of Nuclear Medicine, National Center for Global Health and Medicine  
Ryogo Minamimoto

Applied Technology Seminar 4

April 16 (Sat.) 12 : 00~12 : 45 (F201+202),

April 17 (Sun.) 8 : 00~8 : 45 (F201+202)

「Abstracting for English Presentation」

Global Committee Member Masato Kobayashi

#### Applied Technology Seminar 5

April 15 (Fri.) 9 : 30~10 : 15 (Harbor LoungeB)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

[Fundamentals of Epidemiology and Biostatistics; (1) Epidemiological Study Design]

Department of Public Health, Dokkyo Medical University School of Medicine

Gen Kobashi

#### Applied Technology Seminar 6

April 15 (Fri.) 10 : 50~11 : 35 (Harbor LoungeB)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

[Fundamentals of Epidemiology and Biostatistics; (2) Population and Sample]

Department of Public Health, Dokkyo Medical University School of Medicine

Gen Kobashi

#### Applied Technology Seminar 7

April 15 (Fri.) 12 : 00~12 : 45 (F203+204)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

[Fundamentals of Epidemiology and Biostatistics; (3) Significance Tests]

Department of Public Health, Dokkyo Medical University School of Medicine

Gen Kobashi

#### Applied Technology Seminar 8

April 16 (Sat.) 8 : 00~8 : 45 (501)

Moderator: National Institute of Radiological Sciences Yasuo Okuda

[Fundamentals of Epidemiology and Biostatistics; (4) Statistical Error and Sample Size]

Department of Public Health, Dokkyo Medical University School of Medicine

Gen Kobashi

#### Educational Courses

Diagnosis and Treatment of Lung Cancer -How Will the Specialists Think About?-

April 16 (Sat.) 13 : 00~17 : 00 (F203+204)

Moderator: National Institute of Radiological Sciences

Naoyoshi Yamamoto

National Institute of Radiological Sciences Yasuo Okuda

Tochigi Cancer Center Yoshihiro Hagiwara

1. Usefulness of Diagnostic Imaging Using CT and MRI in Lung Cancer Medical Management

National Institute of Radiological Science, Center hospital Research Center for

Charged Particle Therapy Tokuhiko Omatu

2. The Science of Chest CT Technology

Department of Radiological Technology, Tochigi Cancer Center

Yoshihiro Hagiwara

3. PET Diagnosis for Lung Cancer  
Advanced Imaging Center, Tokyo Bay Advanced Imaging & Radiation  
Oncology Clinic MAKUHARI Kyousan Yoshikawa
4. Up-to-date Bronchoscopic Diagnosis and Treatment of Lung Cancer  
Lung Cancer Treatment Center of Chiba-University in JRC Narita Hospital  
Hidehisa Hoshino
5. Lung Cancer Pathology  
Department of Diagnostic Pathology, Chiba University Yoko Yonemori
6. Recent Treatment Strategies for Lung Cancer  
Department of Respiriology, Graduate School of Medicine, Chiba University  
Yuji Tada
7. Surgical Treatment of Non-small Cell Lung Cancer, What Surgeons Look for in  
the Radiographic Images  
Department of Thoracic and Cardiovascular Surgery,  
Tokyo Metropolitan Bokutoh Hospital Aki Kobayashi
8. Radiotherapy for Locally Advanced Lung Cancer  
Department of Radiation Oncology, Kanagawa Cancer Center Tetsuo Nonaka
9. Stereotactic Radiation Therapy for Lung Cancer  
Department of Radiology, University of Yamanashi Hospital Naoki Sano
10. Carbon Ion Radiotherapy for Lung Cancer  
Department of Radiology, The University of Tokyo Hospital Wataru Takahashi

Valuable Basic Technologies for Diagnosis

Valuable Basic Technologies for Diagnosis 1 (Tomosynthesis)

April 15 (Fri.) 8 : 00~8 : 50 (503)

Moderator: Tokyo Womens' s Medhical University Medical Center East  
Toshiyuki Yuhara

[Tomosynthesis as a Useful Diagnostic Tool]

Tokyo Women's Medical University Hospital  
Department of Radiological Services Yasuyuki Morita

Valuable Basic Technologies for Diagnosis 2 (MRI)

April 15 (Fri.) 8 : 00~8 : 50 (F201+202)

Moderator: Osaka Medical College Hospital Kenichiro Yamamura

[Basic Technique of MRI: Abdomen and Pelvis]

Department of Radiology, Osaka Red Cross Hospital Yasuo Takatsu

Valuable Basic Technologies for Diagnosis 3 (CT)

April 15 (Fri.) 8 : 00~8 : 50 (F203+204)

Moderator: Juntendo Unievrstity Hospital Yosuke Kogure

[Basic Technology to Help Diagnose -Computed Tomography-]

Department of Radiology, Saiseikai Kumamoto Hospital Takashi Sakamoto

Valuable Basic Technologies for Diagnosis 4 (Mammography)

April 16 (Sat.) 8 : 00~8 : 50 (503)

Moderator: Keio University Hospital Michiko Nemoto

〔Basic Technology of Mammography〕

Saitama Red Cross Hospital Satoko Okada

Valuable Basic Technologies for Diagnosis 5 (Nuclear Medicine)

April 17 (Sun.) 8 : 00~8 : 50 (502)

Moderator: Ibaraki Prefectural University of Health Sciences

Hiroyuki Tsushima

〔Learn the Skills and Knowledge of Nuclear Medicine〕

Department of Radiology, Chiba University Hospital Takashi Iimori

Scientific Committee Session

JSRT-JSMP Seminar

April 15 (Fri.) 9 : 00~10 : 30 (414+415)

Moderator: Kumamoto University Junji Shiraishi

Osaka University Masahiko Koizumi

〔How to get Grants-in-Aid, -Research field “Medical Physics and Radiological Technology”〕

1. Outline of Grants-in-aid for Scientific Research <KAKENHI>

Scientific Research Aid Division, Research Promotion Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Yasuhito Suzuki

2. How to Prepare the Application Form for KAKENHI -From the Viewpoint of an Ex-primary Judge-

Faculty of Medical Sciences, Kyushu University Hidetaka Arimura

3. Toward a Research Grant Application -from My Experience-

Particle Therapy Division, Exploratory Oncology Research and Clinical Trial Center, National Cancer Center Hidenobu Tachibana

4. The Survey Results for the Acquisition of Grants-in-aid

Department of Medical Physics and Engineering, Graduate School of Medicine and Health Science, Osaka University Masahiko Koizumi

5. An Attitude to Obtain Grants-in-aid by a Young Researcher

Faculty of Radiological Technology, School of Health Sciences, Fujita Health University Naoki Hayashi

6. Apply the JSPS KAKENHI at a Private Clinic

Miyakojima IGRT Clinic Daisaku Tatsumi

Scientific Sections Symposium

April 15 (Fri.) 14 : 50~17 : 50 (F201+202)

Moderator: Kumamoto University Junji Shiraishi  
Tohoku University Hospital Hiroshi Sakamoto

[Consideration of Radiological Technologists' Reporting and Assistance in Radiological Science and Technology Part I: Plus or Minus Extra for Radiological Imaging Techniques]

1. Introduction: Fundamental Understanding for the Limitation of Additional Exposures to the Patient  
Faculty of Life Sciences, Kumamoto University Junji Shiraishi
2. The Meaning of Additional Acquisition in MR Imaging  
Department of Radiology, Eastern Chiba Medical Center Takayuki Sakai
3. Criteria for the Additional Scan in Nuclear Medicine  
Division of Medical Quantum Science, Department of Health Sciences,  
Faculty of Medical Sciences, Kyushu University Kenta Miwa
4. The Purpose and Importance of Taking Additional Examinations in Mammography  
Department of Radiology, Tohoku University Hospital Yoko Chiba
5. The Fundamental Knowledge for Taking Additional Examinations in Emergency Situations  
Department of Radiology, Kobe redcross Hospital Takayuki Miyayasu
6. Criteria for Determining Rephotograph and Additional Image Processing in Kenzo  
Department of Radiology, University of Fukui Hospital Yuriko Ohtani

JIRA Workshop

April 17 (Sun.) 8 : 50~10 : 50 (F201+202)

Moderator: Nara Medical University Hospital Mitsuhiro Nakamae  
GE Healthcare Tomohiro Ito

[Management of Patient Exposure Dose in General Radiography]

1. Estimation Method of the Patient Dose in X-ray Diagnostic Examinations  
Department of Radiological Sciences,  
Ibaraki Prefectural University of Health Sciences Hitoshi Sato
2. Exposure Index  
Division of Central Radiology, Nara Medical University Hospital  
Mitsuhiro Nakamae
3. Diagnostic Reference Levels  
Asahi General Hospital Takayuki Igarashi
4. Progress of Dose Reduction on DR Detector  
Fujifilm Corporation Takeshi Kuwabara
5. Dose Reduction and Dose Control for General System  
Hitachi, Ltd. Healthcare Company Yuji Oda

## Forum

### Radiation Protection Forum

April 16 (Sat.) 9 : 00~10 : 00 (Harbor LoungeB)

Moderator: Asahi Hospital Takayuki Igarashi  
Department of Radiology, Yamanashi Hajime Sakamoto  
Fujita Health University Hospital Yasuki Asada  
Hamamatsu University Hospital Yasutaka Takei

〔Correspondences in the Medical Site after DRLs Was Released〕

1. Introduction of Diagnostic Reference Level (DRLs) at Our Hospital  
Department of Radiology, Chibaken Saiseikai Narashino Hospital  
Takao Chikugo

### Standardization Forum

April 16 (Sat.) 10 : 20~11 : 20 (Harbor LoungeB)

General Moderator: Odawara Cardiovascular Hospital Shigeru Miyazaki

〔Standardization of Quality Assurance and Radiological Equipment for Medical Imaging Departments-On Trend of Future and JIS (Japanese Industrial Standard) Original Bills Debated in 2015〕

1. Medical Electrical Equipment -part 2-45: Particular Requirements for Basic Safety and Essential Performance of Mammographic X-ray Equipment and Mammographic Stereotactic Devices  
Gunma Prefectural College of Health Sciences Toru Negishi  
Medical Systems Business Division, FUJIFILM Corporation  
Shigeru Saotome
2. Medical Electrical Equipment -part 2-54: Particular Requirements for the Basic Safety and Essential Performance of X-ray Equipment for Radiography and Radioscopy  
Tokyo Metropolitan University Shinji Abe  
Hitachi, Ltd. Healthcare Company / X-Ray System Division Yuji Oda
3. Medical Electrical Equipment -part 2-33: Particular Requirements for the Basic Safety and Essential Performance of Magnetic Resonance Equipment for Medical Diagnosis  
Toranomon Hospital Junji Takahashi  
Technical Support, Customer Service, Philips Electronics Japan, Ltd.  
Hirosugu Kinoshita

### Radiation Safety Management Forum

April 16 (Sat.) 13 : 00~14 : 00 (Harbor LoungeB)

Moderator: National Institute of Public Health Ichiro Yamaguchi  
Kyushu University Toshioh Fujibuchi

〔How to Implement the International Guidance on Security of Medical Radioactive Sources to the Regulatory System in Japan?〕

1. Current and Future of Regulation on Radioactive Source Security  
Nuclear Regulation Authority, Radiation Protection and Safeguards Division,  
Radiation Regulations Office Kazuhiro Tani

2. Requirements of IAEA about Safety and Security of Radioactive Materials  
Nuclear Safety Technology Center Toru Anan
3. The Current Situation on the Management of Sealed Radioactive Sources in  
Medical Institutions in Terms of Security in Japan  
Department of Radiology, The JIKEI University school of Medicine Hospital  
Hiroto Narita

#### Patient Safety Forum

April 16 (Sat.) 14 : 30~15 : 30 (Harbor LoungeB)

Moderator: Kyoto University Hospital Kyouji Higashimura  
National cancer center hospital Tomohiko Aso

[How We Should Explain the Radiology Test, Inquiry and Obtain Consent from the Patient]

1. How to Explain the Clinical Test, to Inquiry and to Obtain Consent from the  
Patient  
National Cancer Center Hospital Yasuaki Arai
2. Test Explanation, Appointment Guide, Questionnaire and Consent Forms  
Oita University Hospital, Medical Technology Department of Radiology  
Tomohiro Hamada
3. An Investigation about Explanation of Nuclear Medical Examination and  
Agreement for Explanation  
Department of Radiology Service,  
Shiga University of Medical Science Hospital Tetsuo Kida

#### Next Generation Session

April 17 (Sun.) 8 : 50~11 : 00 (414+415)

Moderator: Juntendo University Hospital Yosuke Kogure  
Osaka General Medical Center Masao Funahashi  
Tenri Hospital Shigeo Nishiki

1. Factors that Affect the Liver Standardized Uptake Value in Baseline <sup>18</sup>F-FDG  
PET/CT  
Department of Health Sciences, School of Medicine, Kyushu University  
Hiroki Tsuru
2. Quantification of Myocardial Blood Flow with <sup>11</sup>C-hydroxyephedrine Dynamic  
PET: Evaluation with <sup>15</sup>O-H<sub>2</sub>O PET  
Graduate School of Health Sciences, Hokkaido University Yuji Hiroshima
3. Development of a Phantom for Renal Scintigraphy Using a 3D Printing  
Techniques  
Graduate School, Ibaraki Prefectural University of Health Sciences  
Yuta Imagawa
4. Effects of Respiratory Motion on Dose Distribution in Spot Scanning Proton  
Therapy  
Faculty of Radiological Technology, Graduate School of Health Sciences,  
Fujita Health University Yusuke Ueshima

5. Characterization of Deformable Image Registration for the Pelvic Region Regarding Changes in Contrast, Noise, and Prostate Shifting.  
Division of Health Sciences, Graduate school of Medical Science,  
Kanazawa University Tomohiro Ikeda
6. The Energy Change Measurement of Linac Using EPID  
Major in Medical Engineering and Technology, Graduate School of Medical  
Technology and Health Welfare Sciences, Hiroshima International University  
Koji Naito
7. Vertical Distribution of Radioactive Cesium Deposited Soil of Lakes and Ponds  
Faculty of Health Sciences, Tokyo Metropolitan University Takuya Niida
8. Study on the Accuracy for the Composition of Mammary Gland Estimating  
Method in the Mammography Equipment Development Using the CdTe-series  
Photon Counting Detector  
Department of Radiological Science, Graduate School of Medicine,  
University Nagoya, Japan Ai Nakajima
9. Proposal of a New Analytic Method for the Determination of Both Atomic  
Number and Sample Thickness Based on a Photon Counting Technique Using  
Diagnostic X-rays  
Graduate School of Health Sciences, Tokushima University Natsumi Kimoto
10. Computer-aided Diagnosis System for the Differential Diagnosis of  
Hepatocellular Carcinoma in Contrast-enhanced Ultrasonography  
Graduate School of Health Sciences, Kumamoto University  
Soichiro Yamaguchi
11. Presentation of Effective Interpretation Method for Reading Technology of CT  
Colonography  
Gunma Prefectural College of Health Sciences Mika Okajima
12. A Positional Dependence of MTF Using the PSF Method and a Solution  
Tohoku University School of Health Sciences Hiroki Azumi
13. Development of Fan-beam X-ray Energy Measurement of CT  
Fujita Health University, School of Health Sciences Takuya Osuka
14. Exposure Dose Estimation in Abdominal Dynamic Computed Tomographic  
Examination Using Size-specific Dose Estimation  
Hirosaki University School of Health Sciences Kumi Yoshida
15. Development of Vibration Pads for Applying MR Elastography to Shoulder  
Muscles  
Department of Radiological Science, Graduate School of Human Health  
Science, Tokyo Metropolitan University Daiki Ito
16. Comparison of Intravoxel Incoherent Motion Parameters between Turbo Spin  
Echo and Echo Planar Imaging of the Head and Neck  
Department of Health Sciences, Graduate School of Medical Sciences,  
Kyushu University Ryoji Mikayama
17. Pixel-by-pixel Time-intensity Curve (TIC) Shape Analysis of Finger Joint  
Synovitis in Rheumatoid Arthritis Patients  
Department of Health Sciences, School of Medicine, Hokkaido University  
Yuto Kobayashi



Special Lectures for Students

April 17 (Sun.) 11 : 00~11 : 50 (414+415)

Moderator: Juntendo Unievrstiy Hospital Yosuke Kogure

1. Human Resource Development in Hiroshima University Hospital  
Department of Clinical Support, Hiroshima University Hospital Hiroomi Sumida
2. The Significance of Research in the Medium and Small Hospital  
Department of Radiology, Saitama City Hospital Isao Fujita

JRS Project

CT Colonography Training Course

April 14 (Thu.) 10 : 00~13 : 30 (F203+204)

Panel Discussion

April 15 (Fri.) 14 : 50~17 : 50 (Harbor LoungeB)

Moderator: Asahi Shimbun Company Clinic Kaoru Matsubara

「The Multi-Modality Approach to Breast Cancer -Whether the Image Findings from Multi-Modality Show the Pathological Image-」

Nippon Medical School Musashikosugi Hospital Division of

Diagnostic pathology Sachiko Nagai

The Jikei University KASHIWA Hospital Megumi Iijima

Saitama Cooperative Hospital Masami Niijima

Kameda Medical Center Yoshiaki Kato

1. Papillotubular Carcinoma
2. Solid-tubular Carcinoma
3. Scirrhouc Carcinoma

International Lunch Reception

April 15 (Fri.) 11 : 30~12 : 50 (414+415)

Moderator: Global Committee Member Shigeaki Morioka

## The 72nd Annual Scientific Congress of the JSRT Oral Presentation

April 14 (Thu.) 501

MR Abdomen, Pelvis (diffusion) 13 : 00~13 : 40

Moderator: Hajime Tanji (Northern Fukushima Medical Center)

1. ☆ Study of the Basic Parameters of Diffusion-weighted Whole Body Imaging with Background Body Signal Suppression Using Turbo Spin-echo Diffusion-weighted Imaging with a 3.0 T Magnetic Resonance Scanner  
Department of Radiological Service,  
Tokyo Women's Medical University Hospital Yuki Hachiman
2. Study of Image Uniformity of Direct-control DWIBS Using TSE DWI at 3.0T MRI  
Department of Radiological Service,  
Tokyo Women's Medical University Hospital Yuki Hachiman
3. ☆ DWI Using Local Excitation Method to Be Successful Assessment of Myometrial Invasion by Endometrial Carcinoma  
Department of Radiology, Chiba University Hospital Hiroki Ando
4. Comparison of TSE-DWI and EPI-DWI about ADC Value and ADC Map:  
Using the Phantom Study of Prostate Tissue  
Department of Radiology, Minoh City Hospital Takanobu Yamashiro

MR Liver 13 : 40~14 : 40

Moderator: Katsusuke Kyotani (Kobe University Hospital)

5. ☆ Comparison of Acquisition and Position Condition in Intravoxel Incoherent Motion Imaging (IVIM) of the Liver  
Division of Radiological Technology,  
National Hospital Organization Kyushu Medical Center Akinori Tsutsui
6. Fat Detection of Liver Using 3D 6-point Dixon MRI: Comparison with 2D Dual-echo Chemical-shift GRE and CT Value  
Department of Radiology, Kumamoto University Hospital Kie Shimizu
7. Study of the Influence of the Reference Scan in the Liver Study of 3D GRE Method Combined with a High-speed Parallel Imaging (CAIPIRINHA)  
Department of Radiology, National Public Officers Mutual Aid Association  
Federation of Toranomon Hospital Yoshinori Tsuji
8. ☆ New Approach to Improve Artifact of Arterial Phase Using Gadoxetate Disodium Magnetic Resonance Imaging: Does It Obviate the Need for a Bolus Tracking System?  
Department of Radiology, Toranomon Hospital Kei Fukuzawa
9. Simultaneous High Tumor Contrast Imaging and Functional T1 Mapping in Hepato-biliary Phase Using PSIR: A Basic Study  
Department of Medical Imaging, Faculty of Life Sciences,  
Kumamoto University Yasuhiro Fujiwara

10. Transient Severe Artifact Related with Gd-EOB-DTPA Injection: A Study Using Multiphasic Arterial Phase Imaging with Differential Subsampling with Cartesian Ordering (DISCO)  
Department of Radiology, Yamanashi University hospital Kazuyuki Sato

MR Heart

14 : 40~15 : 40

Moderator: Takashige Yoshida (Tokyo Metropolitan Police Hospital)

11. Coronary Whole Heart Magnetic Resonance Angiography: Feasibility of Breath-hold Chasing of Diaphragmatic Navigation  
Department of Radiological Technonogy, Takase Clinic Hideyuki Matsutani
12. An Examination of Variable Image Positions in the Aortic Valve Blood Flow Using Phase Contrast MRI: Effect of Breath Holding Methods in Healthy Volunteers  
Department of Radiological Technology, Kurashiki Central Hospital  
Kenichi Nakagawa
13. Noise Reduction of Static Region which Consider the Noise Level of Each Pixel for Cardiac Cine Moving Images  
MRI systems Division, Toshiba Medical Systems Corporation  
Mai Murashima
14. ☆ Improvement of Left Ventricular Strain with Reduction of Mean Pulmonary Arterial Pressure in Chronic Thromboembolic Pulmonary Hypertension  
Graduate School of Medicine, Tohoku University Tomoyoshi Kimura
15. ☆ Usability Evaluation of Cardiac MRI Assist Application: SureVOI Cardiac and CardioLine+  
MRI system Division, Toshiba Medical Systems Corporation  
Kensuke Shinoda
16. ☆ Evaluation of Three-dimensional Magnetic Resonance Imaging of Autopsied Human Heart Specimens for Computational Modeling for Congenital Heart Diseases  
Department of Radiology, National Cerebral and Cardiovascular Center  
Wataru Ueki

MR Musculoskeletal (MRA)

15 : 40~16 : 10

Moderator: Hiroyuki Takashima (Sapporo Medical University Hospital)

17. ☆ Hemodynamic Observation of the Arm Shunt Vessels Using Arterial Spin Labeling Magnetic Resonance Angiography  
Department of Radiology, Medical corporation Sumitomobesshi Hospital  
Yoshihito Miyamoto
18. Examination of Lower-extremity MRA Using Single-Shot bSSFP with Saturation Recovery in Arrhythmia Patients  
Department of radiology, Eastern Chiba medical center Kiichi Nose
19. ☆ Low and Iso-signal Intensities in T<sub>2</sub> and T<sub>1</sub> Weighted Images in Deep Vein Thrombus Reflect Thrombus Organization  
Department of Radiological Technology, Koga General Hospital  
Yasuyoshi Kuroiwa

MR Diffusion

16 : 10~17 : 00

Moderator: Yuichi Suzuki (The University of Tokyo Hospital)

20. ☆ Influence of Echo-planar Diffusion-weighted Imaging Apparent Diffusion Coefficient and  $T_2$  Values on Turbo Spin-echo Diffusion-weighted Imaging Apparent Diffusion Coefficient Values: A Phantom Study  
Department of Radiology, National Hospital Organization  
Kumamoto Medical Center Hirotooshi Maruyama
21. Assessment of Systematic Errors in Measured ADC Values: A Practical Approach Using Easily-available Cooling Bottles  
Department of Radiology, Osaka University Hospital Sachiko Yamada
22. Relations between SNR and b Values Using Calculation of Computed DWI  
Gunma Prefectural College of Health Sciences Ayaka Nemoto
23. ☆ Imaging Condition Optimization of DWI Sequence Using the Energy Balance Model for the Gradient Magnetic Field System  
MRI Systems Division, Toshiba Medical Systems Corporation Syo Kawajiri
24. ☆ Development of the Quiet Sequence Using Fast Advanced SE DWI  
MRI system Division, Toshiba Medical Systems Corporation Hiroki Kondo

MR Head and Neck (diffusion)

17 : 00~18 : 00

Moderator: Eiji Toyoshima (Akita Research Institute of Brain and Blood Vessels)

25. Acceleration Motion Compensation DWI for Measuring Intraventricular Temperature  
Department of radiology, Tokai University Hospital Shuhei Shibukawa
26. Short-TE Computed Diffusion Imaging (sTE-cDWI) Technique  
MRI Systems Division, Toshiba Medical Systems Corporation Yuki Takai
27. ☆ Magnetic Resonance (MR) Fusion Imaging for Targeting in Transcranial MR-guided Focused Ultrasound (TcMRgFUS) Thalamotomy in Patients with Essential Tremor  
Department of Radiology, Shin-yurigaoka General Hospital Hiroki Hori
28. Effect of the Head IVIM Analysis that Includes the High b-value  
Department of Diagnostic Radiology, Nakamura Memorial Hospital  
Kaori Hatano
29. ☆ Comparison of Intravoxel Incoherent Motion Parameters between Turbo Spin Echo and Echo Planar Imaging of the Head and Neck  
Department of Health Sciences, Graduate School of Medical Sciences,  
Kyushu University Ryoji Mikayama
30. The Reconsideration of MR Imaging Parameter with the Transparent Mouse Brain  
Tokyo Metropolitan University Graduate School of Human Health Sciences  
Yukiko Nagawa

April 14 (Thu.) 502

Nuclear Medicine Dopamine transporter (imaging)

13 : 00~14 : 00

Moderator: Naoki Kubo (Hokkaido University)

31. Examination of Dopamine Transporter Scintigraphy Imaging Time Shortening Using 3 Detectors Type Gamma Camera  
Department of Radiology, Showa University Hospital Shiho Mogi

- 32. ☆ The Evaluation of the Reconstruction Parameters of Brain Dopamine Transporter SPECT Images with a Fan-beam Collimator and a Comparison with Parallel Collimators  
 Department of Health Sciences, Graduate School of Medical Sciences,  
 Kyushu University Keishin Morita
- 33. Optimization of Reconstruction Parameters with Resolution Recovery for DAT-SPECT Imaging  
 Tottori University Hospital Susumu Fujii
- 34. Configuration Method of Region of Interest Using the CT Imaging of DaT Phantom; Phantom: For Establishment of the Best Acquisition Method of DaT Imaging  
 Department of Radiological Technology,  
 Saiseikai Futsukaichi Hospital Tomohisa Fukunaga
- 35. Evaluation of the Influence on Quantification of [123I]FP-CIT SPECT Brain Images with or Not with CT  
 Department of Medical Technology, Division of Radiology,  
 Osaka University Hospital Hidetaka Sasaki
- 36. Quantitative Evaluation of the <sup>123</sup>I- Ioflupane SPECT Using an Original 3D Striatum Phantom  
 Fujita Health University Graduate School of Health Sciences  
 Takuma Miyazaki

Nuclear Medicine Other (pediatrics / radionuclide therapy / brain imaging)  
 14 : 00~15 : 10  
 Moderator: Shigeki Ito (Kumamoto University)

- 37. Development of a Phantom for Renal Scintigraphy Using a 3D Printing Techniques  
 Graduate School, Ibaraki Prefectural University of Health Sciences  
 Yuta Imagawa
- 38. Utility of Smoothing Filter in <sup>99m</sup>Tc-dimercaptosuccinic Acid Renal Scintigraphy (DMSA) in Children  
 Department of Radiology, Hirosaki University Graduate School  
 Hitoshi Saitou
- 39. Studies on Divided Dosage Administration in Radioiodine-131 Therapy for Hyperthyroidism  
 Department of Radiological and Medical Laboratory Science,  
 Nagoya University Graduate School of Medicine Yumiko Koshiba
- 40. ☆ Monte Carlo Simulation of <sup>223</sup>Ra Imaging for Unsealed Radionuclide Therapy  
 Department of Health Sciences, Faculty of Medical Sciences,  
 Kyushu University Akihiko Takahashi
- 41. ☆ Assessment of Calculation Accuracy for Electron Dose-point Kernels Simulated Using PHITS Code  
 Department of Radiological Technology,  
 Faculty of Fukuoka Medical Technology, Teikyo University Takuro Shiiba

42. Trial to Quantity of Dosage Radioactivity Reduction in the Thallium ( $^{201}\text{Tl}$ ) Chloride Tumor Scintigraphy of the Head Region  
 Department of Radiology, Nakamura Memorial Hospital Yusuke Uemura
43. Evaluation of Voxel Based Control Database with Patient Selection and Generalized Extreme Studentized Deviate Many Outlier Procedure Based on the Euclidean Distance  
 Department of Radiological Technology, Kushiro Kojinkai Memorial Hospital Akira Ando

Nuclear Medicine Multi-focus fan beam collimator / semiconductor detector  
 15 : 10~16 : 00

Moderator: Yasuyuki Takahashi (Gunma Prefectural College of Health Sciences)

44. ☆ Studies on Simultaneous Myocardial Imaging with  $^{123}\text{I}$  and  $^{201}\text{Tl}$  Dual Radionuclides Using a Multifocal Collimator  
 Department of Radiological and Medical Laboratory Science, Nagoya University Graduate School of Medicine Keita Kunioto
45. Gated Myocardial Perfusion Single Photon Emission Computed Tomography Imaging with Multifocal Collimator  
 Division of Diagnostic Image Analysis, Graduate School of Medicine, Tohoku University Kaito Takahashi
46. ☆ Comparison of Conventional and Cadmium-zinc-telluride Single-photon Emission Computed Tomography for Myocardial Perfusion Imaging Analysis  
 Department of Radiology, Hyogo Brain and Heart Center at Himeji Masaru Ishihara
47. ☆ Quantification of Myocardial MIBG Uptake Using a Solid-state Single-photon Gamma-camera  
 Division of Medical Technology, Kobe University Hospital Mana Akamatsu
48. Analysis Method to Calculate the Heart-to-mediastinum Ratio of  $^{123}\text{I}$ -MIBG in a Semiconductor Detector System  
 Department of Radiology, Kurashiki Central Hospital Yuji Kawakami

Nuclear Medicine PET 1 (image processing)  
 16 : 00~17 : 00  
 Moderator: Kenta Miwa (Kyushu University)

49. Effect of Dose given to the Image Quality in OSEM Method and Block Sequential Regularized Expectation Maximization (BSREM) Method  
 Department of Radiology, Hyogo Prefectural Amagasaki General Medical Center Yasushi Fujii
50. The Evaluation of FDG PET/CT Images Reconstructed by Block Sequential Regularized Expectation Maximization  
 Department of Radiology, Osaka University Hospital Junpei Ueda
51. ☆ Investigation of the Block Sequential Regularized Expectation Maximization Reconstruction Algorithm in Brain Positron Emission Tomography/Computed Tomography Studies  
 Division of Radiology, Department of Medical Technology, Osaka University Hospital Takashi Kamiya

- 52. ☆ The Relationship between Respiratory Motion and the Reconstruction Parameters in the Amplitude-based Respiratory Gating of PET/CT  
 Division of Radiology, Department of Medical Technology,  
 Kyushu University Hospital Yuji Tsutsui
- 53. ☆ Evaluation of the Gross Tumor Volume Contouring Accuracy for Lung/Diaphragm Interface Tumors Using Respiratory Gated Positron Emission Tomography/Computed Tomography  
 Department of Radiology, Cancer Institute Hospital of Japanese Foundation for Cancer Research Shuto Nakazawa
- 54. A Numerical Phantom Study to Investigate the Influence of Gaussian Blur on Volume Based Parameters  
 Radiology Department, National Hospital Organization  
 Hokkaido Cancer Center Tomoka Kitao

**Nuclear Medicine PET 2 (image processing) 17 : 00~18 : 00**  
 Moderator: Kazufumi Suzuki (Dokkyo Medical University)

- 55. Used Dynamic Row-action Maximum Likelihood Algorithm (DRAMA) or Three-dimensional (3D) DRAMA, Consider of Point Spread Function Correction Method for PET  
 Iwate Medical University Cyclotron Research Center Toshiaki Sasaki
- 56. ☆ Optimization of Reconstruction Using Point Spread Function Correction in <sup>18</sup>F-fluoro-deoxyglucose Positron Emission Tomography  
 Iwate Medical University PET LINAC Medical Center Shota Miura
- 57. ☆ Detection of Sub-centimeter Spheres Using Clinical PET/CT  
 Department of Health Sciences, Faculty of Medical Sciences,  
 Kyushu University Kenta Miwa
- 58. Estimation of FDG-PET/CT Scatter Fraction  
 Department of Radiation Oncology, National Cancer Center Hospital East  
 Shota Hosokawa
- 59. Studies on the Effects of Scattered Radiation from Out-of-view in Tau Imaging  
 Department of Radiological and Medical Laboratory Science, Nagoya University Graduate School of Medicine Masayuki Honda
- 60. ☆ MR-based Attenuation Correction on a Hybrid PET/MR Imaging  
 Department of Radiological Diagnosis, National Cancer Center Hospital  
 Yuzuru Kouno

**April 14 (Thu.) 503**

- X-ray Tomosynthesis: Breast Imaging, DR 13 : 00~13 : 50  
 Moderator: Masahiro Nakajima (Municipal Kofu Hospital)
- 61. Average Glandular Dose Measurement of Digital Breast Tomosynthesis System  
 Department of Central Radiology, Osaka City General Hospital  
 Ikumi Miyajima
  - 62. ☆ Average Glandular Dose and Image Quality of Breast Cancer Patients from Digital Breast Tomosynthesis  
 Chulalongkorn University Saiwaroon Teankuae

63. Consideration on the Physical Measurement Method of Digital Breast Tomosynthesis  
Central Department of Radiology, Tokyo Women's Medical University Hospital  
Emu Yoshimoto
64. ☆ Image Reconstruction Using Interpolation Technique in Tomosynthesis  
Aimed for Patient Dose Reduction  
Division of Clinical Radiology, Tottori University Hospital Ryohei Fukui
65. Basic Consideration of Fault Thickness of a FBP Image and an IR Image in Tomosynthesis  
Shinonoi General Hospital Mizuki Takashima

**April 14 (Thu.) 414+415**

Radiation Technology Clinical Safety 13 : 00~13 : 40  
Moderator: Tomonori Isobe (University of Tsukuba)

66. The Diluted Injection Method of Contrast Material with Low Energy Computed Tomography to Reduce the Risk of the Side Effects  
Center for Radiology and Radiation Oncology Kobe University Hospital  
Tomoki Maebayashi
67. ☆ Accident Prevention during Screening Examination for Gastric Cancer  
Shibata Hospital Yukinori Okamoto
68. Use of the Root Cause Analysis Using the Incident Accident Report  
Tokyo-West Tokushukai Hospital Radiology Center Jun Kubota
69. Assessment of Emergency Communication System for Radiographic Report  
Ofuna Chuo Hospital Yousuke Aoki

Radiation control Radiation exposure of lens 13 : 40~14 : 30  
Moderator: Kosuke Matsubara (Kanazawa University)

70. Estimation of Lens Dose Using Radio-photo Luminescence Dosimeter during Neurointerventional Procedures  
Department of Radiology, Toranomon Hospital Satoru Kawauchi
71. Evaluation of Radiation Exposure Management for the Lens of the Angiographer in Interventional Radiology: A Preliminary Clinical Study  
Department of Clinical Radiology, Tottori University Hospital Takuro Tanaka
72. Measurement of Eye Lens Doses with Use of the Inverted-C-arm Technique in Orthopaedic Surgery  
Department of Radiology, Japanese Red Cross Sendai Hospital Akira Suzuki
73. Study and Evaluation of the Operator Exposure of Cardiac Catheterization  
Fujita Health University Hospital Department of Radiology Shinji Arakawa
74. The Approach of Radiation Exposure Dose Measurement of Lens to the Cardiac Catheterization by Scintillator with Optical Fiber (SOF) Detector  
Department of Radiology, Tottori University Hospital Katsuhiko Hirota





X-ray Angiography: System 16 : 20~17 : 00

Moderator: Kazuma Matsumoto (Hyogo College of Medicine College Hospital)

86. The TAVI Exclusive Analysis Software Accuracy an Examination  
Hiroshima City Hospital, Hiroshima, Japan Hirokazu Takanami
87. ☆ Positional Accuracy of the Virtual Catheter Tip of the Electromagnetic Navigation System  
Department of Radiology, Kyorin University Hospital Toshihiko Iwamoto
88. ☆ A Study of Adaptation to Body-Trunk Angiography Using the Electromagnetic Navigation System  
Department of Radiology, Kyorin University Hospital Jun Shudo
89. ☆ Comparative Analysis of the Blood Flow Blockage Effects of Different Types of Vascular Plugs  
Division of Radiology, Department of Medical Technology,  
Osaka University Hospital Kuniyuki Hidaka

X-ray Angiography: Radiation Condition 17 : 00~18 : 00

Moderator: Tomomichi Ishibashi (Tsukuba Medical Center Hospital)

90. Optimization of the Grid in the Pediatric Cardiac Catheterization  
Center for Radiological Sciences,  
Iwate Medical University Medical Heart center Tadashi Sasaki
91. Usefulness of Real Time Smoothed Three-dimensional DSA in Carbon Dioxide Angiography  
Department of Radiology, Saiseikai Kawaguchi General Hospital  
Kazuya Mori
92. A Study of Cone-beam CT for Thrombus Removal Surgery in Acute Cerebral Infarction  
Department of Radiology, Shimane University Hospital Masanori Kita
93. ☆ Examination of a Three-dimensional Image of the Hepatic Artery Using Cone-beam Computed Tomography  
Department of Radiological Technology,  
Showa University Koto-Toyosu Hospital Mitsuyoshi Yasuda
94. Evaluation of Organ Dose for Abdominal Angiography Using Monte Carlo Simulation: Phantom Study  
Department of Graduate School of Health Sciences,  
Kumamoto University Daisuke Sakabe
95. Reduction Method of Operator Radiation Exposure in Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension  
Division of Radiology, Department of Medical Technology,  
Kyushu University Hospital Hitoshi Miyazaki

April 14 (Thu.) F201+202

CT Performance evaluation 1

13 : 00~13 : 40

Moderator: Toshihiro Ishihara

(National Hospital Organization Saitama National Hospital)

96. Comparison of the Physical Characteristics of Different Hybrid Iterative Reconstruction

Department of Radiology, Edogawa Hospital Masahiro Ando

97. Evaluation of Low Contrast Detectability with the New Iterative Reconstruction Method Mounted NPS Model

KEIO University Hospital Department of Radiological Technology  
Kazuya Minamishima

98. ☆ Evaluate of Image Quality with 128-row Wide Helical Scan

Department of Radiology, Edogawa Hospital Hideyuki Sato

99. Shape Evaluation of the Volume Rendering by Using Iterative Reconstruction

Department of Radiology, Tokai University Hachioji Hospital  
Masayuki Iwasaki

CT Performance evaluation 2

13 : 40~14 : 30

Moderator: Katsuhiko Ichikawa (Kanazawa University)

100. Image Quality Evaluation of the Extended FOV Part in the High-pitch Double Spiral Scanning of 3rd Generation Dual Source CT

Department of Radiology, Kobe University Hospital Kiyosumi Kagawa

101. Physical Properties of Stacked CT Images Generated by a New Medical Viewer

Department of Radiological Technology, Yamaguchi University Hospital  
Ayumi Hashimoto

102. Study of Effective Expansion Reconstruction Size for Super-high Resolution CT

National Cancer Center Hospital Jun Torii

103. ☆ Study of Partial Volume Effect of Super High Resolution CT

Fujita Health University, School of Health Sciences Katsumi Tsujioka

104. withdrawn

CT Radiation dose reduction technology (Dose Index)

14 : 30~15 : 20

Moderator: Yoshihisa Muramatsu (National Cancer Center Hospital East)

105. ☆ Exposure Dose Survey in the X-ray CT Examination by Multiple Dose Calculation Software

Hirosaki University Graduate School of Health Sciences,  
Department of Radiological Life Sciences Takakiyo Tsujiguchi

106. Evaluation of the CTDIvol Correction Factor for Determining SSDE(Size-Specific Dose Estimates)

Division of Radiology and Nuclear Medicine,

Sapporo Medical University Hospital Kazufusa Mizonobe

107. ☆ Size-Specific Dose Estimate for Thoracic Imaging in 320 Row Detector Computed Tomography

Medical Imaging, Department of Radiology, Faculty of Medicine,  
Chulalongkorn University, Bangkok, Thailand Saowapark Yoykaew

108. ☆ Exposure Dose Estimation in Abdominal Dynamic Computed Tomographic Examination Using Size-specific Dose Estimation  
Hiroasaki University School of Health Sciences Kumi Yoshida
109. Image Quality and Size-specific Dose Estimates for Non-contrast Abdominal Computed Tomography  
Department of Diagnostic Radiology, Shizuoka Cancer Center  
Atsushi Urakura

CT Radiation dose reduction technology (Dose measurement, Dosimetry)

15 : 20~16 : 20

Moderator: Eiji Nishimaru (Hiroshima University Hospital)

110. Half Value Layer Measurement of X-ray Computed Tomography  
Faculty of Health Sciences, Tokyo Metropolitan University Takahiro Iwaku
111. ☆ Development of Fan-beam X-ray Energy Measurement of CT  
Fujita Health University, School of Health Sciences Takuya Osuka
112. ☆ A Comparison of Computed Tomography Dose Index Measurement Accuracy for Different Detectors  
Saiseikai Kawaguchi General Hospital Masakazu Shito
113. ☆ Influence of Differential Rotation Time on Measurements of CT Dose Index  
Department of Radiology, Akita Research Institute of Brain and Blood Vessels  
Fumiaki Sasaki
114. Verification of Image Noise and Radiation Dose for Over-rap Range in Non-Helical Scan  
Department of Radiological Technology, Kurashiki Central Hospital  
Masaaki Fukunaga
115. ☆ Accuracy Verification of the Motion Assay of a Dynamic Z-collimator Based on Primary X-ray Dosimetry Using a Real-time Dosimeter  
Aichi Medical University Hospital Masato Yamauchi

CT Radiation dose reduction technology (Dose distribution) 16 : 20~17 : 10

Moderator: Takashi Takagi (Chiba Kaihin Municipal Hospital)

116. ☆ Relationship CT-AEC and Dose Distribution Using Monte Carlo Simulations  
Department of Radiology, Kyoto University Hospital Tatsuya Horita
117. ☆ Estimation of Absorbed Doses Using Re-projection Simulation with Computed Tomographic Images  
Department of Radiological Technology,  
Hyogo College of Medicine College Hospital Kenji Nakamura
118. ☆ Evaluation of Computed Tomography Dose Distribution with Changes in Tube Voltage  
Department of Radiology, Saitama Medical Center Jichi Medical University  
Yoshiaki Nagai
119. Impact on the Response and the Image of the Organ Dose Modulation of Low-dose Imaging Conditions in MDCT  
NTT Medical Center Tokyo Koji Toyoda

120. ☆ Evaluation of the Dose Distribution at the Time of Chest CT Imaging  
 Department of Radiological Technology, Kizawa Memorial Hospital  
 Kenji Sako

CT Clinical study 1 17 : 10~18 : 00  
 Moderator: Katsumi Tsujioka (Fujita Health University)

121. Usefulness of Statistical Image of Acute Cerebral Infarction on Computed Tomography Examination  
 Department of Radiology, Shimane University Hospital Keiji Tada
122. ☆ A New Image Reconstruction Technique Using a Computed Tomography Lung Subtraction Method for the Assessment of Lung Perfusion: Initial Experience  
 Department of Radiology, Kyorin University Hospital Keita Fukushima
123. ☆ Threshold Setting for Volumetry in a Preoperative Liver Three-dimensional Computed Tomographic Image  
 Department of Radiology, Sapporo Medical University Hospital  
 Kanako Numasawa
124. ☆ Projection Mapping for Tilted Gantry CT-NAB  
 Fujita Health University, School of Health Sciences Kohei Nose
125. Fundamental Study on the Accuracy of the 4D Image Interpolation Software  
 Department of Radiology, Meitetsu Hospital Youichi Tomita

April 14 (Thu.) F203+204

Imaging Image display 14 : 00~15 : 00  
 Moderator: Reiji Katayama (Kurume University Hospital)

126. ☆ Objective Evaluation Method of Luminance Uniformity for Determining Deterioration of Liquid-Crystal Displays  
 Department of Health Sciences, Graduate School of Medical Sciences,  
 Kyushu University Keishin Kawamoto
127. ☆ A Study on the Possibility of Using a Super-high Contrast Ratio Monitor for Breast Ultrasonography  
 Department of Radiological Technology, Faculty of Health Sciences  
 Gifu University of Medical Science Norimitsu Shinohara
128. Visual Detection Ability of the Sine Wave Signal by the Difference in Gradation Number of the Medical Monitor  
 Faculty of Health Sciences, Komazawa University Keisuke Kondo
129. ☆ A New Display Method for Foreign Object Detection Using Energy Subtraction  
 Showa University Hospital Kaoru Katori
130. ☆ Application of Multi-modality Medical Image Fusion Technique in Neuronavigation  
 Shandong Medical Imaging Research Institute, Jinan, China Yi Zhang
131. Presentation of Effective Interpretation Method for Reading Technology of CT Colonography  
 Gunma Prefectural College of Health Sciences Mika Okajima

- Imaging Image evaluation, etc 15 : 00~16 : 00  
Moderator: Michitaka Honda (National Institute of Technology, Kagawa College)
132. Evaluation of Effective X-ray Energy Characteristics of Flat Panel Detector  
Department of Radiology, University of Fukui Hospital Saori Yoshizawa
133. Effect of Tube Voltage on Physical Characteristic of the Irradiation Side  
Sampling Technology Indirect Flat Panel Detector  
Meiseikai shiokawa clinic Tatsuya Yamashita
134. Optimization of the Exposure Dose of Digital Dental System Using the  
Homemade Dental Phantom  
Division of Clinical Radiology, Tottori University Hospital Kaneda Masaya
135. ☆ Proposal of a New Analytic Method for the Determination of Both Atomic  
Number and Sample Thickness Based on a Photon Counting Technique Using  
Diagnostic X-rays  
Graduate School of Health Sciences, Tokushima University Natsumi Kimoto
136. ☆ Characterization of Scattered X-ray Photons in Dental Cone-beam Computed  
Tomography  
Department of Medical Imaging and Radiological Sciences, Tzu-Chi University  
of Science and Technology, Hualien, Taiwan, ROC Chia-Chun Chuang
137. Evaluation of the Performance for Mobile Cone Beam CT  
Division of Clinical Radiology Service, Kyoto University Hospital  
Koji Itagaki
- Imaging CAD: detection, etc 16 : 00~17 : 00  
Moderator: Lee Yongbom (Niigata University)
138. ☆ Development of an Ellipsoid Convex Enhancement Filter for Detection of  
Intracranial Aneurysms in CAD Frameworks  
Department of Health Sciences, School of Medicine, Kyushu University  
Kazuya Hirakawa
139. ☆ Development of Diagnostic Criteria for the Evaluation of Rib Movements  
with a Dynamic Chest Radiography: Preliminary Study  
Division of Health Sciences, Graduate School of Medical Sciences,  
Kanazawa University Hiroaki Matsuda
140. Bone Suppression and Compare Provides a Clear Illustration of Density  
Changes between Current and Prior Chest X-ray Images  
St. Luke's International Hospital, Center for Preventive Medicine Minoru Sato
141. ☆ Development of a Quantitative Color Display Technique for Temporal  
Subtraction Image for Follow-up of Interval Changes on Digital Chest  
Radiographs in Order to Check the Justification of Chest CT Examination  
Department of Clinical Radiology, Faculty of Health Sciences,  
Hiroshima International University, Hiroshima, Japan Ikuo Kawashita
142. ☆ Patient Classification Based on Information Obtained from Vertebral Body  
Department of Health Sciences, Graduate School of Medical Sciences,  
Kyushu University Shun Tsubaki

143. ☆ Three Modality Image Registration of Brain Single-photon Emission Computed Tomographic/Computed Tomographic and Magnetic Resonance Images for <sup>123</sup>I-fluoropropyl-beta-carbomethoxy-3 beta-(4-iodophenyl)tropane Imaging  
 Department of Intelligent Image Information,  
 Gifu University Graduate School of Medicine Yuta Takeda

Imaging CAD: clinical application 17 : 00~18 : 00  
 Moderator: Yoshikazu Uchiyama (Kumamoto University)

144. ☆ Preliminary Study on the Automated Detection of Linear Skull Fracture in CT Images  
 Graduate School of Health Sciences, Fujita Health University Ayumi Yamada
145. ☆ Automated Analysis of Intramuscular Fat Tissue in the Lower Limbs with a Case of Amyotrophic Lateral Sclerosis (ALS) in Whole-body CT Images  
 School of Information Science and Technology, Aichi Prefectural University  
 Naoki Kamiya
146. ☆ Computer-aided Diagnosis System for the Differential Diagnosis of Hepatocellular Carcinoma in Contrast-enhanced Ultrasonography  
 Graduate School of Health Sciences, Kumamoto University  
 Soichiro Yamaguchi
147. ☆ Investigation of Useful Hyperintensity Enhanced MR Images for Detection of Brain Metastases  
 Division of Radiology, Department of Medical Technology,  
 Kyushu University Hospital Chiaki Tokunaga
148. ☆ Preliminary Study on the Hybrid Analysis Scheme of Pulmonary Nodules in Early and Delayed Phase PET/CT Images Using Random Forest  
 Faculty of Radiological technology, School of Health Sciences,  
 Fujita Health University Atsushi Teramoto
149. ☆ Statistical Image Analysis in Torso Fludeoxyglucose Positron Emission Tomographic Imaging  
 Department of Intelligent Image Information,  
 Gifu University Graduate School of Medicine Kenshiro Takeda

**April 15 (Fri.) 501**

MR Head and Neck 14 : 50~15 : 50  
 Moderator: Shinya Kojima (Tokyo Women's Medical University Medical Center East)

150. Spin Echo Method Using 3TMRI for Amyotrophic Lateral Sclerosis (ALS)  
 Tokyo Metropolitan Neurological Hospital Yukiko Sato
151. Examination about the Intracranial Vessel Wall Depiction Ability Using 1.5T MRI  
 Department of Radiology, Kawasaki Hospital, Kawasaki Medical School  
 Shinsuke Komaki
152. Study of CSF Flow Imaging by NATIVE-trueFISP Method in Simultaneous Phase  
 Department of Radiology, Jikei University Dai-san Hospital Seiko Ootaki
153. Examination of Arrhythmia Rejection Parameters in 3D Cine Phase Contrast Angiography  
 Hyogo Ion Beam Medical Center Kazushi Ikeuchi

154. Multiple Phase Silent MRA Sequence  
MRI System Division, Toshiba Medical Systems Corporation  
Masaaki Umeda

155. ☆ Development of the RF Coil for Head with Patient Comfort  
MRI Systems Division, Toshiba Medical Systems Corporation Satoshi Imai

MR Head (MRA, ASL) 15 : 50~16 : 50  
Moderator: Tatsuo Nagasaka (Tohoku University Hospital)

156. Usefulness of Artifact Reduction with 3D Phase Contrast MRA  
Department of Radiology, Sapporo Shiroishi Memorial Hospital  
Noriyuki Kimura

157. Evaluation of 3D Time-of-flight MR Angiography for Intracranial Stented Blood Vessel  
Department of Image Diagnosis, Ube Industries Central Hospital  
Shinobu Mano

158. ☆ 4D-MRA Using Double Inversion Recovery at 1.5-T MRI  
Department of Radiology, Tokai University Hospital Susumu Takano

159. Inter-operator Difference of the Labeling-slab Positioning for the Territorial ASL Using Dual Labeling Method  
Department of Radiology, Yamagata City Hospital SAISEIKAN Seina Sato

160. Evaluation of Signal-to-noise Ratio and Temporal Fluctuation of CBF Map in ASL  
Department of Radiology, Research Institute for Brain and Blood Vessels-Akita  
Hideto Toyoshima

161. Comparison of Arterial Spin-labeling Templates at Different Spatial Normalization Methods Based on Voxel-based Statistical Analysis  
Department of Radiology, Fukuoka University Chikushi Hospital Kazuki Tani

MR Musculoskeletal (MRE) 16 : 50~17 : 30  
Moderator: Hisashi Kitagawa (The Jikei University Daisan Hospital)

162. Development of a New MR Elastography Technique for Piriformis Muscle  
Department of Radiological Science, Tokyo Metropolitan University  
Tomokazu Numano

163. Efficient Method for Vibrating Psoas Major Muscle in MR Elastography  
Department of Radiological Science, Graduate School of Human Health Science, Tokyo Metropolitan University Takaaki Onishi

164. ☆ The Influence of Skeletal Muscle Anisotropy on Magnetic Resonance Elastography  
Department of Radiological Science, Graduate School of Human Health Science, Tokyo Metropolitan University Daiki Ito

165. Development of Vibration Pads for Applying MR Elastography to Shoulder Muscles  
Department of Radiological Science, Graduate School of Human Health Science, Tokyo Metropolitan University Daiki Ito



April 15 (Fri.) 502

Radiotherapy Planning Specific QA

9 : 40~10 : 40

Moderator: Kaoru Ono (Heiwa Clinic)

166. Influence of Dose Calibration Method in EPID Dosimetry  
Department of Radiology, Tenri Yoroze Hospital Yasushi Takeuchi
167. Evaluation of the Isocenter Position in Non-coplanar VMAT SRT for Multiple Brain Metastasis  
Central radiation unit, Toho University Omori Medical Center  
Takashi Kaneyoshi
168. The Advantage of Fast-spin-echo Method to the Dose Evaluation in Polymer Gel Dosimetry  
Department of Radiological Technology, Onomichi General Hospital  
Fumiya Fujiwara
169. ☆ Patient Specific QA in VMAT Plan for SBRT  
Medical Imaging, Department of Radiology, Faculty of Medicine,  
Chulalongkorn University, Bangkok, Thailand Sitanan Maknitikul
170. ☆ Verification of Dose Calculation for Cervical Carcinoma Cases Treated with Iridium 192 HDR Source According to AAPM High Energy Brachytherapy Source Dosimetry (HEBD) Report 229 and IAEA Protocol  
The Dept. Of Medical Physics & Biomedical Engineering (MPBME) Gono  
Bishwabidyalay, Savar, Dhaka, Bangladesh/Chairman Of MPBME.  
Hasin A. Azhari
171. Comparison of the Dose Distribution by the Difference in Treatment Planning System of Accelerated Partial Breast Irradiation that We Used Applicator for Brachytherapy  
Department of Radiology, Showa University Hospital Tadashi Kubo

Radiotherapy Dose Calculation Evaluation

10 : 40~11 : 40

Moderator: Yuji Nakaguchi (Kumamoto University Hospital)

172. Examination of Verification Accuracy in Breast Tangential Irradiation by Two Types of MU Independent Calculation Verification Software  
Department of Radiology, South Miyagi Medical Center Satoru Watanabe
173. Fundamental Study of Beam Attenuation Correction Due to the 6-axis Corresponding Image Couch Top Using the Treatment Planning System  
Department of Radiology, Showa University Koto Toyosu Hospital  
Kohei Iwamura
174. Experiment of Registration to the Treatment Planning System of the Electron Beam Data Using the Intra Oral Cone  
Department of radiological technology, Gifu University of Medical Science  
Tomohiro Shimozato
175. ☆ Impacts of Electron Cones on Dose Distributions at Junction in Electron-electron Field Matching  
Osaka Medical Center for Cancer and Cardiovascular Diseases Yuya Nitta

176. ☆ Particle and Heavy Ion Transport Code System (PHITS) Can Apply to Dose Evaluation in High-energy Photon Therapy  
Department of Radiological Technology, Koga General Hospital Naoya Kuga
177. ☆ Dosimetric Verification in Photon Beams for the Algorithm Based on Boltzmann Transport Equation  
Medical Imaging, Department of Radiology, Faculty of Medicine,  
Chulalongkorn University, Bangkok, Thailand Yot Phimmakone

Radiotherapy Treatment planning 15 : 50~16 : 50  
Moderator: Koji Sasaki (Gunma Prefectural College of Health Sciences)

178. ☆ Comparison of Irradiation Methods for Early Glottic Cancer with the Aim to Reduce Carotid Artery Dose  
Division of Radiological Technology, Department of Medical Technologies,  
Ise Red Cross Hospital Kazuaki Tanisada
179. ☆ Basic Study of Craniospinal Irradiation with the Field-in-field Technique  
Department of Radiology, Tokai University Hospital Shouta Maehira
180. ☆ Usefulness of a Treatment Plan Using the Virtual Bolus Method on Skin Surface: Evaluation of Dose Distribution in Position Errors  
Miyakojima IGRT Clinic Kenji Uemoto
181. Study of Metal Artifact Reduction Reconstruction Method Use in CT for Radiation Treatment Planning  
Department of Radiation Technology, Kizawa Memorial Hospital  
Takahiko Yajima
182. ☆ Deep Inspiration Breath Hold Technique (DIBH) to Reduce Heart and Lung Dose for Left Breast Cancer with Custom Made Respiration-monitoring Device Using Linear Position Transducer System  
Department of Medical Physics and Biomedical Engineering, Gono University,  
Dhaka, Bangladesh Mokhlesur Rahman
183. Performance Evaluation of the Automatic Segmentation Module for the Radiation Therapy Planning  
Hiroshima International University, Graduate School of Medical Technology and Health Welfare Sciences, Major in Medical Engineering and Technology  
(pre-PhD program) Yurie Abe

Radiotherapy IGRT (QA/QC) 16 : 50~17 : 50  
Moderator: Ryu Kawamorita (TANE General Hospital)

184. Accuracy of Three-dimensional Automatic Registration Using Megavoltage CBCT in IMRT  
Division of Radiology, Department of Medical Technology,  
Osaka University Hospital Shinya Nakasone
185. Quality Control of Geometry for High-precision Radiation Therapy  
Fukuoka Tokushukai Medical Center Shoji Ezaki
186. Development of Anthropometric Head Phantom for IGRT (Image Guided Radiation Therapy) and Dosimetry  
Department of Radiotherapy Seigo Murakami

- 187. ☆ Inspection of the Precision of Irradiation Location Picture Lead Container  
Department of Radiology, Suita Tokushukai Hospital Chiemi Morimoto
- 188. ☆ Evaluation of the Positional Accuracy and Dosimetric Properties of a  
Three-dimensional Printed Device for Head and Neck Immobilization  
Department of Radiology, Tohoku University Hospital Kiyokazu Sato
- 189. Accuracy Verification and Usefulness of Interference Check System with a Handy  
Type 3D Scanner in Proton Beam Therapy  
Medipolis Proton Therapy and Research Center Ryuichi Nakatsu

**April 15 (Fri.) 414+415**

Ultrasonography and Bone mineral quantitative inspection 10 : 40~11 : 20  
Moderator: Yoshihiko Maeda (Kariya Toyota General Hospital)  
Seiji Koyama (Kobe University Hospital)

- 190. ☆ Correlations between Power Doppler Ultrasonography and Pathology in the  
Clinically Advanced Rheumatoid Arthritis  
Graduate School of Health Sciences, Hokkaido University Katsumi Saito
- 191. Quantitative Assessment of Imaging Techniques on Breast Ultrasonography  
Using Quality Assurance Phantoms  
Department of Health Sciences, Faculty of Medical Sciences,  
Kyushu University Yumi Takane
- 192. Propolis Prevents Stress Shielding after THA: Beneficial Effects in Hindlimb  
Unloading Rodent Model  
Department of Radiological Technology of Health Science,  
Suzuka University of Medical Science. Takenori Yamashita
- 193. Establishment of Dual-energy X-ray Absorption(DEXA) for Shoulder  
Joint(Humerus): Analysis Method  
Central Division of Radiology, Nara Medical University Hospital  
Marina Kato

**Nuclear Medicine SPECT (image evaluation / quantitative analysis) 14 : 50~15 : 30**

- Moderator: Hiroto Yoneyama (Kanazawa University Hospital)
- 194. A Basic Study of Collimator Blurring Correction in SPECT  
Division of Radiology, Department of Medical Technology,  
Kyushu University Hospital Kazuhito Hioki
- 195. ☆ Development of Digital Signal Processing Methods for New Semiconductor  
Detectors for Single-photon Emission Computed Tomography  
Development of Quantum Science and Energy Engineering Graduate School of  
Engineering, Tohoku University Nobumichi Nagano
- 196. Fundamental Study of the Quantification Method in BONE SPECT  
Department of Radiology, Shimane University Hospital Yasushi Yamamoto
- 197. Comparison of Two Standardized Uptake Value Calculation Software in SPECT  
Department of Radiology, JCHO Tokuyama Central Hospital  
Mitsuha Fukami

Moderator: Shinya Mizukami (Kitasato University)

198. Development of Leaf Electroscope toward Understanding Ionization for Beginners  
Graduate School of Health Sciences, Tokushima University Natsumi Kimoto
199. ☆ Cultivation of the Next Generation in Radiology through the Experimental  
Training Using National Nuclear Research Facilities  
Nuclear Training & Education Center, Korea Atomic Energy Research Institute,  
Daejeon, Korea Byungchul Shin
200. ☆ Environmental Assessment of the Inspection Room during Postmortem  
Computed Tomography Imaging  
Department of Radiology, Fukui University Akihiko Nishijima
201. ☆ The Analysis of Postmortem Changes in Brain Computed Tomography  
Using Statistical Parametric Mapping  
Department of Radiology, Shimane University School of Medicine  
Yuichi Nishiyama

Moderator: Yasuki Asada (Fujita Health University)

202. Derivation of Total Filtration Thickness for Diagnostic X-ray Source Assembly  
Medicine and Medical Sciences, University of Tsukuba Michiharu Sekimoto
203. Construction of Exposed Parameter for Decreasing the Absorbed Dose in the  
Prematurity Portable X-ray Unit  
Department of Radiological Technology, Kurashiki Central Hospital  
Takashi Tanaka
204. ☆ Phantom Study for Entrance-Skin Doses Measurement in the Diagnostic  
X-ray Region Using a Small-type OSL Dosimeter: Comparison of the Doses  
Measured with Other Detectors  
Graduate School of Health Sciences, Tokushima University Kazuki Takegami
205. ☆ Practical Calibration Curve for Entrance Skin Dose Measurement Using  
Small-type OSL Dosimeter  
Graduate School of Health Sciences, Tokushima University Kazuki Takegami
206. ☆ Patient Dose Calculation from Digital Image Files and Suggestion of  
Effective-DAP  
Department of Bio-convergence engineering, Korea University, Seoul, Korea  
HoSun Lee
207. ☆ Improvement of Electrical Resistivities of CdZnTe Detector with Low  
Temperature Annealing  
Department of Radiology, University of Korea, Seoul, Korea Ki-Hyun Kim

Moderator: Yutaro Mori (University of Tsukuba)

208. withdrawn
209. Vertical Distribution of Radioactive Cesium Deposited Soil of Lakes and Ponds  
Faculty of Health Sciences, Tokyo Metropolitan University Takuya Niida

210. A Transition Analysis of the Food Radioactive Contamination Owing to a Fukushima Daiichi Nuclear Power Plant Accident  
Ibaraki Prefectural University of Health Sciences Erika Nakajima
211. Basic Study for Separation Measurement between  $^{137}\text{Cs}$  and  $^{90}\text{Sr}$  Using Small Type OSL Dosimeter  
Graduate School of Health Sciences, Tokushima University Hiroki Okino

April 15 (Fri.) F201+202

MR Basic

8 : 50~9 : 50

Moderator: Noriyuki Tawara (Hokkaido University)

212. ☆ Comparison of Two Different Excitation Methods of Saturation Pulse for Flow Artifacts Reduction in MRI: A Phantom Study  
Department of Radiology, Tottori University Hospital Sayaka Takahashi
213. Estimation Artifact of Zoom Imaging with 3D Isotropic Radial Trajectory  
Department of Radiology, Tokyo Metropolitan Police Hospital  
Takumi Koyano
214. ☆ A Fundamental Study of Compressed Sensing Magnetic Resonance Imaging Using Cartesian Sampling: Correlation between Signal-to-noise Ratio and Image Restoration  
Tokyo Womens Medical University Medical Center East,  
Department of Radiology Shinya Kojima
215. ☆ New Algebraic Reconstruction Technique for Compressed Sensing Magnetic Resonance Imaging Using Radial Sampling  
Tokyo Womens Medical University Medical Center East,  
Department of Radiology Shinya Kojima
216. ☆ Comparison of Gd-DTPA and Gd-BT-DO3A for Contrast-enhanced MR Imaging  
Department of Imaging Technology, East Nagoya Imaging Diagnosis Center  
Masahiro Tsukijima
217. ☆ Normalization of Time-dependent Signal Change of MRI  
Tokushima University Graduate School Takatoshi Usuda

MR Measurement

9 : 50~10 : 50

Moderator: Tsuyoshi Ueyama (Saito Yukokai Hospital)

218. The Utility of Phase Image for SNR Measurement in Noisy MRI  
Central Division of Radiology, Nara Mediceal University Hospital  
Kobo Shimizu
219. Evaluation of the Resolution Characteristics in T2W Imaging with Asymmetric TSE Using the MTF Measurement  
Sendai Kousei Hospital Osamu Sone
220. ☆ Comparison between Apparent  $T_2$  Decay and Modulation Transfer Function in Turbo Spin Echo Sequences with Low Refocusing Flip Angles  
Tohoku University Graduate School of Medicine Rei Yoshida

221. ☆ Simulation to Investigate the Modulation Transfer Function Dependent on the Partial Fourier Fraction in Magnetic Resonance Imaging with Gadolinium Concentrated Gradient  
Department of Radiology, Osaka Red Cross Hospital Yasuo Takatsu
222. Verification of Accuracy of T1 and T2 Values Calculated by Synthetic MRI  
Department of Radiology, Tokai University Hospital Tomoaki Hakucho
223. ☆ Dependence on Echo Time for Quantitative Susceptibility Mapping (QSM) MRI  
Tokushima University Graduate School Yuki Matsumoto

Collaborative session (CFD)

10 : 50~11 : 40

Moderator: Masaki Terada (Iwata City Hospital)

224. The Influence of Temporal Resolution on Hemodynamic Analysis Using 3D Cine Phase Contrast Magnetic Resonance Imaging  
Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine Takashi Mizuno
225. Accuracy Validation of Hemodynamic Analysis on Cerebral Intracranial Aneurysms Using 3 Dimensional Cine Phase Contrast Magnetic Resonance Imaging : Comparative Study with Computational Fluid Dynamics  
Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine Kenta Ishiguro
226. Impact of Carotid Bifurcation Angle for Hemodynamics in Vivo Study by Use of Computational Fluid Dynamics Analysis  
Department of Radiological technology, Kokura Memorial Hospital Tatsunori Saho
227. Examination of the Factor which Influences the CFD Analysis Result of Cerebral Aneurysm : The Difference in the Generating Part of an Aneurysm  
Graduate school of Nursing and rehabilitation science, Department of radiological Technology, Showa University Yuichi Nakai
228. ☆ Evaluation of the Septal Channel for Retrograde Approach in Percutaneous Coronary Intervention for the Chronic Total Occlusion  
Showa University graduate school of Nursing and rehabilitation science, Department of radiology Daisuke Kittaka

April 15 (Fri.) F203+204

CT Contrast enhancement (Injection technique)

8 : 50~9 : 30

Moderator: Kazuaki Terasawa (Saitama Red Cross Hospital)

229. Optimal Scan Timing for Portal Venous Phase of Contrast-enhanced CT Using 50-seconds Injection Protocol  
Department of Radiology, JR Sendai Hospital Tetsuya Sasaki
230. Examination of Pulmonary Arteriovenous 3DCT Images Conditions Using a Mixed Injection  
Department of Radiology, Japanese Red Cross Okayama Hospital Kazutoshi Tsuno

231. A Study on the Mixing Ratio and the Contrast Effect by Mixing Test Injection of Contrast Media and Saline in the Pulmonary Artery/Vein Separation 3D-CTA  
 Department of Radiology, Saitama Medical University Medical Center  
 Hiroki Matsuzawa
232. ☆ A Clinical Study of the Contrast Enhancing Technique in 3D-CT before Pulmonary Segments  
 Diagnostic Imaging center, Kameda General Hospital Noboru Yamaki
- CT Contrast enhancement (Scan technique) 9 : 30~10 : 20  
 Moderator: Yoshihiro Nakaya (Shizuoka Cancer Center)
233. ☆ The Effects of Different Breath Holding Techniques to Detect Pulmonary Thromboembolism in a Contrast-enhanced Computed Tomography Examination  
 Department of Radiological Technology,  
 Seirei Healthcare Support Center Shizuoka Chiaki Suzuki
234. Evaluation of the Imaging Protocol for Renal Plasma Flow and Glomerular Filtration Rate Using Dynamic Contrast Enhanced CT  
 Fujita Health University Graduate School of Health Sciences Sho Momiyama
235. ☆ Examination of Optimum Monitoring Conditions Using the Test Injection Method in the Chest-lower Extremities CT-angiography  
 Toho University Oomori Hospital Takuya Hatakeyama
236. Injection Pressure Evaluation of the New Venous Catheter with Side Holes for Contrast-enhanced CT/MRI  
 Department of Radiology, Gunma University Hospital Junya Fukuda
237. Development of Needle Pressure Measurement Phantom for CT Contrast Enhancement  
 Fujita Health University, School of Health Sciences Haruka Yamashita
- CT Contrast enhancement (Low kV scan) 10 : 20~11 : 00  
 Moderator: Toshiharu Miyoshi (Gifu University Hospital)
238. Clinical Benefit of Cerebral CTA Acquired with Low Tube Voltage: To Reduce Contrast Media in Advanced Ages  
 Department of Radiology, Sapporo Azabu Neurosurgical Hospital  
 Naoko Hamaguchi
239. Investigation of Tube Voltage and Body Size on Contrast Enhancement  
 Department of Central Radiology, Nagano Red Cross Hospital Koji Muroga
240. Study of Administration Iodine Amount Loss in the Pancreas Contrast Enhance CT Examination Using Low Tube Voltage Imaging  
 Department of Radiology Services, Gifu University Hospital  
 Shinichi Shigeyama
241. CT Contrast Media Reduction with Auto Adjustment kV System for Abdomen  
 Department of Radiology, Japanese Red Cross Kitami Hospital  
 Hiromitsu Kato

- CT Perfusion CT 11 : 00~11 : 40  
Moderator: Noriyuki Yanagawa (Eastern Chiba Medical Center)
242. ☆ Evaluation of Brain CT Perfusion Using the Bayesian Estimation Algorithm  
Department of Radiological Technology, Kurashiki Central Hospital  
Hiroyuki Yamamoto
243. Evaluation of Imaging Protocol for Quantitative Myocardial Perfusion Imaging  
Using 80-Slice Multidetector Row CT  
Fujita Health University Graduate School of Health Sciences Shinsuke Tsuge
244. Development and Evaluation of a Phantom for Basic Assessment of CT  
Perfusion Study  
Department of Radiology, Institute of Medical Science, University of Tokyo  
Nobukiyo Yoshida
245. ☆ The Effect of Scan Interval and Bolus Length on the Precision of Computed  
Tomography Perfusion Analysis: A Study Using a Hollow-fiber Phantom  
Department of Radiological services,  
Tokyo Women's Medical University Hospital Hiroyuki Hashimoto
- CT Cardiac CT (Basic study) 14 : 50~15 : 40  
Moderator: Tomonori Sano (Takase Clinic)
246. Comparison with Image Noise and Radiation Dose Using ECG-modulation  
Method in Cardiac CT  
Division of Radiology, Department of Medical Technology,  
Tohoku University Hospital Shu Onodera
247. Effect of Slice Thickness and Radiation Dose in Coronary Calcium Score Using  
320-row Area Detector CT:A Phantom Study  
Department of Imaging Center,  
St.Marianna University School of Medicine Hospital Yasuyoshi Ogawa
248. ☆ Study of Coronary Artery Calcium Scoring by Using the Temporal Partial  
Volume Effect and Ring Region of Interest Method Computed Tomography  
Fujita graduate school of health Sciences,  
Fujita Health University Toshihiko Yamagiwa
249. Effects of Stent Diameter on Subtraction Coronary CT Angiography  
Center for Radiological Sciences,  
Iwate Medical University Medical Heart Center Tsuyoshi Sugawara
250. Effects of Different Reconstruction Algorithms on Coronary Motion and  
Banding Artifacts in Coronary CT Angiography: A Phantom Experiment  
Department of Radiology,  
Tokyo Women's Medical University Medical Center East Rika Fukui
- CT Cardiac CT (Coronary study) 15 : 40~16 : 30  
Moderator: Takayoshi Yamaguchi (Hokkaido Hospital)
251. Assessment of Transluminal Attenuation-gradient in Coronary CT Angiography  
with Different Scan Timing Using a Contrast-material Flow Phantom  
Graduate School of Health Sciences, Kumamoto University  
Toshiaki Shimonobo



- 252. Study of the Effectiveness of the Spiral-flow Tube in Cardiac CT Angiography  
 Department of Radiology, Fukuyama City Hospital Seiji Hirata
- 253. ☆ Time Maximum Intensity Projection of Small Contrast Dynamic Coronary  
 CT Angiography with 320-detector Row CT: Feasibility in the Detection of  
 Coronary Artery Disease  
 Division of Radiology, Department of Medical technology,  
 Kyushu University Hospital Yamato Shimomiya
- 254. Relationship between Cardiac Function and Aortic Peak Time at Coronary  
 CT- Angiography  
 Division of Radiology, Department of Medical Technology  
 Kyushu University Hospital Takashi Shirasaka
- 255. Motion Artifact Reduction by Motion Correction Algorithm in Coronary CT  
 Angiography at Different CT Attenuation Values within the Coronary Artery  
 Lumen  
 Department of Radiology, Tokyo Women's Medical University  
 Medical Center East Yuzo Yamamoto
  
- CT Dual energy (Basic study) 16 : 30~17 : 10  
 Moderator: Keiichi Nomura (National Cancer Center Hospital East)
- 256. ☆ A Multicenter Study to Verify the Measurement Accuracy of the Material  
 Density and Effective Atomic Number Using GAMMEX467 Phantom in a Fast  
 kV Switching Dual Energy Computed Tomography  
 Department of Radiology, University of Fukui Hospital Tomokazu Ishida
- 257. Quantification of the Material Density Image in Lipid Using Dual Energy  
 Technology  
 Imaging Center, Okayama Saiseikai General Hospital Norimi Nishiyama
- 258. ☆ NPS of Advanced Monoenergetic Imaging Compared with Standard  
 Monoenergetic Imaging  
 Saiseikai Kawaguchi General Hospital Natsuki Toyoda
- 259. Estimation of Tube Voltage Switching Time in Fast KV Switching Dual Energy CT  
 Imaging Center, Okayama Saiseikai General Hospital Norimi Nishiyama
  
- CT Dual energy (Contrast enhancement) 17 : 10~17 : 50  
 Moderator: Kazuhiro Sato (Tohoku University Hospital)
- 260. ☆ Modulation Transfer Function of Advanced Monoenergetic Imaging  
 Compared with Standard Monoenergetic Imaging  
 Department of Radiology, Saiseikai Kawaguchi General Hospital  
 Yosuke Kidokoro
- 261. Virtual Unenhanced Image by Material Suppressed Iodine Is Compared with  
 Non-contrast CT Image in Abdominal Organs  
 Tokyo Metropolitan University, Graduate School of Human Health Sciences,  
 Department of Radiological Sciences Masashi Kaneko
- 262. ☆ Image Quality of Advanced Monoenergetic Imaging Compared with  
 Standard Monoenergetic Imaging  
 Saiseikai Kawaguchi General Hospital Hironobu Tomita

263. Limit of the Iodine Density Value Detectability in Dual Energy CT  
Department of Radiological Technology, Kinki University Hospital  
Yuki Kono

April 16 (Sat.) 502

Medical Information Terminology 8 : 50~9 : 20  
Moderator: Shuhei Hoshino (Gunma Prefectural College of Health Sciences)

264. Applying  $\chi^2$ -value toward Feature Words Extraction for Radiological  
Technology Field  
Department of Radiology, Hokkaido Medical Center Akihisa Fukuda
265. A Survey of Overlapping Terms between Index of Textbooks and Terminology  
of the Japanese Society of Radiological Technology  
Department of Radiological Technology, Hokkaido University Hospital  
Shintaro Tsuji
266. Extraction of Overlapping Terms between Each Category and These Definitions  
for the Construction of Radiological Technological Terminology  
Hokkaido University of Science Ayako Yagahara

Imaging Image processing, etc 9 : 20~10 : 20  
Moderator: Hiroshi Kunitomo (Nagoya City University Hospital)

267. ☆ Image Quality Improvement Using Sparse Coding Super-resolution Processing  
School of Health Sciences, College of Medical,  
Pharmaceutical and Health Sciences, Kanazawa University Yosuke Miyasaka
268. A Study of the Usefulness of New Flexible Noise Reduction Process by Visual  
Evaluation  
Department of Radiology, Asahi General Hospital Ryosuke Onozaki
269. Effectiveness of Automatic Dynamic Range Control in Orthopaedic Field  
FUJIFILM Corporation Keigo Nakamura
270. ☆ Application of Super-resolution to Single-photon Emission Computed  
Tomography  
Department of Radiology, Osaka City University Hospital Yutaka Katayama
271. ☆ Fabrication of the Equal-image-density Materials for Basic Experiment of  
Next-generation-type X-ray Diagnosis System  
Graduate School of Health Sciences, Tokushima University Natsumi Kimoto
272. ☆ Elastic Organ Models by Using 3D Printed Mold from MR Images  
Department of Intelligent Image Information,  
Gifu University Graduate School of Medicine Sayed A.Z.B.S. Aluwee

Imaging Scattered radiation correction processing (evaluation) 10 : 20~11 : 10  
Moderator: Kazuyuki Kashiya (Osaka General Medical Center)

273. Performance of the Scattered Radiation Correction Software  
Department of Radiology, University Hospital,  
Kyoto Prefectural University of Medicine Masayoshi Mizuta

274. Comparison between Scattered Radiation Correction Processing and Physical Grid with Image Characteristics

Department of Radiology and Nuclear Medicine,  
Sapporo Medical University Hospital Takahito Tsugiki

275. Effect of Image Contrast for Scattered Radiation Correction Processing

Tokyou Womens Medical University Medical Center East Suguru Nakayama

276. The Influence that Changed the Setting Grid Ratio of the Scattered Radiation Correction Processing

Department of Radiology,  
Tokyo Womens Medical University Medical Center East Hiroki Sato

277. The Difference between Imaging Scattered Radiation Correction Processing of Equipment Manufactures

Department of Radiological Technology, Tokai University Oiso Hospital  
Yuki Shoji

Imaging Scattered radiation correction processing (application) 11 : 10~11 : 50  
Moderator: Ryo Higashide (Nagoya City University Hospital)

278. Basic Study of Shooting Conditions in Obstetrics Imaging Using the Scattered Radiation Correction Processing

Department of Radiology, The University of Tokyo Hospital Shota Arakawa

279. Study of Scattered Radiation Correction Processing in Portable Chest Radiography

Department of Radiology, The Jikei University School of Medicine  
Kohei Kageyama

280. Application to the Neck Lateral Images Using Digital Scattered X-ray Removal Processing:Effect of Subject-detector Distance

Osaka General Medical Center Tomomi Nakamura

281. Clinical Evaluation of Chest Images Using Digital Scattered X-ray Removal Processing

Osaka General Medical Center Kazuyuki Kashiwama

**April 16 (Sat.) 503**

X-ray Breast Imaging

8 : 50~9 : 50

Moderator: Hiroko Nishide (Gifu University of Medical Science)

282. ☆ Full Field Digital Mammography of Low-dose Technique: Trend Correction of without Grid

Department of radiological technology, Saiseikai kawaguchi general hospital  
Takuji Tsuchida

283. Study of Effective Breast Thickness for Low Dose Digital Mammography System

Department of Radiology, Kyorin University Hiromi Enomoto

284. ☆ Validity of Mammographic X-ray Tube Output and Half Value Layer by Robson's Parametric Approach

Division of Clinical Radiology, Tottori University Hospital Akiko Nagami

285. ☆ Verification of Photon Number on Detective Quantum Efficiency (DQE)  
Calculation in Different Mammography Units  
Department of Radiological Technology, Graduate School of Medicine,  
Nagoya University Natsuki Otani
286. ☆ Intensity Distribution of a Mammography Device According to the  
Combination of Target/Filter  
Faculty of Health Sciences, Tokyo Metropolitan University Ryoko Tamai
287. ☆ Usefulness of Daily Dose Control Using Simplicity Dosimeter for  
Mammography Domain  
Department of Diagnostic Radiology, Tokyo Metropolitan Hiroo Hospital  
Tsuyoshi Kobayashi

Collaborative session (Breast)

9 : 50~10 : 40

Moderator: Rie Ishii (Tokushima Bunri University)

288. Study on Body Motion in MR Mammography Analysis  
Department of Radiology, Ebara Hospital, Tokyo Metropolitan Health and  
Medical Treatment Corporation Toshiyuki Onodera
289. ☆ Improved Approach for the Automated Detection of Architectural Distortion  
in Mammogram Using Convolutional Neural Network and Shape Features  
Graduate School of Health Sciences, Fujita Health University  
Mizuki Yamazaki
290. ☆ Automated Analysis of Breast Tumor and Axillary Metastasis Using PET/  
CT Images  
Graduate School of Health Sciences, Fujita Health University  
Natsuki Minoura
291. Study on the Accuracy for the Composition of Mammary Gland Estimating  
Method in the Mammography Equipment Development Using the CdTe-series  
Photon Counting Detector  
Department of Radiological Science, Graduate School of Medicine,  
University Nagoya, Japan Ai Nakajima
292. ☆ Is Glandularity Correlated with Body Mass Index in Japanese Women?  
Department of Central Radiology, Kinki University Hospital Kanako Yamada

April 16 (Sat.) F201+202

Collaborative session (DRL)

8 : 00~8 : 50

Moderator: Yasutaka Takei (Hamamatsu University Hospital)

293. Awareness Survey of Medical Exposure in Regional Medical Institutions  
Division of Radiological Technology, Department of Medical Technologies,  
Ise Red Cross Hospital Taklahiko Shibahara
294. Measurement of Patient Entrance Reference Point Dose in Many Cardiovascular  
IVR Devices  
Graduate School of Medicine, Tohoku University Yohei Inaba
295. How to Utilizing the Diagnostic Reference Level of Facilities of General  
Radiography Area  
Department of Radiology, NTT Medical Center Tokyo Ayaka Higuchi

296. Consideration of Fluoroscopic and Digital Angiographic Condition in Transcatheter Aortic Valve Implantation  
 Division of Radiology and Nuclear Medicine,  
 Sapporo Medical University Hospital Yohei Sudo
297. Inspection of the Behavior of CT-AEC between 2 Different Models Using the Chest Phantom  
 Shiga University of Medical Science Noritoshi Ushio
- CT Dual energy (Clinical study) 8 : 50~9 : 50  
 Moderator: Kazuya Ohashi (Nagoya City University Hospital)
298. Study of the Depiction of Calcified Plaque in Virtual Monochromatic Imaging Using Dual Energy CT  
 Department of Radiological Technology, Showa University Fujigaoka Hospital  
 Koji Miyasaka
299. Evaluation of Coronary Artery Stent by High-Resolution CT Compare to Monochromatic Image  
 Teine-keijinkai Hospital Shunsuke Itaya
300. ☆ Study of the Chest-lower Extremities CT-angiography Using the Dual-Energy in Consideration of the Iodine Transit Time  
 TohoUniversity Oomori Hospital Takuya Kitamura
301. Psoriatic Arthritis : Evalution with Contrast-enhanced Dual Energy CT  
 Department of Radiology, The Jikei University School of Medicine  
 Kengo Miyazaki
302. ☆ Examination of Meniscal and Cruciate Ligament Detectability in the Knee Joint with Using Virtual Monochromatic Images  
 Imaging Center, Okayama Saiseikai General Hospital Norimi Nishiyama
303. Study of the New Analysis Method for Material Prediction in Autopsy Imaging  
 Department of Radiological Sciences,  
 International University of Health and Welfare Kazuto Okano
- CT Iterative reconstruction (Coronary artery) 9 : 50~10 : 50  
 Moderator: Yoshihiro Ida (Fujita Health University Hospital)
304. Study of TAG Analysis Using the Full Iterative Reconstruction Images  
 Department of Radiology, The University of Tokyo Hospital Kenji Ino
305. ☆ Accuracy of Coronary Artery Calcium Scoring Using Full Iterative Reconstruction  
 Department of Radiology,  
 Hiroshima University Hospital Kazushi Yokomachi
306. ☆ Evaluation of the Coronary Calcium Score Using an Improved Iterative Reconstruction Technique  
 Department of Radiology, Tokai University Hospital Rina Motegi
307. ☆ Comparison of FIRST vs FBP Reconstructions of Distal Coronary Artery CTA  
 Department of Radiology, Saiseikaikumamoto Hospital Hiroki Arimura

308. Quantitative Assessment of Coronary Images on New Adaptive Full Iterative Reconstruction at 320-row Detector CT  
Department of Clinical Practice and Support, Hiroshima University Hospital  
Masao Kiguchi
309. Usefulness of Forward Projected Model-based Iterative Reconstruction Solution in Pediatric Coronary Computed Tomography Examination  
Department of Radiology, Shimane University Hospital Yukako Nishiyama
- CT Iterative reconstruction (Human body simulated) 10 : 50~11 : 40  
Moderator: Takanori Hara (Nakatsugawa Municipal General Hospital)
310. Improvement in Head 4D-CTA Image Quality with TA Method  
Research Institute for Brain and Blood Vessels-Akita Takato Ishida
311. ☆ Newly Developed Model-based Iterative Reconstruction vs. Hybrid Iterative Reconstruction vs. Filtered Back Projection Methods: Capability for Radiation Dose Reduction of Chest CT for Nodule Detection in Quantitative Chest Phantom Study  
Center for Radiology and Radiation Oncology, Kobe University Hospital  
Toshinori Sekitani
312. Study on the Capability of Visualizing the Simulated Lesions in the Lung Field Conditions Using Iterative Reconstruction  
Department of Radiology, Tokai University Hachioji Hospital Kazuyuki Endo
313. Effective of the Dark Band Artifacts Reduction Using Iterative Reconstruction  
Department of Radiology, Tokai University Hachioji Hospital Nobuo Suzuki
314. Study of Quality of Bone Volume Rendering Image Using High Resolution Filter and Hybrid Iterative Reconstruction  
Department of radiology, PL Hospital Ryo Murakami
- CT Streak artifact 13 : 00~13 : 40  
Moderator: Atsushi Urikura (Shizuoka Cancer Center)
315. ☆ Evaluation of Streak Artifacts Using Extreme Statistics and the Polar Representation in Computed Tomography  
Department of Radiology, Saitama Medical University Saitama Medical Center  
Jun Nakane
316. ☆ Influence of the Region of Interest in Gumbel Evaluation Method  
Oohama daiichi hospital Yasutaka Nishio
317. Characteristics of Streak Artifacts on CT Images: Influence of FOV and Position of High Attenuation Objects  
Central Radiology Department, Tosei General Hospital Nobuyuki Akiyama
318. Reduction of Streak Artifact in Computed Tomography Using Temporal Axes Noise Reduction Processing  
Section of Radiological Technology, Department of Medical Technology,  
Kanazawa Medical University Hiroji Nagata

- CT Metal artifact, Effect of reducing 13 : 40~14 : 30  
 Moderator: Souji Miyashita (Azabu Triology Hospital)
319. Evaluation of Metal Artifact Reduction Technique in Different Scanning  
 Method: The Artifact Reduction Effect and the Accuracy of CT Value  
 Department of Radiology, Shiga Medical Center for Adults Tetsuya Kitano
320. Comparison of Metal Artifact Reduction Algorithm with Two Different CT  
 Scanners  
 Department of Radiology, Juntendo University Hospital Hikaru Kudo
321. Evaluation of Iterative Metal Artifact Reduction Algorithm for CT  
 Department of Radiology, Tokai University Hospital Ryoichi Yoshida
322. Comparison and Examination of Metal Artifact Reduction Effect  
 Department of Radiology, Hiroshima City ASA Citizens Hospital  
 Hiroshi Sakuragouchi
323. Effect of Iterative Reconstruction on CT Image Quality of Metal Artifact  
 Reduction: -VolumeScan vs HelicalScan-  
 Department of Radiology, Yamagata University Hospital Kazutaka Hoyoshi

April 16 (Sat.) F203+204

- MR Abdomen 8 : 50~9 : 40  
 Moderator: Kenji Hamada (Kyorin University Hospital)
324. ☆ A Phantom Study of Acquisition Time Reduction Using Controlled Aliasing  
 in Parallel Imaging Results in Higher Acceleration Three-dimensional Volume  
 Interpolated Breath-hold Examination Imaging  
 Department of Radiological Technology, Toranomon Hospital  
 Takahisa Tokimori
325. Examination of the Free Breathing Abdominal Dynamic Imaging Using the  
 Keyhole Method-The Evaluation of the Artifacts from Gadolinium Contrast  
 Medium-  
 Section of Radiological Technology, Department of Medical Technology,  
 Kanazawa Medical University Hospital Chihiro Watari
326. ☆ A Novel Study on Image Quality Improvement for Dual-contrast Blood  
 Image Using Respiratory Navigator Echo Separating Compensation  
 Department of Radiology, Tokyo Metropolitan Police Hospital Reiko Arai
327. The New Technology of the Renal Arteries Delineation in Non-contrast MRA  
 with Breath Hold  
 Department of Radiology, Saitama City Hospital Yoshiomi Sato
328. The Study of Application Technology for the Renal Arteries Delineation in  
 Non-contrast MRA with Spin Labeling Method  
 Department of Radiology, Saitama city hospital Yoshiomi Sato

MR Liver (MRE, others)

9 : 40~10 : 30

Moderator: Kimihiro Kajita (Gifu University Hospital)

329. ☆ Hepatic MR Laparoscopy: Non-invasive Assessment of Advanced Liver Fibrosis Using Gd-EOB-DTPA-enhanced MRI in Patients with Non-alcoholic Fatty Liver Disease  
Department of Radiological Technology, Toranomon Hospital  
Tatsuya Hayashi
330. ☆ Effect of the Processing Algorithm on Calculating the Shear Stiffness Value Using Magnetic Resonance Elastography  
Department of Radiology, Fukushima Medical University Hospital  
Takashi Kanezawa
331. ☆ Magnetic Resonance Elastography for Hepatic Stiffness Measurement Using Different Direct Inverse Problem Methods in Healthy Volunteers and Patients with Liver Disease  
Department of Medical Physics and Engineering,  
Division of Medical Technology and Science, Faculty of Health Science,  
Graduate School of Medicine, Osaka University Shigeyoshi Saito
332. Geometrical Characteristics of Passive Driver in MR Elastography  
Department of Radiology, Kindai University Hospital Tatsuo Konishi
333. Development of a Dedicated Vibration Pad of the Standard MR Elastography Phantom  
Department of Radiological Science, Tokyo Metropolitan University  
Tomokazu Numano

MR Safety

10 : 30~11 : 20

Moderator: Hiroyuki Muranaka (Tsukuba international University)

334. ☆ Usefulness of Vacuum Immobilizer in Magnetic Resonance Imaging Examination of Infant Brain  
Department of Radiology, Osaka Medical College Hospital  
Kenichiro Yamamura
335. Comparison of Metal Implant Hearing in 3tesla MRI  
Department of Radiology, Okayama University Hospital Hitoshi Shiraki
336. ☆ Assessment of Magnetically Induced Displacement Force and Torque of Small Metallic Chips in Static Magnetic Field in MRI  
Radiation Technology Section, hospital, Research Center for Particle Therapy,  
National Institute of Radiological Science Hiroki Tsuchiya
337. ☆ Magnetization and Demagnetization of the Dental Magnetic Attachments in 3-tesla MRI System  
Department of Radiological technology,  
Gunma prefectural college of health sciences Norio Hayashi
338. Development of the Filing System for Adjusting the Safety Conditions of MRI Conditional Cardiac Implantable Electronic Devices  
Department of Radiological Technology, Kurashiki Central Hospital  
Sachi Fukushima



April 16 (Sat.) National Convention Hall

Radiotherapy IGRT Registration

13 : 00~13 : 50

Moderator: Koji Suzuki (Yamagata University Faculty of Medicine)

339. Influence of Partial Volume Effect of Kilovoltage CT Images on Image Registration in IGRT Using Helical Radiotherapy Equipment  
Radiation Therapy Center, Koga 21 Hospital Kota Hashiguchi
340. ☆ The Effect of Pre-instructions to Observers for Image Registration in Cone-beam Computed Tomography Based Image-guided Radiation Therapy for Prostate Cancer  
Division of Clinical Radiology Service, Kyoto University Hospital  
Norimasa Matsushita
341. ☆ Evaluation of the Effect of Respiratory Motion on Medial and Peripheral Chest Wall Surface Motion during Radiotherapy  
Fujita Health University School of Health Sciences Chikae Nakagami
342. Preliminary Experience of Image Guided Radiation Therapy Using Virtual Isocenter Method  
Department of Radiology, Suita Tokushukai Hospital Syuuichi Shibatani
343. Precision Analysis of the Ultrasound-infrared Camera Positioning Device in Our Hospital  
Nagasaki Prefecture Shimabara Hospital Tsunehiko Kan

Radiotherapy QA/QC

13 : 50~14 : 50

Moderator: Noriyuki Kuga (University of Miyazaki Hospital)

344. Uncertainty of User Dependent Absorbed Dose to Water Dosimetry  
Department of Radiology, University of Fukui Hospital Naoki Kinoshita
345. ☆ Characteristic Evaluation of Secondary-neutron Generated from 10 MV Linac by Monte Carlo Simulation  
Dept. of Health Sciences, Graduate School of Medical Sciences, Kyushu Univ.  
Saaya Hirayama
346. ☆ Neutron Dosimetry in a Proton Therapy Room.  
National Cancer Center Hospital East Hiroshi Tsuruoka
347. Comparison of the Basic Characteristics of the Radiochromic Films  
Gifu Prefectural Tajimi Hospital Shigeyoshi Kamada
348. ☆ Evaluation of Leaf Position Accuracy for Dynamic MLC Technique Using Multi-wire Ionization Chambers  
Southern TOHOKU Proton Therapy Center Hiromitsu Endo
349. Quality Assurance Activity between Hiroshima Four Main Hospitals and Hiroshima High-precision Radiotherapy Cancer Center  
Hiroshima High-Precision Radiotherapy Cancer Center Shuichi Ozawa

Moderator: Masataka Oita (Okayama University)

350. Evaluation of Surface Dose Using Originally-produced Bolus toward Head and Neck Radiotherapy  
Department of Radiological Technology, Tokushima University Hospital  
Motoharu Sasaki
351. Impact of Iodine Amount on the Dose Calculation for Volumetric Modulated Arc Therapy for Head and Neck Cancer: Comparison between Contrast Agent Usage Fixing Method and the Variable Method  
Department of Radiology, Osaka General Medical Center  
Hiroshi Kamikaseda
352. Influence on Dose Distribution of a Fixation Plate after Craniotomy in the Brain Stereotactic Irradiation  
Tsukuba Central Hospital Yoshitomo Araki
353. ☆ Evaluation of X-ray Scattering from Various Types of Dental Materials in Radiotherapy  
Department of Radiology, Tokyo Nishi Tokushukai Hospital Maina Soma
354. Effects of Respiratory Motion on Dose Distribution in Spot Scanning Proton Therapy  
Faculty of Radiological Technology, Graduate School of Health Sciences, Fujita Health University Yusuke Ueshima
355. ☆ In Vivo Dosimetry Using Radiochromic Film in Total Body Irradiation (TBI)  
Medical Imaging, Faculty of Medicine, Chulalongkorn University  
Viphaphone Inphavong

Moderator: Naoki Hayashi (Fujita Health University)

356. ☆ An Investigation of Virtual Monochromatic CT in Radiation Therapy for Head and Neck Cancer: A Head Phantom Study  
Department of Medical Imaging and Radiological Sciences, Tzu-Chi University of Science and Technology, Hualien, Taiwan, ROC Hung-Te Yang
357. ☆ Improving the Image Quality of On-board Cone Beam CT in Radiation Therapy Using Image Information Provided by Planning Multi-detector CT: A Body Phantom Study  
Department of Medical Imaging and Radiological Sciences, Tzu-Chi University of Science and Technology, Hualien, Taiwan, ROC Kai-Jie Jhan
358. ☆ Evaluation of Dose Calculation Accuracy Based on Cone Beam Computed Tomography Images for Adaptive Radiation Therapy  
Department of Radiological Technology, Yamaguchi University Hospital  
Yuki Yuasa
359. Usefulness of a Metal Artifact Reduction Technique in Helical Scanning CT for Radiation Treatment Planning  
Department of Radiation Oncology, Siga Medical Center for Adults  
Takuya Nishitani

360. ☆ Systematic Framework for Estimating In-vivo Four-Dimensional Dose Distributions during Treatment Deliveries in Stereotactic Body Radiotherapy Based on a 2D/3D Registration with Adaptive Transformation Parameters  
Department of Health Sciences, Graduate School of Medical Sciences, Kyushu University Takahiro Nakamoto
361. ☆ Characterization of Deformable Image Registration for the Pelvic Region Regarding Changes in Contrast, Noise, and Prostate Shifting  
Division of Health Sciences, Graduate school of Medical Science, Kanazawa University Tomohiro Ikeda

**April 17 (Sun.) 501**

Medical Information Information analysis, Workflow analysis 13 : 00~13 : 40  
Moderator: Junichi Yamazawa (Minamata City General Hospital and Medical Center)

362. ☆ A Patient-Satisfaction Survey Using the SERVQUAL Model to Study the Factors Increasing Patient Satisfaction in an Outpatient Setting  
Southern Tohoku General Hospital Natsuru Kobiyama
363. Questionnaire Survey for MRI Distribution and Usage in Japan  
Division of Clinical Imaging, Tohoku University Graduate School of Medicine Miho Sato
364. A Survey of Overlapping Terms between Index of Textbooks and Terminology of the Japanese Society of Radiological Technology  
Eastern Chiba Medical Center Nobutada Suzuki
365. ☆ The Risk Management of Post-Reported Stored Cases  
Department of Radiology, Kobe Red Cross Hospital Munehisa Ogawa

Medical Information System development, Utilization of a system

13 : 40~14 : 30

Moderator: Takeshi Tsujimoto (Japanese Red Cross Kyoto Daini Hospital)

366. PACS and Reporting All in One System of Software Development  
PRISM MEDICAL Inc. Yoshihiro Odawara
367. Study of Patient Authentication System by Bar Code Tailored to the Examination Workflow  
Department of Radiology, Juntendo Tokyo Koto Geriatric Medical Center, Juntendo Universit Kenichi Sato
368. ☆ Development and Operational Experience of the Radiographic Image Using Interpretation Rate Calculation Software  
Toyama univercity hospital Kouei Nagahama
369. Introduction of e-Lerning System in University Class of Radiation Sciences Students  
Hirosaki University Graduate School of Health Sciences Satoru Monzen
370. ☆ Construction and Operation of an Emergency Image Reference System for Use during PACS Failure  
Department of Radiology, Japanese Red Cross Kitami Hospital Isao Nakajima

April 17 (Sun.) 502

Nuclear Medicine Cardiac Imaging

8 : 50~9 : 50

Moderator: Tomoaki Yamamoto (Kyorin University)

371. Nuclear Medicine Diagnostic Technology Standardization Trials: With Thallium Imaging Evaluation Study  
Radiology division, Kanazawa City Hospital Souichirou Kashiwaya
372. ☆ The Effect of Acquisition Count on Left Ventricular Function and Phase Analyses in Gated Myocardial Perfusion Single-photon Emission Computed Tomography  
Radiological Center, University of Fukui Hospital Akinobu Kita
373. ☆ The Calculation of Left Ventricular Volume and Ejection Fraction by Gated SPECT MPI is Heart-rate Independent: Validation by Dynamic Cardiac Phantom  
Department of Nuclear Medicine, Show Chwan Memorial Hospital, Changhua, Taiwan Pin-Hsuan Liu
374. ☆ Reduction of the Small-heart Effect in Pediatric Gated Myocardial Perfusion Single-photon Emission Computed Tomography  
Department of Radiological Technology, Kanazawa University Hospital Hiroto Yoneyama
375. ☆ Partial Volume Correction for Quantitative Myocardial Uptake of Tc-99m Sestamibi: A Dynamic Cardiac Phantom Simulation  
Department of Nuclear Medicine, Chang Bing Show Chwan Memorial Hospital, Changhua, Taiwan Song-Han Yang
376. ☆ Estimation of Total Effective Dose to Patients Undergoing Myocardial Perfusion SPECT/CT  
Medical Imaging, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand Hnin Nitar

Nuclear Medicine PET 3 (analysis)

9 : 50~10 : 50

Moderator: Katsuyuki Tanimoto (National Institute of Radiological Sciences)

377. ☆ The Results of Acceptance Test and Reevaluation of PET/CT System  
Medical Imaging, Department of Radiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand May Phyu Zin Thein
378. ☆ Factors That Affect the Liver Standardized Uptake Value in Baseline <sup>18</sup>F-FDG PET/CT  
Department of Health Sciences, School of Medicine, Kyushu University Hiroki Tsuru
379. ☆ Quantification of Myocardial Blood Flow with <sup>11</sup>C-hydroxyephedrine Dynamic PET: Evaluation with <sup>15</sup>O-H<sub>2</sub>O PET  
Graduate School of Health Sciences, Hokkaido University Yuji Hiroshima
380. ☆ Quantification of <sup>18</sup>F-FDOPA and <sup>11</sup>C-Raclopride PET as a Biomarker of Parkinson's Disease  
Division of Radiological Technology, Institute of Biomedical Research and Innovation Go Akamatsu

381. ☆ Evaluation of Texture Analysis for the Heterogeneous Uptake on PET Images  
 Department of Health Sciences, Graduate School of Medicine,  
 Kyushu University Keishin Morita
382. Evaluation of Educational Files in Delayed Scan of FDG PET/CT Studies  
 Division of Radiology, Department of Medical Technology,  
 Osaka University Hospital Ryota Wada
- Nuclear Medicine Dopamine transporter (analysis) 10 : 50~11 : 50**  
 Moderator: Junichi Sato (Asahikawa Medical University Hospital)
383. Effects of the Visual Assessment and Semiquantitative Assessment on the Head  
 Positioning at the <sup>123</sup>I-FP-CIT SPECT Imaging  
 Department of Radiology, Edogawa Hospital Yasuhiro Inokuchi
384. Influence of Ventricle in Dopamine Transporter SPECT  
 Department of Radiology, Asahikawa Redcross Hospital Masahiro Ogino
385. The Influence that the Quantitative Value to the Ventricle Region in Striatum  
 SPECT Imaging  
 Department of Radiological Technology, Sumitomo Hospital  
 Hiroyuki Kawaguchi
386. Comparison of Diagnostic Accuracy by Analysis Softwares for Dopamine  
 Transporter Imaging  
 Department of Radiation Technology,  
 Kobe City Medical Center General Hospital Takahiro Fujimoto
387. Comparison of the Different Database in Dopamine Transporter SPECT with  
<sup>123</sup>I-FP-CIT  
 Department of Radiology, Nagasaki Kita Hospital Toshimasa Fujishita
388. A Novel Semi-quantitative Index in <sup>123</sup>I-FP-CIT SPECT Imaging  
 Department of Radiological Technology, Kurashiki Central Hospital  
 Norikazu Matsutomo
- X-ray Angiography: Development 13 : 00~13 : 40**  
 Moderator: Daisuke Sakabe (Kumamoto University Hospital)
389. ☆ Development of a Moving Phantom for Quality Control of the Flat Panel  
 Detector Angiography Equipment  
 Department of Radiology, Sendai Kousei Hospital Yoshihiro Haga
390. ☆ Development of a Dynamic Blood Vessel Phantom for the Evaluation of  
 Image Processing  
 Department of Radiology, Showa University Hospital Miwa Osawa
391. Evaluation of Dose Reduction Effect by the X-ray Control during Use  
 Perforated Attenuation Filter  
 Toshiba Medical Systems Corporation Masaki Akiyama
392. Application of Super-resolution to Coronary Angiography  
 Department of Radiology, Osaka City University Hospital Daisuke Himoto

- X-ray General Radiography 13 : 40~14 : 40  
Moderator: Hiroaki Matsuzawa (Osaka University Hospital)
393. ☆ Computer-based Analysis of Finger Joint Space Narrowing in Rheumatoid Arthritis Patients: A Reliability Study  
Department of Health Sciences, School of Medicine, Hokkaido University  
Katsuya Hatano
394. ☆ Reliability of Computer-Based Roentgenographic Approach for Assessing Joint Space Narrowing Progression in Rheumatoid Arthritis Wrist  
Graduate School of Health Sciences, Hokkaido University Shota Ichikawa
395. ☆ Comparison between the Computer-based Analysis and the Conventional Scoring Methods for Radiographic Progression of Finger Joint Space Narrowing Related with Ultrasonographic Synovitis in Rheumatoid Arthritis Patients  
Graduate School of Health Sciences, Hokkaido University Taichi Okino
396. Dose Reduction in Whole Spine X-ray Imaging Using Copper Filtration  
Department of Radiology, Kanazawa University Hospital Kaori Minehiro
397. A Phantom Study for the Influence of the X-ray Frame Duration on the Image Clarity and Sharpness in SLOT Radiography: Visual Evaluation and Quantitative Assessment  
Shiga University of Medical Science Hospital Yuto Hamada
398. Workflow Improvement and Dose Reduction of Longview Examination Using Long-size Type FPD  
Japan Red Cross Medical Center Mami Kinoshita

**April 17 (Sun.) 503**

- CT Image quality evaluation methods 13 : 00~13 : 40  
Moderator: Mitsunori Goto (Miyagi Cancer Center)
399. ☆ Monte Carlo Simulation of X-ray CT and Image Reconstruction by Using PHITS  
Department of Radiological Technology, Faculty of Fukuoka Medical Technology, Teikyo University Hiroyuki Arakawa
400. A Positional Dependence of MTF Using the PSF Method and a Solution  
Tohoku University School of Health Sciences Hiroki Azumi
401. Comparison of Averaging Methods for MTF Measurement at Low CNR Condition  
Tohoku University School of Health Sciences Chiaki Tominaga
402. ☆ Development of a New Digital Phantom Creation Tool for Low-contrast Detectability  
Division of Radiology and Nuclear Medicine Kohei Harada
- CT Clinical study 2 13 : 40~14 : 40  
Moderator: Shigehiro Ochi (Eastern Chiba Medical Center)
403. Using Variable Helical Pitch in a Head CT Protocol for High Speed Scan  
Department of Radiology, NAKADORI General Hospital Teruo Shibata
404. ☆ Evaluation of Prospective Simulated Electrocardiographic Gating Scan Mode in Four-dimensional Computed Tomography  
Department of Radiation Technology, Hiratsuka City Hospital  
Wataru Fujishiro

405. Study of the Bowel Preparation Quality in CT Colonography with Low Dose PEG-C and Mosapride Bowel Preparation  
 Department of Radiology, Tochigi Medical Center Minami Ezure
406. Relationships between Various Kinds of Carbon Dioxide Injection Pressures and Dilatation of Colon with Slow Speed Gas Injection Method for CT Colonoscopy  
 Tokushima Kensei Hospital Teruaki Iwano
407. ☆ Evaluation of Lower Leg Rotation for Tibial Component Positioning in Total Knee Arthroplasty  
 Department of Radiology, Tokyo Medical University Hospital  
 Tsuyoshi Yokoyama
408. Preoperative Evaluation for Endovascular Treatment Using Computed Tomography Images of the Lower Extremity Calcification  
 Department of Diagnostic Imaging, Kawakita General Hospital  
 Mayumi Watanabe

**April 17 (Sun.) 414+415**

Radiation control Simulation 13 : 00~14 : 00

Moderator: Kimiya Noto (Kanazawa University Hospital)

409. Effect of Absorption Edge Filters on Diagnostic X-ray Spectra in Infants  
 Department of Medical Technology,  
 Tokai University of medical Science Hospital Yasushi Katsunuma
410. The Application of MC Simulation to Determination of Attenuation Properties of Materials  
 Faculty of Medicine, Tokyo Metropolitan University Soma Suzuki
411. Analysis of Shielding Effect from Scattered Radiation with Radiation Protection Sheet Using Monte Carlo Simulation in Angiography  
 Department of Health Sciences, School of Medical Sciences, Kyushu University  
 Naoki Sato
412. Evaluation for Detection Efficiency of Small Type OSL Dosimeter for the Nuclear Medicine Region Using EGS5  
 Graduate School of Health Sciences, Tokushima University Hiroki Okino
413. Estimation of Ambient Dose Equivalent Distribution in the Room for <sup>18</sup>F-FDG Administration Using Monte Carlo Simulation  
 Division of Radiology, Department of Medical Technology,  
 Kyushu University Hospital Shuji Nagamine
414. Evaluation of Neutron Behavior Accuracy Using Cross Section Data in Monte Carlo Simulation  
 Department of Health Sciences, Graduate School of Medical Sciences,  
 Kyushu University Takatoshi Toyoda

Radiation control CT 14 : 00~14 : 40

Moderator: Shuji Koyama (Nagoya University)

415. Estimation of the Filter Thickness of CT Scanner Using Semiconductor Detector  
 Faculty of Radiological Technology, Graduate School of Health Sciences,  
 Fujita Health University Shoichi Suzuki

416. Evaluation of the Response Characteristics of Radiochromic Film Dosimetry at CT Radiation Quality  
Ibaraki Prefectural University of Health Sciences Rumi Gotanda
417. Radiation Dose to the Lens of the Eye during Head CT Examinations Performed Before and After the Neurosurgical Operation  
Department of Imaging, Nagoya Kyoritsu Hospital Yuta Matsunaga
418. ☆ Evaluation of K-factor (DLP to Effective Dose) with ICRP 110 Reference Phantom  
Graduate School of Health Sciences, Fujita Health University  
Masanao Kobayashi

**April 17 (Sun.) F201+202**

X-ray Exposure Index 10 : 50~11 : 40  
Moderator: Ryotaro Yuji (Tokai University Hachioji Hospital)

419. Study of Auto Exposure Control of Constancy Tests in Equipment for General Direct Radiography on Flat Panel Detector: Evaluation by Exposure Index  
Department of radiological technology, Saiseikai kawaguchi general hospital  
Takuji Tsuchida
420. Standardization of X-ray Photographing Conditions Focusing on the Knee by Use of Exposure Index and Deviation Index  
Department of Radiological Technology, Hokkaido University Hospital  
Ryosuke Sakano
421. ☆ Effects of Different Parameters with Scattered Radiation Correction Processing on Exposure Index: A Phantom Experiment  
Tokyo Women's Medical University Medical Center East Keita Sato
422. Correlated Consideration of Dose Area Product and Exposure Index on Chest General X-rayed Photograph  
Department of Radiological Technology, Toranomon Hospital  
Masakatsu Tano
423. ☆ Attempts to Calculate Optimal Imaging Conditions Using the Division Index  
Department of Radiology, Hospital of University of Occupational and Environmental Health Japan. Takeshi Takaki

Radiotherapy Dosimetry • Device 13 : 10~14 : 00  
Moderator: Shinichi Ueda (Kanazawa University Hospital)

424. ☆ Experimental Investigation of the Shift of the Effective Point of Measurement of Cylindrical Ionization Chambers in High Energy Beams  
Dept. of Medical Physics and Biomedical Engineering, Gono Bishwabidyalay (University), Savar, Dhaka, Bangladesh Kumaresh Chandra Paul
425. The Energy Change Measurement of Linear Accelerator Using EPID  
Major in Medical Engineering and Technology,  
Graduate School of Medical Technology and Health Welfare Sciences,  
Hiroshima International University Koji Naito



- 426. Accumulated-dose Dependence of Measured Values of Small Type OSL Dosimeter in the Radiotherapy Region  
 Graduate School of Health Sciences The University of Tokushima  
 Akinori Matsumoto
- 427. Saturation Improvement and Dose Analysis of CR System  
 Technology Department of Radiology, Tochigi Cancer Center  
 Masahiro Nakayama
- 428. Developed the Source Position Confirmation System of the Accelerated Partial Breast Irradiation in Brachytherapy  
 SHOWA University Graduate School of Nursing and Rehabilitation Sciences  
 Tsugunori Iwai

Radiotherapy Positioning Accuracy 14 : 00~14 : 50  
 Moderator: Hideki Aoyama (Okayama University Hospital)

- 429. Analysis of Inter-fractional Internal Motion of Different Parts in Proton Therapy  
 Nagoya Proton Therapy Center, Nagoya City West Medical Center  
 Department of Proton Therapy Technology Rie Muramatsu
- 430. Examination of an Optimal Setup Margin of Transperineal Ultrasonography  
 Department of Radiology, Showa University Koto Toyosu Hospital  
 Yusuke Ohno
- 431. Verification of the Rotation Setup Error Using the Simulation Data in the Brain Irradiation  
 Division of Clinical Radiology Service, Kyoto University Hospital  
 Makoto Sasaki
- 432. ☆ Suppression of Respiratory Motion by Abdominal Compression Using a Body Shell  
 Department of Proton Therapy Technology, Nagoya Proton Therapy Center,  
 Nagoya City West Medical Center Masaki Katsurada
- 433. Effectiveness of Transpulmonary Metal Marker for Particle Radiotherapy for Patients with Lung Cancer  
 Hyogo Ion Beam Medical Center Yusuke Tsunei

**April 17 (Sun.) F203+204**

MR Musculoskeletal 8 : 00~9 : 00  
 Moderator: Harumasa Kasai (Nagoya City University Hospital)

- 434. Detection of Sternoclavicular Joint by New Motion Correction Algorithm  
 Department of Radiology, Shiga medical Center for Adults Miki Ito
- 435. ☆ Three-dimensional Magnetic Resonance Neurography of Peripheral Nerves in the Cubital Region Using Phase-cycling Diffusion-sensitized Driven-equilibrium  
 Department of radiology, Eastern Chiba medical center Takayuki Sakai
- 436. ☆ Pixel-by-pixel Time-intensity Curve (TIC) Shape Analysis of Finger Joint Synovitis in Rheumatoid Arthritis Patients  
 Department of Health Sciences, School of Medicine, Hokkaido University  
 Yuto Kobayashi

437. withdrawn
438. ☆ Development of a 3T Transmit / Receive Knee Coil for High Resolution Imaging MRI systems Division, Toshiba Medical Systems Corporation Miyuki Ota
439. ☆ Complications Related to Repetition Time during the Measurement of Muscle T2 in 3.0 Tesla MRI  
Medical Imaging, Faculty of Medicine, Chulalongkorn University,  
Bangkok, Thailand Patompong Polharn

MR Spine

9 : 00~10 : 00

Moderator: Masanori Komi (Kumamoto University Hospital)

440. Three-dimensional Magnetic Resonance Myelography of Total Spine Using Gradient-and Spin-echo (GRASE) for Cerebrospinal Fluid Hypovolemia  
Japanese Red Cross Okayama Hospital Kurosaki Takamasa
441. Detection of the Lumbar Nerve by T2TFE with T2prep  
Department of Radiology, Otsu Municipal Hospital Masafumi Nakamura
442. ☆ Brachial Plexus MR Imaging Using Contrast-enhanced STIR 3D FSE:  
Evaluation of Four Different Delay Times  
Radiology Department, The Chinese PLA General Hospital, Beijing, China  
Xiaojing Zhang
443. ☆ Evaluation of the Lumbar Cartilage Endplate Using Ultra Short TE:  
Optimization of a 2nd TE for Subtraction Images  
Division of Radiology and Nuclear Medicine,  
Sapporo Medical University Hospital Mika Yanagida
444. ☆ Quantitative Study of Lumbar Cartilaginous Endplates with MRI  
The Department of Radiology, TIAN JIN Hospital, TIAN JIN, CHINA  
Yi Cao
445. Thoracolumbar Spine Imaging at 3T Improved Image Quality by Modification of Arms Position  
Department of Radiological Technology, Hokkaido University Hospital  
Kinya Ishizaka

MR Breast

10 : 00~10 : 50

Moderator: Shunsuke Hasegawa (Heiwa Clinic)

446. Basic Study of 18ch Element Breast Coil for 1.5T Clinical MRI  
Department of Radiology, Tokyo Metropolitan Health and Medical Treatment Corporation Toshima Hospital Ayaka Tan
447. 3D-Water and Fat Suppression MRI for Depiction of Silicon Breast Implants  
Department of Imaging Technology, East Nagoya Imaging Diagnosis Center  
Osamu Yamamuro
448. Initial Examination of TWIST-VIVE in MR Mammography  
Department of Radiology, Tokyo Metropolitan Health and Medical Treatment Corporation Toshima Hospital Yukino Kozuka

449. ☆ A Phantom Study on T1 Mapping for Breast Tumor Using Inversion Recovery Turbo Field Echo Sequence  
 Department of Radiology, Japanese Red Cross Okayama Hospital  
 Katsuhiko Kida

450. ☆ An Experimental Study of the Diagnosing Value to Nude Mice Model of Transplanted Human Mammary Cancer with EGFE-receptor MR Contrast Agent  
 Radiological department of Union Hospital, Wuhan, China Bin Chi

MR Myocardial 10 : 50~11 : 50  
 Moderator: Kei Nishikawa (Kyushu University Beppu Hospital)

451. Parameter Optimization of GRASE for Measuring Accurate T2 Value of Normal and Inflammatory Myocardium  
 Department of Radiology, Saiseikai Futsukaichi Hospital Hideo Arai

452. Basic Examination about T1 Map by Polarity Corrected Variable (PC) TI Prep Tool  
 Department of Radiology, Fukushima Medical University Hospital  
 Naoki Watanabe

453. ☆ Examination of Myocardial T1 Mapping Using Post Saturation Pulse  
 Department of Radiology, Nagano Chuo Hospital Norishige Hatakeyama

454. ☆ Feasibility, Reproducibility, and Reliability for Cardiac Iron Quantification at 3T in Comparison with 1.5T  
 Department of Radiology, The First Affiliated Hospital of Guangxi Medical University, Nanning, China Peng Peng

455. Comparison of Myocardial MR Perfusion Measured by Model Analysis and Deconvolution Analysis  
 Fujita Health University Graduate School of Health Sciences Shinsuke Tsuge

456. Measurement Accuracy of Fractional Anisotropy with Acceleration Motion Correction in the Dynamic Phantom  
 Radiation technology department, Medical technology unit,  
 Tokai University Hospital Yuma Sainokami

MR Head (contrast) 13 : 00~14 : 00  
 Moderator: Yasuo Takatsu (Osaka Red Cross Hospital)

457. Contrast of Fat-suppressed FLAIR in Brain  
 Department of Radiology, Northern Fukushima Medical Center  
 Daisuke Takahashi

458. Computed MRI Development on 3T  
 MRI System Division, Toshiba Medical Systems Corporation  
 Masaaki Umeda

459. Study of High Spatial Resolution Pituitary Dynamic Imaging Using Keyhole Method-Relationship of Data Share and Artifacts-  
 Department of Radiology, Kanazawa Medical University Keiya Hirata

460. Quantitative Susceptibility Mapping Using Adaptive Edge-preserving Filtering  
 Research & Development Group, Hitachi, Ltd. Toru Shirai

461. ☆ Integrated Quantitative Susceptibility Mapping Reconstruction in Seconds for Single Echo Sequence  
Department of Radiology, Nagoya City University Hospital Hirohito Kan
462. ☆ Basic Study of Functional Magnetic Resonance Imaging Using Simultaneous Multi-slice Acquisition on Simultaneous PET/MR Equipment  
Advanced Clinical Research Center, Fukushima Medical University  
Hitoshi Kubo

## Presentation at monitor

April 15 (Fri.) N101

Imaging Image evaluation

9 : 50~10 : 20

Moderator: Kenji Kishimoto (Osaka City University Hospital)

1001. Verification of the Visual Afterimage Effect in Playing an Animation

Department of Medical Technology, Osaka General Medical Center

Yoshiki Kawase

1002. Experimental Examination about Partial Defect of the Image Caused by FPD

Automatic Mask Processing Using 2 Model FPD

Department of Radiology, Kochi Medical School Hospital Ryo Akima

1003. Basic Study for Clinical Application of Scattered Radiation Correction Processing

Department of Radiology, Kyorin University Hospital Yuya Shirakawa

1004. Assessment of Spatial Resolution on Forward Projected Model-based Iterative Reconstruction

Department of Radiology, Niigata University Medical & Dental Hospital

Kaori Tasaki

MR Head and Neck

10 : 20~10 : 50

Moderator: Katsuhiro Inoue (Mie University Hospital)

1005. Estimation of MRI Images about Head Subcutaneous Diseases by Difference Receiving Coils

Center Department of Radiology, Osaka City University Hospital

Toshiyuki Zaike

1006. Comparison of Local Uniformity and SNR and g-factor by Sensitivity Correction Strength of 64ch and 20ch Head Neck Coil

Department of Radiology, Juntendo University Urayasu Hospital

Tatsuya Koizumi

1007. Study of the Influence That Maked Movement Artifact Images Gives to an Analysis Result of VSRAD

Image Diagnostic Center, Houju Memorial Hospital Takahito Bessho

1008. Study of Cervical Nerve Root Visualized Using Flow Sensitive Black Blood (FSBB) Method

Hasuda hospital Radiology Takashi Yamada

1009. Study of the Effect of Paraffin Pillow in Cervical Spinal Cord MR Myelography

Department of Radiologic Technology, Jichi Medical University Hospital,

Tochigi, Japan Kinya Shibata

1010. 3D Volume Rendering Images of Time-resolved MR Angiography for the Evaluation of Aneurysms Treated with Coil Embolization

Department of Diagnostic Imaging, Jikei University School of Medicine,

Katsushika Medical Center Hiroaki Suzuki

POST

MR Breast

10 : 50~11 : 20

Moderator: Kenichiro Yamamura (Mie University Hospital)

1011. Influence of Slice Thickness of Breast Diffusion-weighted-imaging Using Section Select Gradient Reversal Technique on Image Quality  
Department of Radiology, Osaka City University Hospital Daichi Takemori
1012. Effect of Double Spin Echo in the Breast DWI  
Department of Radiology, Saitama Prefecture Saiseikai Kurihashi Hospital  
Mayumi Cho
1013. Evaluation of the Resolution Characteristic with DWI in the Breast MRI: Comparison of Readout-segmented EPI and Single-shot EPI  
Department of Radiological Technology, Yamaguchi University Hospital  
Takahiro Yamaguchi
1014. Study of the Time-intensity-curve Analysis of Dynamic Contrast Breast MRI Comparison with Pathologic Diagnosis  
Department of Radiology Tochigi Medical Center Katsuhiko Yatabe
1015. Study of Optimal TE and FA in Supine Position Breast Contrast-enhanced Dynamic MRI  
Medipolis Proton Therapy and Research Center Yasuki Yokote

MR Abdomen, Pelvis

11 : 20~11 : 50

Moderator: Yuji Akiyama (Hiroshima University Hospital)

1016. Optimization of 3D-T2 Weighted Image Using Regional Excitation in Pancreaticobiliary Duct Visualisation  
Tenri Hospital Ryo Yamazaki
1017. Optimization of Parameters on Coronal Image in Hepatobiliary Phase by Use of 3D FastSPGR with Respiratory Gating  
Division of Radiology, Department of Clinical Support,  
Niigata University Medical and Dental Hospital Hiroaki Saito
1018. Risk Management of the Side Effect in Contrast-enhanced MR Imaging with Gd-EOB-DTPA  
Department of Radiological Technology, Toranomon Hospital  
Takahashi Junji
1019. Investigation of High-resolution Diffusion-weighted Images in the Prostate  
Department of Radiology, Hirosaki University School of Medicine and Hospital  
Kazuhiko Ohyu
1020. Basic Study on T2 Weighted 3D Sequence with Regional Excitation for Rectal Imaging  
Department of Radiology, Kagawa University Hospital Akihiro Oishi
1021. Initial Examination of the Optimal Fat Suppression Method in Body DWI  
Medical Corporation Hakko-kai, Acras Cental Hospital Daisuke Hirahara

- MR Artifact reduction 14 : 50~15 : 20  
 Moderator: Takeshi Makabe (Hospital Hakodate Hokkaido)
1022. Attempt of Aliasing Artifact Reduction by Commercial Carbon Sheet  
 - Consideration at the Abdominal MRI -  
 Department of Radiology, Jichi University Hospital Akihiro Kouda
1023. Relation between Slice Encoding Steps (SES) and the Metal-artifact Reduction  
 in SEMAC-VAT Technique at 3T MRI  
 Department of Radiology, Kyoto University Hospital Hajime Sagawa
1024. Reduction of Metal Artifacts and Influence on SNR with Slice-encoding Metal  
 Artifact Correction: Phantom Based Evaluation  
 Department of Radiology, Kagoshima University Hospital  
 Shigeyoshi Wakamatsu
1025. Basic Study of Regional Excitation Sequence Using Anterior and Posterior Coil  
 Central Department of Radiology, Osaka City University Hospital  
 Daisuke Kimura
1026. Fundamental Study of New Motion Correction Algorithm  
 Department of Radiology, Minoh City Hospital Takano Yu Yamashiro
- MR Imaging technique 15 : 20~15 : 50  
 Moderator: Kei Fukuzawa (Toranomon Hospital)
1027. A Method of Improving the Signal-to-Noise Ratio Using a Phase Oversampling  
 Orthopedic and Rehabilitation Department, Eda Clinic Shiro Ozaki
1028. Multiband Diffusion-weighted Imaging: A Phantom Study Examining the  
 Influence of Slice Acceleration Factor on SNR and ADC Value  
 Department of Radiology, Kagosima University Hospital Takashi Iwanaga
1029. Evaluation of the Optimal Acquisition Parameters for Contrast-enhanced  
 3D-fat-suppression T1WI Using 3D-FSE Imaging with Variable Flip Angle  
 Echo Trains  
 Department of Radiology, Tokyo Women's Medical University  
 Medical Center East Katsuya Matsuzawa
1030. Evaluation of Fat Suppression with Slice Selection Gradient Reversal for  
 Diffusion Weighted Imaging  
 Department of Radiological Technology, Steel Memorial Yahata Hospital  
 Tsuyoshi Oshita
1031. Oxygen-enhancement MR Imaging: How to Advance of Phantom Study  
 Department of Diagnostic Radiology, Division of Diagnostic Imaging  
 Kobe University Hospital Katsusuke Kyotani
- MR Clinical technique 15 : 50~16 : 20  
 Moderator: Yasuhiro Fujiwara (Kumamoto University)
1032. Study of the Factors Affecting Image Quality of Coronary MRA  
 Department of Radiology, Akita City Hospital Masaaki Yamada

1033. Influence of Flow in T1 Value Measurement of Blood for the Calculation of Extracellular Volume Fraction(ECV) Map  
Department of Radiology, Fukushima Medical University Hospital  
Hideaki Takasumi
1034. Simulation of Blood Signal in Non-contrast-enhanced MR Angiography with Three-dimension Fast Spin-echo Sequence  
Department of Radiology, Kagawa University Hospital Takuya Kobata
1035. Study of Fat Fraction Values Using a 3D Multi Echo Dixon by MRI:  
Comparison with the Dual Energy CT  
Department of Radiology, Tokyo women's Medical University  
Medical Center EAST Masami Hirata
1036. Comparison Study of WB Multiple Contrast Dynamic Enhancement MRI and SPECT on Detection of Bone Metastases at 3.0T  
Department of Radiology, Peking University People's Hospital, Beijing, China  
Wei Liu
1037. Match in the Hospital at the Time of an MRI Imaging to the Transdermal Absorbing Form Preparation  
Department of Radiology Higashisumiyoshi Morimoto Hospital  
Yasushi Sakaguchi

Nuclear Medicine SPECT (brain imaging / quantitative analysis) 16 : 20~16 : 50  
Moderator: Takahiro Natsume (Fujita Health University)

1038. Evaluation of Cerebral Blood Flow Imaging Using Collimator Broad Correction Ordered Subsets Expectation Maximization  
Department of Radiology, Nakamura Memorial Hospital Akihiro Kaneko
1039. The Influence of the Reconstruction Methods and Scattered Radiation Correction on Specific Binding Ratio of Striatal Dopamine Transporter Imaging with <sup>123</sup>I-Ioflupane SPECT  
Department of Radiology, Aijinkai Healthcare Corporation  
Chibune General Hospital Takeshi Todoroki
1040. Basic Study for Quantification of SPECT/CT  
Department of Radiation Technology,  
Kobe City Medical Center General Hospital Atsuhisa Ogawa
1041. Difference of a Radioisotope Effects to the Quantitative Values  
Department of Radiology, Shimane University Hospital Masahiro Miyai
1042. Examination of the CT Attenuation Correction Using the Point Source Marker in the Striatum Imaging  
Department of Radiology, Miyazaki University Hospital Takahiro Yamashita

**April 16 (Sat.) N101**

Radiotherapy 10 : 50~11 : 20  
Moderator: Hidekazu Nanbu (Nara hospital Kinki university faculty of medicine)

2001. Thinslice DRR for IGRT Reference Image  
Department of Radiology, Sendai Kousei Hospital Mitsuya Abe



2002. Evaluation of CT Image Quality in HDR Prostate Cancer Brachytherapy  
 Department of Radiology, The Jikei University School of Medicine  
 Mami Okajima
2003. Fundamental Study of Field Size Dependence in Various Ionization Chambers  
 and Glass Dosimeter  
 Department of Radiology, Tottori University Hospital Hitohiro Nishitani
2004. withdrawn
2005. Measurement of Displacement Effect of a Cylindrical Ionization Chambers  
 with High Energy Photon Beams  
 Department of Medical Physics & Biomedical engineering, Gono University,  
 Dhaka, Bangladesh Naima Jannat
2006. withdrawn
- X-ray 14 : 30~15 : 00  
 Moderator: Hiroyuki Miyake (Kawasaki Municipal Ida Hospital)
2007. The Influence Caused by the Infusion of Insufficient Contrast Media in CBCT Image  
 Department of Radiology, Osaka City University Hospital Yoshinori Takao
2008. Integrity Verification of the Contrast Value with the Diluted Contrast Medium  
 Using the Injector  
 Division of Radiation Oncology,  
 Institute of Biomedical Research and Innovation Sho Taniuchi
2009. Create a Prototype Model of Barium Enema Simulator  
 Department of Radiological Science, Tokyo Metropolitan University  
 Tomokazu Numano
2010. Study of New Radiography Angle in Cervical Spine Opening Position  
 Showa University Hospital Kazushige Aridome
2011. An Assessment of Perioperative Motion of Thoracis in Total En Bloc  
 Spondylectomy Using Dynamic Radiography  
 Kanazawa University Hospital Division of Radiological Technology  
 Shinsuke Hanaoka
- CT Contrast material 15 : 00~15 : 30  
 Moderator: Shingo Kayano (Sapporo Shiroishi Memorial hospital)
2012. A Pilot Study of New Monoenergetic Imaging for Improve Contrast Effect  
 Department of Radiology, juntendo University urayasu Hospital Noboru Hojo
2013. A Study of Optimization in Monochromatic Image Energy Level on Fast kV  
 Switching Dual Energy Scan in Cases of Low-dose Contrast  
 Department of Radiological Technology, JA Onomichi General Hospital  
 Yoshinori Kawamoto
2014. Usefulness of Low Tube Voltage CT Angiography in Obese Body  
 Department of Radiology, Tokai University Hospital Hiroshi Honda
2015. Investigation of Reduction in Dose and Contrast Agent by Low kV Scan in  
 Clinical Use  
 Department of Radiology, Ishikawa Hospital Hironobu Shibutani

2016. A Study of the Reduction in Dose of Contrast Medium by Using Fast kV Switching Dual-energy Scan on the Aortic CT  
Department of Radical Tecnology, Onomichi General Hospital  
Tomokatsu Tsukamoto

CT Basic study 15 : 30~16 : 00

Moderator: Tomoaki Kozawa (Aomori City Hospital)

2017. Comparative Evaluation of Physical Properties Due to the Difference in Image Reconstruction Algorithm

Department of Radiology, Kitasato University Hospital Naomichi Hayakawa

2018. In the Successive Approximation Applications Image Reconstruction of SSP Measurement of Helical Scan

Center for diagnostic imaging, Ohara general hospital affiliated Ohara Medical Center Kouji Hashimoto

2019. Image Evaluation of MPR Display Using Multi-slice CT

Chulalongkorn University Siranyapong Suwan-o-pas

2020. Fundamental Study of Vascular Diameter Measurement by Using the Profile Curve Half Width in Contrast CT Image

Department of Radiology, Kawasaki Medical School Hospital  
Kenichiro Kameyama

CT Performance evaluation 3 16 : 00~16 : 30

Moderator: Takeshi Inoue (Nara Medical University Hospital)

2021. A Study of Contrast Medium Injection in Coronary CT Using 192 Dual Source CT  
Department of Radiology, Saga University Hospital Satoshi Takita

2022. Usefulness of Fenestrated Catheters at the Pediatric Cardiac CT Angiography

Tuchiya General Hospital Yukari Yamashita

2023. Relevance of Positioning Accuracy and CT-AEC in Chest Abdomen CT

Department of Medical Technology, Tsuchiya General Hospital  
Yoriaki Matsumoto

2024. Evaluation of Acquired CT Images Using a Single Energy Metal Artifact Reduction Algorithm and Dual Energy Scan in an Artificial Hip Joint Phantom

The University of Tokyo Hospital Kenji Ino

2025. The Study of Examination Performed an Image Reconfiguration and Processing in Dual Energy CT for Nail Denaturation

Department of Central Radiology, Saitama City Hospital Narumi Nonoura

Radiation Technology device 16 : 30~17 : 00

Moderator: Tomokazu Shouji (The Jikei University Kashiwa Hospital)

2026. Report Based on Fiscal 2015 Diagnostic X-ray Equipment Questionnaire Survey;Status Quo of X-ray Equipment Management

Department of Radiology, NTT Medical Center Tokyo Hiroaki Nakamura

2027. Report Based on Fiscal 2015 Diagnostic X-ray Equipment Questionnaire  
Survey; Status Quo of X-ray Equipment

Department of Diagnostic Radiology, Kawasaki Municipal Ida Hospital  
Hiroyuki Miyake

JUST

## Product Exhibition Presentation

April 16 (Sat.) Marine Lobby

Product Exhibition Core Time 11 : 00~11 : 45, 14 : 00~15 : 00

1. Accident Prevention during Screening Examination for Gastric Cancer  
Shibata Hospital Yukinori Okamoto
2. Three Modality Image Registration of Brain Single-photon Emission Computed Tomographic/Computed Tomographic and Magnetic Resonance Images for 123I-fluoropropyl-beta-carbomethoxy-3 Beta-(4-iodophenyl)Tropane Imaging  
Department of Intelligent Image Information,  
Gifu University Graduate School of Medicine Yuta Takeda
3. Statistical Image Analysis in Torso Fluodeoxyglucose Positron Emission Tomographic Imaging  
Department of Intelligent Image Information,  
Gifu University Graduate School of Medicine Kenshiro Takeda
4. Elastic Organ Models by Using 3D Printed Mold from MR Images  
Department of Intelligent Image Information,  
Gifu University Graduate School of Medicine Sayed A.Z.B.S. Aluwee
5. Create a Prototype Model of Barium Enema Simulator  
Department of Radiological Science,  
Tokyo Metropolitan University Tomokazu Numano

# JSMP Program

## (A) Plenary Lectures [JSMP-JSRT Joint Session]

(1) April 15 (Fri) 11:00-11:50 (503)

Moderator: Kumamoto Univ. Fujio Araki

New concepts in CT dosimetry

Invited Speaker: Univ. of California, Davis Medical Center, USA John M. Boone

(2) April 15 (Fri) 14:40-15:30 (503)

Moderator: Teikyo Univ. Shinji Kawamura

Integrated MRI-Linacs: A new weapon in the battle against cancer

Invited Speaker: Univ. of Sydney, Australia Paul Keall

## (B) Morning Educational Lectures

(1) April 15 (Fri) 8:15-8:55 (418, 419)

Moderator: The Univ. of Tokyo Hosp. Akihiro Haga

An introduction to Bayesian data analysis

Invited Speaker: Teikyo Univ. Jun'ichi Kotoku

(2) April 16 (Sat) 8:15-8:55 (418, 419)

Moderator: Hiroshima Heiwa Clinic Kaoru Ono

Foundations of diffusion MR Image analysis

Invited Speaker: Hiroshima City Univ. Yoshitaka Masutani

(3) April 17 (Sun) 8:15-8:55 (418, 419)

Moderator: Kyushu Univ. Hidetaka Arimura

The technologies of digital color image analysis for quantitative pathology

Invited Speaker: Tokyo Institute of Technology Masahiro Yamaguchi

## (C) Lunch Time Lecture (Educational Lecture)

(1) April 15 (Fri) 12:00-12:50 (418, 419)

Moderator: NIRS Shigekazu Fukuda

Image guided application in radiation therapy

Invited Speaker: The Catholic University of Korea, Korea Tae-Suk Suh

(2) April 16 (Sat) 12:00-12:50 (418, 419)

Moderator: Kansai Rosai Hosp. Kazutoshi Yabuta

Laser-driven particle acceleration and its potential for medical applications

Invited Speaker: Japan Atomic Energy Agency Yuji Fukuda

(3) April 17 (Sun) 12:00-12:50 (418, 419)

Moderator: Kyoto Univ. Yoshitomo Ishihara

Prediction of treatment response of radiation therapy using nuclear medicine

Invited Speaker: Kyushu Univ. Shingo Baba

#### (D) JSMP & JSRT Joint Symposium

April 16 (Sat) 14:30-17:00 (F201・202)

Current status of real-time tumor tracking therapy

Moderator: The Univ. of Tokyo Hosp. Akihiro Haga  
Tohoku Univ. Noriyuki Kadoya

1. Real-time radiotherapy: motion management from bench to bedside  
Univ. of Sydney, Australia Paul Keall
2. Respiratory motion management in locally advanced pancreatic cancer  
Kyoto Univ. Mitsuhiro Nakamura
3. Real-time tumor-tracking radiotherapy (RTRT) system and development of database system for inter-fractional organ motion estimated by RTRT  
Hokkaido Univ. Hosp. Ryusuke Suzuki
4. Carbon-ion pencil beam scanning treatment with gated real-time markerless tumor tracking

NIRS Shinichiro Mori

#### (E) The 111<sup>th</sup> JSMP Symposium

April 17 (Sun) 13:00-14:40 (418, 419)

Application of Monte Carlo simulation in medical physics

Moderator: Tokyo Metropolitan Univ. Hidetoshi Saitoh  
Kitasato Univ. Tomoyuki Hasegawa

1. Application of Monte Carlo simulation in photon radiation therapy  
Kumamoto Univ. Takeshi Ohno
2. Particle therapy  
Nagoya Proton Therapy Center Toshiyuki Toshito
3. Monte Carlo simulation in nuclear medicine  
Kyushu Univ. Toshioh Fujibuchi
4. Dose evaluation of X-ray CT using Monte Carlo simulation and introduction of WAZA-ARI

NIRS Yusuke Koba

5. Discussion

#### (F) Dose calibration session

April 15 (Fri) 17:20-18:00 (418)

Separated calibration service of ionization chambers and electrometers

Moderator: Chiba Cancer Center Toru Kawachi

- (1) An outline of separated calibration service currently under development  
Association for Nuclear Technology in Medicine Nobuhiro Takase
- (2) Electrometer calibration coefficients in pulsed radiation beams from a clinical linac  
National Metrology Institute of Japan, AIST Morihito Shimizu
- (3) Notification of firmware updates for Ramtec Duo reference dosimeter  
Development Group R&D Div., TOYO MEDIC CO., Ltd. Hideki Yamaoka

[JSMP-JSRT Joint Session]

(G) How to get Grants-in-Aid, -Research field "Medical Physics and Radiological Technology"

April 15 (Fri) 9:00-10:30 (414+415)

Moderator: Osaka Univ. Masahiko Koizumi  
Kumamoto Univ. Junji Shiraishi

(1) Outline of Grants-in-Aid for Scientific Research(KAKENHI)

Ministry of Education, Culture, Sports, Science and Technology (MEXT)  
Yasuhito Suzuki

(2) How to prepare the application form for KAKENHI -From the viewpoint of an ex-primary judge-

Kyushu Univ. Hidetaka Arimura

(3) Toward a research grant application - from my experience -

National Cancer Center Hidenobu Tachibana

(4) The survey results for the acquisition of grants-in-Aid

Osaka Univ. Masahiko Koizumi

(5) An attitude to obtain grants-in-aid by a young researcher

Fujita Health Univ. Naoki Hayashi

(6) Apply the JSPS KAKENHI at a private clinic

Miyakojima IGRT Clinic Daisaku Tatsumi

[JSMP-JSRT Joint Session]

(H) RPT Doi Awards Ceremony and Winners' Lectures

April 17 (Sun) 12:00-12:50 (414+415)

General Moderator: RPT Editor-in-Chief Kunio Doi  
Moderator: Teikyo Univ. Shinji Kawamura

1) Diagnostic Imaging

Moderator: RPT Deputy Editor Sige-hiko Katsuragawa

RPT Vol.8, No.2

Aliased noise in X-ray CT images and band-limiting processing as a preventive measure

Tohoku Univ. Hosp. Kazuhiro Sato

2) MR, Nuclear Medicine and Informatics

Moderator: RPT Deputy Editor Tomoyuki Hasegawa

RPT Vol.8, No.1

Attenuation correction of  $^{111}\text{In}$  in planar images by use of dual energy, fundamental study by Monte Carlo simulation

Fujita Health Univ. Seiji Shirakawa

3) Radiation Therapy Physics

Moderator: RPT Deputy Editor Masahiro Endo

RPT Vol.8, No.1

Applicability of self-activation of an NaI scintillator for measurement of photo-neutrons around a high-energy X-ray radiotherapy machine

Kindai University Atomic Energy Research Institute Genichiro Wakabayashi

**[JCMP meeting]**

- (I) Brief meeting of the graduate course and employment for medical physicist  
April 16 (Sat) 13:00-14:10 (418)

Brief meeting of the graduate course and employment for medical physicist Host organization: The Japanese College of Medical Physics (JCMP)

The Japanese College of Medical Physics Shuichi Ozawa

**[JBMP meeting]**

- (J) Briefing on the activities for the national qualification of medical physicist  
April 16 (Sat) 13:00-14:00 (419)

Briefing on the activities for the national qualification of medical physicist

Japanese Board for Medical Physicist Qualification Kumiko Karasawa

**[Session for Students Studying in Japan]**

- (K) Are you satisfied with studying in Japan ?

April 16 (Sat) 11:00-11:50 (419)

International Affairs Committee Shuichi Ozawa

**[JSMP-JSMBE Joint Session]**

- (L) Exchange meeting with Japanese Society for Medical and Biological Engineering

April 17 (Sun) 11:00-11:50 (418)

Moderator: JSMP Shigekazu Fukuda

JSMBE Takeshi Shiina

- (1) Purpose of Joint Session and attraction of the World Congress

NIRS Shigekazu Fukuda

- (2) Introduction of JSMBE

Tokyo University Ichiro Sakuma

- (3) Introduction of topics about JSMBE research

Tokyo Women's Medical University Yoshihiro Muragaki

**JSMP Board of Directors**

April 14 (Thu) 12:00-17:00 (421)

**JSMP General Meeting of Members**

April 16 (Sat) 17:10-18:10 (419)

**General meeting of Japanese college of Medical physics**

April 16 (Sat) 18:10-19:10 (419)

**Various Committees**

**JSMP Official committees meeting**

April 14 (Thu) -April 17 (Sun)



**[General Session]** ★ : English Presentation

April 14 (Thu) PACIFICO Yokohama Conference Center 418

**1. Radiation Therapy (photon/electron) 1 (QA/Measurement 3) 13:00-14:00**

Moderator: Hidekazu Nambu

- O-001 Effect of source positional discrepancy on dose and dose distributions in Cobalt-60stereotactic radiosurgery units  
Fukui Prefectural Hosp. Hisato Nakazawa
- O-002 Verification of irradiation accuracy for the MLC on CyberKnife  
Toyota Memorial Hosp. Junji Suzuki
- O-003 Detection of jaw position during VMAT applied jaw tracking method using cine image  
Juntendo Univ. Toru Kawabata
- O-004 Kompeito-shot: A study of systematic error of verification system for three-dimensional beam alignment  
Hiroshima Univ. Masato Tsuneda
- O-005 Evaluation of Medi-module water-equivalent phantom  
National Center Cancer Hosp. East Yohei Takeda
- O-006 Development of a postal audit method for IGRT credentialing in multi-institutional clinical trials in Japan  
Saitama Medical Univ. International Medical Center Yu Kumazaki

**2. Radiation Therapy (photon/electron) 2 (IGRT/Respiratory gated therapy 1)**

14:00-15:00

Moderator: Masayori Ishikawa

- O-007 A concept of respiratory classification for the applicability to respiratory tracking treatment using respiratory tumor kinematics  
Osaka Univ. Yusuke Anetai
- O-008 The development of a hybrid motion sensor using position sensitive detector and infrared camera for respiratory-gated radiation therapy  
Kanagawa Cancer Center Kenji Shioiri
- O-009 Observation of the body surface motion for the respiratory management using laser based optical surface scanning system  
Seirei Hamamatsu General Hosp. Takuma Matsunaga
- O-010 Development of a time delay measurement system for gated radiotherapy  
Komazawa Univ. Tomoyuki Kurosawa
- O-011 Tumor tracking with a gimbaled linac system quality assurance using a light field  
HIPRAC Hideharu Miura
- ★ O-012 Automated localization of anatomical feature points in infrared ray-based range images of patient surfaces by using differential geometry  
Kyushu Univ. Mazen Soufi

### 3. Radiation Therapy (photon/electron) 3 (IGRT/Respiratory gated therapy 2)

15:10-16:10

Moderator: Shuichi Ozawa

- O-013 Development of cross-type carbon fiber antiscatter grid for cone beam computed tomography in radiation therapy  
Juntendo Univ. Keisuke Usui
- O-014 Artifact reduction processing of kV CBCT using the partial segmentation reconstruction method  
Tokyo Metropolitan Univ. Wataru Yokohama
- ★ O-015 Effect of breathing patterns on three-dimensional target position in X-ray fluoroscopic and four-dimensional cone-beam computed tomography imaging  
Kyoto Univ. Hiraku Iramina
- ★ O-016 Development of a framework for automated estimation of lung tumor locations in MV-CBCT images for target-based patient positioning in SBRT  
Kyushu Univ. Beppu Hosp. Satoshi Yoshidome
- ★ O-017 Reconstruction of megavoltage computed tomography with rapid scan time and extended field of view  
The Univ. of Tokyo Hosp. Taiki Magome
- ★ O-018 Time-ordered 4D cone-beam CT iterative reconstruction for pelvic region  
Tokyo Univ. Masahiro Nakano

### 4. Radiation Therapy (photon/electron) 4 (IGRT/Respiratory gated therapy 3)

16:10-17:00

Moderator: Yuji Nakaguchi

- O-019 A fundamental study of patient-setup based on the dose distribution during a course of radiotherapy  
Tohoku Univ. Suguru Dobashi
- O-020 Analysis of the effects of inter-fractional motion on dose distributions in intensity-modulated radiotherapy of prostate cancer  
Tohoku Univ. Ryohei Kato
- O-021 Analysis for the pressure level and intra-fractional motion using a mask system in intra-cranial treatment  
Saiseikai Imabari Hosp. Hiroki Inata
- O-022 A study for quantification of actual patient dose for MVCT with helical tomotherapy unit using general treatment planning system  
Shonan Kamakura General Hosp. Hironori Nagata
- O-023 The energy spectra of the MV images by electron mode of linear accelerator  
Tokyo Metropolitan Univ. Atsushi Myojoyama

## 5. Radiation Therapy (photon/electron) 5 (Radiation biology/Other)

17:00–17:50

Moderator: Hajime Monzen

- O-024 Determination of the cell survival curve considering the lethal lesion number per nucleus after irradiation  
Hokkaido Univ. Ryota Yamada
- O-025 SimCell: The virtual cell Monte Carlo simulator for radiation therapy  
Miyakojima IGRT Clinic Hiroya Shiomi
- ★ O-026 Assessment of early tumor response to chemoradiotherapy based on repeated FDG-PET images: from lung cancer to head and neck  
Karolinska Institutet, Sweden Marta Lazzeroni
- ★ O-027 Estimation of cell-killing based on the probability density of DNA contents in cell population  
Hokkaido Univ. Yusuke Matsuya
- ★ O-028 Radiobiological modelling of tumour response in search for optimal radiotherapy treatment parameters: the impact of time, dose and fractionation  
Stockholm Univ., Sweden Emely Lindblom

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## 6. Radiation Therapy (heavy particle) 1 (Irradiation technique 1) 13:00–13:50

Moderator: Kyo Kume

- ★ O-030 Benchmarking of proton spot scanning beam at Skandion clinic with the Monte Carlo code MCNP6  
Stockholm Univ., Sweden Oscar Ardenfors
- ★ O-031 The development of a proton-beam grid therapy (PBG T)  
Stockholm Univ., Sweden Thomas Henry
- ★ O-032 A development of a ripple filter for proton line scanning  
Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguchi
- ★ O-033 Development of new Carbon-Knife treatment system  
Gunma Univ. Keawsamur Mintra
- ★ O-034 Design and development of CT-based three-dimensional image guided adaptive proton therapy  
The National Cancer Center Hosp. East Hidenobu Tachibana

## 7. Radiation Therapy (heavy particle) 2 (Irradiation technique 2/Other)

13:50–14:40

Moderator: Masataka Komori

- O-035 Evaluation of wide-angle scattering generated by beamline components in case of proton beam spot scanning method  
Hokkaido Univ. Hideaki Ueda
- O-036 Improvement of dose uniformity with spiral wobbler method at SAGA HIMAT Foundation  
SAGA HIMAT Takeshi Himukai

- O-037 A novel shape ridge filter for particle beam therapy  
Hitachi, Ltd. Taisuke Takayanagi
- O-038 Commissioning status of new carbon-ion radiotherapy facility i-ROCK (2)  
Kanagawa Cancer Center Shinichi Minohara
- O-039 Trial of on-site audit for carbon ion radiotherapy facilities  
NIRS Hideyuki Mizuno

**8. Radiation Therapy (heavy particle) 3 (Biological effect) 14:50–15:50**

Moderator: Taeko Matsuura

- ★ O-040 Optimization of the spread-out bragg peak (SOBP) design considering the oxygen effect  
Gunma Univ. Athena Evalour S. Paz
- ★ O-041 Microdosimetric approach to the modelling of oxygen effect for the inclusion in treatment planning for charged particle therapy  
NIRS Cécile Bopp
- ★ O-042 The impact of a variable RBE for different combinations of dose, LET and  $\alpha/\beta$  in proton therapy  
Stockholm Univ., Sweden Jakob Ödén
- ★ O-043 A treatment planning comparison of radiation therapy with either photon- or proton-beams for stomach and liver cancer  
Stockholm Univ., Sweden Gracinda Mondlane
- O-044 NTCP parameter of mucositis in head and neck cancer patients treated by carbon ion radiotherapy.  
Gunma Univ. Kyohei Fukata
- O-045 Radioprotection of methionine from plasmid DNA damage by carbon ion beam  
Kitasato Univ. Katsunori Yogo

**9. Radiation Therapy (heavy particle) 4 (Dosimetry/Measurement) 15:50–16:40**

Moderator: Makoto Sakama

- O-046 Luminescence imaging of water during proton-beam irradiation for range estimation  
Nagoya Univ. Seiichi Yamamoto
- O-047 Evaluation of the physical characteristics of grids of carbon microbeams for use in microbeam radiation therapy with the PHITS code  
Osaka Univ. Toshiro Tsubouchi
- ★ O-048 Modeling of recombination characteristics in heavy-ion dosimetry with a track structure model (3)  
Tokyo Institute of Technology Minoru Tatebayashi
- O-049 Measurement of radiation quality of therapeutic carbon ion beams using a silicon detector  
Gunma Univ. Kohei Osaki
- O-050 Investigation of beam component measurement using polymer gel detector for neutron capture therapy 2  
Hiroshima Univ. Kenichi Tanaka

10. Radiation Therapy (heavy particle) 5 (QA/Other) 16:50-17:40

Moderator: Teiji Nishio

- ★ O-051 Water equivalent length calibration for a carbon CT system  
Gunma Univ. Sung Hyun Lee
- ★ O-052 In-beam OpenPET imaging simulation based on patient data  
NIRS Hideaki Tashima
- ★ O-053 Optimization of  $^{15}\text{O}$  beam for in-beam PET imaging  
NIRS Akram Mohammadi
- O-054 Measurement of the production cross-section in target nuclear  
fragmentation reactions for proton therapy(2)  
Rikkyo Univ. Keiichiro Matsushita
- O-055 Basic development of an Electron-Tracking Compton Camera for  
monitoring a prompt gamma ray in Particle beam therapy  
Tokai Univ. Shigeto Kabuki

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11. Radiation Therapy (photon/electron) 6 (Radiation treatment planning 1)

9:10-10:00

Moderator: Satoru Sugimoto

- O-056 Acceleration of Monte Carlo simulation of scattered photons in a  
cone-beam CT for radiation therapy  
Hosei Univ. Hiroaki Suzuki
- O-057 Consideration of a dose distribution in a joint of a parapat irradiation  
field and an irradiation field on the collarbone  
Saga National Hosp. Yukio Inoue
- O-058 Improvement of calculation accuracy in photon transport using the  
lattice Boltzmann method  
Tokyo Metropolitan Univ. Takahito Chiba
- O-059 Comparison of dose calculation algorithms in lung stereotactic body  
radiation therapy  
Fukuoka Tokushukai Medical Center Shigeo Anai
- ★ O-060 Algorithm performance evaluation: gradient-descent, simulated  
annealing, and hybrid method for finding an optimum of a function  
Kyushu Univ. Mohammad Haekal

12. Radiation Therapy (photon/electron) 7 (Radiation treatment planning 2)

10:00-10:50

Moderator: Iori Sumida

- O-061 Transference of IMRT planning data to the different site: from 10mm-  
width-MLC to 5mm-width-MLC  
Kawasaki Saiwai Hosp. Saori Itoh
- ★ O-062 Cumulative segmental MU-weighted field edges for estimating the  
deviation in the absolute dose verification of Intensity-Modulated  
Radiation Therapy  
Hiroshima Univ. Hosp. Akito Saito

- ★ O-063 Impact of VMAT dose calculations with respiratory movements in lung  
Kumamoto Univ. Kazuki Komatsu
- ★ O-064 Integral dose to normal structures from cervix rapid-arc radiotherapy  
planning  
Rajiv Gandhi Cancer Institute & Research Center, India Lalit Kumar
- ★ O-065 Development of knowledge-based NTCP prediction tools for IMRT  
treatment planning  
Niigata Univ. Medical and Dental Hosp. Satoshi Tanabe

### 13. Radiation Therapy (photon/electron) 8 (Radiation treatment planning 3)

11:00–11:50

Moderator: Satoru Utsunomiya

- ★ O-066 Analysis of multicenter contouring data for stereotactic radiosurgery  
Stockholm Univ. and Karolinska Institutet, Sweden Helena Sandström
- ★ O-067 An approach for evaluation of dose distributions in intensity modulated  
radiotherapy planning for prostate cancer  
Kyushu Univ. Ryosuke Asamura
- O-068 Study of model creation to be used in the Knowledge based planning  
Seirei Hamamatsu General Hosp. Yumiko Adachi
- O-069 Comparison of irradiation time and dose distribution for cases with  
different jaw width via tomotherapy  
Radiation Therapy Center, Koga21 Hosp. Shigeki Kitajima
- O-070 Comparison of CyberKnife treatment times:fixed,iris,MLC  
Toyota Memorial Hosp. Hironori Takahashi

### 14. Radiation Therapy (photon/electron) 9 (Radiation treatment planning 4)

15:40–16:30

Moderator: Shinichiro Mori

- O-071 Estimation of internal deformation using boundary conditions and  
optimum organ material parameters  
Teikyo Univ. Shinobu Kumagai
- ★ O-072 Quantification of imaging doses from four-dimensional computed  
tomography scans with orthogonal dual source kV X-ray tubes  
Kyoto Univ. Mitsuhiro Nakamura
- O-073 Does dual-kV subtraction of CT images for electron density calibration  
offer a virtual 1-MeV CT image?  
Niigata Univ. Masatoshi Saito
- ★ O-074 Theoretical consideration of material decomposition with prior  
information compressed sensing  
The Univ. of Tokyo Hosp. Akihiro Haga
- O-075 Design and development of ventilated and non-rigid phantom  
quantitatively evaluating CT-based pulmonary ventilation imaging  
Univ. of Komazawa Shin Miyakawa

15. Radiation Therapy (photon/electron) 10 (IMRT/VMAT) 16:30-17:20

Moderator: Takehiro Shiinoki

- O-076 Dose calculation accuracy for volumetric modulated arc therapy in multiple brain metastases  
Kumamoto Radiosurgery Clinic Hirofumi Tominaga
- O-077 Attempt to visualization of impact on IMRT dose distribution by MLC parameter value  
Univ. of Niigata Ayami Numata
- O-078 Comparison of the peripheral dose due to different IMRT techniques for pediatric head and neck radiation therapy  
Kagoshima Univ. Medical and Dental Hosp. Masahiko Toyota
- ★ O-079 An optimization model for VMAT technique based exclusively on patient image data  
Univ. of Stockholm, Sweden Ana Ureba
- ★ O-080 Evaluation of the statistical dose-uncertainty in prostate VMAT  
Juntendo Univ. Urayasu Hosp. Tatsuya Inoue

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16. Diagnostic Imaging (X-Ray/CT) 1 9:10-10:00

Moderator: Shinichi Wada

- O-081 Adaptive Statistical Iterative Reconstruction in X-ray CT for Visualization of Acute Ischemic Stroke  
Kitasato Univ. Hidetake Hara
- O-082 Generating nodule-like object functions for evaluating CAD performance in lung cancer CT screening  
Niigata Univ. Akihiro Narita
- ★ O-083 Accurate volume measurement for lung nodule in CT image by Deconvolution method  
Niigata Univ. Hideyoshi Sugawara
- O-084 Investigation of plane depiction performance in mammography tomography  
Nagasaki Harbor Medical Center City Hosp. Yoshihiro Tokita
- O-085 Image fusion of a dental CT image with a face image  
Hosei Univ. Kohei Kawai

17. Diagnostic Imaging (X-Ray/CT) 2 10:00-10:50

Moderator: Masao Matsumoto

- O-086 Dual-energy computed tomography system utilizing a silicon X-ray diode and an energy-selecting device  
Iwate Medical Univ. Hosp. Yuichi Sato
- O-087 Dual-energy X-ray computed tomography system using a CdTe detector and two energy-selecting devices  
Iwate Medical Univ. Michiaki Sagae
- O-088 Spectral X-ray computed tomography system using a cadmium telluride detector  
Iwate Medical Univ. Eiichi Sato

- O-089 A novel photon counting CT operating at low dose using multi-pixel photon counter  
Waseda Univ. Hayato Morita
- O-090 Investigation of a metal artifact reduction using energy dispersive X-ray computed tomography  
Iwate Medical Univ. Satoshi Yamaguchi

## 18. Radiation Therapy (heavy particle) 6 (Radiation treatment planning)

10:50–11:50

Moderator: Hideyuki Takei

- O-091 Analyses of daily anatomical variation utilizing in-room CT system for prostate cancer proton therapy and the optimized treatment planning  
Fukui Prefectural Hosp. Yoshikazu Maeda
- O-092 Effectiveness of CT-based three-dimensional image guided adaptive proton therapy  
Komazawa Univ. Shunsuke Moriya
- O-093 Development of a GPU-based optimization method for dose distribution of proton beam scanning  
Mizuho Information & Research Institute, Inc Akira Sano
- O-094 Robustness analysis method with fast estimation of dose uncertainty distributions for carbon-ion therapy treatment planning  
NIRS Makoto Sakama
- O-095 The evaluation of proton plan robustness for spot scanning irradiation  
Hokkaido Univ. Hosp. Yuka Matsuzaki
- O-096 Commissioning of the eclipse proton<sup>TM</sup> treatment planning system for proton line scanning therapy  
Aizawa Hosp. Yuya Sugama

## 19. Radiation Therapy (heavy particle) 7 (Respiratory motion 1) 15:40–16:40

Moderator: Naoki Miyamoto

- O-097 Correlation between respiratory motion around body surface and diaphragm breathing motion with body immobilization devices in respiratory-gated carbon ion radiotherapy  
SAGA HIMAT Genyu Kakiuchi
- O-098 A dose comparison between real-time gated and free-breathing irradiation in spot scanning proton therapy for lung cancer  
Hokkaido Univ. Takahiro Kanehira
- O-099 The effect of irradiation delay time in respiratory gated passive proton therapy with fiducial marker  
Nagoya Proton Therapy Center Akira Shimomura
- O-100 Influence of intrafractional motion on the respiratory gated patching and matching techniques in proton beam therapy  
Southern Tohoku Proton Therapy Center Masato Kato



- O-101 The effect of a moving target to the dose at the field junction in a multi-patch technique for proton therapy  
Nagoya Univ. Takuya Yabe
- O-102 Rapid phase-correlated rescanning irradiation improves treatment time in carbon-ion scanning beam treatment under irregular breathing conditions  
NIRS Shinichiro Mori

**20. Radiation Therapy (heavy particle) 8 (Respiratory motion 2) 16:50–17:50**

Moderator: Suguru Dobashi

- O-103 Evaluation method for depth dose distributions using a multi-layer ionization chamber in respiratory gating irradiation for proton therapy  
Shizuoka Cancer Center Yuki Kase
- O-104 A comparison study of motion interplay effects between IMPT and SFUD in liver real-time-image gated, spot-scanning proton beam therapy  
Hokkaido Univ. Taeko Matsuura
- ★ O-105 Consequence of omitting image guidance in carbon ion radiation therapy  
Gunma University Heavy Ion Medical Center Daniel Bridges
- O-106 Feasibility study of fast cone-beam CT image acquisition with a dual-orthogonal fluoroscopic imaging system  
Hokkaido Univ. Hosp. Seishin Takao
- O-107 Basic verification of motion-target tracking technique using dual energy subtraction method  
Hokkaido Univ. Takaaki Fujii
- ★ O-108 Evaluation of high-precision automatic patient positioning system with fast calculation in carbon ion radiotherapy; patient study  
Univ. of Gunma Hayato Hayashi

April 16 (Sat) National Convention Hall

**Joint Symposium 2**

**Special Presentation Prelude 9:10–9:40**

Moderator: Shinichiro Mori

- ★ Development of kV X-ray imaging dose calculation system for image guided radiotherapy  
Kyoto Univ. Yoshitomo Ishihara

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**21. Radiation Therapy (photon/electron) 11 (QA/Dosimetry 2) 9:10–10:00**

Moderator: Naoki Hayashi

- ★ O-109 Quality assurance procedures of Dynamic WaveArc irradiation using electric portal imaging device  
Kyoto Univ. Hideaki Hirashima
- ★ O-110 Measurement of corneal doses during external beam radiotherapy of head and neck malignancies  
SMS Medical College, India Arun Chougule

- ★ O-111 Microdosimetric study focused on biological effect of flattening filter free beam  
Shizuoka Cancer Center Tatsuya Segawa
- O-112 Trying to accuracy improvement of independent MU verification using TG-114  
Toho Univ. Sakura Medical Center Teruo Ito
- O-113 Comparison in confidence limits between NCCHE and multi-institutional trial for independent MU verification  
Komazawa Univ. Shunta Jinno

## 22. Radiation Therapy (photon/electron) 12 (QA/Dosimetry 3) 10:00–10:50

Moderator: Hiroyuki Okamoto

- O-114 Investigation of the feasibility of in vivo EPID dosimetry for prostate cancer patients  
Tohoku Univ. Yoshiki Takayama
- O-115 A study of verification method of dose gradient using a micro type ionization chamber in prostate VMAT  
NTT Medical Center Tokyo Norihisa Osawa
- ★ O-116 Deblurring measured radiation profile using a Gaussian expansion method with a regularization term of first derivative  
Juntendo Univ. Satoru Sugimoto
- O-117 Consideration of reciprocity method of a parallel plate type dosimeter using an electron beam  
Iwate Prefectural Isawa Hosp. Koji Ishita
- O-118 Study of measurement method of bio-information using near infrared radiation  
Hiroshima Univ. Teiji Nishio

## 23. Brachytherapy 10:50–11:50

Moderator: Yutaka Takahashi

- O-119 Multi-institutional study of assessment of source dwell position in brachytherapy  
NCCCH Hiroyuki Okamoto
- O-120 Development of a deformable woman's pelvis phantom with physiological characteristics for evaluation of DIR accuracy using 3D-printer  
Tohoku Univ. Yuya Miyasaka
- O-121 Study of developing a quality control tool for high-dose-rate brachytherapy unit with light produced by iridium-192 source  
Kitasato Univ. Akihiro Matsushita
- O-122 Feasibility study of metal artifact reduction in gynecologic brachytherapy  
Ryukyus Univ. Masashi Kinjo
- ★ O-123 Influence of tissue heterogeneity on dose distributions in intracavitary brachytherapy for uterine cervical cancer with Monte Carlo simulation  
Kyushu Univ. Takahiro Iwasaki

- ★ O-124 Absorption and scattering effect from source capsules in  $^{125}\text{I}$  brachytherapy dose calculations.  
Kumamoto Univ. Kentarou Tamura

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24. Magnetic Resonance 1

9:10–10:00

Moderator: Masahiro Umeda

- ★ O-125 Optimization of the asymptotic analysis in intravoxel incoherent motion MRI  
Kyoto Univ. Yen-Peng Liao
- O-126 Scanning parameter dependence of crossing neuronal fiber depiction accuracy in Diffusion Spectrum Imaging  
Hokkaido Univ. Kazuya Oshinomi
- O-127 Ultra-high-field MR imaging of the human brain: spatially-inhomogeneous magnetization transfer effects in multislice acquisition  
NICT Takashi Ueguchi
- O-128 Quantitative accuracy of magnetic field distortion mapped by MRI  
Hokkaido Univ. Takahiko Kaneda
- O-129 Patient positioning to reduce RF heating of implanted materials  
Hokkaido Univ. Yu Kikuchi

25. Magnetic Resonance 2

10:10–10:50

Moderator: Hidetaka Arimura

- O-130 Two-dimensional compressed sensing MRI using cartesian sampling-computer simulation study  
Tokyo Metropolitan Univ. Hiroyuki Shinohara
- O-131 Two-dimensional compressed sensing MRI using radial sampling-computer simulation study  
Tokyo Metropolitan Univ. Hiroyuki Shinohara
- O-132 Development of learning tool for compressed sensing MRI  
Tokyo Metropolitan Univ. Hiroyuki Shinohara
- ★ O-133 Development of a PET/RF-coil integrated system for MRI: comparative MRI study for with- and without-PET modules  
NIRS Md Shahadat Hossain Akram

26. Nuclear Medicine 1

14:00–15:00

Moderator: Seiichi Yamamoto

- ★ O-134 In-beam OpenPET measurement of washout rate in rabbits using  $^{10}\text{C}$ ,  $^{11}\text{C}$  and  $^{15}\text{O}$  ion beams  
NIRS Chie Toramatsu
- O-135 Improved spatial resolution of the 4-layered DOI-PET detector by the quadrisectioned top layer crystals  
Chiba Univ. Genki Hirumi



- O-136 Feasibility study on novel depth-of-interaction detector using Vp/Q discrimination method  
Hokkaido Univ. Ryo Ogawara
- O-137 Simulation study on novel depth-of-interaction PET detector by the Vp/Q discrimination method using GEANT4 Monte Carlo code  
Hokkaido Univ. Ryo Ogawara
- ★ O-138 Feasibility study of a pixilated mouth-insert detector in the helmet PET  
NIRS Abdella M. Ahmed
- O-139 First healthy volunteer study of high sensitive helmet-chin PET prototype  
NIRS Eiji Yoshida

## 27. Nuclear Medicine 2

15:00–16:00

Moderator: Eiji Yoshida

- O-140 Development of attenuation correction method for helmet-chin PET prototype using CT images  
NIRS Yuma Iwao
- O-141 Evaluation of exposure amount of PET / CT examination at the time in Fukushima Medical University  
Fukushima Medical Univ. Takamitsu Hara
- O-142 Calibration of clinical PET scanners using a traceable Ge-68/Ga-68 point-like source with a spherical acrylic absorber  
Kitasato Univ. Shoji Koyama
- O-143 Monte Carlo simulation for the multi-pinhole SPECT  
Hosei Univ. Yutaro Hemuki
- O-144 Improving diagnosability of SPECT image by edge preserving smoothing filter  
Teikyo Univ. Susumu Nakabayashi
- ★ O-145 Y-90 bremsstrahlung imaging using compton camera  
Gunma Univ. Makoto Sakai

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## 28. Image (Processing/Analysis/Informatics)/Medical Informatics1 (Imaging simulation and reconstruction)

9:10–10:00

Moderator: Jun'ichi Kotoku

- ★ O-146 Geant4 simulation study of a compton-PET imaging system using advanced 3D positioning detectors  
NIRS Jianyong Jiang
- ★ O-147 withdrawn
- O-148 Effect of metal artifact reduction using continuous-time CT image reconstruction method  
Tokushima Univ. Shintaro Harano
- ★ O-149 The optimization of iteration numbers for CBCT used OSEM and image evaluation with NPS: comparison filtered back projection  
Sapporo Medical Univ. Hosp. Hiroki Shishido

- ★ O-150 Phase recognition system for tracking tumor using pre-4DCBCT in FFF mode: A markerless study  
University of Tokyo Ritu Bhusal Chhatkuli

**29. Image (Processing/Analysis/Informatics)/Medical Informatics2 (Novel radiation measurement and Medical imaging) 10:00–11:00**

Moderator: Akihiro Haga

- O-151 Production of gamma-ray spectrometer for education of radiation physics  
Kitasato Univ. Tomoe Maegaki
- O-152 Discrete tomographic image reconstruction using differential equation  
Shimane Prefectural Central Hosp. Kazuhiro Nakahama
- O-153 Automatic conversion of body surface 3D mesh model to ROI data with portable 3D scanner  
Mizuho Information & Research Institute, Inc. Makiko Suitani
- O-154 Development of a real time tumor tracking system in MV X-ray image using optical flow  
Kinki Univ. Yusuke Tenma
- O-155 Estimation of proton beam dose distribution by emission intensity from a fluorescent plate  
The Wakasa Wan Energy Research Center Fuyumi Ito
- O-156 Evaluation of the spatial resolution of heavy ion CT system using MTF by radial-edge method  
Kitasato Univ. Mamoru Yokose

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**30. Radiation Measurement 1 9:10–10:10**

Moderator: Yoshinobu Shimohigashi

- O-157 The influence of container size on polymer gel dosimetry  
Nagoya Univ. Yume Kojima
- O-158 Construction of optical CT system for evaluation of polymer gel dosimeters  
Ibaraki Pref. Univ. Hiraku Kawamura
- O-159 A potential uncertainty estimation in optical density to dose conversion for film-based dose analysis with Gradient method  
Hokkaido Univ. Masayori Ishikawa
- O-160 Depth dependence of TL response of Al<sub>2</sub>O<sub>3</sub> ceramic TLSD for 6 MV X-ray beam  
Tokyo Metropolitan Univ. Shin Yanagisawa
- ★ O-161 Study of dosimetric characteristics of a commercial OSL system  
SMS Medical College, India Arun Chougule
- ★ O-029 Thyroid dysfunction following therapeutic external radiation to head and neck cancer  
SMS Medical College, India Arun Chougule

### 31. Radiation Measurement 2

10:10-10:50

Moderator: Akihiro Nohtomi

- O-162 Application of Bayesian inference to the on-line neutron/gamma discrimination with a recoil-proton proportional counter.  
Univ. of Kyushu. Ryoko Matsuo
- O-163 Development of real-time gamma-ray spectrum / dose measurement system (1)  
Univ. of Osaka Mina Kobayashi
- O-164 Development of an all-sky RI imaging monitor capable of measuring high-dose-rate gamma-ray sources  
Kitasato Univ. Takara Watanabe
- ★ O-165 Development of an efficient application of a NaI survey meter system in a high dose rate environment  
The Wakasa Wan Energy Research Center Kyo Kume

### 32. Radiation Measurement 3

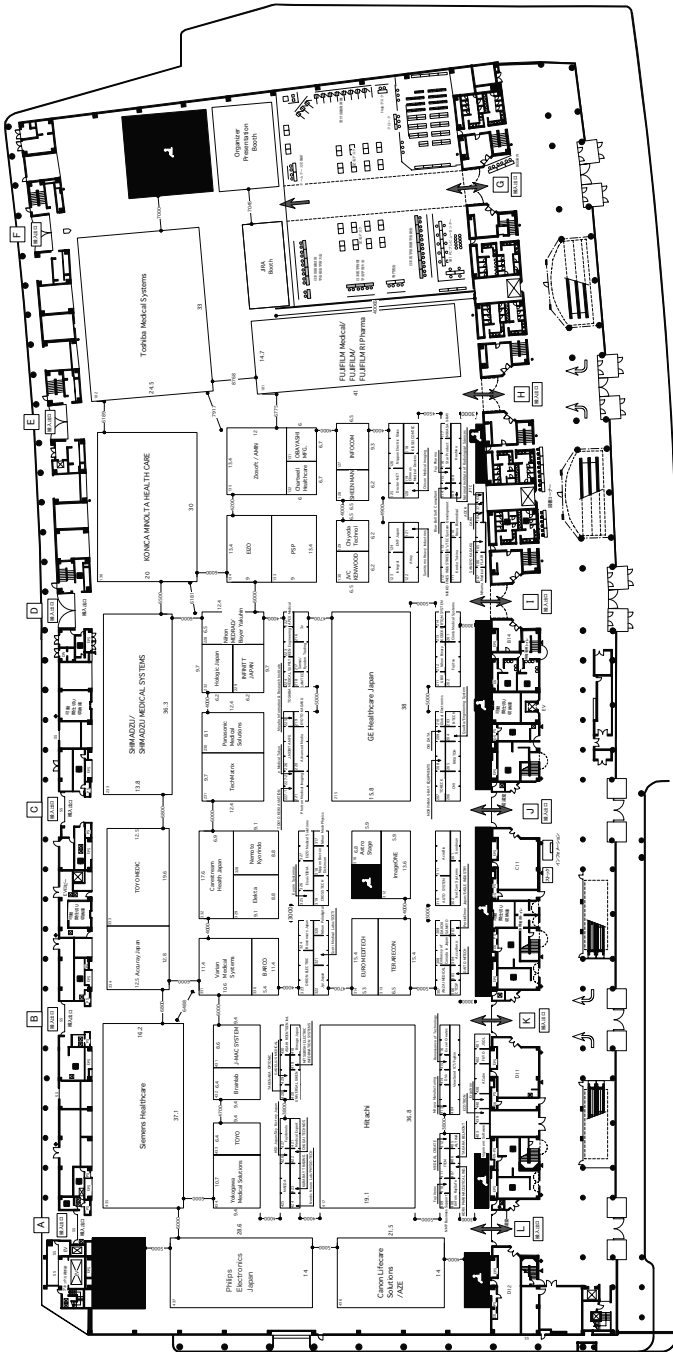
11:00-11:50

Moderator: Toru Kawachi

- ★ O-166 A comparison study of four patient dose indices for cone-beam computed tomography  
Kyushu Univ. Hidemi Kamezawa
- O-167 Gamma-ray dose measurement in neutron field using a radio-photoluminescence glass dosimeter  
Osaka Univ. Kosuke Hiramatsu
- O-168 Development of in-vivo dosimeter specialized for heavy-ion radiation therapy  
Tokyo Women's Med. Univ. Hiroaki Matsubara
- O-169 Evaluation of 1D-profile of wideband prompt gamma-ray emission and optimization toward on-line monitor for the future proton therapy  
Waseda Univ. Ayako Koide
- O-170 Comparison of the standards for absorbed dose to water of the NMIJ and the BIPM in high-energy photon beams  
NMIJ Morihito Shimizu

## Names of participating companies

3z Corporation  
 Accuray Japan K.K.  
 Accuthera Inc.  
 AcroBio Corporation  
 ACube Corporation  
 Advanced Media, Inc.  
 ALTIMA Corp.  
 ANZAI MEDICAL CO.,LTD.  
 APEX Medical, Inc.  
 Array Corporation  
 ASAHI ROENTGEN Ind. Co., Ltd.  
 The 16th Asian and Oceanian Congress of  
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 AstroStage Inc.  
 AUTO SYSTEM CO.,LTD. Medical Division  
 BARCO Co.,Ltd.  
 Biosensors Japan Co., Ltd.  
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 Brainlab K.K.  
 Canon Lifecare Solutions Inc./AZE, Ltd.  
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 e Medical Tokyo Co.,Ltd.  
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 ImageONE Co.,Ltd.  
 INFINITT JAPAN Co.,Ltd.  
 INFOCOM CORPORATION  
 Integral Corporation  
 ITEM Corporation  
 J.MORITA MFG. CORP.  
 The Japan Fair Trade Council of the Medical  
 Devices Industry (JFTC)  
 Japan Institute of Computer Assisted Radiology  
 and Surgery  
 J-MAC SYSTEM, INC.  
 Jpi Japan Co.,Ltd.  
 JSOL Corporation  
 JVC KENWOOD Corporation  
 Kenko Tokina Co.,Ltd.  
 KISSEI COMTEC CO.,LTD.  
 KONICA MINOLTA HEALTH CARE CO.,LTD.  
 KOSEKI Inc.  
 KURARAY TRADING Co.,Ltd.  
 Kyorin Systemac Co.,Ltd.  
 KYOTO KAGAKU CO., LTD.  
 K.K. LAMTEC  
 MAEDA & Co.,LTD.  
 MEDICAL CREATE Co.,Ltd.  
 Medical Expert,Inc.  
 Mihama Medical, Inc.  
 MIKASA X-RAY CO., LTD.  
 Mitaya Manufacturing Co.,Ltd.  
 MITSUBISHI ELECTRIC INFORMATION  
 SYSTEMS CORPORATION  
 Mizuho Information & Research Institute, Inc.  
 MORIYAMA X-RAY EQUIPMENTS CO.,LTD.  
 National Institute of Radiological Sciences  
 Nemoto Kyorindo Co., Ltd.  
 NetCam Systems Corporation  
 Nihon Binary Co., Ltd.  
 Nihon Medi-Physics Co.,Ltd.  
 Nihon MEDRAD K.K./Bayer Yakuhin, Ltd.  
 Nihon Poladigital K.K.  
 NIKKO FINES INDUSTRIES CO.,LTD.  
 Nippon Becton Dickinson Company,Ltd.  
 Nippon Electric Glass Co.,Ltd.  
 NMP Business Support Company, Limited.  
 Nordic Neuro Lab AS/Physio-Tech Co., Ltd.  
 Nova Biomedical K.K.  
 OBAYASHI MFG. CO., LTD.  
 OKI DATA CORPORATION  
 ORION ELECTRIC CO.,LTD.  
 Panasonic Medical Solutions Co.,Ltd.  
 PerkinElmer Japan Co.,Ltd./EAGLE INDUSTRY  
 CO., LTD.  
 Philips Electronics Japan,Ltd.  
 Photron Medical Imaging Inc.  
 ProMedica Inc.  
 PSP Corporation  
 Qualita corp./Engineering System Co., Ltd.  
 Renaissance of Technology Corporation  
 RIKUTOH CORPORATION  
 Rimage Japan Co.,Ltd  
 R-TECH,INC  
 RTQM system Inc.  
 SANGYO KAGAKU CO.,LTD.  
 Sansei Corporation/Ryoden Trading Co.,Ltd.  
 Sctei Medical Labo K.K./SCETI K.K.  
 SHEEN MAN CO.,LTD.  
 SHIMADZU CORPORATION/  
 SHIMADZU MEDICAL SYSTEMS CORPORATION  
 Siemens Healthcare K.K.  
 Star Product Limited  
 Sumitomo Heavy Industries, Ltd.  
 TAKARA BELMONT CORPORATION  
 TAKENAKA OPTONIC CO.,LTD.  
 TechMatrix Corporation  
 TERARECON,INC.  
 TOKYO KEIKI AVIATION INC.  
 TORECK Co.,Ltd.  
 TOSHIBA MEDICAL SUPPLY CO.,LTD.  
 TOSHIBA MEDICAL SYSTEMS CORPORATION  
 TOYO Corporation  
 TOYO MEDIC CO.,LTD.  
 UBIX Corporation  
 Unfors RaySafe K.K.  
 UNIVERSAL GIKEN CO.,LTD.  
 U'sTEC System Development Co.,Ltd.  
 Varian Medical Systems K.K.  
 ViewSend ICT Co.,Ltd./Fujikin Incorporated  
 Vigoment Software Corporation  
 Yokogawa Medical Solutions Corporation  
 Ziosoft, Inc. /AMIN,Inc.



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