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 (JSMPP)
  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)
  Moderator: Kanako Kumamaru (Juntendo Univ.)
  Akihiro Machitori (NCGM Kohnodai Hosp.)
  Kanako Kumamaru (Juntendo Univ.)
  1. What is Value-based Healthcare?
  2. Value-based Imaging: Patient’s Perspective
  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
  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)
  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
  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)
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)
  James A. Brink (Massachusetts General Hospital, USA)
  Jelle Barentsz (Radboudumc, Netherlands)
  Ho-Young Song (Asan Medical Center, Korea)

1. The Future of Radiology—Key Drivers for the Next Five Years
2. How Novel Imaging Techniques Will Change the Fate of Prostate Cancer Patients.
3. Evolution of Esophageal Stents: 8 Generations of Trial and Error

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 Fuchsjäger (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 Nitsu (Saitama Medical Univ. Hosp.)
  Yoshiko Hayashida (Univ. of Occupational and Environmental Health)
  James F Griffith (The Chinese University of Hong Kong, China)
  Nuttaya Pattamapaspong (Chiang Mai University, Thailand)
  Tamotsu Kamishima (Hokkaido Univ.)
  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.)
  Kazuhiro Murayama (Fujita Health Univ.)
  Tomohiro Kaneta (Yokohama City Univ.)
  Khin Khin Tha (Hokkaido Univ. Hosp.)
  Tetsuro Sekine (Nippon Medical School)
  Roh-Eul Yoo (Seoul National University, Korea)
  Seung-Koo Lee (Yonsei University College of Medicine, Korea)
  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)
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 Samurai 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 Dangoulloff-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.)
Takahiro Souma (Chiba Univ. Hosp.)
Takashi Koyama (Kurashiki Central Hosp.)
Hideki Ota (Tohoku Univ.)
Takji Yamagami (Kochi Univ.)
Hiroshi Onishi (Univ. of Yamanashi)
1. Radiology Results not Communicated by Diagnostic Errors
2. The Points of Attention in Diagnostic Radiology
3. What to Do for Radiology Reports to Be Read
4. Medical Safety of Interventional Radiology
5. Medical Safety and Security for Radiation Therapy

Symposium 2: April 12 (Fri.) 9:30-11:30 (301, Satellite:302)
[Present and Future of Radiogenomics]
Moderator: Kohsuke Kudo (Hokkaido Univ. Hosp.)
Kojima Sakai (Kyoto Prefectural Univ. of Medicine)
Hiroshi Nishihara (Keio Univ.)
Khin Khin Tha (Hokkaido Univ. Hosp.)
Manabu Kinoshita (Osaka Univ.)
1. Expectations for Radiogenomics
2. Cancer Precision Medicine based on multiple gene testing
3. Emerging Researches in “Radiogenomics”
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)
Masanami Koganemaru (Kurume Univ.)
Masanori Inoue (Keio Univ.)
Manabu Nakata (Dokkyo Medical Univ. Saitama Medical Center)
Miyuki Sone (National Cancer Center Hosp.)
Tay Kiang Hiong (Singapore General Hospital, Singapore)
1. Transcatheter Arterial Embolization for Frozen Shoulder
2. Recent Trend of Prostatic Artery Embolization
3. Interventional Radiology for Pelvic Congestion Syndrome (PCS) and Varicocele
4. Transarterial Embolization for Metastatic Liver Tumors
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.)
Kengo Yoshimitsu (Fukuoka Univ.)
Etsuko Hashimoto (Health Support Center Seibu Railway Co.,Ltd.)
1. Clinical Features, Diagnosis and Treatment of NAFLD/NASH
2. Quantification of Liver Fat and Iron using MRI
3. Ultrasound Diagnosis of Liver Fibrosis and Hepatic Steatosis
4. NAFLD/NASH and MR Elastography
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
     Koichi 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.)


- 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 Shinoya (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
   Kukuya Kitagawa (Mie Univ.)
4. Evaluation of Two Large Elements of Ischemic Heart Disease by Nuclear Cardiology
   Tomonari Kiriyama (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.)
  Yukihisa Takayama (Kyushu Univ.)
  Masafumi Toguchi (Univ. of the Ryukyus)
  Nozomi Oki (Nagasaki Univ.)
  Discussor: Taisuke Harada (Hokkaido Univ. Hosp.)
  Takao Kiguchi (Ichinomiyanishishi 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.)
  - Edward F. Jackson (University of Wisconsin, School of Medicine & Public Health, USA)
  - Mikio Suga (Chiba Univ.)

1. Quantitative Imaging in Precision Medicine: Opportunities, Challenges, and the Role of the RSNA Quantitative Imaging Biomarkers Alliance (QIBA)
2. Approach to QIBA Through Development of Phantom for Magnetic Resonance Elastography
3. JISC’s Activity for Medical Device Development
4. Recent Advances of J-QIBA

- 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)
  - Eriko Maeda (The Univ. of Tokyo)
  - 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.)
  - Tetsuo Sakamaki (Japan Agency for Medical Research and Development)
  - Shin’ichi Satoh (National Institute of Informatics)
  - Osamu Abe (The Univ. of Tokyo)
  - 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.)
  - Roka Matsubayashi (Namoto) (Kyushu Medical Center)
  - 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.)
  - Yasuyuki Kobayashi (St. Marianna Univ.)
  - 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.)
  - Noboru Tanabe (JCR Legal Adviser)
  - 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
     Hiroyuuki 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 Iriha (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 Med. Univ.)
  1. Radiation Therapy for Uterine Cervical Cancer
     Masaru Wakatsuki (Jichi Med. Univ.)
  2. Radiotherapy for Prostate Cancer
     Takeo Takahashi (Saitama Med. Center, Saitama Med. 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 Med. 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 Med. 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
     Hiromitsu 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」
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」
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 9: April 12 (Fri.) 8:00-9:00 (303, Satellite:315)
「Chest Radiology 1」
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)
「TVR 1」
1. Interventional Radiology for Venous Thromboembolism
   Hiroshi Anai (National Cerebral and Cardiovascular Center)
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」
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」
1. How to 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 13: April 12 (Fri.) 16:30-17:30 (F205+206)
「Genitourinary Radiology 1」
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」
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」
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」
1. Clinical Anatomy of Peritoneum (Mesenteries, Ligaments, and Fasciae)
   Yoshiko Hayashida (Univ. of Occupational and Environmental Health)
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]  
Moderator: Tatsuya Ohno (Gunma Univ.)
Image-Guided Brachytherapy  
Shin-pei 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  
Masuo Ujita (Tachikawa General Hosp.)
2. Image Findings of Infectious Pulmonary Nodule/Mass  
Shuji Sakai (Tokyo Women’s Medical Univ.)

**Educational Lecture 19: April 13 (Sat.) 8:00-9:00 (304)**
[IVR 2]  
Moderator: Kei Takase (Tohoku Univ.)
1. Vascular Access Intervention Therapy in Hemodialysis Patients  
Masahiro Tsuboi (Tohoku Univ.)
2. Denver Shunt and Transjugular Liver Biopsy  
Yasukazu Kako (Hyogo College of Medicine)

**Educational Lecture 20: April 13 (Sat.) 15:40-16:40 (Main Hall)**
[Neuroradiology 1]  
Moderator: Yoshiyuki Watanabe (Osaka Univ.)
1. Imaging of the Craniovertebral Junction: Congenital Anomalies, Traumatic Injuries, and Others  
Tsutomu Inaoka (Toho Univ. Sakura Medical Center)
2. Skull Base Tumors and Inflammatory/Infectious Disorders  
Harushi Mori (The Univ. of Tokyo)

**Educational Lecture 21: April 13 (Sat.) 15:30-16:30 (301)**
[Nuclear Medicine 2]  
Moderator: Kenichi Nakajima (Kanazawa Univ. Hosp.)
1. How to Write A Report of Stress Myocardial Perfusion SPECT That A Referral Doctor Requires  
Mitsuru Momose (Tokyo Women’s Medical Univ.)
2. Nuclear Cardiology for Non-Ischemic Heart Diseases  
Masao Miyagawa (Ehime Univ. Hosp.)

**Educational Lecture 22: April 13 (Sat.) 15:30-16:30 (302, Satellite:311+312)**
[Basic of Immuno-Radiotherapy 1]  
Moderator: Hitoshi Ikushima (Tokushima Univ.)
Yoshiyuki Suzuki (Fukushima Medical Univ.)

**Educational Lecture 23: April 13 (Sat.) 15:40-16:40 (304)**
[Genitourinary Radiology 2]  
Moderator: Yumiko Oishi Tanaka (The Cancer Institute Hosp. of JFCR)
1. The Spectrum of Imaging Appearance of Müllerian Duct Anomalies: Uterovaginal Anomaly, Including Renal Agenesis  
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 3]  
Moderator: Hideyuki Sakurai (Univ. of Tsukuba Hosp.)
Radiation Therapy for Pediatric Cancer; Indication of Proton Therapy  
Toshinori Soejima (Kobe Proton Center)

**Educational Lecture 25: April 13 (Sat.) 15:40-16:40 (304)**
[Musculoskeletal Radiology 2]  
Moderator: Masataku Uetani (Nagasaki Univ.)
1. Fatigue Fractures and Cartilage Lesions.  
Takenori Yonenaga (JR Tokyo General Hosp.)
2. MRI Diagnosis of Muscle, Tendon and Ligament Injuries  
Shoichiro Takao (Tokushima Univ.)

**Educational Lecture 26: April 14 (Sun.) 8:00-9:00 (Main Hall)**
[MOC Requirements] Infection Control  
Moderator: Tsutomu Tamada (Kawasaki Medical School)
A Problem Faced with Infectious Diseases and Infection Control  
Kisato Nosaka (Kumamoto Medical School)

**Educational Lecture 27: April 14 (Sun.) 8:00-9:00 (301)**
[GI Radiology 3]  
Moderator: Manabu Minami (Univ. of Tsukuba)
1. Neoplastic Diseases of the Peritoneum and Mesentery  
Ryo Takaji (Oita Univ.)
2. Non-Neoplastic and Inflammatory Diseases of the Peritoneum and Mesentery  
Akiko Sumi (Kurume Univ.)
Educational Lecture 28: April 14 (Sun.) 8:00-9:00 (302, Satellite:313+314)  
[Radiation Oncology 5] Moderator: Masatoshi Hasegawa (Nara Medical Univ.)  
Hyperbaric Oxygen Therapy for Late Radiation Adverse Events Yasue Niwa (Tsuyama Chuo Hosp.)

Educational Lecture 29: April 14 (Sun.) 8:00-9:00 (303, Satellite:311+312)  
[Chest Radiology 3] Moderator: Osamu Honda (Osaka Univ.)  
1. Imaging of the Endobronchial Tumor Katsunori Oikado (Cancer Institute Hospital of JFCR)  
2. Imaging of the Benign Pulmonary Lesion to Be Differentiated from Bronchogenic Carcinoma Masashi Takahashi (Yujin-Yamazaki Hosp.)

Educational Lecture 30: April 14 (Sun.) 8:00-9:00 (304)  
[IVR 3] Moderator: Tetsuo Sonomura ( Wakayama Medical Univ.)  
1. Venous Sampling Kazumasa Seiji (Tohoku Univ. Hosp.)  
2. Radiation Protection in Interventional Radiology Masaaki Akahane (International Univ. of Health and Welfare)

Educational Lecture 31: April 14 (Sun.) 8:00-9:00 (315)  
[Head and Neck Radiology 2] Moderator: Hiroya Ojiri (The Jikei Univ. School of Medicine)  
1. Cystic Lesions of the Neck Akira Baba (The Jikei Univ. School of Medicine)  
2. Imaging Features of IgG4-Related Disease Dai Inoue (Kanzawa Univ. Hosp.)

Educational Lecture 32: April 14 (Sun.) 8:00-9:00 (F205+206)  
[Neuroradiology 2] Moderator: Mitsuru Matsuki (Kindai Univ.)  
1. The Normal Anatomy of the Skull Base on CT and MR Imaging: Focusing on Clinical Significance in Patients. Ryutarou Uksiu (Kitsato Univ.)  
2. Points to Notice in Skull Base Imaging Mitsuru Matsuki (Kindai Univ.)

Educational Lecture 33: April 14 (Sun.) 10:40-11:40 (F205+206)  
[MOC Requirements] Medical Ethics Moderator: Toshifumi Gabata (Kanazawa Univ.)  
Hunan Research Regulations: Up to Date on Laws and Guidelines Chieko Kurihara (National Institute for Quantum and Radiological Science and Technology)

Educational Lecture 34: April 14 (Sun.) 13:20-14:20 (National Convention Hall)  
[Pediatric Radiology 2] Moderator: Kumiko Ando (Hyogo College of Medicine)  
1. Pediatric Brain Tumor and Genetics Toshio Moritani (Univ. of Michigan)  
2. Development and Abnormal Development of the Immature Brain Kazutoshi Fujita (Kanagawa Children’s Medical Center)

Educational Lecture 35: April 14 (Sun.) 13:20-14:10 (301)  
[Neuroradiology 3] Moderator: Yukio Miki (Osaka City Univ.)  
1. Imaging Diagnosis of the Pituitary Yukio Miki (Osaka City Univ.)  
2. Cavernous Sinus Minako Azuma (Miyazaki Univ.)

Educational Lecture 36: April 14 (Sun.) 13:20-14:20 (302)  
[Nuclear Medicine 3] Moderator: Hidehiko Okazawa (University of Fukui)  
1. Molecular Imaging By PET and SPECT Tracers in Brain Ischemia. Eku Shimosegawa (Osaka Univ.)  
2. Brain (Degenerative Disease) Masashi Kameyama ( Tokyo Metropolitan Geriatric Hosp. and Institute for Gerontology)

Educational Lecture 37: April 14 (Sun.) 13:10-14:10 (303)  
[Radiation Oncology 6] Moderator: Tomoki Kimura (Hiroshima Univ.)  
Basic Physics and Its Application to Clinical Practice in Radiology Masayori Ishikawa (Hokkaido Univ.)

Educational Lecture 38: April 14 (Sun.) 13:10-14:40 (304)  
[Breast Imaging] Moderator: Shuichi Monzawa (Shinko Hosp.)  
1. Basics and Practice of Breast Imaging: Mammography and Ultrasound Youichi Machida (Kameda Medical Center)  
2. Breast MRI Findings of Invasive Ductal Carcinoma Mariko Goto (Kyoto Prefectural Univ. of Medicine)  
3. Breast Cancer Molecular Subtype Imaging Features based on Mammography, Sonography, and MRI 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 Utsumi (Yokohama City Univ.)
  Hiromitsu 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 Kato (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 (Fukui 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
  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.)
Moderator: Noriyuki Tomiyama (Osaka 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」
  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.)
Moderator: Kei Takase (Tohoku 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.」
  1. Various image processing techniques with 3T MRI TRILLIUM OVAL
     Toru Higaki (Hirosima Univ.)
  2. Clinical capability of 3T TRILLIUM OVAL in the abdominal imaging
     Yuko Nakamura (Hirosima Univ.)
Moderator: Kazuo Awai (Hirosima 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 —」
  1. New approach to cardiac CT exams
     Daisuke Utsunomiya (Yokohama City Univ.)
  2. CT Innovation and Improved detectability of the Adamkiewicz Artery
     Kunihiro Yoshioka (Iwate Medical Univ.)
  3. Deep Learning based Spectral Imaging with ADCT
     Kazuo Awai (Hirosima Univ.)
Moderator: Takamichi Murakami (Kobe 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—」
  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)
Moderator: Masaaki Akahane (International Univ. of Health and Welfare)
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」
  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.)
Moderator: Koichiro Yamakado (Hyogo College of Medicine)
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
   Masaya Takahashi (Guerbet Japan KK)
2. Emerging technologies to change the MR future
   Osamu Abe (The University of Tokyo)
3. Essential points in MRI diagnosis for the future - abdomen -
   Kengo Yoshimitsu (Fukuoka Univ.)

Sponsored by: Guerbet Japan KK

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)
   Brian J. Schiro (Miami Cardiac & Vascular Institute, USA)
2. Usefulness of Azurion for various kinds of IVR
   Masanori Inoue (Keio Univ.)

Sponsored by: Philips Japan, Ltd.

Luncheon Seminar 18: April 13 (Sat.) 12:00-12:50 (313+314)

【Effectiveness of MRI-guided Radiation Therapy System】
1. Latest CT technology: Ability of Tin filter technology
   Munemasa Okada (Yamaguchi Univ. Hosp.)
2. How AI can change a radiologist’s daily life
   Bastian Oliver Sabel (Ludwig-Maximilians-University of Munich, Germany)

Sponsored by: Itochu Corporation

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
   Kenta Misawa (International Univ. of Health and Welfare)
2. Importance of SPECT / CT in bone scintigraphy role of GI-BONE
   Shigeaki Higashiyama (Osaka City Univ.)

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

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
   Hiroshi Igaki (National Cancer Center Hosp.)
2. Importance of SPECT / CT in bone scintigraphy role of GI-BONE
   Keiichi Jingu (Tohoku Univ.)

Sponsored by: Siemens Healthcare K.K.

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”
   Takeshi Nakaura (Kumamoto Univ. Hosp.)
2. History of contrast agent administration method research and future prospect: Including utilization of AI
   Toru Higaki (Hiroshima Univ.)

Sponsored by: Nemoto Kyorindo Co., Ltd.

Luncheon Seminar 22: April 14 (Sun.) 12:00-12:50 (Main Hall)

【Contrast agent safe use: Latest guidelines and recent progress】
1. Personalization of contrast enhancement protocol using “contrast enhancement optimizer”
   Yoshito Tsushima (Gunma Univ.)

Sponsored by: Eisai Co., Ltd.

Luncheon Seminar 23: April 14 (Sun.) 12:00-12:50 (301)

【Current trends in medical radiation exposure and dose management】
1. Personalization of contrast enhancement protocol using “contrast enhancement optimizer”
   Yusuke Inoue (Kitasato Univ.)

Sponsored by: Bayer Yakuhin, Ltd.
Luncheon Seminar 24: April 14 (Sun.) 12:00-12:50 (302)
[New era of MR innovation: close to patients.]
Moderator: Noriyuki Tomiyama (Osaka Univ.)
1. Body MRI up-to-date: AIR Technology and advanced applications
Masahiro Yanagawa (Osaka Univ.)
2. PET/MRI: breaking barriers with simultaneous acquisition
-What is the key difference from PET/CT?-
Munenobu Nogami (Kobe Univ.)
Sponsored by: GE Healthcare Japan

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-]
Moderator: Masahiro Jinzaki (Keio Univ.)
Yasuhide Miyoshi (Yokohama City Univ. Medical Center)
Sponsored by: FUJIFILM Toyama Chemical Co., Ltd.

Luncheon Seminar 26: April 14 (Sun.) 12:00-12:50 (304)
[Breast MRI - from basics to advanced -]
Moderator: Yasuo Nakajima (Radiology Consultation Clinic)
Masako Kataoka (Kyoto Univ. Hosp.)
Sponsored by: Siemens Healthcare K.K.

Luncheon Seminar 27: April 14 (Sun.) 12:00-12:50 (311+312)
[Key Points of Diagnostic Imaging in Abdominal Region]
Moderator: Takumichi Murakami (Kobe Univ.)
1. Clinical management based on the LI-RADS® v2018 and organization of iodine contrast material injection method
Satoshi Goshima (Hamamatsu Univ. School of Medicine)
2. Update in CT diagnosis of adrenal tumor
Akihiro Nishie (Kyushu Univ.)
Sponsored by: Guerbet Japan KK

Luncheon Seminar 28: April 14 (Sun.) 12:00-12:50 (313+314)
[Clinical use of tissue characterization diagnosis by ECV analysis using Ziostation 2.]
Moderator: Kazuo Awai (Hiroshima Univ.)
Seitaro Oda (Kumamoto Univ.)
Yoshihiko Fukukura (Kagoshima Univ.)
Sponsored by: Ziosoft, Inc. / Amin Co. , Ltd

Luncheon Seminar 29: April 14 (Sun.) 12:00-12:50 (315)
[HyperArc : UAB’s Experience Year One and Beyond.]
Moderator: Natsuo Oya (Kumamoto Univ.)
Drexell Hunter Boggs (Univ. of Alabama at Birmingham, USA)
Sponsored by: Varian Medical Systems K. K.

Luncheon Seminar 30: April 14 (Sun.) 12:00-12:50 (416+417)
[User’s experience of medical X-ray dose system “AMDS (Amidas)”]
Moderator: Shigeki Aoki (Juntendo Univ.)
Masahiro Ida (Ebara Hosp.)
Yosuke Kogure (Juntendo Univ. Hosp.)
Sponsored by: Toyo Medic Co, Ltd. / Azemoto Medical, Inc.

Luncheon Seminar 31: April 14 (Sun.) 12:00-12:50 (F205+206)
[Evolutionary technology of general radiography.]
Moderator: Yutaka Imai (Tokai Univ.)
Shouji Takamura (Shimadzu Corporation)
Ryotaro Yuji (Tokai University Hachioji Hosp.)
Shinji Tsuchida (Kyoto Prefectural Univ. of Medicine)
Sponsored by: SHIMADZU CORPORATION