The 73rd Annual Meeting of the Japan Radiological Society
Collection of abstracts

Face to Faces, Face to Communities, Face to the World

President Susumu Kanazawa, M.D. (Okayama University)

Period April 10 (Thu.) – 13 (Sun.), 2014

Venue PACIFICO Yokohama
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Susumu Kanazawa

Chairperson
Shuhei Sato

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Chairperson Shuhei Sato
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Hiroyuki Ueda
Katsuya Kato
Katsuji Tozumi
Harutaka Niyama
Hiroyasu Fujiwara

Takayoshi Shinya

February 28, 2014.
Dear Colleagues,

I am very pleased to welcome you to the 73rd Annual Meeting of the Japan Radiological Society (JRS) on April 10-13, 2014 in Yokohama, Japan. As President of the JRS 2014, I have extended you a warm invitation to our conference and am very happy to see you at Yokohama.

After the catastrophic earthquake and tsunami devastated the Pacific coast of north-eastern Japan on March 11 in 2011, we all Japanese have tried to recover from many tough conditions encountered for these three years. We sincerely thank you for your best supports from all over the world. With our society members we could have usual annual meetings in 2012 and 2013 after an extraordinary web annual meeting in the spring of 2011. Now we would like to show every attendance our recovery and present activities in Japan with many thanks. We are not in long unhappiness but in hopeful rebirth now. The theme of our conference 2014 is “Face to faces, face to communities, and face to the world”. We Japanese radiologists are working and studying together with many physicians, medical staffs around us, and radiologists in the world. We would like to share good and close relationship with every attending radiologist, our hospitals, towns, and all countries in the world. Radiologists should not be standing alone but walking with all of our colleagues. As a result, we will obtain expected clinical success, real patients’ confidence, and global scientific innovation.

More than 5000 radiologists gather in our well-organized meeting to discuss, study, and gain up-to-date radiological knowledge including diagnosis and therapy. Our meeting 2014 is really open for radiologists, residents and medical students in the world. Official languages of our meeting are both English and Japanese and you are able to see English guidance everywhere in the venue. We have 32 distinguished overseas lecturers from all over the world. And over 30% of oral reports are presented in English. Globalization of our society is just coming.

With your mobile device, you can get a very convenient program and through it make schedule as you like. And you can have DICOM-data images on your mobile device at the “Image interpretation session” on April 12th.

April in Japan is the most comfortable season and you can enjoy beautiful views of the Port Yokohama and delicious...
spring cuisine in Japan. You can also enjoy "Run and walk event" with Ms. Yuko Arimori, who is the silver and bronze Olympic marathon medalist, in the early morning on April 12th. We prepare JRC lounge for attendance at the 6th floor of the venue, where, after 5 PM, you can taste not only coffee or tea but also beer or wine with enjoying beautiful night views of the Port Yokohama.

JRS 2014 welcome you with a great pleasure and we wish that every attendance will really enjoy our meeting. We are looking forward to seeing you, your face, you community, and the world in Yokohama.

Executive Committee of the 73rd Annual Meeting of the Japan Radiological Society
Shuhei Sato, Chairperson

Program Committee of the 73rd Annual Meeting of the Japan Radiological Society
Takao Hiraki, Chairperson
Honorary Member Awarding Ceremony

14:30–15:00, Friday, April 11, 2014, Main Hall

John A. Kaufman
Oregon Health & Science University Hospital, USA

Yi-Hong Chou
Taipei Veterans General Hospital, Taiwan

Atsushi Kubo
Keio University

Jiro Watarai
Akita University

Takushi Dokiya
Saitama Medical University
Overseas Invited Speakers

K. Ty Bae  
University of Pittsburgh Medical Center, USA

Pamela Catton  
Radiation Oncology Princess Margaret Cancer Centre, Canada

Yi-You Chiu  
Taipei Veterans General Hospital, Taiwan

Byung Ihn Choi  
Seoul National University Hospital, Korea

Yi-Hong Chou  
Taipei Veterans General Hospital, Taiwan

Nevra Zehra Elmas  
Ege University School of Medicine Department of Radiology, Turkey

Massimo Galia  
University of Palermo, Italy

Xian-shu GAO  
Peking University First Hospital, China

Jean-Yves Gaubert  
Timone University Hospital, France

Fiona J. Gilbert  
University of Cambridge, UK

Jafar Golzarian  
University of Minnesota, USA

Hyun Woo Goo  
Asan Medical Center, Korea

Roberto Grassi  
Second University of Naples, Italy

Ziv J Haskal  
University of Maryland Medical Center, USA

Christopher P. Hess  
University of California, San Francisco, USA

Kousei Ishigami  
University of Iowa Hearth Care, USA

Valerie P. Jackson  
Indiana University School of Medicine, USA

Eun-Young Kang  
Korea University Guro Hospital, Korea

John A. Kaufman  
Oregon Health & Science University Hospital, USA

Akira Kawashima  
Mayo Clinic, USA

Sonke Langner  
University medicine Greifswald, Germany

Hui Joong Lee  
Kyunghoek National University Hospital, Korea

Elmar Merkle  
Universitätssspital, Switzerland

Kenjirou Ohashi  
University of Iowa Carver College of Medicine, USA

Elizabeth A. Sadowski  
University of Wisconsin, USA

Yutaka Sato  
University of Iowa Hospitals and Clinics, USA

Cornelia M. Schaefer-Prokop  
Meander Medical Center, The Netherlands

Claude B. Sirlin  
University of California, San Diego, USA

Ashok Srinivasan  
University of Michigan Health System, USA

David J. Yang  
University of Texas MD Anderson Cancer Center, USA

Marc Zins  
Saint Joseph Hospital, France

(Alphabetical Order)
Dr. Sonke Langner
Dr. Hui Joong Lee
Dr. Elmar Merkle
Dr. Kenjirou Ohashi

Dr. Elizabeth A. Sadowski
Dr. Yutaka Sato
Dr. Cornelia M. Schaefer-Prokop
Dr. Claude B. Sirlin

Dr. Ashok Srinivasan
Dr. David J. Yang
Dr. Marc Zins
Considerations in this Meeting

Considerations in this Meeting are described below. For details, please see the subsequent pages.

1. The registration of the meeting is Exhibition Hall A. We do not provide pre-registration to attend the Meeting. As for invited speakers and speakers who is informed in advance, please visit "Concierge desk" in the Conference Center of the 2nd floor.

2. We will distribute numbered tickets for the Luncheon Seminar. Please bring your name tag with you since the bar code on your name tag is used to issue a ticket.

3. We have an application for the general program available. You can download the application on your smartphone or tablet PC for access to/search of the program, schedule management of the Meeting as well as access the JRS-members-only page of abstracts.

4. The congress party is held on April 11 (Fri) at the Queen’s Grand Ballroom on the second basement level of Yokohama Bay Hotel Tokyu (Former Pan Pacific Yokohama Bay Hotel Tokyu).

5. Slides of general presentations and slides of CyPos will be shown in English at the time of presentation.

6. Please register slides of your general presentation in advance. After registering the slides, please preview the slides on the web in advance. Please come to the presentation room without going to the PC preview center on the day of the presentation.

7. Disclosure of conflicts of interest applies for presentations.

8. There are two PC preview centers; one is in Exhibition Hall A and the other is on the first basement level of the Conference Center.

9. Please select your presentation slides by yourself to start your presentation.

10. The CyPos screen has a "like" button to express your sympathy. Your name is not shown when you press this button.

11. The CyPos screen has a "favorite" button. You can use this button to register abstracts that you would like to access later.

12. Synchronization of the favorite CyPos screen with favorites of the general program application is not available.

13. We will distribute images used in the image interpretation session on the web. You can see the images in advance. Please visit the website of the Annual Meeting. We have Wi-Fi available at the venue for access to the images during the session. Please bring your terminal to make access when you attend the session. PCs (Win/Mac) and tablet PCs (iOS/Android) can be used.

14. You are not able to view CyPos with tablet PCs that do not support Flash (iPad, etc.).

15. The seminar for residents (diagnosis) is an interactive seminar in which attendants participate. A clicker for the audience response system is handed out at the entrance of the seminar room. We welcome your participation.
Information

A. Registration

Registration desk  Exhibition Hall A
※ As for invited speakers and speakers who is informed in advance, please visit “Concierge desk” in the Conference Center of the 2nd floor.

Registration time
   April 10 (Thu)  9:00 to 18:00
   April 11 (Fri)  7:15 to 17:00
   April 12 (Sat)  7:15 to 17:00
   April 13 (Sun)  7:15 to 15:00

Honorary member, a member or a non-member (including supporting members);
1. Please pay the registration fee (honorary members and members: 13,000 yen, non-members (including supporting members): 20,000 yen) and receive your name tag. We do not accept a credit card, so please pay the registration fee in cash.
2. Pre registration is not provided.
3. Please wear your name tag all the time during the Meeting.
4. Please be careful not to lose your name tag. We will not reissue your name tag.
5. If you are a participant from overseas (non-members), please go to the Overseas Registration reception in the Exhibition hall.

Junior resident or a student;
1. Registration fee is 1,000 yen.
2. “Student” means students of faculty of medicine not including graduate students.
3. If you are a junior resident, download a “研修医参加申請書” from the “研修医・学生の方へ” page of the website of the 73rd Annual Meeting of the Japan Radiological Society, fill out the form and bring it with you on the day of the meeting. If you are a medical student, please do not forget your student identification card.
4. If you need a certificate of attendance, you can receive one at the JRS desk at Exhibition Hall A.
5. Seminars for residents will be held on April 11 (Fri) and 12 (Sat), we kindly recommend you to attend the seminars.
6. There will be exhibition of the latest radiological medical equipment in the Exhibition Hall during the Meeting (ITEM2014). You are welcome to visit the hall and view the equipment. You are required to wear your name tag to enter any rooms of the Meeting.

Foreign student;
1. Admission is free.
2. You are required to bring your student registration certificate issued by the president of affiliation, or your instructor, of your educational institution with you.
3. If you need a certificate of attendance, you can receive one at the JRS desk at Exhibition Hall A.

B. Luncheon seminar

Luncheon Seminar will be held from April 11th (Fri) to 13th (Sun).
1. Those who obtain a numbered ticket have priority to attend the Luncheon Seminar.
2. We will issue numbered tickets on a first-come-first-served basis on the first floor of the Conference Center and the Annex Hall between 7:15 and 11:45 on the day of the Luncheon Seminar (issuance of tickets will end when the supply of tickets runs out).
3. One ticket is available per person.
4. Please note that a numbered ticket will become void ten minutes after the beginning of the Luncheon Seminar.
5. If there are still vacant seats ten minutes after the start of the Luncheon Seminar, those who do not have a numbered ticket will be allowed entry.
6. Numbered tickets will be issued only for seminars to be held on the day.
C. Image interpretation session
Time and date: 17:30 to 19:30, April 12 (Sat)
Venue: National Convention Hall of Yokohama

DICOM images to be used for this meeting are distributed on the web. You can see the images in advance. Please visit the web page of the Annual Meeting. Key images of cases are included in the separate volume of the abstracts and posted at the Seaside Lobby on the second floor of the National Convention Hall of Yokohama. An application form is included in the separate volume of the abstracts. Please drop your application form into the box placed at the Seaside Lobby on the second floor of the National Convention Hall of Yokohama (in front of the panel of case images) or the general information desk on the second floor of the Conference Center by 12:00 on April 12 (Sat).
The awards ceremony of top performers will be held in the main hall from 19:30 on April 12 (Sat) (immediately after this session). Applicants are recommended to attend the ceremony. Answers will be posted on the members-only page of the JRS website.

D. Congress Party
Congress party will be held as follows. We welcome your participation.
Time and date: April 11 (Fri) 18:15 to 19:30
Venue: Queen’s Grand Ballroom of Yokohama Bay Hotel Tokyu B2F (Former Pan Pacific Yokohama Bay Hotel Tokyu)
Participation fee: Free

E. The following is prohibited in the presentation room.
• Taking pictures of presentation slides, etc., or shooting videos or recording of presentations However, this does not apply to those who obtain approval from the Secretariat of the Meeting in advance for the purpose of press coverage, public relations, etc. We will give an arm badge indicating "PRESS" to those with approval at the reception on the day of the presentation.

F. Report of conflicts of interest
All speakers of presentations are obliged to disclose conflicts of interest. Please download a PowerPoint slide for presentation from the website of the Annual Meeting of the Japan Radiological Society and use it. Please see the "Guidelines" and the "Bylaws" available on the website of the Japan Radiological Society.

G. Nursery
Kids Square of Yokohama Bay Hotel Tokyu is available. For details and application, please see the "託児ルーム"(nursery) page on the website of this Annual Meeting (the expense is partially subsidized).

H. Shuttle bus bound for Haneda Airport
Three buses bound for Haneda Airport (free) run from 16:15 on April 13 (Sun). The first bus will leave after the closing ceremony (non-reserved). Please go to the bus station for a free shuttle bus (in front of the main entrance on the first floor of the Conference Center). Please note that the departure time of the second and third bus has not been determined. The second and third bus will leave after all of the bus seats of the previous bus are occupied.

I. Information for speakers
• All of you who make presentations at the Meeting (including symposium, educational lectures, general presentation, CyPos presentation, etc.) have a duty to disclose conflicts of interest. Please download a PowerPoint slide for presentation from the website of the Japan Radiological Society (http://www.radiology.jp/modules/news/article.php?storyid=947) and use it. Please insert the slide on the second page of your presentation.
• Registration methods of presentation data differ depending on programs. Please see "1. To speakers of general presentation" or "2. To lecturers (excluding general presentation)" on the next page.
Please take the seat of the next speaker in the session room at least 15 minutes before your session starts.
Please note that you are not allowed to modify your presentation data in the presentation room.
Please open the title screen by yourself. Click your title displayed on the monitor to start your presentation. Please operate your slides by yourselves by using the keyboard and mouse on the podium.
Your presentation data is temporarily stored in the PC preview center or the server for pre-registration. We will destroy your data in a responsible manner after the Meeting.

1. To speakers of general presentation
   1) Please make pre-registration of your presentation data (general presentation (oral narration), general presentation (Cypos + oral narration) on the web from March 10 (Mon) to April 4 (Fri) (by noon). (The pre-registration period for CyPos data (general presentation (CyPos + oral narration)/educational display/actual equipment display) is between February 5 (Wed) 2014 and noon on March 5 (Wed) 2014.)
   2) After you register your presentation data, please check your slides on the online preview screen. You are allowed to modify your data and check on the preview screen anytime during the registration period.
   3) If you complete pre-registration and confirmation on the preview screen, you do not have to confirm the data at the PC preview center on the day of the presentation. Please come to the session room without going to the PC preview center.
   4) You are not allowed to replace the registered data with new data or modify the registered data after the pre-registration period (including during the Meeting period), in principle.
   5) We will send detailed information to the email address you registered at the time of registration of your presentation. The information is also posted on the page of pre-registration presentation slides on the website of the 73rd Annual Meeting of the Japan Radiological Society (URL). Please confirm the website.
   6) Please keep the time limit of the presentation.
       Oral narration Seven-minute presentation and three-minute discussion
       CyPos presentation Four-minute presentation
   7) Please be sure to finish your presentation within the allocated time regardless of any trouble with projection.

2. To lecturers (excluding general presentation)
   1) When you use your data during your presentation:
       (1) Please confirm your presentation data to be used in your lecture in the PC preview center at least sixty minutes before your lecture. An operator is in the PC preview center to help you as needed. Please let us know if you use videos and sound at the time of data registration.
       (2) Media that you are allowed to use in your presentation are as follows:
           Only Windows data are allowed. Please use USB flash memory to store data (the use of CD-R (W) or DVD-R (W) are not allowed). The maximum data capacity should be 512MB.
           * If you create your lecture data by Macintosh, please use your own PC for your lecture.
       (3) A Windows PC with MS PowerPoint installed is setup in the room. Your PowerPoint version should be from 2003 to 2013.
       (4) All PCs to be used for lectures are set to XGA (1,024 × 768). Please check the layout of your data after setting the resolution of your PC to XGA.
       (5) The file name should be “short title_.Speakers name”
           (ex.: Cardiac MRI_Shuhei Sato).
       (6) If you have reference files such as videos, please store all data in the same file.
           Please use video files that can be played by Codec in Windows7 (OS) and Windows Media Player 11. (Video files in the form of WMV are recommended.)
       (7) Since there is potential for virus infection through various media, please check your data with the latest antivirus software.
       (8) After creating data to be used in your lecture, please check normal operation of the data using a PC other than that used for the data creation.
       (9) After previewing, your data will be transferred through LAN to the presentation room.
2) To those who use your own PC
   (1) When you use your own PC, please confirm that it is capable of external display output at the PC preview center. We have a “D-sub15 pin (mini)” cable available in the presentation room. Some laptop computers need a conversion connector. Please bring a connector if your computer needs it.
   (2) Please use an AC adapter so that the battery does not go dead. Please do not set a password in preparation for a reboot. If the output terminal is not D-sub15 pin (mini), please bring a connection adapter.
   (3) The screen size (resolution) should be XGA (1,024 × 768).
   (4) Please confirm that all data are shown on the screen of your PC without any problems in this environment in advance.
   (5) Please cancel the setting of screen saver and power saver in advance.

J. Information on Viewing to the electric poster (CyPos)
1. Viewing before the Meeting
   1) Viewing to the electric poster (CyPos) is not available before the Meeting.

2. Viewing during the Meeting
   1) Viewing
      General presentations (CyPos + oral narration)/educational display/actual equipment display presentations are registered in CyPos. During the Meeting, you can access CyPos from the PC in the Marine Lobby on the first floor of the National Convention Hall. Furthermore, you can access CyPos from your own PC via the Internet in Wi-Fi areas inside and outside the venue.
   2) Steps
      When you select the JRS button in the front page on the PC screen, you are required to enter login ID/password. Please enter your login ID/password printed on your name tag.
   3) List/search
      The list for search by category is displayed according to the presentation category at the time of registration of presentations. The list of award winning presentations and educational displays is shown. You can search all presentations registered in CyPos by speakers’ names, institutions and full text of presentations.
   4) File format
      You can download presentations from speakers who approve publication in PDF format after the Meeting. However, please note that the resolution of images is low in terms of copyright protection.

3. Viewing after the Meeting
   1) Only registrants of the Meeting have access to CyPos after the Meeting. [Period: April 13 (Sun) 15:00 to April 30 (Wed) noon]. You can access CyPos on the website of the 73rd Annual Meeting of the Japan Radiological Society.
   2) You are not allowed to access presentations if the speaker does not approve access after the Meeting.
   3) The way to access after the Meeting is shown on your name tag (URL to access CyPos, ID, password). Please access to CyPos using the URL, ID and PW.

K. JRC Lounge
   We open a JRC lounge at Baybridge Cafeteria in the sixth floor of the conference center. Free coffee service is offered until 17:00. Alcoholic beverages, such as beer or wine, will be prepared from 17:00 to 21:00 (20:30 last orders) for pay. We wait for coming of all of you.

L. Run & Walk event
   We will invite Mrs. Yuko Arimori of the Olympics silver medalist marathon runner as a guest from 6:30 on Saturday, April 12 and hold charity event Run & Walk. Let’s run and walk together, traveling the sightseeing spot in Minato Mirai areas, such as Nippon-maru Memorial Park or Kishamichi promenade. We inform you of the details in HP. Please participate by all means.
JRS Committee
Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
2-5-1 Shikata-cho, Kita-ku, Okayama-shi, 700-8558
TEL: 086-235-7313
E-mail: jrs2014@cc.okayama-u.ac.jp
URL: http://www2.convention.co.jp/jrs73/index.html

Office during the meeting
213, the second floor of the Conference Center at Pacífico Yokohama
Programs
Programs

Main theme: Face to Faces, Face to Communities, Face to the World
Period: April 10(Thu.) ~ 13(Sun.), 2014
Venue: PACIFICCO Yokohama
1-1-1 Minatomirai, Nishi-ku, Yokohama 220-0012, Japan
Tel: +81-45-221-2155

• Lecture Meeting Place: National Convention Hall · Conference Center · Annex Hall
• Oral Session Place: Conference Center · Annex Hall
• CyPos Session Booth: National Convention Hall Marine Lobby
• Product Exhibition Area: National Convention Hall Marine Lobby
• ITEM2014 Venue: Exhibition Hall A, B, C, D
• General Information: Exhibition Hall A · Conference Center 2F
• PC Preview Center: Exhibition Hall A
Conference Center B1F

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February 28, 2014.
I. Joint Sessions for Japan Radiology Congress

- Opening Ceremony: April 11 (Fri.) 13:00–14:30 (Main Hall)
  Performance: Tokyo Metropolitan University Orchestra
  President: Susumu Kanazawa (Okayama University)
  The 73rd Annual Meeting of the Japan Radiological Society
  Conference President: Yoichi Eguchi (Yamagata University)
  The 70th Annual Scientific Congress of the JSRT
  Congress Chair: Masahiro Fukushi (Tokyo Metropolitan University)
  The 107th Scientific Meeting of the Japan Society of Medical Physics
  Chairman: Kenichi Komatsu
  Japan Medical Imaging and Radiological Systems Industries Association

- JRC2014 Special Lecture: April 11 (Fri.) 14:00–14:30 (Main Hall)
  Moderator: Kazuro Sugimura (Kobe Univ.)
  Now and future of research and application of iPS cells
  Junya Toguchida (National Cancer Institute, NIH; Molecular Imaging Program)

- Joint Symposium 1: April 12 (Sat.) 9:10–11:35 (Main Hall)
  "Interventional radiology: Make it safer and secure"
  Moderator: Sachio Kuribayashi (Keio Univ.)
  1. Radiation exposure of IVR
     Hiromichi Yokoyama (National Cerebral and Cardiovascular Center)
  2. Development of a robot for CT-guided intervention: Free physicians from radiation
     Takao Hiraki (Okayama Univ.)
  3. Patient care in interventional radiology for safety: Nurse perspective
     Nozomi Asai (National Cancer Center)
  4. New technologies for ultrasound guided ablation therapies—Fusion imaging and needle navigation system—
     Fuminori Moriyasu (Tokyo Medical Univ.)
  5. Interventional radiology with a new tracking navigation imaging system of cone-beam CT angiography
     Takamichi Murakami (Kinki Univ.)

- Joint Symposium 2: April 12 (Sat.) 13:00–15:00 (Main Hall)
  "Reduction of medical exposure—Balance of justification and optimization"
  Moderator: Masahiro Fukushi (Tokyo Metropolitan Univ.)
  1. Pediatric CT examination: Justification and optimization
     Osamu Miyazaki (National Center for Child Health and Development)
  2. Patient doses and dose reduction in CT examinations
     Shoichi Suzuki (Fujita Health Univ.)
  3. Evidences on the cancer risk of low dose radiation
     Yoshiya Shimada (NIRS)
  4. Approach to the further appropriate justification and optimization
     Keiichi Akahane (NIRS)

- Joint Symposium 3: April 13 (Sun.) 9:10–11:10 (Main Hall)
  JRC-JFA Joint Symposium
  "Connecting talent promotion and specialist development"
  Moderator: Toru Kamikawa (Japan Football Association)
  Masao Funahashi (Osaka General Medical Center)
  1. The training to aim at the radiology specialist in Japan
     Masumi Kadoya (Shinsu Univ.)
  2. Technology transfer and professional skill
     Tsukasa Doi (Osaka University Hosp.)
  3. Training in trustworthy person
     Takeji Sakae (Univ. of Tsukuba)
4. What football brings to us  

Michie Ayabe (Japan Football Association)

**Reception for All Participants:** April 11 (Fri.) 18:15–19:30  
(Yokohama Bay Hotel Tokyu  B2F Queen’s Grand Ballroom)

**Closing and Awards Ceremony:** April 13 (Sun.) 15:00–16:15 (Main Hall)  
Performance: JRC Festival Orchestra  
Program: Radetzky March
II. JRS Project

- Honorary Member Awarding Ceremony: April 11 (Fri.) 14:30~15:00 (Main Hall)
  - Moderator: Sachio Kuribayashi (Keio Univ.)
  - Susumu Kanazawa (Okayama Univ.)
  - John A. Kaufman (Oregon Health & Science University Hospital, USA)
  - Yi-Hong Chou (Taipei Veterans General Hospital, Taiwan)
  - Atsushi Kubo (Keio Univ.)
  - Takushi Dokiya (Saitama Medical Univ.)
  - Jiro Watarai (Akita Univ.)

Special Lecture

- Special Lecture: April 11 (Fri.) 11:10~11:50 (Main Hall)
  - Moderator: Kuni Ohtomo (The Univ. of Tokyo)
  - My forty-year approach during the revolutionary era of radiology:
    From practice to science and the establishment of our specialty
    Osamu Matsui (Kanazawa Univ.)

Special Project

- Special Project 1: April 12 (Sat.) 10:50~11:50 (301)
  - [How to improve your English]
    - 1. How to improve your English
    - 2. From data to English presentation and publication
    - Moderator: Hiroshi Honda (Kyushu Univ.)
    - Kosei Ishigami (University of Iowa Hospitals and Clinics, USA)
    - Isao Date (Okayama Univ.)

- Special Project 2: April 12 (Sat.) 14:20~15:20 (National Convention Hall)
  - [Gyoretsu]
    - Haruo Kitamura
    - Kazuro Sugimura (Kobe Univ.)
    - Susumu Kanazawa (Okayama Univ.)

Overseas Lecture

- Overseas Lecture 1: April 10 (Thu.) 17:00~17:30 (302)
  - Target volume delineation for esophageal carcinoma
    - Xianshu Gao (Peking University First Hospital, China)
  - Moderator: Takashi Nakano (Gunma University)

- Overseas Lecture 2: April 10 (Thu.) 16:40~17:10 (303)
  - State of the art: Imaging of the ascending aorta and aortic valve
    - Jean-Yves Gaubert (Timone University Hospital, France)
  - Moderator: Masamitsu Hatakenaka (Sapporo Medical University)

- Overseas Lecture 3: April 10 (Thu.) 16:40~17:10 (304)
  - Topics of portal venous intervention
    - Ziv J Haskal (University of Maryland Medical Center, USA)
  - Moderator: Shozo Hirota (Hyogo College of Medicine)

- Overseas Lecture 4: April 10 (Thu.) 11:15~11:45 (Annex Hall F203+204)
  - CT colonography
    - Roberto Grassi (The Second University of Naples, Italy)
  - Moderator: Yutaka Imai (Tokai University)
• Overseas Lecture 5: April 11 (Fri.) 16:00~16:30 (301)
  Moderator: Katsuyoshi Ito (Kawasaki Medical School)
  Magnetic Resonance Imaging of Non-Alcoholic Fatty Liver Disease
  Claude Sirlin (University California, USA)

• Overseas Lecture 6: April 11 (Fri.) 10:10~10:40 (302)
  Moderator: Shuji Sakai (Tokyo Women’s Medical University)
  Lung cancer imaging
  Cornelia M. Schaefer-prokop (Meander Medical Center, The Netherlands)

• Overseas Lecture 7: April 11 (Fri.) 16:00~16:30 (302)
  Moderator: Yasuo Nakajima (St. Marianna University School of Medicine)
  Abdominal vascular emergencies and MDCT techniques
  Nevra Zehra Elmas (Ege University School of Medicine, Turkey)

• Overseas Lecture 8: April 11 (Fri.) 10:00~10:30 (303)
  Case based tour through the central skull base
  Moderator: Toshihide Ogawa (Tottori University)
  Christopher Hess (Neuroradiology at UCSF, USA)

• Overseas Lecture 9: April 11 (Fri.) 9:50~10:20 (304)
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• Overseas Lecture 10: April 11 (Fri.) 9:10~9:40 (311+312)
  Particulate Embolization: from engineering to future direction
  Moderator: Hidefumi Mimura (Kawasaki Medical School Kawasaki Hospital)
  Jafar Golzarian (University of Minnesota, USA)

• Overseas Lecture 11: April 11 (Fri.) 16:10~16:40 (315)
  Breast MRI – Current practice in Europe
  Moderator: Kunihiko Fukada (The Jikei University School of Medicine)
  Fiona Gilbert (University of Cambridge Radiology Department, UK)

• Overseas Lecture 12: April 11 (Fri.) 10:10~10:40 (Annex Hall F205+206)
  Next generation radiotherapy practice: Innovative technology is just the beginning
  Moderator: Kenji Nemoto (Yamagata University)
  Pamela Catton (University of Toronto, Canada)

• Overseas Lecture 13: April 12 (Sat.) 10:10~10:40 (301)
  State of the art imaging of spinal cord diseases: Review of common pathologies and recent advances
  Moderator: Takaaki Hosoya (Yamagata University)
  Ashok Srinivasan (University of Michigan Health System, USA)

• Overseas Lecture 14: April 12 (Sat.) 16:00~16:30 (301)
  Current practice in pediatric cardiac CT
  Moderator: Naofumi Matsunaga (Yamaguchi University)
  Hyun Woo Goo (Asan Medical Center, University of Ulsan College of Medicine, Korea)
Overseas Lecture 15: April 12 (Sat.) 13:50~14:20 (303)
Moderator: Tamio Kushihashi (Showa University Northern Yokohama Hospital)
Respiratory tract infection imaging
Eun-Young Kang (Korea University Guro Hospital Korea)

Overseas Lecture 16: April 12 (Sat.) 15:30~16:00 (303)
Moderator: Koichiroy Yamakado (Mie University)
Trends in publishing, bibliometrics, and beyond: Perspectives from JVIR editor
Ziv J Haskal (University of Maryland Medical Center, USA)

Overseas Lecture 17: April 12 (Sat.) 13:50~14:20 (304)
Moderator: Takuji Yamagami (Hiroshima University)
New development of local ablation in the treatment of malignant hepatic neoplasms
Yi-You Chiu (Taipei Veterans General Hospital, Taiwan)

Overseas Lecture 18: April 12 (Sat.) 9:50~10:20 (311+312)
Moderator: Kazuo Awai (Hiroshima University)
High-field MR imaging: Are we there yet?
K. Ty Bae (University of Pittsburgh Medical Center, USA)

Overseas Lecture 19: April 12 (Sat.) 9:50~10:20 (313+314)
Moderator: Morio Sato (Wakayama Medical University)
Will intervention stay in radiology?
John A. Kaufman (Oregon Health and Science University, USA)

Overseas Lecture 20: April 12 (Sat.) 13:30~14:00 (315)
Moderator: Tokiko Endo (Nagoya Medical Center Clinical Research Center)
Mammography interpretation: Masses
Valerie P. Jackson (Indiana University School of Medicine, USA)

Overseas Lecture 21: April 12 (Sat.) 10:30~11:00 (Annex Hall F205+206)
Moderator: Masaaki Akahane (NTT Medical Center Tokyo)
New paradigm for management of HCC by imaging
Byung Ilm Choi (Seoul National University Hospital, Korea)

Overseas Lecture 22: April 12 (Sat.) 13:00~13:30 (Annex Hall F205+206)
Moderator: Masayuki Kanematsu (Gifu University)
MR cholangiography—From 2D to 4D imaging
Elmar Merkle (Universitatsspital, Switzerland)

Overseas Lecture 23: April 12 (Sat.) 14:10~14:40 (Annex Hall F205+206)
Moderator: Tsutomu Tamada (Kawasaki Medical School)
State of the art MDCT and MRI in assessment of pancreatic cancer
Marc Zins (Saint Joseph Hospital, France)

Overseas Lecture 24: April 12 (Sat.) 15:40~16:10 (Annex Hall F205+206)
Moderator: Kengo Yoshimitsu (Fukuoka University)
US-guided percutaneous RFA of difficult locations in liver: Tips and tricks
Yi-Hong Chou (Taipei Veterans General Hospital, Taiwan)

Overseas Lecture 25: April 13 (Sun.) 9:10~9:40 (302)
Moderator: Yoshifumi Narumi (Osaka Medical College Hospital)
Renal tumor imaging
Massimo Galia (The University of Palermo, Italy)
Overseas Lecture 26: April 13 (Sun.) 10:40~11:10 (302) Moderator: Takehiko Gokan (Showa University)
Evolving and expanding role of MRI for the diagnosis and management of prostate cancer
Akira Kawashima (Mayo Clinic, USA)

Overseas Lecture 27: April 13 (Sun.) 13:00~13:30 (302) Moderator: Takao Kodama (University of Miyazaki)
Periatherapeutic radiology for head and neck cancer
Hui Joong Lee (Kyungpook National University Hospital, Korea)

Overseas Lecture 28: April 13 (Sun.) 9:10~9:40 (303) Moderator: Yasuaki Arai (National Cancer Center Hospital)
How to write a good scientific paper
Ziv J Haskal (University of Maryland Medical Center, USA)

Overseas Lecture 29: April 13 (Sun.) 10:10~10:40 (304) Moderator: Kaori Togashi (Kyoto University)
MRI of cervical cancer: Update and future directions
Elizabeth A. Sadowski (Obstetrics and Gynecology University of Wisconsin, USA)

Overseas Lecture 30: April 13 (Sun.) 10:20~10:50 (311+312) Moderator: Shigeru Ehara (Iwate Medical University)
Imaging of bone tumors
Sonke Langner (Universitymedicine Greifswald, Germany)

Overseas Lecture 31: April 13 (Sun.) 13:00~13:30 (311+312) Moderator: Masataka Uetani (Nagasaki University)
Image-guided procedures in musculoskeletal radiology
Kenjiro Ohashi (University of Iowa Hospitals & Clinics, USA)

Overseas Lecture 32: April 13 (Sun.) 9:10~9:40 (315) Moderator: Eiichi Kohda (Toho University)
Imaging of child abuse
Yutaka Sato (University of Iowa Hospitals & Clinics, USA)

Special Symposium
Symposium 1: April 11 (Fri.) 9:10~11:10 (Main Hall) [ Hepatobiliary and pancreatic imaging: Update. ] Moderator: Katsuyoshi Ito (Kawasaki Medical School)
Toshihumi Gaba (Kanazawa Univ.)
1. Hepatocellular carcinoma: Current trends in diagnostic radiology Kazuhiko Ueda (Shinshu Univ.)
2. Imaging of hepatic pseudolesions and pseudotumors in the third infl ow area Satoshi Kobayashi (Kanazawa Univ.)
3. Imaging diagnosis update: Biliary system Kengo Yoshimitsu (Fukuoku Univ.)
4. Pancreatic cancer Hiroyuki Irie (Saga Univ.)

Symposium 2: April 11 (Fri.) 9:10~11:10 (301) [ Clinical research. ] Moderator: Yasuaki Arai (National Cancer Center)
Yasuhiro Fujwara (National Cancer Center)
1. Clinical studies and clinical practice guidelines: Their importance Yasushi Kaji (Dokkyo Medical Univ.)
2. Supporting system of clinical research—A challenge by Kyushu University Yoichi Nakanishi (Kyushu Univ.)
3. Radiologists and clinical trials - Requirements to radiologists - Yasuaki Arai (National Cancer Center)
4. Principle and practice of clinical research Yasuhiro Fujiwara (National Cancer Center)
5. Multi-institutional clinical trials in radiation oncology Masahiko Oguchi (Cancer Institute Hosp)
6. The importance of clinical trials for the approval Toshihiro Tanaka (PMDA)

Symposium 3: April 11 (Fri.) 15:10~17:10 (Main Hall)
[Don’t miss systemic diseases: Clues to diagnosis] Moderator: Masaaki Akahane (NTT Medical Center Tokyo)
Taro Shimono (Osaka City Univ.)
1. Neuroimaging findings in systemic diseases Taro Shimono (Osaka City Univ.)
2. Diagnosing systemic diseases based on chest imaging findings Hiroaki Sugiura (Keio Univ.)
3. Imaging findings of systemic diseases involving the abdomen Takashi Koyama (Kurashiki Central Hospital)
4. Characteristic musculoskeletal lesions associated with systemic diseases Hajime Fujimoto (Numazu City Hosp.)

Symposium 4: April 11 (Fri.) 15:10~17:10 (303)
[Medical education: Present and future] Moderator: Hiroshi Honda (Kyushu Univ.)
Susumu Kanazawa (Okayama Univ.)
1. Medical training to aim at diagnostic radiologist in Japan Masumi Kadoya (Shinshu Univ.)
2. Current status and future direction of radiation oncology education in Japan Kenji Nemoto (Yamagata Univ.)
3. Radiology Residency in US Yutaka Sato (University of Iowa Hospitals & Clinics, USA)
4. Medical education for primary and secondary care in Japan Tatsuto Ashizawa (Tokyo Medical University Hachioji Medical Center)

Symposium 5: April 12 (Sat.) 9:10~11:10 (303)
[Local therapy for lung cancer: Current status] Moderator: Masahiro Hiraoka (Kyoto Univ.)
Yoichi Nakanishi (Kyushu Univ.)
1. Surgical strategies for early stage lung cancer Hiroshi Date (Kyoto Univ.)
2. Current status of stereotactic body radiation therapy (SBRT) Yasushi Nagata (Hiroshima Univ.)
3. Carbon ion radiotherapy Tadashi Kamada (NiRS)
4. Radiofrequency ablation (RFA) Susumu Kanazawa (Okayama Univ.)

Symposium 6: April 12 (Sat.) 9:10~11:10 (304)
[Cardiac CT/MRI: Update] Moderator: Kunihiro Yoshioka (Iwate Medical Univ.)
Teruhito Mochizuki (Ehime Univ.)
1. Myocardial perfusion CT with low dose 320 row MDCT Noriko Oyama-Manabe (Hokkaido University Hosp.)
2. Dual-energy CT coronary angiography: A promising new technique for assessment of coronary plaque Yoshiro Hori (Showa University Fujigaoka Hosp.)
3. Myocardial strain analysis by cardiac MRI and CT: Clinical implication Michinobu Nagao (Kyushu Univ.)
4. A role of CT in TAVI (transcatheter aortic valve replacement) Nobuo Iguchi (Sakakibara Heart Institute Medical Examination Clinic)

Symposium 7: April 12 (Sat.) 13:00~15:00 (301)
[Imaging of dementia: Update] Moderator: Hiroshi Matsuda (National Center of Neurology and Psychiatry)
Hajime Kitagaki (Shimane Univ.)
1. Neuroimaging of Alzheimer’s disease Hiroshi Matsuda (National Center of Neurology and Psychiatry)
2. Advances of nuclear neuroimaging in dementia—Findings from multicenter studies— Kengo Ito (National Center for Geriatrics and Gerontology)

The 73rd Annual Meeting of the Japan Radiological Society, Collection of abstracts
3. Usefulness of neuroimaging for differential diagnosis of dementia
   Aya M. Tokumaru (Tokyo Metropolitan Medical Center of Gerontology)
4. Clinical practice of neuroimaging in the dementias
   Haruo Hanyu (Tokyo Medical Univ.)

Symposium 8: April 12 (Sat.) 13:00~15:30 (302)
1. Long-term outcome of high-dose IMRT with neoadjuvant hormonal therapy under early salvage policy for localized prostate cancer
   Takashi Mizowaki (Kyoto Univ.)
2. Carbon ion radiotherapy for localized prostate cancer
   Hiroshi Tsuji (NiRS)
3. Permanent low-dose-rate prostate brachytherapy
   Atsunori Yorozu (Tokyo Medical Center)
4. High-dose-rate brachytherapy for prostate cancer
   Yasuo Yoshioka (Osaka Univ.)
5. Robotic assisted laparoscopic prostatectomy for localized prostate cancer
   Shin Ebara (Okayama Univ.)

Symposium 9: April 13 (Sun.) 9:50~11:50 (303)
1. Cryoablation for renal cell carcinoma
   Koichiro Yamakado (Mie Univ.)
2. Image-guided ablation of lung cancer
   Hideo Gobara (Okayama Univ.)
3. Radiofrequency ablation for hepatocellular carcinoma
   Toshiya Shibata (Kyoto Univ.)
4. Radiofrequency ablation for the painful metastatic bone tumor
   Noboru Tanigawa (Kansai Medical Univ.)

Focus Meeting
Focus Meeting: April 12 (Sat.) 15:10~17:10 (Main Hall)
1. Update and possible confusions in pathological diagnosis
   Junya Fukuoka (Nagasaki Univ.)
2. ATS-ERS IIPs consensus classification 2013: Revised, problematic, and important points from a diagnostic radiologist
   Kiminori Fujimoto (Kurume Univ.)
3. Update of the international multidisciplinary classification of the idiopathic interstitial pneumonias: Points new and to be concerned from clinical standpoint
   Yoshikazu Inoue (National Hosp. Organization Kinki-Chuo Chest Medical Center)
**Image Interpretation Session**

- Image Interpretation Session: April 12 (Sat.) 17:30~19:30 (National Convention Hall)
  - Akihiro Nishie (Kyushu Univ.)
  - Katsuya Kato (Okayama Univ.)
  - Moderators: Yuki Shinohara (Tottori Univ.)
  - Osamu Manabe (Hokkaido Univ.)
  - Mayumi Takeuchi (The Univ. of Tokushima)
  - Tatsuo Shiode (Okayama red cross general hospital)
  - Hiroshi Juri (Osaka Medical College)
  - Kotaro Yoshida (Kanazawa Univ.)
  - Discussors: Yuki Toyoguchi (Yamagata Univ.)
  - Sachiko Nakano (Gunma Univ.)
  - Masafumi Kidoh (Amakusa Medical Center)
  - Yoshinori Tsukahara (Shinshu Univ.)
  - Takaaki Ueda (Yamaguchi Univ.)
  - Akitoshi Inoue (Shiga University of Medical Science)

**Resident Seminar**

- Resident Seminar (Diagnosis) 1: April 11 (Fri.) 9:10~11:50 (National Convention Hall): Interactive lecture
  - Moderator: Shigeki Aoki (Juntendo Univ.)
  - Kiyoshi Murata (Shiga Univ. of Medical Science)
  - 1. Neuroradiology
    - Harushi Mori (The Univ. of Tokyo)
  - 2. Uncommon in adults, but common in children
    - Tatsuo Kono (Tokyo Metropolitan Children’s Medical Center)
  - 3. Interpretation of chest X-ray findings
    - Saiko Ishihara (Nippon Medical School Musashikosugi Hosp.)
  - 4. Chest (CT)
    - Shinji Hashimura (Okayama Red Cross General Hosp.)

- Resident Seminar (Diagnosis) 2: April 12 (Sat.) 9:10~11:50 (National Convention Hall): Interactive lecture
  - Moderator: Shozo Tamura (Univ. of Miyazaki)
  - Yumiko Oishi Tanaka (Univ. of Tsukuba)
  - 1. Case review of gastrointestinal tract
    - Noriatsu Ichiba (Otsu Municipal Hosp.)
  - 2. Emergent biliary tract disorders
    - Shuichi Satoh (Yokohama-asahi General Hosp.)
  - 3. Fundamentals of musculoskeletal radiology—Special focus on skeletal metastases—
    - Hajime Fujimoto (Numazu City Hosp.)
  - 4. Tips for daily readings of gynecological MR imaging
    - Takahiro Tsuoyama (Osaka Medical College)

- Resident Seminar (Radiation Oncology): April 11 (Fri.) 15:10~17:10 (Annex Hall F205+206)
  - Moderator: Masanori Nakazawa (Jichi Medical Univ.)
  - Norio Mitsuhashi (Hitachinaka General Hosp.)
  - 1. Clinical radiation oncology for lung cancer
    - Takafumi Komiyama (Univ. of Yamanashi)
  - 2. The role and evolution of the radiation therapy in breast cancer management
    - Chikako Yamauchi (Shiga Medical Center for Adults)
  - 3. Radiotherapy for head and neck cancers
    - Satoaki Nakamura (Kyoto Prefectural Univ. of Medicine)

**Educational Lecture**

- Educational Lecture 1: April 11 (Fri.) 8:00~9:00 (National Convention Hall)
  - 司会: 田中淳司 (埼玉医科大学)
  - 鈴木 元 (国際医療福祉大学クリニック)
  - 「医療安全・放射線防護」※ JRS members only
  - 1. 核災害時におけるヨウ化カリウム予防投与

The 73rd Annual Meeting of the Japan Radiological Society, Collection of abstracts
Educational Lecture 2: April 11 (Fri.) 8:00~9:00 (Main Hall)

Digestive organ 1: Imaging of pancreatic cystic tumors
1. Pathologic diagnosis of the pancreatic cystic tumor
   Satoru Yasukawa (Kyoto Prefectural University of Medicine)
2. Diagnostic imaging of pancreatic cystic tumors
   Hirohiko Irie (Saga Univ.)

Educational Lecture 3: April 11 (Fri.) 8:00~9:00 (301)

Chest 1: Imaging of mediastinal masses 1
1. Approach in diagnostic imaging (anatomical classification, technique in examinations, and
differential diagnosis of tumors)
   Koji Takahashi (Asahikawa Medical Univ.)
2. Anatomy of thymus, thymic hyperplasia, cyst, thymolipoma, thymic epithelial tumor
   Osamu Honda (Osaka Univ.)

Educational Lecture 4: April 11 (Fri.) 8:00~9:00 (302)

Central nervous system 1: Imaging of white matter diseases in adults.
1. MS and NMO
   Yukio Miki (Osaka City Univ.)
2. White matter lesions in adult
   Masayuki Maeda (Mie Univ.)

Educational Lecture 5: April 11 (Fri.) 8:00~9:00 (303)

Cardiovascular 1: Cardiac CT and MR imaging
1. The current situation of cardiac CT
   Teruhiro Kido (Ehime Univ.)
2. Cardiac MRI: Current status and future directions
   Kenichi Yokoyama (Kyorin Univ.)

Educational Lecture 6: April 11 (Fri.) 8:00~9:00 (304)

Nuclear medicine 1: Brain diseases
1. Optimization of quantitative CBF measurement by PET and SPECT: Why and how should it be measured?
   Eku Shimosi (Osaka Univ.)
2. How to read brain perfusion SPECT images for beginners
   Kazunari Ishii (Kinki Univ.)

Educational Lecture 7: April 11 (Fri.) 8:00~9:00 (311+312)

Head and neck 1: Imaging of the salivary gland
1. The anatomy of the salivary glands
   Shinya Kakehata (Hirosaki Univ.)
2. Diagnosing common parotid tumors with MR Imaging
   Ken Motoori (Chiba Univ.)

Educational Lecture 8: April 11 (Fri.) 8:00~9:00 (313+314)

Genitourinary: Renal and retroperitoneal imaging
1. Imaging diagnosis of complications after renal transplantation
   Tsuyoshi Tajima (National Center for Global Health and Medicine)
2. Diagnostic imaging of retroperitoneal tumor and tumor-like lesion
   Takayuki Yamada (St. Marianna Univ. School of Medicine, Yokohama City Seibu Hospital)
Educational Lecture 9: April 11 (Fri.) 8:00~9:00 (315)
[Musculoskeletal 1: Role of plain X-ray]
Moderator: Hideharu Sugimoto (Jichi Medical Univ.)
1. Plain radiographic evaluation of upper extremities in the era of CT and MR imaging
   Shigeru Ehara (Iwate Medical Univ.)
2. Role of plain radiography in MRI/CT era: Lower extremities
   Kunihiko Fukuda (The Jikei Univ. School of Medicine)

Educational Lecture 10: April 11 (Fri.) 8:00~9:00 (Annex Hall F205+206)
[Radiation oncology 1: Breast and esophageal cancers]
Moderator: Yasuhiro Ogawa (Hyogo Prefectural Kakogawa Medical Center)
1. Radiotherapy in breast cancer
   Akihito Nishioka (Kochi Univ.)
2. Esophageal cancer
   Hisanori Ariga (Iwate Medical Univ.)

Educational Lecture 11: April 11 (Fri.) 9:40~10:40 (311+312)
[Interventional radiology 1: Endovascular aortic repair]
Moderator: Tsuneo Ishiguchi (Aichi Medical Univ.)
1. TEVAR for various thoracic aortic pathologies
   Junichiro Sanada (Kanazawa Univ.)
2. Endografting and embolization in the treatment of abdominal aortic aneurysms (AAA)
   Norio Hongo (Oita Univ.)

Educational Lecture 12: April 11 (Fri.) 9:10~10:10 (Annex Hall F205+206)
[Radiation oncology 2: Bladder and prostatic cancers]
Moderator: Tohru Shibata (Kagawa Univ.)
1. Chemoradiotherapy for muscle-invasive bladder carcinoma
   Hitoshi Wada (Miyagi Cancer Center)
2. Radiotherapy for prostate cancer
   Eisuke Abe (Niigata Univ.)

Educational Lecture 13: April 11 (Fri.) 15:10~16:10 (311+312)
[Interventional radiology 2: Iliac aneurysm, biliary intervention]
Moderator: Kimihiko Kichikawa (Nara Medical Univ.)
1. Endovascular treatment for iliac artery aneurysm
   Masato Yamaguchi (Kobe Univ.)
2. Percutaneous biliary intervention
   Hiroshi Anai (Nara Medical Univ.)

Educational Lecture 14: April 11 (Fri.) 15:10~16:10 (313+314)
[Radiation oncology 3: Basics of radiotherapy]
Moderator: Masatoshi Hasegawa (Nara Medical Univ.)
1. Radiation biology: Repair mechanisms of DNA double strand breaks and radiotherapy
   Koh-ichi Sakata (Sapporo Medical Univ.)
2. Basics of radiation physics for radiation therapy
   Hidetaka Arimura (Kyushu Univ.)

Educational Lecture 15: April 12 (Sat.) 8:00~9:00 (National Convention Hall)
[Medical ethics] ※ JRS members only
司会：岡田 進（日本医科大学千葉北病院）
研究倫理の近年の動向
田代 博（昭和大）

Educational Lecture 16: April 12 (Sat.) 8:00~9:00 (Main Hall)
[Digestive organ 2: Imaging of pancreatic solid tumors]
Moderator: Ryohei Kawatsuru (Juntendo Univ.)
1. Imaging diagnosis of pancreatic ductal adenocarcinoma
   Shunro Matsumoto (Oita Univ.)
2. Except for invasive ductal carcinoma
   Shintaro Ichikawa (Univ. of Yamanashi)
• Educational Lecture 17: April 12 (Sat.) 8:00–9:00 (301)
  Cardiovascular 2: Aortic dissection
  Moderator: Hiromitsu Hayashi (Nippon Medical School)
  1. Aortic dissection
     Kunihiro Yoshioka (Iwate Medical Univ.)
  2. Endovascular therapy of aortic dissection
     Noriyuki Kato (Me University Hosp.)

• Educational Lecture 18: April 12 (Sat.) 8:00–9:00 (302)
  Radiation oncology 4: Lung cancer
  Moderator: Kazushige Hayakawa (Kitasato Univ.)
  1. Chemoradiotherapy for lung
     Kuniaki Katsu (Okayama Univ.)
  2. Stereotactic body radiation therapy (SBRT) for non-small cell lung cancer
     Rikiya Onimaru (Hokkaido Univ.)

• Educational Lecture 19: April 12 (Sat.) 8:00–9:00 (303)
  Nuclear medicine 2: Cardiac imaging
  Moderator: Nagara Tamaki (Hokkaido Univ.)
  1. Assessment of cardiac function measured by quantitative gated SPECT and its clinical implication
     Mitsuru Momose (Tokyo Women’s Medical Univ.)
  2. Quantification of myocardial perfusion using SPECT
     Hirotaka Maruno (Toranomon Hosp.)

• Educational Lecture 20: April 12 (Sat.) 8:00–9:00 (304)
  Musculoskeletal 2: Imaging of knee
  Moderator: Mamoru Niitsu (Saitama Medical Univ.)
  1. MR imaging of the meniscus
     Tsutomu Inaoka (Toho Univ. Sakura Medical Center)
  2. MR imaging of the knee: Ligaments
     Mamoru Niitsu (Saitama Medical Univ.)

• Educational Lecture 21: April 12 (Sat.) 8:00–9:00 (311+312)
  Central nervous system 2: Imaging of white matter
  Moderator: Yukunori Korogi (Univ. of Occupational and Environmental Health)
  1. White matter anatomy
     Keigo Shimoji (National Center of Neurology and Psychiatry Hosp.)
  2. White matter changes in patients with dementia
     Yasuhiro Nakata (Tokyo metropolitan Neurological Hosp.)

• Educational Lecture 22: April 12 (Sat.) 8:00–9:00 (313+314)
  Head and neck 2: Imaging of thyroid and parathyroid glands
  Moderator: Makoto Sasaki (Iwate Medical Univ.)
  1. Imaging of thyroid gland
     Yoko Kaichi (Hiroshima Univ.)
  2. Imaging of parathyroid glands: Knowledge of anatomy and multimodal imaging approach
     Ryuichi Nishii (Univ. of Miyazaki)

• Educational Lecture 23: April 12 (Sat.) 8:00–9:00 (315)
  Genitourinary organ: Obstetric and gynecologic imaging
  Moderator: Ikuo Joja (Okayama Univ.)
  1. Imaging characteristics of fallopian tubal disease
     Hitoshi Abo (Toyama Pref Centr Hosp.)
  2. Maternal complications during pregnancy and post-partum period
     Hiroshi Nobusawa (Kawasaki Saiwai Hosp.)

• Educational Lecture 24: April 12 (Sat.) 8:00–9:00 (Annex Hall F205+206)
  Chest 2: Imaging of mediastinal masses 2
  Moderator: Masaki Hara (Nagoya City West Medical Center)
  1. Anterior mediastinal tumor except thymic tumors
     Yoshiharu Ohno (Kobe Univ.)
  2. Diagnostic imaging of middle and posterior mediastinal tumors
     Takahiko Nakazono (Saga Univ.)

• Educational Lecture 25: April 12 (Sat.) 9:10–10:10 (302)
  Radiation oncology 5: Hepatic and pancreatic cancers
  Moderator: Natsuo Oya (Kumamoto Univ.)
  1. Radiation therapy for liver tumor
     Hitoshi Ishikawa (Univ. of Tsukuba)
  2. Radiotherapy for pancreatic cancer
     Keiko Shibuya (Yamaguchi Univ.)
・Educational Lecture 26: April 12 (Sat.) 13:00~14:00 (National Convention Hall)

【医療安全・放射線防護 2：診断領域の医療事故防止】※JRS members only

司会：山田 憲（京都府立医科大学）
1. 全ての医療者に求められる、患者安全の柱
長尾龍雅（名古屋大学医学部附属病院）
2. 放射線科専門医としての対応
大野和子（京都大学医学部附属病院）
3. 核医学診療の中の安全性の向上に向けて
木田哲生（滋賀医科大学）

・Educational Lecture 27: April 13 (Sun.) 8:00~9:00 (Main Hall)

【医療の質：診断】※JRS members only

司会：北田雅史（熊本大）
1. 医療における情報通信技術の活用—HIEの挑戦—
安藤 裕（放射医）
2. 医療情報システム標準化の意義
本田憲幸（埼玉医科大学総合医療センター）

・Educational Lecture 28: April 13 (Sun.) 8:00~9:00 (301)

【Breast: Breast imaging】

Moderator: Takayoshi Uematsu (Shizuoka Cancer Center)
1. The criteria of comprehensive judgment for combined screening with mammography and ultrasound, radiologist need to know
Yuka Kujiraoka (Tsukuba Memorial Hosp.)
2. How to interpret breast MRI and write report for general diagnostic radiologists
Kazunori Kubota (Medical Hosp., Tokyo Medical and Dental Univ.)

・Educational Lecture 29: April 13 (Sun.) 8:00~9:00 (302)

【Digestive organ 3: Imaging of pancreatic ductal carcinoma】

Moderator: Hiromu Mori (Oita Univ.)
1. The benign lesions which need to be distinguished from pancreatic cancer
Dai Inoue (Kanazawa Univ.)
2. Significance of close cooperation with surgery, pathology and radiology for curative surgical planning against pancreatic carcinoma
Hirohisa Kitagawa (Kanazawa Univ.)

・Educational Lecture 30: April 13 (Sun.) 8:00~9:00 (303)

【Chest 3: Imaging of thoracic trauma】

Moderator: Sadayuki Murayama (Univ. of the Ryukyus)
1. What radiologists should know in trauma radiology of the thorax
Junichi Matsumoto (St. Marianna Univ. School of Medicine)
2. Imaging of thoracic injuries (including mediastinitis): Details and pitfalls
Katsunori Oikado (Tohoku University Hosp.)

・Educational Lecture 31: April 13 (Sun.) 8:00~9:00 (304)

【Nuclear medicine 3: Tumor imaging】

Moderator: Yusuke Inoue (Kitasato Univ.)
1. Clinical use of FDG-PET in the management for patients with lymphoma
Chio Okuyama (Image Communication)
2. The usefulness of PET/CT in gastrointestinal tumors
Shinya Shiraishi (Kumamoto Univ.)

・Educational Lecture 32: April 13 (Sun.) 8:00~9:00 (311+312)

【Central nervous system 3: Imaging of white matter diseases in children】

Moderator: Hitoshi Terada (Toho Univ. Sakura Hosp.)
1. Clinical keys for the diagnosis of pediatric leukodystrophy
Jun-ichi Takanashi (Kameda Medical Center)
2. Central nervous system—white matter diseases: White matter diseases in children
Hiroshi Oba (Teikyo University Hosp.)
Educational Lecture 33: April 13 (Sun.) 8:00~9:00 (313+314)
[Cardiovascular 3: Aortic aneurysm]  Moderator: Kenichi Yokoyama (Kyorin Univ.)
1. Discriminating and overlapping features of aortic aneurysm and various aortic diseases
   Takuya Ueda (St. Luke’s International Hosp.)
2. 大動脈瘤の血管内治療
   Shoji Sakaguchi (Matsubara Tokushukai Hosp.)

Educational Lecture 34: April 13 (Sun.) 8:00~9:00 (315)
1. Five genital disorders
   Mikiko Miyasaka (National Center for Child Health and Development)
2. Five non-genital disorders
   Yoshinobu Akasaka (Kobe Children’s Hosp.)

Educational Lecture 35: April 13 (Sun.) 8:00~9:00 (Annex Hall F205+206)
1. Five genital disorders
   Mikiko Miyasaka (National Center for Child Health and Development)
2. Five non-genital disorders
   Yoshinobu Akasaka (Kobe Children’s Hosp.)

Educational Lecture 36: April 13 (Sun.) 9:10~10:10 (311+312)
[Interventional radiology 3: Vertebroplasty, hepatic arterial infusion]  Moderator: Toshio Kaminou (Tottori Univ.)
1. Percutaneous vertebroplasty
   Atsushi Komemushi (Kansai Medical Univ.)
2. Intra-arterial chemotherapy for malignant hepatic tumors
   Yoshitaka Inaba (Aichi Cancer Center Hosp.)

Educational Lecture 37: April 13 (Sun.) 9:10~10:10 (Annex Hall F205+206)
[Radiation oncology 6: Palliative therapy, How to write a scientific paper]  Moderator: Yasumasa Nishimura (Kinki Univ.)
1. Palliative radiotherapy excluding for brain or bone metastasis
   Hideomi Yamashita (University of Tokyo Hosp.)
2. How to write a scientific paper on radiation oncology
   Hitoshi Ikushima (The Univ. of Tokushima)

JRS2014 CT colonography hands-on training course
JRS2014 CT colonography hands-on training course: April 10 (Thu.) 10:00~18:00 (Annex Hall)
* This is a program required your registration in advance.

[Chairperson / Lecturer / Moderator]
Gen Inuma  (National Cancer Center Hospital)
Nobuya Sasai  (Okayama Diagnostic Imaging Center)
Mototaka Miyake  (National Cancer Center Hospital)

[Program]
10:00~10:05  Opening remarks
   Susumu Kanazawa (Okayama University)
10:05~10:45  Current development of workstations for diagnosis of CT colonography
   Reports from 4 WS companies: Zio, AZE, Toshiba, Fuji
10:45~11:15  “The experience of CT colonography at a clinic in a district of Japan”
   Speaker: Eiji Kunieda (Sunrise Clinic, Gifu)
11:15~11:45  Overseas lecture
   Chairperson: Yutaka Imai (Tokai University)
   Speaker: Roberto Grassi (The Second University of Naples)
12:00~12:45  Luncheon Seminar
   "Radiographic and endoscopic findings of early colorectal cancer: Clinical features and diagnostic points toward CTC"
   Speaker: Hiroyuki Kobayashi (Fukuoka Sannou Hospital)
13:00~18:00  Hands-on training
13:00~14:20  CTC characteristics of early colorectal cancer
14:20~14:40  Q and A, Coffee break
14:40~16:00  Clinical cases of CTC screening
16:00~16:20  Q and A, Coffee break
16:20~17:50  Quiz cases
17:50~18:00  Discussion

指導者講習会  ※ JRS members only
1. 指導者講習会1: April 11 (Fri.) 11:00~11:40 (Annex Hall   F205+206)
   Moderator: Tomio Inoue (Yokohama City Univ.)
   Yoshihiro Nishiyama (Kagawa Univ.)

2. 指導者講習会2: April 13 (Sun.) 13:00~13:40 (301)
   Moderator: Takamichi Murakami (Kinki Univ.)
   Kazuo Awai (Hiroshima Univ.)

JCR Hour
1. JCR Hour: April 13 (Sun.) 11:00~11:50 (313+314)
   1. Radiology training in the United States: Recent changes in ABR certification and maintenance
      Moderator: Kimiyoshi Mizunuma (Nasu Red Cross Hospital)
      Osamu Sakai (Department of Radiology, Boston Medical Center, Boston University School of Medicine)
   2. Advancement of women radiologists in Japan
      Moderator: Hiroshi Ohnishi (Yamanashi Univ.)
      Miyuki Sone (Department of Diagnostic Radiology, National Cancer Center Hospital)

Sponsored Symposium
1. Sponsored Symposium: April 12 (Sat.) 16:00~18:00 (303)
   Moderator: Susumu Kanazawa (Okayama Univ.)
   Kimihiko Kichikawa (Nara Medical Univ.)
   「Future Perspectives of TACE in liver cancer Treatment.」
   1. The History and Current Status of Chemoembolization for Liver Cancers
      Keigo Osuga (Osaka Univ.)
   2. Microcirculation and Function of Lipiodol in Superselective TACE for Hepatocellular Carcinoma
      Osamu Matsui (Kanazawa Univ.)
   3. Advanced Techniques for Enhancing the Therapeutic Effects of TACE
      Shiro Miyayama (FukuiKen Saiseikai Hosp.)
   4. New Horizon by Lipiodol TACE Approval
      Yasuaki Arai (National Cancer Center Hosp.)

Sponsored by: Guerbet Japan KK

Luncheon Seminar
1. Luncheon Seminar 1: April 11 (Fri.) 12:00~12:50 (Main Hall)
   Moderator: Takashi Yoshiura (Kagoshima Univ.)
   1. Neuroimaging with high concentration iodine contrast medium CT
      Kazuhiro Murayama (Fujita Health Univ.)
   2. Principles and Techniques for Cardiac CT
      Fuminari Tatsugami (Hiroshima Univ.)

Sponsored by: DAIICHI SANKYO CO., LTD

2. Luncheon Seminar 2: April 11 (Fri.) 12:00~12:50 (301)
   「Hot News of digital mammography in 2014.」
   Moderator: Hiroko Kawashima (Kanazawa Univ.)
   Tokiko Endo (Nagoya Medical Center)

Sponsored by: FUJIFULM Medical Co., Ltd
Luncheon Seminar 3: April 11 (Fri.) 12:00~12:50 (302) Moderator: Noriyuki Tomiyama (Osaka Univ.)
Visualization, result and outcome
1. Introduction of GECT new technology GE Healthcare Japan
Haruhiko Machida (Tokyo Women’s Medical Univ. Medical Center East)
Sponsored by: GE Healthcare Japan

Luncheon Seminar 4: April 11 (Fri.) 12:00~12:50 (303) Moderator: Masumi Kadoya (Shinshu Univ.)
Implementation of EOB · Primovist-contrast-enhanced MRI for patients with hepatocellular carcinoma (HCC) based on Radiological/Clinical Practice Guideline for HCC 2013 –When to do ?–
Tomoaki Ichikawa (Univ. of Yamanashi)
Sponsored by: Bayer Yakuhin, Ltd.

Luncheon Seminar 5: April 11 (Fri.) 12:00~12:50 (304) Moderator: Satoru Takahashi (Kobe Univ.)
Blazing the CT field beyond current limitations with SOMATOM — Two steps ahead vs. Trying to keep up —
Toshihide Ito (Siemens Japan)
Hans-Christoph Becker (Ludwig-Maximilians Univ.)
Sponsored by: Siemens Japan K.K.

Luncheon Seminar 6: April 11 (Fri.) 12:00~12:50 (311+312) Moderator: Manabu Minami (Tsukuba Univ.)
1. New trend of body MR imaging —easy, good-looking, useful MR application of AZE Virtual Place—
Kazuhiro Katahira (Kumamoto Chuo Hosp.)
2. Reading with Image Viewers: Revisited
Soichiro Miki (The Univ. of Tokyo)
Sponsored by: AZE, Ltd.

Luncheon Seminar 7: April 11 (Fri.) 12:00~12:50 (313+314) Moderator: Kei Takase (Tohoku Univ.)
We created innovative PACS, that promote improvement of diagnostic radiologist’s ability and QOL
Kenichi Matsunaga (Takeda General Hosp.)
Sponsored by: Yokogawa Medical Solutions Corporation

Luncheon Seminar 8: April 11 (Fri.) 12:00~12:50 (315) Moderator: Kuni Ohtomo (The Univ. of Tokyo)
Advanced MRI Diagnosis and Interventional Radiology in Abdomen and Pelvis.
1. Recent Challenge in Gynecological MR Imaging
Shigeaki Uneoka (Kyoto Univ.)
2. Interventional Radiology Update: Cryoablation and IVR Center
Hideo Gobara (Okayama Univ.)
Sponsored by: Guerbet Japan KK / TERUMO CORPORATION

Luncheon Seminar 9: April 11 (Fri.) 12:00~12:50 (416+417) Moderator: Yasuyuki Yamashita (Kumamoto Univ.)
1. Current topics in Breast MRI
Mitsuhiro Tozaki (Kamedo Kyobashi Clinic)
2. Kinetic and functional MR imaging of pancreaticobiliary tract: Multifaceted approach
Katsuyoshi Ito (Kawasaki Medical School)
Sponsored by: TOSHIBA MEDICAL SYSTEMS CORPORATION

Luncheon Seminar 10: April 11 (Fri.) 12:00~12:50 (Annex Hall F205+206) Moderator: Kengo Ito (National Center for Geriatrics and Gerontology)
1. Imaging examination of dementia with lewy bodies
Takashi Kato (National Center for Geriatrics and Gerontology)
2. Clinical practice of dementia with lewy bodies  Kenji Kosaka (Medical Care Court Clinic)
Sponsored by: The Japanese Council of Nuclear Neuroimaging / FUJIFILM RI Pharma Co., Ltd.

- Luncheon Seminar 11: April 12 (Sat.) 12:00~12:50 (Main Hall)  Moderator: Sachio Kuribayashi (Keio Univ.)
  1. Clinical application of subtraction and metal artifact reduction technique for head and neck  Hirobumi Kuno (National Cancer Center Hospital East)
  2. The impact of coronary calcium subtraction CT angiography  Ryouichi Tanaka (Iwate Medical Univ.)
  3. Development of Full Iterative Reconstruction optimized for Specific Organs and Its Clinical Usefulness  Fuminari Tatsugami (Hiroshima Univ.)
Sponsored by: TOSHIBA MEDICAL SYSTEMS CORPORATION

- Luncheon Seminar 12: April 12 (Sat.) 12:00~12:50 (301)  Moderator: Hiroshi Honda (Kyushu Univ.)
  1. Hepatic perfusion CT: Current status and future perspectives  Yuko Nakamura (Hiroshima Univ.)
  2. Pancreatic perfusion CT –Bench to bedside–  Yoshihisa Tsuji (Kyoto Univ.)
Sponsored by: Eisai Co., Ltd.

- Luncheon Seminar 13: April 12 (Sat.) 12:00~12:50 (302)  Moderator: Masahiro Jinzaki (Keio Univ.)
  「Trend of the Advanced MRI Study in Japan and Overseas」
  1. Molecular and metabolic imaging by means of MRI  Masaya Takahashi (The University of Texas Southwestern Medical Center)
  2. Advanced Techniques in Abdominal MR Imaging  Hiroyoshi Isoda (Kyoto Univ.)
Sponsored by: TERUMO CORPORATION

- Luncheon Seminar 14: April 12 (Sat.) 12:00~12:50 (303)  Moderator: Noriko Aida (Kanagawa Children’s Medical Center)
  「Quiet MR Imaging」
  1. Quiet MR imaging  David Grodzki (Siemens AG)
  2. Update in MRI. Quiet sequences and Pediatric MRI  Thomas J. Vogl (University of Frankfurt, Germany)
Sponsored by: Siemens Japan K.K.

- Luncheon Seminar 15: April 12 (Sat.) 12:00~12:50 (304)  Moderator: Teruhito Mochizuki (Ehime Univ.)
  「Path to less invasive cardiac CT —Tips for optimized radiation and contrast media dose—」
  Daisuke Utsunomiya (Kumamoto Univ.)
Sponsored by: Bayer Yakuhin, Ltd.

- Luncheon Seminar 16: April 12 (Sat.) 12:00~12:50 (311+312)  Moderator: Masahito Uesugi (Hokkaido Information Univ.)
  「Prospects for the future of PACS —Current situation, Challenge and Development—」
  Ryuji Ikeda (Kumamoto University Hosp.)
  Humio Maeyatsu (Miyagi-Kosei Association Izumi Hosp.)
Sponsored by: J-MAC SYSTEM, INC.

- Luncheon Seminar 17: April 12 (Sat.) 12:00~12:50 (313+314)  Moderator: Kazuro Sugimura (Kobe Univ.)
  1. Diagnosis of Ischemia and Infarction using Cardiac CT: Possibility of IMR and Spectral CT  Teruhito Kido (Ehime Univ.)
  2. Quantitative body MR imaging in daily clinical practice: the ADC and beyond  Satoru Takahashi (Kobe Univ.)
Sponsored by: Philips Electronics Japan, Ltd.
Luncheon Seminar 18: April 12 (Sat.) 12:00~12:50 (315) Moderator: Kunihiko Fukuda (Jikei Univ.)

[Technological progress and clinical application of FPD tomosynthesis]
1. The utility for studies of orthopedics and cerebral blood vessel Takeshi Kuzuwa (Nara City Hosp.)
2. The utility for small intestine capsule endoscopic studies Teppei Omori (Tokyo Women’s Medical Univ.)
3. The utility for bronchoscopic studies Takehiro Izumo (National Cancer Center Hosp.)

Sponsored by: SHIMADZU CORPORATION

Luncheon Seminar 19: April 12 (Sat.) 12:00~12:50 (416+417)

1. The next challenge of teleradiology system Hiroshi Kano (Cent-medical Associates LLC)
2. One report of Server-less PACS via Cloud and the advantage of Mobile System for emergency cases Kunihiko Yokoyama (Central Hospital of Matto Ishikawa)

Sponsored by: TechMatrix Corporation

Luncheon Seminar 20: April 12 (Sat.) 12:00~12:50 (Annex Hall F205+206)

[Useful secondary utilization of PACS] Kazuhiro Katahira (Kumamoto Chuo Hosp.)

Sponsored by: PSP Corporation.

Luncheon Seminar 21: April 13 (Sun.) 12:00~12:50 (301) Moderator: Mitsuuru Matsuki (Kinki Univ.)

[The best use of contrast-enhanced CT enterography] Satoshi Nozu (Saitama Cancer Center)

Sponsored by: Fuji Pharma Co., Ltd.

Luncheon Seminar 22: April 13 (Sun.) 12:00~12:50 (302) Moderator: Shigeki Aoki (Juntendo Univ.)

[Innovation of the latest 3.0T MRI —New applications of Discovery MR750 Series—]
1. Neuro area ~SilentScan, 3D PROMO~ Yoshiyuki Watanabe (Osaka Univ.)
2. Body area ~2D RF excitation pulse “FOCUS”~ Masatoshi Hori (Osaka Univ.)

Sponsored by: GE Healthcare Japan

Luncheon Seminar 23: April 13 (Sun.) 12:00~12:50 (303) Moderator: Kimihiko Kichikawa (Nara Medical Univ.)

[Diagnostic imaging before and after TACE using Microspheres] Shinichi Hori (Gate Tower Institute for Image Guided Therapy)

Sponsored by: Eisai Co., Ltd.

Luncheon Seminar 24: April 13 (Sun.) 12:00~12:50 (304)
Moderator: Hiroshi Matsuda (National Center of Neurology and Psychiatry)

[Dopamine transporter imaging]
1. Clinical guideline for dopamine transporter imaging using [I-123] ioflupane SPECT Hidehiko Okazawa (Univ. of Fukui)
2. Quantitative assessment of dopamine transporter using QSPECT software Hidehiro Iida (National Cerebral and Cardiovascular Center Reserch Institute)

Sponsored by: The Japanese Council of Nuclear Neuroimaging / Nihon Medi-Physics Co., Ltd.
- Luncheon Seminar 25: April 13 (Sun.) 12:00~12:50 (311+312)
  Moderator: Kazuo Kubota (National Center for Global Health and Medicine)
  "Basic and clinical applications of PET-CT with dynamic continuous bed motion."
  Koji Murakami (Keio Univ.)
  Sponsored by: Siemens Japan K.K.

- Luncheon Seminar 26: April 13 (Sun.) 12:00~12:50 (313+314)
  Moderator: Masahiro Jinzaki (Keio Univ.)
  1. Efficacy of PhyZiodynamics in the 4-dimensional images: Non-rigid registration is promising!
  Masanori Inoue (Hiratsuka City Hosp.)
  2. Clinical implication of PhyZiodynamics in cardiovascular imaging
  Nobuo Iguchi (Sakakibara Heart Institute)
  Sponsored by: Ziosoft, Inc. / AMIN Co., Ltd.

- Luncheon Seminar 27: April 13 (Sun.) 12:00~12:50 (315)
  Moderator: Kenji Nakamura (Daito Central Hosp.)
  "Cone-beam computed tomography and new technology “EmboGuide” supporting for advanced TACE procedure."
  Shiro Miyayama (Fukui-ken Saiseikai Hosp.)
  Sponsored by: Philips Electronics Japan, Ltd.

- Luncheon Seminar 28: April 13 (Sun.) 12:00~12:50 (416+417)
  Moderator: Hiromitsu Hayashi (Nippon Medical School Hosp.)
  "Diagnostic imaging and preventive medicine
  -Current status of lung cancer CT screening and cutting edge technologies of Low dose CT-"
  1. Low Dose CT Screening for Lung Cancer in Hitachi
     Toru Nakagawa (Hitachi Health Care Center)
  2. Near Future Technology for Improving Low Dose Lung CT
     Yoshinori Funama (Kumamoto Univ.)
  Sponsored by: Hitachi Medical Corporation

- Luncheon Seminar 29: April 13 (Sun.) 12:00~12:50 (Annex Hall F205+206)
  Moderator: Takashi Mizowaki (Kyoto Univ.)
  "Early experience with knowledge based planning and future expectations."
  Sasa Mutic (FAAPM Washington Univ.)
  Sponsored by: Varian Medical Systems K.K.