

Opening Remarks

Toru Miyoshi, MD, PhD (Department of Cardiovascular Medicine, Okayama University)

Sponsored Symposium Recent Advances in Coronary Atherosclerosis Imaging

Chairperson Toru Miyoshi, MD, PhD (Department of Cardiovascular Medicine, Okayama University)
Teruhito Kido, MD., Ph.D. (Department of Radiology, Ehime University Graduate School of Medicine)

1. **Advancements in Plaque Imaging with CT**
Hideki Kawai, MD, PhD (Department of Cardiology, Fujita Health University)
2. **Coronary Artery Disease and Computational Fluid Dynamics**
Nobuo Tomizawa, MD, PhD, FSCCT (Department of Radiology, Juntendo University Faculty of Medicine)
3. **Clinical significance of cardiac computed tomographic assessment of pericardial fat and inflammation**
Eisuke Usui, MD, PhD (Department of Cardiovascular Medicine, Tsuchiura Kyodo General Hospital)
4. **Myocardial perfusion CT: detection of ischemia and prognostic assessment**
Satoshi Nakamura, MD, PhD. (Department of Advanced Diagnostic Imaging, Mie University Graduate School of Medicine)
5. **The Evolution of Deep Learning Technology in Cardiac CT**
Fuminari Tatsugami, MD (Department of Diagnostic Radiology, Hiroshima University)

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Luncheon Seminar Update the Past-year Progress

Chairperson Kunihiro Yoshioka, MD, PhD. (Dep: Radiology, Iwate Medical Univ.)

1. **Using "New Area Detector CT" for Cardiovascular Imaging**
Yutaka Chiba (CT Sales Department National Sales Division, Canon Medical Systems Corporation)
2. **Photon-counting is NAEOTOM**
Hidekazu Tanaka (CT Department, Diagnostic imaging Business Area, Siemens Healthcare K.K.)
3. **The Latest GE HealthCare Cardiology Solution**
Zhong Hao, Bachelor (CT Dept, GE HealthCare Japan K.K.)
4. **Image reconstruction technology provided by Philips for cardiac CT**
Ryo Ogawa (CT Modality Sales Specialist, DI Business Marketing Group)

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Philips Japan, Ltd.



SCCT Japan IRC Committee

Chairperson Hiromitsu Hayashi, MD. PhD (Department of Radiology, Nippon Medical School)

1. **SCCT Japan IRC Secretariat report**
Hiromitsu Hayashi, MD. PhD (Department of Radiology, Nippon Medical School)
2. **SCCT Japan IRC Educational Committee**
Yasushi Koyama, MD, PhD (Department of Diagnostic Cardiac imaging, Sakurabashi Watanabe Advanced Healthcare Hospital, Cardiovascular Center)
3. **SCCT Japan IRC International Committee**
Akira Kurata, MD, PhD (Department of Cardiology, Shikoku Cancer Center)

Special session

Chairperson Kengo Tanabe, MD, PhD (Division of Cardiology, Heart & Aorta Center, Mitsui Memorial Hospital)

Top 10 papers in 2023-2024

Rine Nakanishi, MD PhD FSCCT (Division of Cardiovascular Medicine, Department of Internal Medicine, Toho University Faculty of Medicine, Toho University Omori Medical Center)

Educational Session 1 The Role of CCT in Intervention for Structural Heart Disease

Chairperson Noriko Oyama-Manabe (Jichi Medical University Saitama Medical Center, Department of Radiology)

Shinichiro Fujimoto, MD, PhD (Department of Cardiovascular Biology and Medicine, Juntendo University Graduate School of Medicine)

1. **Perioperative assessment of MDCT in patients with undergoing TAVI**
Yusuke Watanabe MD, PhD (Department of Cardiology, Teikyo university school of medicine)
2. **How to use CT in percutaneous left atrial appendage closure**
Masato Fukunaga, MD. (Department of Cardiology, Kokura Memorial Hospital)
3. **Computed Tomography Planning for Transcatheter Mitral Valve Replacement**
Go Hashimoto, MD (Division of Cardiovascular Medicine, Toho university Ohashi Medical center)

Educational Session 2 Up-to-date in Data Acquisition and Image Analysis

Chairperson Yoshimura, Norihiko, MD. PhD. (Department of Radiology, Niigata City General Hospital)

Naoya Matsumoto MD, PhD (Nihon University Hospital, Department of Cardiology)

1. **CAD-RADS™ 2.0**
Hidenobu Takagi, MD, PhD (Department of Advanced Radiological Imaging Collaborative Research, Tohoku University)
2. **Myocardial late enhancement by CT**
Seitaro Oda, MD, PhD (Department of Diagnostic Radiology, Kumamoto University Hospital)
3. **Advantages of photon counting CT in Cardiac CT**
Yudai Asano, M.D. and Ph.D. (Department of Radiology, Okayama University Hospital)

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Program

Scientific Session

- Chairperson Yasushi Koyama, MD, PhD (Department of Diagnostic Cardiac imaging, Sakurabashi Watanabe Advanced Healthcare Hospital, Cardiovascular Center)
Yasuyuki Kobayashi M.D., Ph.D. (Dept. of Medical Information and Communication Technology Research, ST. MARIANNA UNIVERSITY SCHOOL OF MEDICINE)
- 0-1 **Effect of additive averaging on noise reduction in low-tube-voltage myocardial late iodine enhancement CT**
Junji Mochizuki MSc, RT, (Department of Radiological Technology, Minamino Cardiovascular Hospital)
- 0-2 **The basic study of calcification hardness evaluation in spectral analysis**
Shinya Hashimoto (Department of Radiology, Chiba Nishi General Hospital)
- 0-3 **Optimal Tube Voltage with Photon counting detector-CT for low keV image acquisition for contrast media reduction in CT imaging of post-TAVI patients**
Takuto Katayama, RT (Tokai University Hospital)
- 0-4 **Impact of Super Resolution-Deep Learning Reconstruction on Image Quality and Diagnostic Performance in Myocardial Static CT Perfusion Imaging**
Yusuke Kobayashi, MD (Department of Radiology, Ehime University Graduate School of Medicine)
- 0-5 **Validation of motion artifact at coronary artery with motion compensated reconstruction**
Koji Sasaki, RT (Sapporo cardio-vascular clinic)

Closing Remarks

Teruhito Kido, MD., Ph.D. (Department of Radiology, Ehime University Graduate School of Medicine)