

## I. Joint Sessions for Japan Radiology Congress

### Opening Ceremony

- Opening Ceremony: April 12 (Fri.) 13:00-15:00 (Main Hall)

Performance: Tokyo Olympic Fanfare (TOF)

Keynote lecture

President:	Yasuyuki Yamashita (Kumamoto University) The 78th Annual Meeting of the Japan Radiological Society (JRS)
Conference President:	Takayuki Ishida (Osaka University) The 75th Annual Meeting of the Japanese Society of Radiological Technology (JSRT)
Congress Chair:	Shinichi Minohara (Kanagawa Cancer Center) The 117th Scientific Meeting of the Japan Society of Medical Physics (JSMP)
Chairman:	Akio Niinobe Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

### Honorary Member Award Ceremony

- Honorary Member Award Ceremony: April 12 (Fri.) 13:50-14:30 (Main Hall)

Moderator: Yutaka Imai (Tokai Univ.)  
Yasuyuki Yamashita (Kumamoto Univ.)

James A. Brink (Massachusetts General Hospital, USA)

Jelle Barentsz (Radboudumc, Netherlands)

Ho-Young Song (Asan Medical Center, Korea)

### Joint Special Lecture

- Joint Special Lecture: April 12 (Fri.) 14:30-15:00 (Main Hall, Satellite:301)

Moderator: Yasuyuki Yamashita (Kumamoto Univ.)  
Takayuki Ishida (Osaka Univ.)

Development of Artificial Intelligence and Potentials to Medical and Healthcare Yutaka Matsuo (The Univ. of Tokyo)

### Joint Symposium

- Joint Symposium 1: April 12 (Fri.) 15:20-17:20 (National Convention Hall)

[Value-based Imaging : Future of Radiology in the Era of AI]

Moderator: Kanako Kumamaru (Juntendo Univ.)  
Akihiro Machitori (NCGM Kohnodai Hosp.)

1. What is Value-based Healthcare? Kanako Kumamaru (Juntendo Univ.)
2. Value-based Imaging: Patient's Perspective Kyoko Kitazawa (Kyoto Pharmaceutical Univ.)
3. The Role of Radiologists for the Proper Management of Medical Radiation Based on the Medical Care Act.  
Anri Inaki (Kanazawa Univ.)
4. Strategic Implications for Radiologists towards Investment in Health Yuji Yamamoto (MinaCare Co., Ltd.)
5. Value Based Imaging: Future of Radiology in the Era of AI Kei Yamada (Kyoto Prefectural Univ. of Medicine)

- Joint Symposium 2: April 13 (Sat.) 9:10-11:50 (National Convention Hall)

[Innovative Radiology with Artificial Intelligence (AI)]

Moderator: Hiroshi Fujita (Gifu Univ.)  
Norio Nakata (The Jikei Univ. School of Medicine)

1. Keynote Lecture Development of the Integrated Cancer Medical System Using Artificial Intelligence: Towards the Realization of Precision Medicine  
Ryuji Hamamoto (National Cancer Center)  
Kazuma Kobayashi (National Cancer Center)
2. New Trend of CAD (AI-CAD) in the New AI Era Hiroshi Fujita (Gifu Univ.)
3. Deep Learning in Computer-assisted Diagnosis: Current Status and Future Prospects of Overseas Research and Development  
Norio Nakata (The Jikei Univ. School of Medicine)
4. AI Researches in the Radiological Technology: Future Working Style of Radiological Technologist and an Encourage of AI Research Atsushi Teramoto (Fujita Health Univ.)
5. Application of Deep Learning in Radiotherapy Toshiyuki Terunuma (Univ. of Tsukuba)
6. Issues for Commercialization of Image Diagnostic Products Using Artificial Intelligence.  
Takeshi Funahashi (Japan Medical Imaging and Radiological Systems Industries Association)

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- Joint Symposium 3: April 13 (Sat.) 13:10-15:10 (Main Hall)

[Identify the Tumor - Approaching New Era of Biologically Adaptive Radiotherapy -]

Moderator: Makoto Shinoto (Kyushu Univ. Hosp.)

Naruhiro Matsufuji (NIRS-QST)

1. MRI Connecting Functions and Anatomy -a New Bridge for Radiotherapy- Mami Iima (Kyoto Univ.)

2. Nuclear Medicine for Optimized Treatment Strategy and Real-time Therapy Imaging

Miwako Takahashi (NIRS-QST)

3. Imaging of Tumor-specific Hypoxia Dynamics and Its Significance in Radiation Biology

Hironobu Yasui (Hokkaido Univ.)

4. Differential Diagnosis and Prognostic Prediction Based on Radiomics Yoshikazu Uchiyama (Kumamoto Univ.)

5. Dose and Radiation Quality Optimized Heavy-ion Therapy Taku Inaniwa (NIRS-QST)

### Joint Educational Session

- Diagnostic and Therapeutic Indications of Brain Tumor: April 12 (Fri.) 9:30-11:30 (National Convention Hall)

Moderator: Yukio Miki (Osaka City Univ.)

Kohei Hanaoka (Kindai Univ.)

1. Updated 4th Edition of the WHO Brain Tumor Classification: What Radiologists are Desired to Know

Hideaki Yokoo (Gunma Univ.)

2. Recent Development of MR Imaging for Brain Tumor

Toshinori Hirai (Miyazaki Univ.)

3. Neurosurgical Treatment ? Surgical Resection, Chemotherapy, and Other Modalities

Akitake Mukasa (Kumamoto Univ.)

4. Radiation Therapy

Hidefumi Aoyama (Niigata Univ.)

5. Brain Tumor Imaging

Masaaki Kajisako (Kyoto Univ. Hosp.)

6. BNCT for Brain Tumor Treatment - From a View Point of Medical Physicist - Masayori Ishikawa (Hokkaido Univ.)

### JRS · JSRT · JSMP Joint Project (Cooperation: Medical Imaging and Information Sciences) Deep Learning Hands-on Seminar

- Deep Learning Hands-on Seminar: April 12 (Fri.) 8:00-9:30 (Harbor Lounge A)

April 13 (Sat.) 15:30-17:00 (Harbor Lounge A)

April 14 (Sun.) 8:45-10:15, 10:30-12:00, 13:00-14:30 (Harbor Lounge A)

Moderator: Takeshi Hara (Gifu Univ.)

Yongbum Lee (Niigata Univ.)

1. Medical Image Application of Deep Learning

Hiroshi Fujita (Gifu Univ.)

2. Image Classification Using Convolutional Neural Network with TensorFlow & Keras

Takeshi Hara (Gifu Univ.)

3. BYOD! Quick Setup for Deep Learning Using TensorFlow & Keras

Takeshi Hara (Gifu Univ.)

4. Deep Learning for Image Segmentation

Yongbum Lee (Niigata Univ.)

### Reception for All Participants (Congress Party)

- Reception for All Participants (Congress Party): April 12 (Fri.) 18:15-19:30

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

### Closing and Awards Ceremony

- Closing and Awards Ceremony: April 14 (Sun.) 15:00-16:15 (Main Hall)

Performance: JRC2019 Festival Orchestra

## II. JRS Activities

### Honorary Invited Lecture

- Honorary Invited Lecture: April 12 (Fri.) 15:20-16:30 (303)

Moderator: Yutaka Imai (Tokai Univ.)  
Sadayuki Murayama (Univ. of the Ryukyus)

1. The Future of Radiology—Key Drivers for the Next Five Years  
James A. Brink (Massachusetts General Hospital, USA)
2. How Novel Imaging Techniques Will Change the Fate of Prostate Cancer Patients.  
Jelle Barentsz (Radboudumc, Netherlands)
3. Evolution of Esophageal Stents: 8 Generations of Trial and Error  
Ho-Young Song (Asan Medical Center, Korea)

### International Communication

- Introduction of RSNA (video lecture): April 11 (Thu.) 17:00-18:00 (311+312)

「How to Publish in Radiology」

David Bluemke (University of Wisconsin School of Medicine and Public Health, USA)

- Introduction of ESR: April 12 (Fri.) 9:10-9:40 (315)

「ESR - The European Society of Radiology」

Moderator: Kojiro Suzuki (Aichi Medical Univ.)  
Michael Fuchsjaeger (Medical University Graz, Austria)

- AOSOR-JRS Conjoint Session (Musculoskeletal Imaging): April 11 (Thu.) 14:45-16:45 (302)

「Musculoskeletal Imaging」

Moderator: Yoshiyuki Watanabe (Osaka Univ.)  
Mamoru Niitsu (Saitama Medical Univ. Hosp.)  
Yoshiyuki Watanabe (Osaka Univ.)

1. Introduction
2. Imaging of Traumatic Muscular Lesions  
Yoshiko Hayashida (Univ. of Occupational and Environmental Health)
3. Osteoporotic Vertebral Fracture  
James F Griffith (The Chinese University of Hong Kong, China)
4. Imaging of Vascular Malformations  
Nuttaya Pattamapasong (Chiang Mai University, Thailand)
5. Imaging of Rheumatoid Arthritis  
Tamotsu Kamishima (Hokkaido Univ.)
6. MR Imaging of Articular Cartilage  
Steven Wong Bak Siew (Sengkang General Hospital, Singapore)

- The 4th Asia Radiology Summit: April 12 (Fri.) 10:00-12:00 (2nd Basement Floor Ambassador's Ballroom)

「Current Projects of Radiological Societies in Asia」

Moderator: Noriyuki Tomiyama (Osaka Univ.)  
Kei Yamada (Kyoto Prefectural Univ. of Medicine)

- Joint Symposium with KCR (KCR-JRS Conjoint Session): April 13 (Sat.) 15:30-16:50 (315)

「Brain Circulation, Conduction and Connection; This Is How We Visualize It and We Do It Damn Good!」

Moderator: Kei Yamada (Kyoto Prefectural Univ. of Medicine)  
Masaaki Hori (Juntendo Univ.)

1. CT Perfusion in Patients with Ischemic Cerebrovascular Disease: Comparison of Bayesian with Singular Value Decomposition Method  
Kazuhiro Murayama (Fujita Health Univ.)
2. PET and SPECT Imaging of the Brain  
Tomohiro Kaneta (Yokohama City Univ.)
3. Electrical Conductivity of the Brain in Normal and Pathological States  
Khin Khin Tha (Hokkaido Univ. Hosp.)
4. Neurovascular 4D Flow MRI -scan Techniques and Clinical Applications-  
Tetsuro Sekine (Nippon Medical School)
5. Dynamic Susceptibility Contrast (DSC) and Arterial Spin Labeling PWI in Neuroimaging  
Roh-Eul Yoo (Seoul National University, Korea)
6. CEST Imaging: Principles and Clinical Applications  
Seung-Koo Lee (Yonsei University College of Medicine, Korea)
7. MR Fiber G-ratio and Connectome  
Masaaki Hori (Juntendo Univ.)

### Invited Lecture

- Invited Lecture 1: April 12 (Fri.) 9:10-9:40 (311+312)

Moderator: Toshifumi Gabata (Kanazawa Univ.)

Electrochemotherapy in Locally Advanced Pancreatic Cancer

Vincenza Granata (Istituto Nazionale Tumori IRCCS Fondazione Pascale - IRCCS di Napoli, Italy)

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- Invited Lecture 2: April 12 (Fri.) 10:30-11:00 (311+312)  
Theranostic Immune Systems to Reveal Optimal Outcome  
David Yang (University of Texas MD Anderson Cancer Center and Cell>Point, LLC, USA)  
Moderator: Nagara Tamaki (Kyoto Prefectural Univ.)
  - Invited Lecture 3: April 12 (Fri.) 9:10-9:40 (313+314)  
Chronic Obstructive Pulmonary Disease - Moving from Structure to Function  
Jens Vogel-Claussen (Hannover Medical School, Germany)  
Moderator: Yoshiharu Ohno (Kobe Univ.)
  - Invited Lecture 4: April 12 (Fri.) 10:30-11:00 (313+314)  
Increasing MR Value in Neuro-imaging Using Artificial Intelligence  
Vincent Dousset (University of Bordeaux, France)  
Moderator: Hajime Kitagaki (Shimane Univ.)
  - Invited Lecture 5: April 12 (Fri.) 9:10-9:40 (F205+206)  
Aortic Emergencies  
Tuncay Hazirolan (Hacettepe University, Turkey)  
Moderator: Kimihiko Kichikawa (Nara Medical Univ.)
  - Invited Lecture 6: April 12 (Fri.) 10:30-11:00 (F205+206)  
The Utility of Cardiac CT in 2019: From the Cardiologist's Perspective  
Wm. Guy Weigold (MedStar Heart & Vascular Institute, USA)  
Moderator: Teruhito Mochizuki (Ehime Univ.)
  - Invited Lecture 7: April 13 (Sat.) 9:10-9:40 (311+312)  
Role of Interventional Radiology in Upper and Lower Gastrointestinal Bleeding with Focus on Liquid Embolic Agents  
Romaric Loffroy (François-Mitterrand University Hospital, France)  
Moderator: Hidefumi Mimura (St. Marianna Univ. School of Medicine)
  - Invited Lecture 8: April 13 (Sat.) 10:30-11:00 (311+312)  
Ductal Carcinoma in Situ; Controversies of "Overtreatment" vs "Overdiagnosis"  
Mai Elezaby (University of Wisconsin School of Medicine and Public Health, USA)  
Moderator: Hiroko Tsunoda (St Luke's International Hosp.)
  - Invited Lecture 9: April 13 (Sat.) 9:10-9:40 (313+314)  
Diffusion and Perfusion Imaging in the Head and Neck  
Ashok Srinivasan (University of Michigan, USA)  
Moderator: Hiroya Ojiri (The Jikei Univ. School of Medicine)
  - Invited Lecture 10: April 13 (Sat.) 10:30-11:00 (313+314)  
Radiology Evolves with AI but Not so Fast: Many Samurais but No Shogun yet  
Kyontae Bae (University of Pittsburgh, USA)  
Moderator: Shinji Naganawa (Nagoya Univ.)
  - Invited Lecture 11: April 13 (Sat.) 9:10-9:40 (315)  
HRCT Patterns of Diffuse Lung Disease  
Hristina N. Natcheva (Boston Medical Center, USA)  
Moderator: Kazuto Ashizawa (Nagasaki Univ.)
  - Invited Lecture 12: April 13 (Sat.) 10:40-11:10 (315)  
Pediatric Brain Tumors Imaging: Insights from WHO Classification and Molecular Biology  
Volodia Dangouloff-Ros (Hôpital Universitaire Necker Enfants Malades, France)  
Moderator: Reiichi Ishikura (Hyogo College of Medicine)
  - Invited Lecture 13: April 13 (Sat.) 9:10-9:40 (F205+206)  
The Latest Advances in Cardiac CT and MRI  
Meinrad Beer (University Hospital Ulm, Germany)  
Moderator: Hajime Sakuma (Mie Univ.)

- Invited Lecture 14: April 13 (Sat.) 10:30-11:00 (F205+206)

Moderator: Ryoichi Tanaka (Iwate Medical Univ.)

Differential Diagnosis of Aortic Wall Thickened Disease: CT and MRI Diagnostic Clue

Zhanming Fan (Capital Medical University, Beijing Anzhen Hospital, China)

- Invited Lecture 15: April 13 (Sat.) 13:00-13:30 (311+312)

Moderator: Hiroshi Toyama (Fujita Health Univ.)

Spectral Photon Counting CT

Katsuyuki Taguchi (The Johns Hopkins University School of Medicine, USA)

### Special Focus Session

- Special Focus Session: April 13 (Sat.) 13:00-14:00 (313+314)

Moderator: Takayuki Yamada (St. Marianna Univ. School of Medicine Yokohama City Seibu Hosp.)

Hiroshi Shinmoto (National Defense Medical College)

1. Urolithiasis: Update for Radiologist Young Sup Shim (Gachon University, Gil Medical Center, Korea)
2. Imaging Diagnosis of Nutcracker Syndrome by Using Doppler Ultrasound and CT  
Seung H. Kim (Seoul National University Hospital, Korea)

### Symposium

- Symposium 1: April 12 (Fri.) 9:30-11:30 (Main Hall)

〔Clinical Practice and Safety in Radiology〕

Moderator: Takahiro Souma (Chiba Univ. Hosp.)

Masahiro Ida (Tokyo Metropolitan Ebara Hosp.)

1. Radiology Results not Communicated by Diagnostic Errors Takahiro Souma (Chiba Univ. Hosp.)
2. The Points of Attention in Diagnostic Radiology Takashi Koyama (Kurashiki Central Hosp.)
3. What to Do for Radiology Reports to Be Read Hideki Ota (Tohoku Univ.)
4. Medical Safety of Interventional Radiology Takuji Yamagami (Kochi Univ.)
5. Medical Safety and Security for Radiation Therapy Hiroshi Onishi (Univ. of Yamanashi)

- Symposium 2: April 12 (Fri.) 9:30-11:30 (301, Satellite:302)

〔Present and Future of Radiogenomics〕

Moderator: Kohsuke Kudo (Hokkaido Univ. Hosp.)

Koji Sakai (Kyoto Prefectural Univ. of KPUM)

Koji Sakai (Kyoto Prefectural Univ. of Medicine)

1. Expectations for Radiogenomics Hiroshi Nishihara (Keio Univ.)
2. Cancer Precision Medicine based on multiple gene testing Khin Khin Tha (Hokkaido Univ. Hosp.)
3. Emerging Researches in “Radiogenomics” Manabu Kinoshita (Osaka Univ.)
4. Radiogenomics in Glioma

- Symposium 3: April 12 (Fri.) 9:40-11:40 (303, Satellite:304)

〔Recent Development in Transcatheter Embolization〕

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

Koichiro Yamakado (Hyogo College of Medicine)

Masamichi Koganemaru (Kurume Univ.)

1. Transcatheter Arterial Embolization for Frozen Shoulder Masanori Inoue (Keio Univ.)
2. Recent Trend of Prostatic Artery Embolization Manabu Nakata (Dokkyo Medical Univ. Saitama Medical Center)
3. Interventional Radiology for Pelvic Congestion Syndrome (PCS) and Varicocele Miyuki Sone (National Cancer Center Hosp.)
4. Transarterial Embolization for Metastatic Liver Tumors Tay Kiang Hiong (Singapore General Hospital, Singapore)
5. Radioembolisation Using Y90 Microspheres for the Treatment of Hepatocellular Carcinoma

- Symposium 4: April 12 (Fri.) 15:20-17:20 (Main Hall)

〔Clinical Practice and Diagnosis of Non-alcoholic Fatty Liver Disease and Non-alcoholic Steatohepatitis : Current Concepts and Remaining Challenges〕

Moderator: Kengo Yoshimitsu (Fukuoka Univ.)

Etsuko Hashimoto (Health Support Center Seibu Railway Co.,Ltd.)

1. Clinical Features, Diagnosis and Treatment of NAFLD/NASH Etsuko Hashimoto (Health Support Center Seibu Railway Co.,Ltd)
2. Quantification of Liver Fat and Iron using MRI Kengo Yoshimitsu (Fukuoka Univ.)
3. Ultrasound Diagnosis of Liver Fibrosis and Hepatic Steatosis Hiroko Iijima (Hyogo College of Medicine)
4. NAFLD/NASH and MR Elastography Utaroh Motosugi (Univ. of Yamanashi)
5. Gd-EOB-DTPA Enhanced MRI Based Diagnosis of Liver Fibrosis Satoshi Goshima (Hamamatsu Univ. School of Medicine)

- Symposium 5: April 12 (Fri.) 15:10-17:10 (301, Satellite:302)  
 [Future of Theranostics for Personalized Medicine]

Moderator: Jun Hatazawa (Osaka Univ.)  
 Makoto Hosono (Kindai Univ.)

  1. Nuclear Theranostics in the World and What is Required for the Japanese Community  
 Seigo Kinuya (Kanazawa Univ.)
  2. Clinical Application and Development of Theranostics using Novel Targeted Radionuclide Therapy in Japan  
 Noboru Oriuchi (Fukushima Medical Univ.)
  3. Peptide Receptor Radionuclide Therapy; A Prologue of the way to the future of Radio-Theranostics.  
 Shoko Takano (Yokohama City Univ.)
  4. - Theranostics Targeting LAT 1 - For The Universal Treatment of Cancer  
 Tadashi Watabe (Osaka Univ.)
  5. Theranostics for Personalized Medicine -Future Perspective of Quantum Medical Science-  
 Tatsuya Higashi (NIRS-QST)
  
- Symposium 6: April 13 (Sat.) 9:30-11:30 (301, Satellite:302)  
 [Guidelines on the Use of Iodinated Contrast Media in Patients with Kidney Disease 2018]

Moderator: Hiromitsu Hayashi (Nippon Medical School)  
 Kazuo Awai (Hiroshima Univ.)

  1. Overview of the Guidelines on the Use of Iodinated Contrast Media in Patients with Kidney Disease 2018  
 Kazuo Awai (Hiroshima Univ.)
  2. The Pathophysiology, Diagnosis and Risk Stratification in Contrast Induced Nephropathy  
 Hideo Yasuda (Hamamatsu Univ. School of Medicine)
  3. Contrast-Induced Nephropathy: Intra-arterial Administration of Contrast Media  
 Akira Sato (Univ. of Tsukuba)
  4. Contrast-Induced Nephropathy after Intravenous Administration  
 Seitaro Oda (Kumamoto Univ.)
  5. Prevention of Contrast Induced Nephropathy  
 Yasuhiro Komatsu (Gunma Univ.)
  
- Symposium 7: April 13 (Sat.) 9:40-11:40 (303, Satellite:304)  
 [The Past, Present, and Future of Radiotherapy]

Moderator: Kenji Nemoto (Yamagata Univ.)  
 Hidefumi Aoyama (Niigata Univ.)

  1. Messages to Young Radiation Oncologists Who Bear the Future~Development of Radiation Oncology over Past 30 Years in the Heisei Period  
 Masahiro Hiraoka (Japan Red Cross Wakayama Medical Center)
  2. How Do You Welcome AI Era in Radiotherapy?  
 Hidetaka Arimura (Kyushu Univ.)
  3. Requirements and Role of Radiotherapy in the Era of Aging and Long-lived Society with Fewer Children  
 Takashi Mizowaki (Kyoto Univ.)
  4. Future Direction of Radiotherapy in the Precision Medicine Era  
 Satoshi Ishikura (Nagoya City Univ.)
  5. More Radiation Oncology Exposure in Undergraduate Medical Education  
 Natsuo Oya (Kumamoto Univ.)
  
- Symposium 8: April 13 (Sat.) 13:10-15:10 (301, Satellite:302)  
 [Radiologists and AI]

Moderator: Shigeki Aoki (Juntendo Univ.)  
 Yasuyuki Kobayashi (St. Marianna Univ. School of Medicine)

  1. Introduction to Deep Learning for Radiologists  
 Masahiro Hashimoto (Keio Univ.)
  2. Methodology of Deep Learning  
 Koichiro Yasaka (The Univ. of Tokyo)
  3. Will Artificial Intelligence (AI) Replace Radiologists?  
 Takeshi Nakaura (Kumamoto Univ.)
  4. Examining Radiologists of the AI Era  
 Masahiro Jinzaki (Keio Univ.)
  
- Symposium 9: April 13 (Sat.) 13:20-15:20 (303, Satellite:304)  
 [Radiological Imaging in Super-aged Society]

Moderator: Kengo Ito (National Center for Geriatrics and Gerontology)  
 Hiroshi Matsuda (National Center of Neurology and Psychiatry)

  1. Role of Neuroimaging in Diagnostic Strategy for Dementia in Super-aged Society  
 Aya M. Tokumaru. (Tokyo Metropolitan Medical Center of Gerontology)
  2. Cardiovascular Imaging in a Super-aging Society  
 Takuya Ueda (Tohoku Univ.)
  3. Imaging of the Elderly Chest : Normal Aging Change and Pathological Conditions  
 Masashi Takahashi (Yujin-Yamazaki Hosp.)
  4. Imaging of Musculoskeletal Diseases in Aged People  
 Hajime Fujimoto (Chiba Univ. Hosp.)

- Symposium 10: April 14 (Sun.) 9:30-11:30 (Main Hall)  
 [New Applications of Radiotherapy] Moderator: Tetsuo Akimoto (National Cancer Center Hosp. East)  
 Keiichi Jingu (Tohoku Univ.)
  1. Role of Loco-Regional Radiotherapy for Head and Neck Cancer with Distant Metastasis.  
 Takeshi Kodaira (Aichi Cancer Center Hosp.)
  2. Radical Radiotherapy for Metastatic Prostate Cancer Katsumasa Nakamura (Hamamatsu Univ. School of Medicine)
  3. New and Emerging Radiotherapy Applications in Palliative Care Tetsuo Saito (Kumamoto Univ. Hosp.)
  4. New Applications of High Precision Radiotherapy in Early-stage Lung Cancer  
 Yoshiyuki Shioyama (Ion Beam Therapy Center, SAGA-HIMAT)
  5. Combination Therapy of Radiotherapy and Immunotherapy: Basic and Clinical Aspects  
 Yoshiyuki Suzuki (Fukushima Medical Univ.)
  
- Symposium 11: April 14 (Sun.) 9:30-11:30 (301, Satellite:302)  
 [Complementary Diagnosis in Treatment Strategy of Ischemic Heart Disease] Moderator: Teruhito Mochizuki (Ehime Univ.)  
 Shin-ichiro Kumita (Nippon Medical School)
  1. Recent Progress of Invasive Physiological Assessment. Hitoshi Matsuo (Gifu Heart Center)
  2. Morphological and Functional Evaluation of Ischemic Heart Disease using Cardiac CT  
 Teruhito Kido (Ehime Univ.)
  3. Usefulness and Limitations of Cardiac MRI in the Evaluation of Myocardial Ischemia.  
 Kakuya Kitagawa (Mie Univ.)
  4. Evaluation of Two Large Elements of Ischemic Heart Disease by Nuclear Cardiology.  
 Tomonari Kiriya (Nippon Medical School)
  5. The Paradigm Shift and International Trends on the Management of Stable Ischemic Heart Disease in Diagnosis,  
 Treatment and Outcome Strategies Tomoaki Nakata (Hakodate Goryoukaku Hosp.)
  
- Symposium 12: April 14 (Sun.) 9:40-11:40 (303, Satellite:304)  
 [Radiological Protection in Interventional Procedure] Moderator: Takamichi Murakami (Kobe Univ.)  
 Tetsuo Sonomura (Wakayama Medical Univ.)
  1. Optimization of Protection in Interventional Radiology  
 Masaaki Akahane (International Univ. of Health and Welfare)
  2. Radiation Exposure in Non Vascular IR Atsushi Komemushi (Kansai Medical Univ. Medical Center)
  3. Radiation Protection on Patient and Physician during Vascular Interventional Radiology for Body Disease  
 Masakazu Hirakawa (Kyushu Univ. Beppu Hosp.)
  4. Radiation Safety and Protection in Neuro- and H&N Interventional Radiology Toshi Abe (Kurume Univ.)

### Image Interpretation Session

- Image Interpretation Session: April 13 (Sat.) 17:00-19:00 (Main Hall)  
 Moderator: Noriko Aida (Kanagawa Children's Medical Center)  
 Yoshiko Hayashida (Univ. of Occupational and Environmental Health)
- Question Master: Masanori Nakajou (Kagoshima Univ.)  
 Masafumi Kidoh (Kumamoto Univ.)  
 Ryoko Egashira (Saga Univ.)  
 Yukihiisa Takayama (Kyushu Univ.)  
 Masafumi Toguchi (Univ. of the Ryukyus)  
 Nozomi Oki (Nagasaki Univ.)
- Discussor: Taisuke Harada (Hokkaido Univ. Hosp.)  
 Takao Kiguchi (Ichinomiyanishi Hosp.)  
 Wataru Fukumoto (Hiroshima Univ.)  
 Yudai Nakai (The Univ. of Tokyo)  
 Yusaku Moribata (Kurashiki Central Hosp.)  
 Tetsuhiko Okabe (Yokohama City Univ.)

## Special Program

- Special Program 1: April 12 (Fri.) 10:00-11:40 (315)  
「Standardization of Quantitative Imaging: Approach to Quantitative Imaging Biomarker Alliance (QIBA)」  
Moderator: Shigeki Aoki (Juntendo Univ.)  
Ukihide Tateishi (Tokyo Medical and Dental Univ.)
  1. Quantitative Imaging in Precision Medicine: Opportunities, Challenges, and the Role of the RSNA Quantitative Imaging Biomarkers Alliance (QIBA)  
Edward F. Jackson (University of Wisconsin, School of Medicine & Public Health, USA)
  2. Approach to QIBA Through Development of Phantom for Magnetic Resonance Elastography  
Mikio Suga (Chiba Univ.)
  3. JISC's Activity for Medical Device Development  
Niko Kato (International Standardization Division, Ministry of Economy, Trade and Industry)
  4. Recent Advances of J-QIBA  
Ukihide Tateishi (Tokyo Medical and Dental Univ.)
  
- Special Program 2: April 12 (Fri.) 16:50-17:50 (303)  
「How to Write Scientific Papers; Tips for Young Radiologists」  
Moderator: Yukunori Korogi (Univ. of Occupational and Environmental Health)
  1. The Daily Practice of Writing Academic Papers; the Language Requisite and Lifestyle Tips  
Eriko Maeda (The Univ. of Tokyo)
  2. Tips of Writing Research Papers for Young Radiologists: How and Why?  
Katsuyoshi Ito (Yamaguchi Univ.)
  
- Special Program 3: April 12 (Fri.) 15:10-16:40 (304)  
「Imaging Diagnosis with Artificial Intelligence Promoted by Japan Radiological Society – Utility of Japan Medical Imaging Database -」  
Moderator: Shigeki Aoki (Juntendo Univ.)  
Noriyuki Tomiyama (Osaka Univ.)
  1. ICT Infrastructure Establishment and Implementation of Artificial Intelligence for Clinical and Medical Research  
Tetsuo Sakamaki (Japan Agency for Medical Research and Development)
  2. Cloud Platform and AI Medical Image Processing for Promoting Use of Medical Big Data  
Shin'ichi Satoh (National Institute of Informatics)
  3. AI Project Promoted by Japan Radiological Society  
Hiroshi Honda (Kyushu Univ.)
  4. Current Status of System Development for Imaging Diagnosis by Artificial Intelligence: Collaboration with National Institute of Informatics  
Osamu Abe (The Univ. of Tokyo)
  5. Imaging Diagnosis with Artificial Intelligence – Tasks toward Utilization  
Masahiro Jinzaki (Keio Univ.)
  
- Special Program 4: April 13 (Sat.) 8:00-9:00 (F205+206)  
「Joint Symposium of JRS and JCR “Work-style Reform of Radiologists”」  
Moderator: Hideki Ota (Tohoku Univ.)
  1. JRS / JCR “Work-Style Questionnaire 2018” and Recommendations to the Ministry of Health, Labor and Welfare - Current Status of Japanese Health Care and the Role of Radiologists -  
Roka Matsubayashi (Namoto) (Kyushu Medical Center)
  2. Improvement of Work Environment Promoting Empowerment of Female Healthcare Professions -  
Hitomi Sasaki (Fujita Health Univ.)
  
- Special Program 5: April 14 (Sun.) 9:20-10:50 (315)  
「How Should Radiologists Learn Artificial Intelligence in Medicine?」  
Moderator: Daisuke Utsunomiya (Yokohama City Univ.)  
How to Learn Artificial Intelligence in Medicine for Radiologists?
  1. Why and How Should Radiologists Learn Artificial Intelligence in Medicine?  
Yasuyuki Kobayashi (St. Marianna Univ.)
  2. Seeing is Believing, Considering is Understanding, Practicing is Discovering  
Masahiro Hashimoto (Keio Univ.)
  
- Special Program 6: April 14 (Sun.) 13:00-14:30 (F205+206)  
「Medical Safety of Radiology Department, Part 2 (放射線科の医療安全を考える、第2弾)」  
Moderator: Shunro Matsumoto (Oita Univ.)  
Kazuto Ashizawa (Nagasaki Univ.)  
(基調講演)「放射線科読影レポート未確認問題、incidentaloma等について — 弁護士からの立場から」  
Noboru Tanabe (JCR Legal Adviser)
  1. 当院における画像診断レポートの未読既読管理と読影体制  
Hiroko Satake (Nagoya Univ. Hosp.)



2. 画像診断レポートの確認に関する安全対策：鹿児島大学病院の取り組み

Hiroto Hakamada (Kagoshima Univ.)

3. 画像診断レポート既読確認のための長崎大学病院の取り組み

Masataka Uetani (Nagasaki Univ. Hosp.)

4. 特別発言

Masahiro Ida (Ebara Hosp.)

## Resident Seminar

・ Resident Seminar (Diagnostic): April 13 (Sat.) 9:30-11:30 (Main Hall)

「Introduction to Emergency Radiology」

Moderator: Hiroaki Takara (Okinawa Prefectural Chubu Hosp.)

Shunro Matsumoto (Oita Univ.)

1. Emergency Diagnostic Imaging of the Central Nervous System

Hiroyuki Uetani (Kumamoto Univ.)

2. The Management of Blunt Traumatic and Iatrogenic Vascular Injuries by Interventional Radiologists

Takeshi Sugahara (Japanese Red Cross Kumamoto Hosp.)

3. Diagnostic Imaging and Interventional Radiology for Acute Abdomen.

Miyuki Maruno (Oita Univ.)

4. CT and MR Imaging of Gynecological Emergencies: What Residents and Fellows Should Know

Yuko Iraha (Univ. of the Ryukyus)

5. Strategies to Reduce Unnecessary Radiation Exposure from Pediatric Emergency CT Scans

Yasunori Nagayama (Kumamoto Univ.)

・ Resident Seminar (Radiation Oncology): April 13 (Sat.) 17:00-19:00 (301, Satellite:302)

「Introduction to Radiation Oncology」

Moderator: Masaharu Hata (Yokohama City Univ.)

Hitoshi Ikushima (Tokushima Univ.)

1. Radiation Therapy for Uterine Cervical Cancer

Masaru Wakatsuki (Jichi Medical Univ.)

2. Radiotherapy for Prostate Cancer

Takeo Takahashi (Saitama Medical Center, Saitama Medical Univ.)

3. Introduction to Radiation Oncology: Lung Cancer

Nobue Uchida (Tottori Univ.)

## Educational Lecture

・ Educational Lecture 1: April 11 (Thu.) 17:00-18:00 (301)

「Nuclear Medicine 1」

Moderator: Ukihide Tateishi (Tokyo Medical and Dental Univ.)

1. FDG PET/CT for Head and Neck Squamous Cell Carcinoma

Yoshihiro Nishiyama (Kagawa Univ.)

2. FDG-PET in Lung Cancer

Takayoshi Ishimori (Kyoto Univ.)

・ Educational Lecture 2: April 11 (Thu.) 17:10-18:10 (302)

「Musculoskeletal Radiology 1」

Moderator: Takatoshi Aoki (Univ. of Occupational and Environmental Health)

1. Imaging of Wrist and Hand

Satoshi Tatsuno (Yaesu Clinic)

2. Foot and Ankle Imaging: Cases without History of Trauma

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

・ Educational Lecture 3: April 11 (Thu.) 17:00-18:00 (303)

「Head and Neck Radiology 1」

Moderator: Norimitsu Tanaka (Kurume Univ.)

1. Imaging of Cholesteatomas

Takao Kodama (Miyazaki Prefectural Hosp.)

2. Temporal Bone Imaging: Congenital Anomalies of the Ear

Hiroki Kato (Gifu Univ.)

・ Educational Lecture 4: April 11 (Thu.) 17:00-18:00 (304)

「Cardiac Radiology 1」

Moderator: Hajime Sakuma (Mie Univ. Hosp.)

1. The Updates in the Diagnostic Imaging of Cardiac Sarcoidosis and Cardiac Amyloidosis

Osamu Manabe (Hokkaido Univ.)

2. Cardiomyopathy

Yasuo Amano (Nihon Univ. Hosp.)

・ Educational Lecture 5: April 12 (Fri.) 8:00-9:00 (National Convention Hall)

「[MOC Requirements] Radiation Safety Protection 1」

Moderator: Kunihiro Yoshioka (Iwate Medical Univ.)

1. How We Cope with the New Occupational Equivalent Dose Limit for the Lens of the Eye.

Kazuko Ohno (Kyoto Collage of Medical Science)

2. Analysis of the Death Related to Anaphylaxis by Injection

Hirimitsu Hayashi (Nippon Medical School)

・ Educational Lecture 6: April 12 (Fri.) 8:00-9:00 (Main Hall)

「[MOC Requirements] Quality of Medical Care: Radiotherapy」

Moderator: Natsuo Oya (Kumamoto Univ.)

Quality of Medical Care: Radiation Oncology

Takeshi Kodaira (Aichi Cancer Center Hosp.)

- Educational Lecture 7: April 12 (Fri.) 8:00-9:00 (301, Satellite:311+312)  
 「Gastrointestinal Radiology 1」 Moderator: Mitsuru Matsuki (Kindai Univ.)  
 1. Benign Splenic Diseases: Congenital Abnormalities, Splenomegaly Cystic Masses and Abscesses Eriko Maeda (The Univ. of Tokyo)  
 2. Imaging Characteristics of Splenic Tumors and Tumor-like Lesions Hitoshi Abo (Toyama Prefectural Central Hosp.)
  
- Educational Lecture 8: April 12 (Fri.) 8:00-9:00 (302, Satellite:313+314)  
 「Radiation Oncology 1」 Moderator: Ryo Toya (Kumamoto Univ.)  
 Stereotactic Irradiation for Brain Tumors Masayuki Matsuo (Gifu Univ.)
  
- Educational Lecture 9: April 12 (Fri.) 8:00-9:00 (303, Satellite:315)  
 「Chest Radiology 1」 Moderator: Takeshi Johkoh (Kinki Central Hosp.)  
 1. Imaging Findings of Atypical Pneumonia Nobuyuki Tanaka (Yamaguchi-Ube Medical Center)  
 2. Imaging Diagnosis of Opportunistic Infection of the Lung Kazuto Ashizawa (Nagasaki Univ.)
  
- Educational Lecture 10: April 12 (Fri.) 8:00-9:00 (304)  
 「IVR 1」 Moderator: Takuji Yamagami (Kochi Univ.)  
 1. Interventional Radiology for Venous Thromboembolism Hiroshi Anai (Nara City Hosp.)  
 2. Interventional Approach for the Treatment of Chronic Thromboembolic Pulmonary Hypertension (CTEPH). Tetsuya Fukuda (National Cerebral and Cardiovascular Center)
  
- Educational Lecture 11: April 12 (Fri.) 8:00-9:00 (F205+206)  
 「Cardiac Radiology 2」 Moderator: Eijun Sueyoshi (Nagasaki Univ.)  
 1. A Practical Guide to Interpreting PET/CT in Large Vessel Vasculitis Junichi Tsuchiya (Tokyo Medical and Dental Univ.)  
 2. Inflammatory Disease of the Aorta and Its Major Branch Norihiko Yoshimura (Niigata Univ.)
  
- Educational Lecture 12: April 12 (Fri.) 15:10-16:10 (F205+206)  
 「Pediatric Radiology 1」 Moderator: Masashi Koyama (Okazaki City Hosp.)  
 1. Systemic Diseases: Radiological Approach with CNS (and Extra) Findings Masahiro Kitami (Tohoku Univ.)  
 2. Introducing NICE Clinical Guideline to Achieve Justification in Pediatric Imaging. Yoshimi Fujii (Fujisawa City Hosp.)
  
- Educational Lecture 13: April 12 (Fri.) 16:30-17:30 (F205+206)  
 「Genitourinary Radiology 1」 Moderator: Ryohei Kuwatsuru (Juntendo Univ. Hosp.)  
 1. How Diagnose and Treat Renal Vascular Disorders: A Case-Based Teaching Approach Shigeo Takebayashi (Yokohama City Univ. Medical Center)  
 2. Imaging Diagnosis of Complications (Including PTLD) of Dialysis / Renal Transplantation and Evaluation of Renal Transplant Donor Tsuyoshi Tajima (National Center for Global Health and Medicine)
  
- Educational Lecture 14: April 13 (Sat.) 8:00-9:00 (National Convention Hall)  
 「[MOC Requirements] Radiation Safety Protection 2」 Moderator: Hideharu Sugimoto (Jichi Medical Univ.)  
 1. Revising the Radiation Hazard Prevention Law and the Obligation of Medical Permission User Ryozo Nishida (Nuclear Regulation Authority)  
 2. Health Effects of Radiation Ohtsura Niwa (Radiation Effects Research Foundation)
  
- Educational Lecture 15: April 13 (Sat.) 8:00-9:00 (Main Hall)  
 「[MOC Requirements] Quality of Medical Care: Diagnostic Imaging」 Moderator: Ukihide Tateishi (Tokyo Medical and Dental Univ.)  
 1. Current Status of Standardization in EPR and PACS Sharing System and IHE-CPI Hiroshi Kondoh (Tottori Univ. Hosp.)  
 2. Quality Control in Diagnostic Imaging Masahiko Fujii (Kobe Minimally Invasive Cancer Center)
  
- Educational Lecture 16: April 13 (Sat.) 8:00-9:00 (301, Satellite:311+312)  
 「Gastrointestinal Radiology 2」 Moderator: Kenji Ibukuro (Nihon Univ.)  
 1. Clinical Anatomy of Peritoneum (Mesenteries, Ligaments, and Fasciae) Yoshiko Hayashida (Univ. of Occupational and Environmental Health)

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2. CT Imaging of Internal Hernia  
Norio Hongo (Oita Univ. Faculty of Medicine)
- Educational Lecture 17: April 13 (Sat.) 8:00-9:00 (302, Satellite:313+314)  
〔Radiation Oncology 2〕  
Image-Guided Brachytherapy  
Moderator: Tatsuya Ohno (Gunma Univ.)  
Shin-ei Noda (Saitama Medical Univ. International Medical Center)
- Educational Lecture 18: April 13 (Sat.) 8:00-9:00 (303, Satellite:315)  
〔Chest Radiology 2〕  
1. Imaging of Mycobacterial Pulmonary Disease  
2. Image Findings of Infectious Pulmonary Nodule/Mass  
Moderator: Hidetake Yabuuchi (Kyushu Univ.)  
Masuo Ujita (Tachikawa General Hosp.)  
Shuji Sakai (Tokyo Women's Medical Univ.)
- Educational Lecture 19: April 13 (Sat.) 8:00-9:00 (304)  
〔IVR 2〕  
1. Vascular Access Intervention Therapy in Hemodialysis Patients  
2. Denver Shunt and Transjuglar Liver Biopsy  
Moderator: Kei Takase (Tohoku Univ.)  
Masahiro Tsuboi (Osaka Citizn Hosp.)  
Yasukazu Kako (Hyogo College of Medicine)
- Educational Lecture 20: April 13 (Sat.) 15:40-16:40 (Main Hall)  
〔Neuroradiology 1〕  
1. Imaging of the Craniovertebral Junction: Congenital Anomalies, Traumatic Injuries, and Others  
2. Skull Base Tumors and Inflammatory/Infectious Disorders  
Moderator: Yoshiyuki Watanabe (Osaka Univ.)  
Tutomu Inaoka (Toho Univ. Sakura Medical Center)  
Harushi Mori (The Univ. of Tokyo)
- Educational Lecture 21: April 13 (Sat.) 15:30-16:30 (301)  
〔Nuclear Medicine 2〕  
1. How to Write A Report of Stress Myocardial Perfusion SPECT That A Referral Doctor Requires  
2. Nuclear Cardiology for Non-Ischemic Heart Diseases  
Moderator: Kenichi Nakajima (Kanazawa Univ. Hosp.)  
Mitsuru Momose (Tokyo Women's Medical Univ.)  
Masao Miyagawa (Ehime Univ. Hosp.)
- Educational Lecture 22: April 13 (Sat.) 15:30-16:30 (302, Satellite:311+312)  
〔Radiation Oncology 3〕  
Basic of Immuno-Radiotherapy  
Moderator: Hitoshi Ikushima (Tokushima Univ.)  
Yoshiyuki Suzuki (Fukushima Medical Univ.)
- Educational Lecture 23: April 13 (Sat.) 15:40-16:40 (303)  
〔Genitourinary Radiology 2〕  
1. The Spectrum of Imaging Appearance of Müllerian Duct Anomalies: Uterovaginal Anomaly, Including Renal Agenesis  
2. Congenital Anomalies of Kidney, Urinary Tract and Male Genitalia.  
Moderator: Yumiko Oishi Tanaka (The Cancer Institute Hosp. of JFCR)  
Takeru Fukunaga (Tottori Univ.)  
Yoshinobu Akasaka (Kobe Children's Hosp.)
- Educational Lecture 24: April 13 (Sat.) 17:10-18:10 (303, Satellite:304)  
〔Radiation Oncology 4〕  
Radiation Therapy for Pediatric Cancer; Indication of Proton Therapy  
Moderator: Hideyuki Sakurai (Univ. of Tsukuba Hosp.)  
Toshinori Soejima (Kobe Proton Center)
- Educational Lecture 25: April 13 (Sat.) 15:40-16:40 (304)  
〔Musculoskeletal Radiology 2〕  
1. Fatigue Fractures and Cartilage Lesions.  
2. MRI Diagnosis of Muscle, Tendon and Ligament Injuries  
Moderator: Masataka Uetani (Nagasaki Univ.)  
Takenori Yonenaga (JR Tokyo General Hosp.)  
Shoichiro Takao (Tokushima Univ.)
- Educational Lecture 26: April 14 (Sun.) 8:00-9:00 (Main Hall)  
〔[MOC Requirements] Infection Control〕  
A Problem Faced with Infectious Diseases and Infection Control  
Moderator: Tutomu Tamada (Kawasaki Medical School)  
Kisato Nosaka (Kumamoto Univ. Hosp.)
- Educational Lecture 27: April 14 (Sun.) 8:00-9:00 (301)  
〔Gastrointestinal Radiology 3〕  
1. Neoplastic Diseases of the Peritoneum and Mesentery  
2. Non-Neoplastic and Inflammatory Diseases of the Peritoneum and Mesentery  
Moderator: Manabu Minami (Univ. of Tsukuba)  
Ryo Takaji (Oita Univ.)  
Akiko Sumi (Kurume Univ.)

- Educational Lecture 28: April 14 (Sun.) 8:00-9:00 (302, Satellite:313+314)  
 「Radiation Oncology 5」  
 Hyperbaric Oxygen Therapy for Late Radiation Adverse Events  
 Moderator: Masatoshi Hasegawa (Nara Medical Univ.)  
 Yasue Niwa (Tsuyama Chuo Hosp.)
  
- Educational Lecture 29: April 14 (Sun.) 8:00-9:00 (303, Satellite:311+312)  
 「Chest Radiology 3」  
 1. Imaging of the Endobronchial Tumor  
 2. Imaging of the Benign Pulmonary Lesion to Be Differentiated from Bronchogenic Carcinoma  
 Moderator: Osamu Honda (Osaka Univ.)  
 Katsunori Oikado (Cancer Institute Hospital of JFCR)  
 Masashi Takahashi (Yujin-Yamazaki Hosp.)
  
- Educational Lecture 30: April 14 (Sun.) 8:00-9:00 (304)  
 「IVR 3」  
 1. Venous Sampling  
 2. Radiation Protection in Interventional Radiology  
 Moderator: Tetsuo Sonomura (Wakayama Medical Univ.)  
 Kazumasa Seiji (Tohoku Univ. Hosp.)  
 Masaaki Akahane (International Univ. of Health and Welfare)
  
- Educational Lecture 31: April 14 (Sun.) 8:00-9:00 (315)  
 「Head and Neck Radiology 2」  
 1. Cystic Lesions of the Neck  
 2. Imaging Features of IgG4-Related Disease  
 Moderator: Hiroya Ojiri (The Jikei Univ. School of Medicine)  
 Akira Baba (The Jikei Univ. School of Medicine)  
 Dai Inoue (Kanzawa Univ. Hosp.)
  
- Educational Lecture 32: April 14 (Sun.) 8:00-9:00 (F205+206)  
 「Neuroradiology 2」  
 1. The Normal Anatomy of the Skull Base on CT and MR Imaging: Focusing on Clinical Significance in Patients.  
 2. Points to Notice in Skull Base Imaging  
 Moderator: Mitsuru Matsuki (Kindai Univ.)  
 Ryutaro Ukisu (Kitasato Univ.)  
 Mitsuru Matsuki (Kindai Univ.)
  
- Educational Lecture 33: April 14 (Sun.) 10:40-11:40 (F205+206)  
 「Pediatric Radiology 2」  
 1. Pediatric Brain Tumor and Genetics  
 2. Development and Abnormal Development of the Immature Brain  
 Moderator: Kumiko Ando (Hyogo College of Medicine)  
 Toshio Moritani (Univ. of Michigan)  
 Kazutoshi Fujita (Kanagawa Children's Medical Center)
  
- Educational Lecture 34: April 14 (Sun.) 13:20-14:20 (National Convention Hall)  
 「[MOC Requirements] Medical Ethics」  
 Hunan Research Regulations: Up to Date on Laws and Guidelines  
 Moderator: Toshifumi Gabata (Kanazawa Univ.)  
 Chieko Kurihara (National Institute for Quantum and Radiological Science and Technology)
  
- Educational Lecture 35: April 14 (Sun.) 13:20-14:20 (301)  
 「Neuroradiology 3」  
 1. Imaging Diagnosis of the Pituitary  
 2. Cavernous Sinus  
 Moderator: Yukio Miki (Osaka City Univ.)  
 Yukio Miki (Osaka City Univ.)  
 Minako Azuma (Miyazaki Univ.)
  
- Educational Lecture 36: April 14 (Sun.) 13:20-14:20 (302)  
 「Nuclear Medicine 3」  
 1. Molecular Imaging By PET and SPECT Tracers in Brain Ischemia.  
 2. Brain (Degenerative Disease)  
 Moderator: Hidehiko Okazawa (University of Fukui)  
 Eku Shimosegawa (Osaka Univ.)  
 Masashi Kameyama (Tokyo Metropolitan Geriatric Hosp. and Institute for Gerontology)
  
- Educational Lecture 37: April 14 (Sun.) 13:10-14:10 (303)  
 「Radiation Oncology 6」  
 Basic Physics and Its Application to Clinical Practice in Radiology  
 Moderator: Tomoki Kimura (Hiroshima Univ.)  
 Masayori Ishikawa (Hokkaido Univ.)
  
- Educational Lecture 38: April 14 (Sun.) 13:10-14:40 (304)  
 「Breast Imaging」  
 1. Basics and Practice of Breast Imaging: Mammography and Ultrasound  
 2. Breast MRI Findings of Invasive Ductal Carcinoma  
 3. Breast Cancer Molecular Subtype Imaging Features based on Mammography, Sonography, and MRI  
 Moderator: Shuichi Monzawa (Shinko Hosp.)  
 Youichi Machida (Kameda Medical Center)  
 Mariko Goto (Kyoto Prefectural Univ. of Medicine)  
 Takayoshi Uematsu (Shizuoka Cancer Center Hosp.)

## 指導者講習会

- ・ 指導者講習会 1: April 13 (Sat.) 15:40-16:40 (F205+206)

Kei Takase (Tohoku Univ.)

- ・ 指導者講習会 2: April 14 (Sun.) 9:20-10:20 (F205+206)

Yasushi Kaji (Dokkyo Medical Univ.)

## Luncheon Seminar

- ・ Luncheon Seminar 1: April 12 (Fri.) 12:00-12:50 (Main Hall)

〔Guidelines on the Use of Iodinated Contrast Media in Patients with Kidney Disease 2018〕

Moderator: Daisuke Utsunomiya (Yokohama City Univ.)

Hiroimitsu Hayashi (Nippon Medical School)

Sponsored by: DAIICHI SANKYO CO.,LTD.

- ・ Luncheon Seminar 2: April 12 (Fri.) 12:00-12:50 (301)

〔CT/MR Perfusion Imaging for Acute Ischemic Stroke and Brain Tumors〕 Moderator: Osamu Abe (The Univ. of Tokyo)

Kohsuke Kudo (Hokkaido Univ. Hosp.)

Sponsored by: Bayer Yakuhin, Ltd.

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

〔Reconsideration of Contrast-enhanced CT Theory of Abdomen in Era of Low-voltage and Ultra High-resolution CT: Should Reduction of Contrast Material Volume Be Always Accepted?〕

Moderator: Yasuyuki Yamashita (Kumamoto Univ.)

Tomoaki Ichikawa (Saitama Medical Univ. International Medical Center)

Sponsored by: Eisai Co., Ltd.

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

〔Solution by approach of First Time Right in CT/MR〕

Moderator: Hiroshi Shinmoto (National Defense Medical College Hosp.)

1. Clinical impact of next generation MR Ingenia Elition 3.0T - Challenge the limitation of the 3.0T-MRI -

Kazuhiro Katahira (Kumamoto Chuo Hosp.)

2. Investigation on Spectral CT from radiological technologists' perspective

Hironobu Tomita (Saitama-ken Saiseikai, Kawaguchi General Hosp.)

Sponsored by: Philips Japan, Ltd.

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

〔Key Points of Diagnostic Imaging in Cardiac Region〕

Moderator: Teruhito Mochizuki (Ehime Univ.)

1. Using Coronary CTA, CT Perfusion and FFR-CT

Teruhito Kido (Ehime Univ.)

2. Recent topics in cardiac MRI for non-ischemic cardiomyopathy

Kenichi Yokoyama (Kyorin Univ.)

Sponsored by: Guerbet Japan KK

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

〔Dynamic X-ray Radiography can change dialogistic imaging〕

Moderator: Atsuko Kurosaki (Fukujuji Hosp., Japan Anti-Tuberculosis Association (JATA))

1. Expectation for Dynamic Chest Radiography

Shoji Kudoh (Board of Directors Japan Anti-Tuberculosis Association(JATA)/Nippon Medical School)

2. Clinical applications of Dynamic X-ray Radiography

Terumitsu Hasebe (Tokai Univ. Hachioji Hosp.)

Sponsored by: KONICA MINOLTA JAPAN, INC.

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

〔Immunotherapy we should know about〕

Moderator: Takamichi Murakami (Kobe Univ.)

1. Current status of immunotherapy for advanced cancers

Noboru Yamamoto (National Cancer Center Hosp.)

2. Tumor response evaluation criteria for immunotherapy

Hirokazu Watanabe (National Cancer Center Hosp.)

Sponsored by: Yokogawa Medical Solutions Corporation

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

〔Medical Image Diagnosis Support Using AI: Deep Learning  
- Clinical Applications and Evaluations for Practical Use〕

	Moderator: Noriyuki Tomiyama (Osaka Univ.)
1. Efficacy Evaluation of Lung Nodule CADe Using Deep Learning	Shichiro Katase (Kyorin Univ.)
2. Clinical Applications of 3D Temporal Subtraction on CT Images for Bone Metastasis Diagnosis	Shingo Iwano (Nagoya Univ.)

Sponsored by: FUJIFILM Medical Co., Ltd.
  
- Luncheon Seminar 9: April 12 (Fri.) 12:00-12:50 (416+417)

〔Prospect of neuroimaging diagnosis of Alzheimer's disease; toward earlier treatment and prevention〕

	Moderator: Kengo Ito (National Center for Geriatrics and Gerontology)
	Kenji Ishii (Tokyo Metropolitan Institute of Gerontology)

Sponsored by: Eisai Co., Ltd.
  
- Luncheon Seminar 10: April 12 (Fri.) 12:00-12:50 (F203+204)

〔AI × Impact of next generation MRI〕

	Moderator: Kei Takase (Tohoku Univ.)
1. Clinical application of next generation high resolution 3T MRI in Neuroradiology	Kazuhiro Murayama (Fujita Health Univ.)
2. Clinical application in high-resolution body MR imaging	Katsuyoshi Ito (Yamaguchi Univ.)

Sponsored by: Canon Medical Systems Corporation
  
- Luncheon Seminar 11: April 12 (Fri.) 12:00-12:50 (F205+206)

〔Towards Creating Clinical Value of Abdominal MR Imaging〕

	Moderator: Kazuo Awai (Hiroshima Univ.)
1. Various image processing techniques with 3T MRI TRILLIUM OVAL	Toru Higaki (Hiroshima Univ.)
2. Clinical capability of 3T TRILLIUM OVAL in the abdominal imaging	Yuko Nakamura (Hiroshima Univ.)

Sponsored by: Hitachi, Ltd.
  
- Luncheon Seminar 12: April 13 (Sat.) 12:00-12:50 (Main Hall)

〔The leading edge of CT ~Next generation CT and radiological examination with AI technology~〕

	Moderator: Takamichi Murakami (Kobe Univ.)
1. New approach to cardiac CT exams	Daisuke Utsunomiya (Yokohama City Univ.)
2. CT Innovation and Improved detectability of the Adamkiewicz Artery	Kunihiko Yoshioka (Iwate Medical Univ.)
3. Deep Learning based Spectral Imaging with ADCT	Kazuo Awai (Hiroshima Univ.)

Sponsored by: Canon Medical Systems Corporation
  
- Luncheon Seminar 13: April 13 (Sat.) 12:00-12:50 (301)

〔CT Technology Revolution,  
-Wide coverage, Dual Energy and Next Generation Technology-〕

	Moderator: Masaaki Akahane (International Univ. of Health and Welfare)
1. Revolution CT Clinical Benefit and Next Generation Technology for Chest	Masahiro Yanagawa (Osaka Univ.)
2. Revolution CT Clinical Benefit and Next Generation Technology for Abdomen	Satoshi Goshima (Hamamatsu Univ. School of Medicine)

Sponsored by: GE Healthcare Japan
  
- Luncheon Seminar 14: April 13 (Sat.) 12:00-12:50 (302)

〔Assessment of the PACS viewer: the key to comfortable interpretation〕

	Moderator: Ukihide Tateishi (Tokyo Medical and Dental Univ.)
	Kazuhiro Katahira (Kumamoto Chuo Hosp.)

Sponsored by: PSP Corporation.
  
- Luncheon Seminar 15: April 13 (Sat.) 12:00-12:50 (303)

〔Cutting Edge Emergency Radiology〕

	Moderator: Koichiro Yamakado (Hyogo College of Medicine)
1. Acute endovascular management of nontraumatic arterial injuries	Noritaka Kamei (Oita Univ.)
2. Trauma Evaluation And Management in the Hybrid ER System	Hiroshi Kondo (Teikyo Univ.)

Sponsored by: Fuji Pharma Co., Ltd.

- Luncheon Seminar 16: April 13 (Sat.) 12:00-12:50 (304)  
 「Essential points in MRI diagnosis for the future」  
 1. Mechanisms for alteration of MR signal intensities  
 2. Emerging technologies to change the MR future  
 3. Essential points in MRI diagnosis for the future - abdomen -  
 Sponsored by: Guerbet Japan KK

Moderator: Masahiro Jinzaki (Keio Univ.)  
 Masaya Takahashi (Guerbet Japan KK)  
 Osamu Abe (The University of Tokyo)  
 Kengo Yoshimitsu (Fukuoka Univ.)
  
- Luncheon Seminar 17: April 13 (Sat.) 12:00-12:50 (311+312)      \*Simultaneous interpretation will be provided in this seminar.  
 「The innovation in IVR by Philips Azurion and its clinical value」  
 1. Next generation pan-vascular suite: optimizing patient management and outcomes (TBA)  
 2. Usefulness of Azurion for various kinds of IVR  
 Sponsored by: Philips Japan, Ltd.

Moderator: Shiro Miyayama (Fukuiken Saiseikai Hosp.)  
 Brian J. Schiro (Miami Cardiac & Vascular Institute, USA)  
 Masanori Inoue (Keio Univ.)
  
- Luncheon Seminar 18: April 13 (Sat.) 12:00-12:50 (313+314)  
 「Effectiveness of MRI-guided Radiation Therapy System」  
 Sponsored by: Itochu Corporation

Moderator: Keiichi Jingu (Tohoku Univ.)  
 Hiroshi Igaki (National Cancer Center Hosp.)
  
- Luncheon Seminar 19: April 13 (Sat.) 12:00-12:50 (315)  
 「Latest CT technology & Forefront of Artificial Intelligence    ~Expanding Precision Medicine~」  
 1. Latest CT technology: Ability of Tin filter technology  
 2. How AI can change a radiologist's daily life  
 Sponsored by: Siemens Healthcare K.K.

Moderator: Hiroya Ojiri (The Jikei Univ. School of Medicine)  
 Munemasa Okada (Yamaguchi Univ. Hosp.)  
 Bastian Oliver Sabel (Ludwig-Maximilians-University of Munich, Germany)
  
- Luncheon Seminar 20: April 13 (Sat.) 12:00-12:50 (416+417)  
 「Future Perspective for Diagnosis with 3D Bone SPECT  
 -Imaging Technique and Clinical-」  
 1. Feasibility of the rapid bone-SPECT/CT imaging  
 2. Importance of SPECT / CT in bone scintigraphy role of GI-BONE  
 Sponsored by: Nihon Medi-Physics Co., Ltd.

Moderator: Atsutaka Okizaki (Asahikawa Medical Univ.)  
 Kenta Miwa (International Univ. of Health and Welfare)  
 Shigeaki Higashiyama (Osaka City Univ.)
  
- Luncheon Seminar 21: April 13 (Sat.) 12:00-12:50 (F205+206)  
 「Optimizing image quality via injection protocol method」  
 1. Personalization of contrast enhancement protocol using “contrast enhancement optimizer”  
 2. History of contrast agent administration method research and future prospect: Including utilization of AI  
 Sponsored by: Nemoto Kyorindo Co.,Ltd.

Moderator: Yasuyuki Yamashita (Kumamoto Univ.)  
 Toru Higaki (Hiroshima Univ.)  
 Takeshi Nakaura (Kumamoto Univ. Hosp.)
  
- Luncheon Seminar 22: April 14 (Sun.) 12:00-12:50 (Main Hall)  
 「Contrast agent safe use: Latest guidelines and recent progress」  
 Sponsored by: Eisai Co., Ltd.

Moderator: Yukunori Korogi (Univ. of Occupational and Environmental Health)  
 Yoshito Tsushima (Gunma Univ.)
  
- Luncheon Seminar 23: April 14 (Sun.) 12:00-12:50 (301)  
 「Current trends in medical radiation exposure and dose management」  
 Sponsored by: Bayer Yakuhin, Ltd.

Moderator: Susumu Kanazawa (Okayama Univ.)  
 Yusuke Inoue (Kitasato Univ.)

- Luncheon Seminar 24: April 14 (Sun.) 12:00-12:50 (302)  
 「New era of MR innovation: close to patients」  
 1. Body MRI up-to-date: AIR Technology and advanced applications  
 2. PET/MRI : breaking barriers with simultaneous acquisition  
   -What is the key difference from PET/CT?-  
 Sponsored by: GE Healthcare Japan

Moderator: Noriyuki Tomiyama (Osaka Univ.)  
 Masahiro Yanagawa (Osaka Univ.)  
 Munenobu Nogami (Kobe Univ.)
  
- Luncheon Seminar 25: April 14 (Sun.) 12:00-12:50 (303)  
 「The imaging leading to best treatment -Evaluation of metastasis changes treatment strategy for prostate cancer-」  
 Sponsored by: FUJIFILM Toyama Chemical Co., Ltd.

Moderator: Masahiro Jinzaki (Keio Univ.)  
 Yasuhide Miyoshi (Yokohama City Univ. Medical Center)
  
- Luncheon Seminar 26: April 14 (Sun.) 12:00-12:50 (304)  
 「Breast MRI - from basics to advanced -」  
 Sponsored by: Siemens Healthcare K.K.

Moderator: Yasuo Nakajima (Radiology Consultation Clinic)  
 Masako Kataoka (Kyoto Univ. Hosp.)
  
- Luncheon Seminar 27: April 14 (Sun.) 12:00-12:50 (311+312)  
 「Key Points of Diagnostic Imaging in Abdominal Region」  
 1. Clinical management based on the LI-RADS<sup>®</sup> v2018 and organization of iodine contrast material injection method  
 2. Update in CT diagnosis of adrenal tumor  
 Sponsored by: Guerbet Japan KK

Moderator: Takumichi Murakami (Kobe Univ.)  
 Satoshi Goshima (Hamamatsu Univ. School of Medicine)  
 Akihiro Nishie (Kyushu Univ.)
  
- Luncheon Seminar 28: April 14 (Sun.) 12:00-12:50 (313+314)  
 「Clinical use of tissue characterization diagnosis by ECV analysis using Ziostation 2」  
 1. Cardiac  
 2. Liver, Pancreas  
 Sponsored by: Ziosoft, Inc. / Amin Co. , Ltd

Moderator: Kazuo Awai (Hiroshima Univ.)  
 Seitaro Oda (Kumamoto Univ.)  
 Yoshihiko Fukukura (Kagoshima Univ.)
  
- Luncheon Seminar 29: April 14 (Sun.) 12:00-12:50 (315)  
 「HyperArc : UAB's Experience Year One and Beyond」  
 Sponsored by: Varian Medical Systems K. K.

Moderator: Natsuo Oya (Kumamoto Univ.)  
 Drexell Hunter Boggs (Univ. of Alabama at Birmingham, USA)
  
- Luncheon Seminar 30: April 14 (Sun.) 12:00-12:50 (416+417)  
 「User's experience of medical X-ray dose system "AMDS (Amidas)"」  
 1. Image diagnosis management including radiation dose management  
 2. Practical radiation dose management in CT using AMDS  
 Sponsored by: Toyo Medic Co, Ltd. / Azemoto Medical, Inc.

Moderator: Shigeki Aoki (Juntendo Univ.)  
 Masahiro Ida (Ebara Hosp.)  
 Yosuke Kogure (Juntendo Univ. Hosp.)
  
- Luncheon Seminar 31: April 14 (Sun.) 12:00-12:50 (F205+206)  
 「Evolutionary technology of general radiography」  
 1. Shimadzu's technical approach to general radiography  
 2. Approach to dynamic imaging of general radiography  
 3. Clinical value of tomosynthesis technology in hand orthopedics  
 Sponsored by: SHIMADZU CORPORATION

Moderator: Yutaka Imai (Tokai Univ.)  
 Shouji Takamura (Shimadzu Corporation)  
 Ryotaro Yuji (Tokai University Hachioji Hosp.)  
 Shinji Tsuchida (Kyoto Prefectural Univ. of Medicine)