

Program

Wednesday, 29 July

Room 1 9:00-10:30 Symposium1 [SP1]**Various Methods of PV Isolation, the Differences and Influence on Prognosis****Chairs Atsushi Takahashi***Cardiovascular Center, Yokosuka Kyosai Hospital, Kanagawa, Japan***Motoki Hara***Department of Cardiology, Higashihiroshima Medical Center, Hiroshima, Japan***SP1-1 Extensive Encircling Pulmonary Vein Isolation in Patients with Paroxysmal Atrial Fibrillation: Clinical Outcome and Recurrence beyond "Long-term success"****Shinsuke Miyazaki**, Makoto Araki, Noboru Ichihara, Takamitsu Takagi, Jin Iwasawa, Akio Kuroi, Hiroaki Nakamura, Hiroshi Taniguchi, Hitoshi Hachiya, Yoshito Iesaka*Division of Cardiology, Cardiovascular Center, Tsuchiura Kyodo Hospital, Ibaraki, Japan***SP1-2 Steerable Sheath Has an Huge Impact on Creating Durable Lesion of Pulmonary Vein Isolation (PVAI) and Hence, on the Improvement of Long-term Outcomes****Akira Fukui¹**, Takeshi Tsuchiya¹, Takanori Yamaguchi², Yasutsugu Nagamoto³, Naohiko Takahashi²*¹EP Expert Doctors-Team Tsuchiya, Kumamoto, Japan, ²Department of Cardiology and Clinical Examination, Oita University, Oita, Japan, ³Division of Cardiology, Saga-Ken Medical Centre Koseikan, Saga, Japan***SP1-3 Randomized comparison of contact force-guided versus conventional circumferential pulmonary vein isolation of atrial fibrillation: Prevalence, characteristics, and predictors of electrical reconnections and the clinical outcome****Kohki Nakamura**, Shigeto Naito, Kentaro Minami, Takehito Sasaki, Masahiro Nakano, Eri Goto, Daisuke Kutsuzawa, Yoshiaki Yamaguchi, Suguru Shimizu, Toshiaki Yano, Koji Kumagai, Shigeru Oshima*Division of Cardiology, Gunma Prefectural Cardiovascular Center, Gunma, Japan***SP1-4 Contact force-guided radiofrequency versus second-generation cryoballoon pulmonary vein isolation: An impact on early pulmonary vein reconnection and loss of pace capture at pulmonary vein ostium****Yasuhiro Yoshiga¹**, Akihiko Shimizu², Takeshi Ueyama¹, Makoto Ono¹, Takayoshi Kato¹, Tomoko Fumimoto¹, Hironori Ishiguchi¹, Masafumi Yano¹*¹The Department of Medicine and Clinical Sciences, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan, ²The Division of Health Sciences, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan*

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SP1-5 Long-term outcome study of box isolation in atrial fibrillation

Hideko Toyama, Koichiro Kumagai

Heart Rhythm Center, Fukuoka Sanno Hospital, Fukuoka, Japan

SP1-6 A Review of Nine Years' Catheter Ablation Approach for Paroxysmal Atrial Fibrillation in Yokosuka Kyosai Hospital

Kenji Okubo, Taishi Kuwahara, Katsumasa Takagi, Masateru Takigawa, Jun Nakajima, Yasuaki Tanaka, Emiko Nakashima, Kazuya Yamao, Atsushi Takahashi

Cardiovascular Center, Yokosuka Kyosai Hospital, Kanagawa, Japan

Room 1

10:30-12:00 Eiichi Kimura Memorial Lecture [EKL]

Catheter Ablation of Tachyarrhythmias: The Past, Present and Future

Chair Kazuo Matsumoto

Higashimatsuyama Medical Association Hospital, Saitama, Japan / Cardiology Department of International Medical Center Saitama Medical University, Saitama, Japan

EKL

Catheter Ablation of Tachyarrhythmias: The Past, Present and Future

Hiroshi Nakagawa

University of Oklahoma Health Sciences Center, USA

Wednesday, 29 July

Room 1 14:30-15:30 Hideo Ueda Memorial Lecture [HUL]

The Role of J Waves in Inherited Cardiac Sudden Death Syndromes ★

Chair **Hirotsugu Atarashi**

Nippon Medical School Tama Nagayama Hospital, Tokyo, Japan

HUL **The Role of J Waves in Inherited Cardiac Sudden Death Syndromes**

Charles Antzelevitch

Lankenau Institute of Medical Research / SUNY Upstate Medical University, USA

Room 1 15:30-17:30 Topics Designated by the JSE Academic Committee [TD]

Cohort Study of Arrhythmia in Japan

Chairs Kazutaka Aonuma

Cardiovascular Division, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Ibaraki, Japan

Kengo Kusano

Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

TD1 Clinical Impact of Body Surface Area on the Incidence of Atrial Fibrillation in a Population-based Cohort Study

Takashi Kobayashi¹, Yoshihiro Kokubo¹, Takuya Watanabe¹, Shiro Kamakura², Kengo Kusano²

¹*Division of Preventive Cardiology, Department of Internal Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan,* ²*Division of Cardiology, Department of Internal Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan*

TD2 Prognostic impact of supraventricular arrhythmias: From the Ibaraki Prefectural Health Study (IPHS)

Nobuyuki Murakoshi¹, Dong-Zhu Xu¹, Toshimi Sairenchi², Miyako Igarashi¹, Fujiko Irie³, Takuji Tomizawa⁴, Hiroyasu Iso⁵, Iwao Yamaguchi⁴, Hitoshi Ota⁶, Kazutaka Aonuma¹

¹*Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan,* ²*Department of Public Health, Dokkyo Medical University, Tochigi, Japan,* ³*Department of Health and Welfare, Ibaraki Prefectural Office, Ibaraki, Japan,* ⁴*Ibaraki Health Service Association, Ibaraki, Japan,* ⁵*Department of Social and Environmental Medicine, Osaka University, Osaka, Japan,* ⁶*Ibaraki Health Plaza, Ibaraki Health Service Association, Ibaraki, Japan*

TD3 Different Proportion of Patients' Characteristics Between Randomized Clinical Trials and Real World Survey in Japanese Atrial Fibrillation Patients Treated by Warfarin or New Oral Anticoagulants

Yasuo Okumura¹, Katsuaki Yokoyama², Eizo Tachibana³, Kouji Ooiwa⁴, Toshiaki Kojima⁵, Ken Arima⁶, Masayoshi Kofune⁷, Kazumiki Nomoto⁸, Masaaki Chiku⁹, Yasumi Ohno¹⁰, Atsushi Hirayama¹

¹*Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan,* ²*Division of Cardiology, Nihon University Hospital, Tokyo, Japan,* ³*Department of Cardiology, Kawaguchi Municipal Medical Center, Saitama, Japan,* ⁴*Department of Cardiology, Yokohama Social Insurance Hospital, Kanagawa, Japan,* ⁵*Department of Cardiology, Sekishin Clinic, Saitama, Japan,* ⁶*Department of Cardiology, Kasukabe Municipal Hospital, Saitama, Japan,* ⁷*Department of Cardiology, Itabashi Medical Association Hospital, Tokyo, Japan,* ⁸*Tokyo Rinkai Hospital, Tokyo, Japan,* ⁹*Keiai Fuzoku-Clinic, Tokyo, Japan,* ¹⁰*Ohno Medical Clinic, Tokyo, Japan*

TD4 Warfarin Control in Japanese May be Different from Caucasian: Study on the Base of Coagulant and Fibrinolytic Markers

Youichi Kobayashi, Akinori Ochi, Koichiro Inokuchi, Yuta Chiba, Yumi Munetsugu, Tatsuya Onuki, Norikazu Watanabe, Yoshino Minoura, Taro Adachi, Taku Asano, Yoshimi Onishi

Division of Cardiology, Department of Medicine, Showa University, Tokyo, Japan

Wednesday, 29 July

TD5

Clinical features and backgrounds of electrical storm associated with acute myocardial infarction—Multi-center registry from Tokyo CCU network—

Yoshinori Kobayashi¹, Akira Ueno¹, Hiroshige Murata², Seiji Fukamizu³, Takeshi Sasaki⁴, Kaoru Tanno⁵, Norikazu Watanabe⁵, Ken Nagao⁶, Takeshi Yamamoto⁷, Morimasa Takayama⁸

¹Division of Cardiology, Tokai University Hachioji-hospital, Tokyo, Japan, ²Nippon Medical School Tama-Nagayama Hospital, Tokyo, Japan, ³Tokyo Metropolitan Hiroo Hospital, Tokyo, Japan, ⁴Tokyo Medical and Dental University, Tokyo, Japan, ⁵Showa University, Tokyo, Japan, ⁶Nippon University, Tokyo, Japan, ⁷Nippon Medical School, Tokyo, Japan, ⁸Sakakibara Heart Institute, Tokyo, Japan

Room 1 18:00-21:00 Educational Course1 [EC1]

心臓の気持ちになって心電図を読む

座長 山科 章
東京医科大学循環器内科

EC1-1 心電図で見方が変わる急性冠症候群

小菅雅美
横浜市立大学附属市民総合医療センター循環器内科

EC1-2 リズムから読む不整脈の心電図

山根禎一
東京慈恵会医科大学循環器内科

(日本光電工業株式会社)

Wednesday, 29 July

Room 2 9:00-10:30 Panel Discussion1 [PD1]

Risk Stratification of Syncope ★

Chairs David G. Benditt

University of Minnesota Medical School, USA

Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

PD1-1 Key Note Lecture: Syncope Risk Stratification

David G. Benditt

University of Minnesota Medical School, USA

PD1-2 Single Center Experience in Japanese Patients with Syncope

Tatsuya Onuki, Yuya Nakamura, Akinori Ochi, Koichiro Inokuchi, Yuta Chiba, Yumi Munetsugu, Yoshino Minoura, Norikazu Watanabe, Taro Adachi, Mitsuharu Kawamura, Taku Asano, Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

PD1-3 Comprehensive Risk Stratification of Guidelines-Based Algorithm on a Syncope Clinic

Toshiyuki Furukawa, Tomoo Harada, Yoshihiro Akashi

Division of Cardiology, Department of Internal Medicine, St. Marianna University School of Medicine, Kanagawa, Japan

PD1-4 Paroxysmal Atrioventricular Block Detected by Implantable Loop Recorder in Syncope Patients

Ritsuko Kohno¹, Katsuhide Hayashi², Masao Takahashi², Taichi Watabe², Hisaharu Ohe², Yasushi Oginosawa², Yutaka Otsuji², Haruhiko Abe¹

¹Department of Heart Rhythm Management, University of Occupational and Environmental Health, Fukuoka, Japan,

²Department of Cardiology, University of Occupational and Environmental Health, Fukuoka, Japan

PD1-5 Risk stratification of lethal arrhythmia leading to syncope in patients with vasospastic angina

Mitsuhiro Nishizaki

Department of Cardiology, Yokohama Minami Kyosai Hospital, Kanagawa, Japan

Room 2 10:30-12:00 Panel Discussion2 [PD2]

Diagnosis to Treatment of Idiopathic Ventricular Tachycardia Originating from Left Ventricle

Chairs **Akihiko Nogami**
Cardiology Division, University of Tsukuba, Ibaraki, Japan

Yoshinori Kobayashi
Department of Cardiology, Tokai University Hachioji Hospital, Tokyo, Japan

PD2-1 Purkinje-related Ventricular Tachycardia

Akihiko Nogami
Cardiology Division, University of Tsukuba, Ibaraki, Japan

PD2-2 Idiopathic mitral annular ventricular tachycardia: Diagnosis and treatment

Hiroshi Tada
Department of Cardiovascular Medicine, Faculty of Medical Sciences, University of Fukui, Fukui, Japan

PD2-3 Idiopathic Ventricular Arrhythmia Originating from the Cardiac Crux or Inferior Septum—An Epicardial Idiopathic Ventricular Arrhythmia—

Mitsuharu Kawamura, Youichi Kobayashi
Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

PD2-4 Electrocardiographic and Electrophysiological Characteristics in Idiopathic Ventricular Arrhythmias Originating from the Papillary Muscles in the Left Ventricle

Naoki Yoshida
Department of Advanced Cardiovascular Therapeutics, Nagoya University Graduate School of Medicine, Aichi, Japan

Wednesday, 29 July

Room 2 12:10-13:10 Luncheon Seminar2 [LS2]

**Simple anticoagulation science for NOAC therapy
- challenging to elucidate advantages of Edoxaban -**

Chair Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

LS2-1 Simple anticoagulation science for NOAC therapy
- challenging to elucidate advantages of Edoxaban -

Masahiro Ieko

Department of Internal Medicine, School of Dentistry, Health Sciences University of Hokkaido, Hokkaido, Japan

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Progress in Antithrombotic Therapy

Opening Remarks

Ken Okumura

Department of Cardiology, Hirosaki University Graduate School of Medicine, Aomori, Japan

Session 1 (Basic Research)

Chairs Hideo Mitamura

Tachikawa Hospital, Tokyo, Japan

Kazutaka Aonuma

Cardiovascular Division, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Ibaraki, Japan

JSJ1 Mechanisms of arterial and venous thrombus formation

Yujiro Asada

Department of Pathology, University of Miyazaki, Miyazaki, Japan

JSJ2 Anticoagulant mechanisms of oral anticoagulants in cell-based coagulation reactions

Masahiro Ieko

Department of Internal Medicine School of Dentistry, Health Sciences University of Hokkaido, Hokkaido, Japan

Session 2 (Clinical Trial)

Chairs Tetsuhito Kojima

Nagoya University Graduate School of Medicine, Aichi, Japan

Isao Kitajima

Department of Clinical Laboratory and Molecular Pathology, Graduate School of Medicine and Pharmaceutical Science for Research, University of Toyama, Toyama, Japan

JSJ3 Periprocedural Anticoagulation Management with Novel Oral Anticoagulation Drugs (NOAC)

Kyoko Soejima

Department of Cardiology, Kyorin University Hospital, Tokyo, Japan

JSJ4 Issues and Future Solutions in Cardiogenic Stroke Prevention

Takeshi Yamashita

The Department of Cardiovascular Medicine, The Cardiovascular Institute, Tokyo, Japan

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Closing Remarks

Yukio Ozaki

Department of Clinical and Laboratory Medicine, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan

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Chairs **Kozo Suma**
Tokyo Women's Medical University, Tokyo, Japan

Kan Takayanagi
Kasukabe Kosei Hospital, Saitama, Japan

TAS1

Boris Schmidt
Cardioangiologisches Centrum Bethanien, Germany

TAS2

Christopher Piorkowski
Heart Center Dresden University, Germany

TAS3 **Cardiac Rehabilitation in Japan and Germany**

Shigeru Makita
Department of Cardiac Rehabilitation, Saitama International Medical Center, Saitama Medical University, Saitama, Japan

TAS4 **Left atrial voltage map by multipolar catheter after atrial fibrillation ablation decreased recurrence of atrial fibrillation in patients of persistent atrial fibrillation**

Norikazu Watanabe, Kou Ogawa, Yuuya Nakamura, Kouichirou Inoguchi, Akinori Ochi, Yuuta Chiba, Yumi Munetsugu, Yoshino Minoura, Taro Adachi, Mitsuharu Kawamura, Taku Asano, Kaoru Tanno, Youichi Kobayashi
Department of Cardiology, Showa University School of Medicine, Tokyo, Japan

TAS5 **Minimizing ventricular pacing: Is it the right choice for all patients?**

Giovanni Luca Botto
Sant' Anna Hospital, Italy

Wednesday, 29 July

Room 3 9:00-10:30 Symposium2 [SP2]

Device Infection and Lead Extraction—The Status Quo and Progress in Japan—★

Chairs Taijiro Sueda

Department of Cardiovascular Surgery, Hiroshima University Graduate School of Medicine, Hiroshima, Japan

Yuji Nakazato

Department of Cardiology, Juntendo University Urayasu Hospital, Chiba, Japan

SP2-1 Key Note Lecture

Oussama Wazni

Cleveland Clinic, USA

SP2-2 Role of the cardiac surgeon for lead extraction of CIEDs

Katsuhiko Imai

Department of Cardiovascular Surgery, Hiroshima University Hospital, Hiroshima, Japan

SP2-3 Device infection and lead extraction—The status quo and progress in Japan—

Masahiko Goya

Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan

SP2-4 Current status of laser lead extraction in Japan

Hideo Okamura

Division of Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

SP2-5 Hybrid lead extraction with both transvenous and surgical methods

Nobuhiro Nishii

Department of Cardiovascular Therapeutics, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan

SP2-6 Lead extraction and vegetation removal by non-laser techniques

Morio Shoda

Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan

Strategy of Heart Failure Treatment ★

Chairs Shunei Kyo

Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Tokyo, Japan

Hiroshi Ito

Department of Cardiovascular Medicine, Okayama University, Okayama, Japan

PD3-1 **How to optimize guideline-directed medical therapy in patients with heart failure?**

Koichiro Kinugawa

The Department of Therapeutic Strategy for Heart Failure, The University of Tokyo, Tokyo, Japan

PD3-2 **Impact of neuromodulation in heart failure**

Kenji Sunagawa

Department of Therapeutic Regulation of Cardiovascular Homeostasis, Center for Disruptive Cardiovascular Medicine, Kyushu University, Fukuoka, Japan

PD3-3

Oussama Wazni

Cleveland Clinic, USA

PD3-4 **Strategy of Heart Failure Treatment: LVAD**

Michael R. Gold

Medical University of South Carolina, USA

Wednesday, 29 July

Room 3 12:10-13:10 Luncheon Seminar3 [LS3]

**Atrial Fibrillation-Scientific Update-
Lack of Evidence for Rotors in Humans & Therapeutic
Implications ★**

Chair Wataru Shimizu

Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan

LS3-1 **Atrial Fibrillation-Scientific Update-
Lack of Evidence for Rotors in Humans & Therapeutic Implications**

Kalyanam Shivkumar

UCLA Cardiac Arrhythmia Center, USA

(NIHON KOHDEN Corporation)

Room 3 14:30-15:30 Debate (Medical Professionals) 1 [MD1]

EP（デバイス植え込み，アブレーション）に業者の立会いは必要である

座長 鈴木 誠
亀田総合病院循環器内科

MD1-1 賛成

矢島真知子
琉球大学医学部付属病院ME機器センター

MD1-2 反対

徳井研太
埼玉医科大学総合医療センターMEサービス部

Wednesday, 29 July

Room 3 15:30-16:30 Oral Presentation (Medical Professionals) [M1]

アブレーション1 (メディカルプロフェッショナル)

座長 大友建一郎

青梅市立総合病院 循環器内科

縮 恭一

筑波大学附属病院医療機器管理センター

M1-1 Cryo-Ablationによる肺静脈-左房間の電氣的隔離に關与する冷却パラメータの検討

高橋泰輝¹, 森田典成³, 三浦 歩², 永田吾一², 谷本 直², 川俣郁夫², 飯田剛幸³, 上野 亮³, 小林義典³

¹東海大学医学部附属八王子病院, ²東海大学医学部附属八王子病院診療協力部臨床工学技術科, ³東海大学医学部附属八王子病院循環器内科

M1-2 Cryoballoonアブレーションにおけるバルーン温度と食道温度に關する検討

藤巻愛子¹, 佐々木毅², 土井房恵¹, 榎本 豊¹, 黒沢昌子¹, 倉島直樹¹, 西村卓郎², 白井康大², 田尾 進², 滝川正晃², 川端美穂子², 合屋雅彦², 平尾見三¹

¹東京医科歯科大学医学部附属病院MEセンター, ²東京医科歯科大学医学部附属病院不整脈センター

M1-3 発作性心房細動に対する経皮的カテーテル心筋冷凍焼灼術の治療効果の検討

縮 恭一¹, 鳥羽清志郎¹, 坂元雄介¹, 山本純偉¹, 梅津 努², 黒木健志³, 五十嵐都³, 関口幸夫³, 野上昭彦³, 青沼和隆³

¹筑波大学附属病院医療機器管理センター, ²筑波大学附属病院看護部, ³筑波大学医学医療系循環器内科

M1-4 心房細動アブレーションにおける食道温モニタリング管理下での食道-左房後壁接触領域の通電と胃腸蠕動運動障害との關連

三浦 歩¹, 森田典成², 高橋泰輝¹, 永田吾一¹, 谷本 直¹, 飯田剛幸², 橋田匡史², 藤林大輔², 上野 亮², 小林義典²

¹東海大学医学部附属八王子病院臨床工学技術科, ²東海大学医学部附属八王子病院循環器内科

M1-5 心房中隔起源の嚙下誘発性心房頻拍に対してカテーテルアブレーション治療が有効であった1例

新保里佳¹, 中島基裕¹, 堀口敦史¹, 伊藤さやか¹, 樋口知之¹, 春田良雄¹, 長内宏之²

¹公立陶生病院臨床工学部, ²公立陶生病院循環器内科

デバイス（メディカルプロフェッショナル）

座長 大森裕也

日本医科大学 心臓血管外科

橋本賢一

防衛医科大学校 集中治療部

M2-1 条件付きMRI対応ペースメーカーMRI施行後のパラメータ経時変化について

関川翔太¹, 大本夏南¹, 竹谷秋浩¹, 下重忠幸¹, 山本均美², 齋藤礼衣²

¹釧路孝仁会記念病院臨床工学科, ²釧路孝仁会記念病院循環器内科

M2-2 植込み型除細動器で検出された心室細動の平均心拍数についての検討

菊池佳峰¹, 木田博太¹, 祝 桃菜¹, 小西一樹¹, 岡田華奈¹, 橋健太郎¹, 伊藤優美¹, 森本良平¹, 佐藤伸宏¹, 上野山充¹, 古川善郎², 川崎真佐登², 山田貴久², 福並正剛²

¹大阪府立急性期・総合医療センター医療技術部臨床工学室, ²大阪府立急性期・総合医療センター心臓内科

M2-3 右室中隔ペーシングの三尖弁逆流への影響（心尖部ペーシングとの比較）

内山博子¹, 田川 実², 大矢佳奈¹, 佐藤真理子¹, 落合幸江², 中村裕一², 池主雅臣³

¹長岡中央総合病院検査科, ²長岡中央総合病院循環器内科, ³新潟大学医学部保健学科

M2-4 CRT-D植込み術中に2D心エコーを用いた左室収縮最遅延部位の同定が心臓再同期療法に対し有用であった1例

辻本紘史

医療法人医仁会武田総合病院臨床工学科

M2-5 房室伝導監視型心室ペーシング抑止機能付きペースメーカーにおけるペーシングモード切替の要因についての検討

中嶋 勉¹, 安藤かおり¹, 前田 恒¹, 木内聡子¹, 角田卓哉¹, 大澤達哉¹, 栗原里佳¹, 安野 誠¹, 佐々木健人², 中村紘規², 熊谷浩司², 内藤滋人², 大島 茂²

¹群馬県立心臓血管センター技術部臨床工学課, ²群馬県立心臓血管センター循環器内科

M2-6 Brugada症候群患者のICD植込み後の生活環境変化についての調査

増田愛子¹, 井上完起², 矢川真弓子², 三村倫子¹, 望月由香¹, 前田友未¹, 宇都宮淑絵¹, 辻 孝子¹, 三浦稚郁子¹, 梅村 純², 友池仁暢²

¹公益財団法人日本心臓血圧研究振興会附属榊原記念病院看護部, ²公益財団法人日本心臓血圧研究振興会附属榊原記念病院循環器内科

Progress of Research on the QT Prolongation ★

Chairs Naohiko Takahashi

Department of Cardiology and Clinical Examination, Faculty of Medicine, Oita University, Oita, Japan

Kengo Kusano

Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

SP3-1 Key Note Lecture: Impact of Genetics on the Clinical Management of the Long QT Syndrome

Peter J. Schwartz

IRCCS Istituto Auxologico Italiano, Italy

SP3-2 Comorbid epilepsy and developmental disorder in congenial long QT syndrome with perinatal arrhythmia

Aya Miyazaki¹, Heima Sakaguchi¹, Takeshi Aiba², Akira Kumakura³, Yoshihiro Miyamoto⁴, Kengo Kusano², Wataru Shimizu², Hideo Ohuchi¹

¹Department of Pediatric Cardiology, National Cerebral and Cardiovascular Center, Osaka, Japan, ²Department of Cardiovascular Medicine, Division of Arrhythmias and Electrophysiology, National Cerebral and Cardiovascular Center, Osaka, Japan, ³Department of Pediatrics, Kitano Hospital, The Tazuke Kofukai Medical Research Institute, Osaka, Japan, ⁴Department of Preventive Cardiology, Department of Preventive Medicine and Epidemiologic Informatics, National Cerebral and Cardiovascular Center, Osaka, Japan

SP3-3 QT dynamics during the post-exercise face immersion for the long-QT syndrome type 3

Kazuhiro Takahashi

Pediatric Cardiology Okinawa Children's Medical Center, Okinawa, Japan

SP3-4 The Impact of Elevation of the Sympathetic Activity by Abrupt Starting Exercise Protocol in Patients with Congenital Long QT Syndrome

Motomi Tachibana¹, Hiroki Sugiyama¹, Hiroshi Morita², Nobuhiro Nishii², Kazufumi Nakamura¹, Satoshi Nagase¹, Tohru Ohe³, Hiroshi Ito¹

¹Department of Cardiovascular Medicine, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, ²Department of Cardiovascular Therapeutics, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, ³Department of Cardiology, Sakakibara Heart Institute of Okayama, Okayama, Japan

SP3-5 Mechanisms of fever-induced QT prolongation in patients with KCNH2 mutations in the S5-pore region

Kenshi Hayashi¹, Tadashi Nakajima², Shoichi Tange³, Noboru Fujino¹, Toyonobu Tsuda¹, Yoshihiro Tanaka¹, Yoshiaki Kaneko², Masahiko Kurabayashi², Masakazu Yamagishi¹

¹Division of Cardiovascular Medicine, Kanazawa University Graduate School of Medical Science, Ishikawa, Japan, ²Department of Medicine and Biological Science, Gunma University Graduate School of Medicine, Gunma, Japan, ³Department of Cardiovascular Medicine, Maebashi Red Cross Hospital, Gunma, Japan

SP3-6

QT intervals during sleeping and around wake-up periods in school-aged patients with long QT syndrome and age-matched healthy controls

Masao Yoshinaga¹, Hitoshi Horigome², Hiroya Ushinohama³, Seiko Ohno⁴

¹Department of Pediatrics, National Hospital Organization Kagoshima Medical Center, Kagoshima, Japan,

²Department of Child Health, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, ³Department of Cardiology, Fukuoka Children's Hospital and Medical Center for Infectious Diseases, Fukuoka, Japan, ⁴Department of Cardiovascular and Respiratory Medicine, Shiga University of Medical Science, Shiga, Japan

Wednesday, 29 July

Room 4 10:30-12:00 Symposium4 [SP4]

Sinoatrial Node Pacemaker Activity—The Mechanism of Heart Beats—

Chairs Haruaki Nakaya
Chiba University, Chiba, Japan

Nobuhisa Hagiwara
Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan

SP4-1 Ca and K channels in cardiac pacemaker activity

Kyoichi Ono, Takeshi Adachi, Takayoshi Ohba
The Department of Cell Physiology, Akita University Graduate School of Medicine, Akita, Japan

SP4-2 Controversy still goes on; Lessons from HCN4 knock-out mice

Makoto Takano¹, Yuko Kozasa^{1,2}, Mitsue Takeya¹, Kensuke Ohshita^{1,2}, Masayuki Ito¹, Keiko Ishihara¹, Noriyuki Nakashima³
¹Department of Physiology, Kurume University School of Medicine, Fukuoka, Japan, ²Department of Anesthesiology, Kurume University School of Medicine, Fukuoka, Japan, ³Department of Neurobiology, Kyoto University Graduate School of Medicine, Kyoto, Japan

SP4-3 Mathematical model of cardiac pacemaker activity

Akinori Noma, Yukiko Himeno
Department of Bioinformatics, College of Life Sciences, Ritsumeikan University, Shiga, Japan

SP4-4 Spontaneous activity of pulmonary vein myocardial sleeves

Haruo Honjo
Research Institute of Environmental Medicine, Nagoya University, Aichi, Japan

SP4-5 Biological Pacemaker Created by HCN4-overexpressing Mouse Embryonic Stem Cell-derived Cardiomyocytes

Kazufumi Nakamura, Yukihiro Saito, Hiroki Sugiyama, Hiroshi Morita, Hiroshi Ito
Department of Cardiovascular Medicine, Okayama University, Okayama, Japan

Room 4 12:10-13:10 Luncheon Seminar4 [LS4]

New System for Ultra High-Resolution Mapping in Patients with Complex Atrial and Ventricular Tachycardia ★

Chair Teiichi Yamane

Division of Cardiology, Jikei University School of Medicine, Tokyo, Japan

LS4-1

New System for Ultra High-Resolution Mapping in Patients with Complex Atrial and Ventricular Tachycardia

Pierre Jais

Rhythmology & Cardiac Stimulation Department, Centre Hospitalier Universitaire de Bordeaux, France

(Boston Scientific Japan)

Wednesday, 29 July

Room 4 14:30-15:30 Sweets Seminar2 [TS2]

Time for a multidisciplinary approach for treatment of Sleep Breathing Disorders in cardiovascular patients. Why should we all care about Sleep Apnea? ★

Chair Shinichi Momomura

Cardiovascular Department, Saitama Medical Center, Jichi Medical University, Saitama, Japan

TS2-1 Time for a multidisciplinary approach for treatment of Sleep Breathing Disorders in cardiovascular patients. Why should we all care about Sleep Apnea?

Gianluca Botto

President of AIAC (Italian Heart Rhythm Association) / Head of Electrophysiology, Sant'Anna Hospital Como, Italy

(Japan Lifeline Co., Ltd.)

Current Status of Treatment of Complex Ventricular Arrhythmias



Chairs **Hugh Calkins**
The Johns Hopkins University, USA

Hiroshi Nakagawa
University of Oklahoma Health Sciences Center, USA

JHJ1 Discrete Prepotential as an Indicator of Successful Ablation in Patients With Coronary Cusp Ventricular Arrhythmia

Hitoshi Hachiya¹, **Kenzo Hirao**², **Yoshito Iesaka**¹

¹Department of Cardiology, Cardiovascular Center, Tsuchiura Kyodo Hospital, Ibaraki, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan

JHJ2 Treatment of ventricular arrhythmias in patients with sarcoidosis

Yukio Sekiguchi, **Akihiko Nogami**, **Kazutaka Aonuma**

Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

JHJ3 Approach to Treatment of Patients with ARVD/C

Hugh Calkins

The Johns Hopkins University, USA

JHJ4 ICD Therapy of Ventricular Arrhythmias in Patients with Non-Ischemic Cardiomyopathy

Michael R. Gold

Medical University of South Carolina, USA

AF Ablation 1

Chairs Osamu Igawa

Department of Internal Medicine and Cardiology, Nippon Medical School Tama Nagayama Hospital, Tokyo, Japan

Takehiko Keida

Department of Cardiology, Edogawa Hospital, Tokyo, Japan

O1-1 The Effect of Residual Intrinsic Ganglionated Plexi on Pulmonary Vein Arrhythmogenicity and Their Clinical Implication in Patients with Atrial Fibrillation

Toshiya Kurotobi, Naoto Kino, Takao Tsuchida, Masataka Yoshida, Yoshihisa Shimada

Cardiovascular Division, Shiroyama Hospital, Osaka, Japan

O1-2 Ganglionated Plexus Ablation Improves Sleep-Disordered Breathing

Shinji Mito, Yuji Muraoka, Yuto Fujii, Tasuku Higashihara, Naoya Hironobe, Yuzo Kagawa, Kenichi Yamane, Tomoharu Kawase, Hiromichi Tamekiyo, Masaya Otsuka, Tomokazu Okimoto, Yoshiko Masaoka, Nobuo Shiode, Yasuhiko Hayashi

Tsuchiya General Hospital, Hiroshima, Japan

O1-3 Importance of Detailed High-Dense GP Ablation and Clinical Implication of 2nd GP Ablation in Recurred Patients with Atrial Fibrillation

Norishige Morita, Takayuki Iida, Tadashi Hashida, Daisuke Fujibayashi, Akiko Ushijima, Akira Ueno, Yoshinori Kobayashi

Division of Cardiology, Department of Medicine, Tokai University Hachioji Hospital, Tokyo, Japan

O1-4 Localization of Right Atrial Ganglionated Plexi in Patients with Atrial Fibrillation

Mitsuaki Itoh¹, Kohei Yamashiro¹, Daisuke Yoshimoto¹, Kazuto Kujira¹, Masanao Takeya², Koyo Sato², Yujiro Sakamoto¹, Takahiko Suzuki¹

¹Department of Cardiovascular Medicine, Toyohashi Heart Center, Aichi, Japan, ²Department of Cardiovascular Medicine, Nagoya Heart Center, Aichi, Japan

AF Ablation 2

Chairs Kikuya Uno

Sapporo Cardiovascular Center / Heart Rhythm Center, Hokkaido, Japan

Koichi Inoue

Cardiovascular Center, Sakurabashi Watanabe Hospital, Osaka, Japan

O2-1 Chemical ablation to vein of Marshall reduces the rise of esophageal temperature

Masaki Fujita¹, Masaya Nakata¹, Tatsuya Yamashita¹, Kazunobu Iidaka¹, Toshiya Chinen¹, Tatsuo Kikuchi¹, Kentaro Meguro¹, Takehiko Keida¹, Hiroshi Ohira¹, Kaoru Okishige²

¹Department of Cardiology, Edogawa Hospital, Tokyo, Japan, ²Department of Cardiology, Minato Sekijoji Hospital, Kanagawa, Japan

O2-2 Chemical ablation to the Vein of Marshall: Favorable Adjunctive Effects to Left Pulmonary Vein Isolation

Takehiko Keida¹, Kazunobu Iidaka¹, Masaya Nakata¹, Tatsuya Yamashita¹, Masaki Fujita¹, Toshiya Chinen¹, Tatsuo Kikuchi¹, Kentaro Meguro¹, Hiroshi Ohira¹, Mitsuaki Takami², Kaoru Okishige³

¹Department of Cardiology, Edogawa Hospital, Tokyo, Japan, ²Department of Cardiology, Owaki Hospital, Tokyo, Japan, ³Department of Cardiology, Yokohama City Minato Red Cross Hospital, Kanagawa, Japan

O2-3 A case of marshall bundle reentry atrial tachycardia

Shingo Narita, Shinji Kaneko, Tomoaki Haga, Masaya Fujita, Taiki Ohashi, Ryuji Kubota, Masanori Shinoda

Toyota Kosei Hospital, Aichi, Japan

O2-4 Efficacy of ethanol infusion in the vein of Marshall in cases with incomplete mitral isthmus block after radiofrequency catheter ablation

Kaeko Hirai, Hajime Fujimoto, Masaki Naito, Atsushi Iwai, Satomi Ishihara, Yukihiro Hashimoto, Takuya Isojima, Megumi Suzuki, Hajime Iwama, Takehito Nakai, Naofumi Doi

Department of Cardiovascular Medicine, Nara Prefecture Western Medical Center, Nara, Japan

O2-5 Positional relationship between the vein of Marshall, coronary sinus and esophagus

Takehiko Keida¹, Kazunobu Iidaka¹, Masaya Nakata¹, Tatsuya Yamashita¹, Masaki Fujita¹, Toshiya Chinen¹, Tatsuo Kikuchi¹, Kentaro Meguro¹, Hiroshi Ohira¹, Mitsuaki Takami², Kaoru Okishige³

¹Department of Cardiology, Edogawa Hospital, Tokyo, Japan, ²Department of Cardiology, Owaki Hospital, Tokyo, Japan, ³Department of Cardiology, Yokohama City Minato Red Cross Hospital, Kanagawa, Japan

Wednesday, 29 July

O2-6

Spectral analysis following ethanol injection in the vein of Marshall in patients with persistent atrial fibrillation

Kazuo Kato¹, Ryosuke Kametani¹, Akimitsu Tanaka¹, Masanari Sugawara¹, Hirota Otake¹, Shingo Yoshioka¹, Takashi Shimozato¹, Norihisa Shibata², Shuji Sugahara², Toshihiro Yokoi², Hideki Wada²

¹Cardiology, Nagoya Tokushukai General Hospital, Aichi, Japan, ²Clinical Engineering, Nagoya Tokushukai General Hospital, Aichi, Japan

AF Ablation 3

Chairs Kohei Yamashiro

Heart Rhythm Center, Takatsuki General Hospital, Osaka, Japan

Norishige Morita

Division of Cardiology, Department of Medicine, Tokai University Hachioji Hospital, Tokyo, Japan

03-1 Impact of encircling ipsilateral pulmonary vein isolation using the real-time automated 'VISITAG' annotation algorithm: A single-center, case-control comparative study

Masahiro Esato¹, Naoto Nishina¹, Yoshitomi Kida¹, Yeong-Hwa Chun²

¹Department of Arrhythmia, Ijinkai Takeda General Hospital, Kyoto, Japan, ²Takeda Hospital, Arrhythmia Care Center, Kyoto, Japan

03-2 Appropriate Contact Force during Ipsilateral Pulmonary Vein Isolation for Clinical Benefit on Mid-term Outcome

Tomoko Fumimoto¹, Yasuhiro Yoshiga¹, Akihiko Shimizu², Takeshi Ueyama¹, Makoto Ono¹, Takayoshi Kato¹, Hiroto Ishiguchi¹, Masafumi Yano¹

¹Department of Medicine and Clinical Science, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan, ²Faculty of Health Science, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan

03-3 Whether the Assessment of the Contact Force would be Useful to Atrial Fibrillation Ablation using the Dragging Technique?

Hiroki Kamiya, Yukihiro Yoshida, Ayumi Ito, Ryo Watanabe, Natsu Sekioka, Yu Mori, Monami Ando, Mayuho Maeda, Hirohiko Suzuki, Yasuhiro Ogura, Yutaka Aoyama, Mamoru Nanasato, Haruo Hirayama

Cardiovascular Center, Nagoya Daini Red Cross Hospital, Aichi, Japan

03-4 Catheter Stability Setting of Visitag Module in CARTO 3 System is Dependent on the Target Contact Force

Kazuki Iso¹, Yasuo Okumura¹, Ichiro Watanabe¹, Koichi Nagashima¹, Kazumasa Sonoda¹, Rikitake Kogawa¹, Naoko Sasaki¹, Keiko Takahashi¹, Sayaka Kurokawa¹, Shiro Nakahara², Yuichi Hori², Atsushi Hirayama¹

¹Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan, ²Department of Cardiology, Dokkyo Medical University Koshigaya Hospital, Saitama, Japan

O3-5

Effect of adaptive servo-ventilation on catheter contact force during pulmonary vein isolation

Iwanari Kawamura¹, Rintaro Hojo¹, Kiyotaka Yoshida¹, Satoshi Miyazawa¹, Akihiro Nakada¹, Yuichi Moriyama¹, Ken Arai¹, Toshiki Kaihara¹, Motohiro Asaki¹, Takeshi Kitamura¹, Yuya Aoyama¹, Kota Komiyama¹, Seiji Fukamizu¹, Tamotsu Tejima¹, Mitsuhiro Nishizaki³, Masayasu Hiraoka⁴, Harumizu Sakurada²

¹Cardiology, Hiroo Metropolitan Hospital, Tokyo, Japan, ²Cardiology, Tokyo Metropolitan Health and Medical Treatment Corporation Ohkubo Hospital, Tokyo, Japan, ³Cardiology, Yokohama Minami Kyousai Hospital, Kanagawa, Japan, ⁴Director Health Examination, Toride Kitasohma Medical Center Hospital, Ibaraki, Japan

Room 5 12:10-13:10 Luncheon Seminar5 [LS5]

The effects of nifekalant and amiodarone in shock-resistant CPA patients

Chair Takashi Kurita

Division of Cardiovascular Center, Department of Internal Medicine, Kinki University, Osaka, Japan

LS5-1 **The effects of nifekalant and amiodarone in shock-resistant CPA patients**

Mari Amino

Department of Cardiovascular Medicine, Tokai University School of Medicine, Kanagawa, Japan

(TOA EIYO LTD.)

Wednesday, 29 July

Room 5 14:30-15:30 Oral Presentation [O4]

VT 1

Chairs Yukiko Nakano

Department of Cardiovascular Medicine, Hiroshima University, Hiroshima, Japan

Masahiko Goya

Department of Cardiology, Tokyo Medical and Dental University, Tokyo, Japan

O4-1 Changes in the J-wave during the treadmill exercise test

Minoru Tagawa¹, Yukie Ochiai¹, Yuichi Nakamura¹, Masaomi Chinushi², Yoshifusa Aizawa³

¹Department of Cardiology, Nagaoka Chuo General Hospital, Niigata, Japan, ²Graduate School of Health Science, Niigata University, Niigata, Japan, ³Department of Cardiology, Tachikawa General Hospital, Niigata, Japan

O4-2 J-point Elevation as a Predictor of Malignant Ventricular Arrhythmia Triggered by Premature Ventricular Contractions with Right Bundle Branch Block and Superior Axis

Yumi Munetsugu, Mitsuharu Kawamura, Yuya Nakamura, Akinori Ochi, Koichiro Inokuchi, Yuta Chiba, Tatsuya Onuki, Yoshino Minoura, Norikazu Watanabe, Taro Adachi, Taku Asano, Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

O4-3 Relationship between J wave and ventricular fibrillation caused by coronary spastic angina

Akinori Matsumoto¹, Akihiro Yoshida¹, Koji Fukuzawa¹, Tomoyuki Nakanishi¹, Soichiro Yamashita¹, Hiroki Konishi¹, Hirotochi Ichibori¹, Hiroshi Imada¹, Kiyohiro Hyogo¹, Ken-ichi Hirata¹, Hiroki Shimizu², Yoshio Onishi²

¹Department of Internal Medicine, Division of Cardiovascular Medicine, Kobe University Graduate School of Medicine, Hyogo, Japan, ²Kakogawa East Hospital, Hyogo, Japan

O4-4 Long-term effect of cilostazol on recurrent ventricular fibrillation related to Brugada syndrome

Tetsuji Shinohara, Takanori Yamaguchi, Reika Ayabe, Yuumi Ishii, Toyokazu Ootsubo, Norihiro Okada, Kunio Yufu, Mikiko Nakagawa, Naohiko Takahashi

Department of Cardiology and Clinical Examination, Faculty of Medicine, Oita University, Oita, Japan

O4-5 Ventricular Tachycardia in a patient with hyperkalemia and coved ST-segment elevation in the inferior leads

Ai Hattori¹, Masayuki Igawa¹, Satoshi Aita¹, Tsuyoshi Enomoto¹, Kazutaka Aonuma²

¹Department of Cardiology, Tsukuba Memorial Hospital, Ibaraki, Japan, ²Cardiovascular Division, Institute of Clinical Medicine, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Ibaraki, Japan

VT 2

Chairs Tomoo Harada

Department of Cardiology, St. Marianna University School of Medicine, Kanagawa, Japan

Mitsuharu Kawamura

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

O5-1 Idiopathic left ventricular arrhythmias in patients with atrioventricular nodal reentrant tachycardia: The incidence and electrophysiologic characteristics

Kaori Hisazaki¹, Kenichi Kaseno¹, Naoki Amaya¹, Daisetsu Aoyama¹, Kanae Hasegawa¹, Yuichiro Shiomi¹, Naoto Tama¹, Hiroyuki Ikeda¹, Takehiko Sato¹, Yoshitomo Fukuoka¹, Tetsuji Morishita¹, Kentaro Ishida¹, Hiroyasu Uzui¹, Kenji Kurosaki², Akihiko Nogami³, Hiroshi Tada¹

¹Department of Cardiovascular Medicine, Faculty of Medical Sciences, University of Fukui, Fukui, Japan, ²Department of Cardiovascular Medicine, Yokohama Rosai Hospital, Kanagawa, Japan, ³Department of Cardiovascular Medicine, University of Tsukuba, Ibaraki, Japan

O5-2 The Isochronal Map of Non-Contact Mapping System is Useful to Distinguish the Right or Left Outflow Tract Origin of Idiopathic Ventricular Arrhythmias

Kazuo Miyazawa, Marehiko Ueda, Masayuki Ishimura, Takatsugu Kajiyama, Naotaka Hashiguchi, Yoshio Kobayashi

Department of Cardiovascular Medicine, Chiba University Graduate School of Medicine, Chiba, Japan

O5-3 Successful radiofrequency catheter ablation of ventricular premature contractions originating in the vicinity of the His bundle in four patients

Noriyuki Ohashi, Satoki Fujii, Masatomo Ozaki, Mitsuru Yoshino, Yoji Okamoto, Hiroshi Tasaka, Kazushige Kadota, Kazuaki Mitsudo

Department of Cardiology, Kurashiki Central Hospital, Okayama, Japan

O5-4 Catheter ablation of ventricular arrhythmia originating from the aortic sinus cusp: A safe distance between ablation catheter and coronary artery ostium

Emi Nakano, Tomoo Harada, Yui Nakayama, Yasushi Takagi, Marika Yamada, Makoto Takano, Toshiyuki Furukawa, Yoshihiro Akashi

Division of Cardiology, St. Marianna University School of Medicine, Kanagawa, Japan

Wednesday, 29 July

O5-5

The usefulness of three-dimensional anatomical mapping used CARTO SOUND in pediatric patient with premature ventricular contraction originated from tricuspid valve annulus

Shuhei Fujita¹, Kiyoshi Hatasaki¹, Masaki Kinoshita², Motoaki Hirasawa², Kazuo Usuda²

¹Department of Pediatrics, Toyama Prefectural Central Hospital, Toyama, Japan, ²Department of Internal Medicine, Toyama Prefectural Central Hospital, Toyama, Japan

VT 3

Chairs Kazuo Kato

Cardiology, Nagoya Tokushukai General Hospital, Aichi, Japan

Seiji Fukamizu

Department of Cardiology, Tokyo Metropolitan Hiroo Hospital, Tokyo, Japan

O6-1 A case of simultaneous unipolar radiofrequency ablation for ventricular tachycardia from deep intramural scar in patient with dilated phase of hypertrophic cardiomyopathy

Toshiaki Yano, Shigeto Naito, Eri Goto, Daisuke Kutsuzawa, Yoshiaki Yamaguchi, Satoru Shimizu, Kentaro Minami, Masahiro Nakano, Takehito Sasaki, Kohki Nakamura, Koji Kumagai, Shigeru Oshima

Department of Cardiology, Gunma Prefectural Cardiovascular Center, Gunma, Japan

O6-2 Successful catheter ablation for ventricular tachycardia originating from an intramural origin. A case of Hypertrophic Cardiomyopathy with Mid-Ventricular Obstructive and Apical Aneurysm

Akiko Sanada¹, Yukio Hosaka¹, Masaomi Chinushi², Kazuyoshi Takahashi¹, Asami Kashiwa¹, Jiro Hiroki¹, Kazuyuki Ozaki¹, Keiichi Tsuchida¹, Yuki Fujihara¹, Norihito Nakamura¹, Hirotaka Oda¹

¹Niigata City General Hospital, Niigata, Japan, ²Graduate School of Health Sciences, Niigata University School of Medicine, Niigata, Japan

O6-3 Successful Catheter Ablation of Ventricular Premature Contractions Arising from the Aortomitral Continuity in Structural Heart Disease

Shigetoshi Sakabe, Kazuki Mori, Atsunobu Kasai

The Department of Cardiorogy, Ise Red Cross Hospital, Mie, Japan

O6-4 Unforeseen Bundle Branch Reentrant Tachycardia after Right Ventricular In-Flow Ablation

Fumi Yamagami¹, Yasuhiro Yokoyama¹, Toru Adachi¹, Tomoya Yoshino², Yuuki Tsuchiya², Yuuto Kimura², Shinya Sibata², Mai Fujiwara²

¹Department of Cardiology, Cardiovascular Center, St. Luke's International Hospital, Tokyo, Japan, ²Department of Clinical Engineering, St. Luke's International Hospital, Tokyo, Japan

O6-5 Late Potentials, Pacemaps, and Voltage Scanning-guided Catheter Ablation in a Patient with an Electrical Storm

Kenichi Kaseno, Yuichiro Shiomi, Kaori Hisazaki, Naoki Amaya, Daisuke Aoyama, Kanae Hasegawa, Naoto Tama, Hiroyuki Ikeda, Miki Yokokawa, Yoshitomo Fukuoka, Tetsuji Morishita, Kentaro Ishida, Kenichiro Arakawa, Hiroyasu Uzui, Hiroshi Tada

Department of Cardiovascular Medicine, Faculty of Medical Science, University of Fukui, Fukui, Japan

Wednesday, 29 July

Room 6 9:00-10:00 Educational Lecture1 [EL1]

Let's Learn More Safer and Effective Sedation for Patients during Catheter Ablation

Chairs Kazuo Matsumoto

Higashimatsuyama Medical Association Hospital, Saitama, Japan / Cardiology Department of International Medical Center Saitama Medical University, Saitama, Japan

Kaoru Okishige

Heart Center, Yokohama-City Bay Red Cross Hospital, Kanagawa, Japan

EL1-1 **Method for administration of propofol and dexmedetomidine for catheter ablation—On the basis of pharmacokinetics and pharmacodynamics—**

Takayuki Kunisawa

Surgical Operation Department, Asahikawa Medical University Hospital, Hokkaido, Japan

EL1-2 **How to Maintain Stable Respiratory Rhythm during Deep Sedation for Catheter Ablation: Tips and Tricks**

Takanori Yamaguchi¹, Takeshi Tsuchiya¹, Akira Fukui¹, Kenji Sadamatsu², Naohiko Takahashi³

¹EP Expert Doctors-Team Tsuchiya, Kumamoto, Japan, ²Saga-ken Medical Centre Koseikan, Saga, Japan, ³Department of Cardiology and Clinical Examination, Faculty of Medicine, Oita University, Oita, Japan

Committee Chair**Akihiko Shimizu***Department of Medicine and Health Sciences, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan***Committee****Naokata Sumitomo***Department of Pediatric Cardiology, Saitama Medical University, International Medical Center, Saitama, Japan***Harumizu Sakurada***Department of Cardiology, Tokyo Metropolitan Health and Medical Treatment Corporation Ohkubo Hospital, Tokyo, Japan***Wataru Shimizu***Department of Cardiovascular Medicine, Graduate School of Medicine, Nippon Medical School, Tokyo, Japan***Mitsuhiro Nishizaki***Department of Cardiology, Yokohama Minami Kyosai Hospital, Kanagawa, Japan***Minoru Horie***Department of Cardiovascular and Respiratory Medicine, Shiga University of Medical Science, Shiga, Japan***Yuji Murakawa***Department of Internal Medicine, Teikyo University Mizonokuchi Hospital, Kanagawa, Japan***AW1-1****Efficacy and Safety of Flecainide for Ventricular Arrhythmias Inpatients with Andersen-Tawil Syndrome with *KCNJ2* Mutations**

Takeshi Aiba¹, Koji Miyamoto^{1,2}, Hiromi Kimura³, Hideki Hayashi³, Seiko Ohno³, Chie Yasuoka⁴, Yoshihito Tanioka⁴, Takeshi Tsuchiya⁵, Yoko Yoshida⁶, Hiroshi Hayashi⁷, Ippei Tsuboi⁷, Ikutaro Nakajima¹, Kohei Ishibashi¹, Hideo Okamura^{1,2}, Takashi Noda¹, Masaharu Ishihara^{1,2}, Toshihisa Anzai^{1,2}, Satoshi Yasuda^{1,2}, Yoshihiro Miyamoto⁸, Shiro Kamakura¹, Kengo Kusano^{1,2}, Hisao Ogawa^{1,9}, Minoru Horie³, Wataru Shimizu^{1,2,7}

¹Department of Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan, ²Department of Advanced Cardiovascular Medicine, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan, ³Department of Cardiovascular and Respiratory Medicine, Shiga University of Medical Science, Shiga, Japan, ⁴Department of Cardiology, Omura Municipal Hospital, Nagasaki, Japan, ⁵EP Expert Doctors-Team Tsuchiya, Kumamoto, Japan, ⁶Department of Pediatric Electrophysiology, Osaka City General Hospital, Osaka, Japan, ⁷Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan, ⁸Department of Preventive Cardiology, National Cerebral and Cardiovascular Center, Osaka, Japan, ⁹Department of Cardiovascular Medicine, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan

AW1-2**Idiopathic Ventricular Arrhythmia Originating From The Cardiac Crux or Inferior Septum: An Epicardial Idiopathic Ventricular Arrhythmia**

Mitsuharu Kawamura¹, Edward P. Gerstenfeld¹, Vasanth Vedantham¹, Derek M. Rodrigues², J. David Burkhardt³, Youichi Kobayashi⁴, Henry H. Hsia¹, Gregory M. Marcus¹, Francis E. Marchlinski⁵, Melvin M. Scheinman¹, Nitish Badhwar¹

¹Division of Cardiac Electrophysiology, University of California, USA, ²Overlake Medical Center, USA, ³Texas Cardiac Arrhythmia Institute, USA, ⁴Division of Cardiology, Showa University School of Medicine, Tokyo, Japan, ⁵Cardiovascular Division, University of Pennsylvania, USA

Wednesday, 29 July

Room 6 10:30-11:30 Tea-time Lecture [TL1]

Make the right choice for CRT-D: Maximizing value and optimizing outcomes

Chair Takeshi Mitsuhashi

Cardiovascular Medicine, Saitama Medical Center, Jichi Medical University, Saitama, Japan

Speakers

Takeshi Mitsuhashi

Cardiovascular Medicine, Saitama Medical Center, Jichi Medical University, Saitama, Japan

Fumiharu Miura

Department of Cardiology, Hiroshima City Hospital, Hiroshima, Japan

Makoto Ono

Department of Medicine and Clinical Science, Division of Cardiology, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan

(Boston Scientific Japan)

Room 6 12:10-13:10 Luncheon Seminar6 [LS6]

Updates on MR Conditional Cardiac Implantable Electronic Devices

Chair Hiroshi Nakajima

Japan Research Institute for Device Therapy, Tokyo, Japan

LS6-1

The Review of The Safety of MRI Scans of Patients with MR Conditional Cardiac Devices —How We Can Secure Safety While Maximizing Patients' Access to MRI

Ritsushi Kato

Department of Cardiology Saitama Medical University, International Medical Center, Saitama, Japan

(Medtronic Japan Co., Ltd.)

Wednesday, 29 July

Room 6 14:30-15:30 Oral Presentation [07]

SVT 1

Chairs Fumio Suzuki

Department of Cardiovascular Medicine, Fukujuji Hospital, Tokyo, Japan

Motoki Hara

Department of Cardiology, Higashihiroshima Medical Center, Hiroshima, Japan

07-1 Putative mechanism of a transient prolongation of AH interval during fast-slow atrioventricular nodal reentrant tachycardia

Yoshiaki Kaneko, Tadashi Nakajima, Masaki Ota, Takafumi Iijima, Masahiko Kurabayashi

Department of Cardiovascular Medicine, Gunma University Hospital, Gunma, Japan

07-2 Efficacy of empiric slow pathway ablation in non-inducible supraventricular tachycardia

Satoshi Yanagisawa¹, Yasuya Inden¹, Naoki Yoshida¹, Shinji Ishikawa¹, Satoshi Okumura¹, Hiroyuki Kato¹, Aya Fujii¹, Toshihiko Yamamoto¹, Tomoyuki Nagao¹, Yoshiaki Mizutani¹, Tadahiro Ito¹, Makoto Hirai², Toyoaki Murohara¹

¹Department of Cardiology, Nagoya University Graduate School of Medicine, Aichi, Japan, ²Department of Cardiology, Nagoya University Graduate School of Health Science, Aichi, Japan

07-3 Whole His Bundle Mapping Method Using CARTO System is Helpful for Safe AVNRT Ablation

Tatsuhiko Hirao¹, Yasuteru Yamauchi¹, Osamu Inaba¹, Shu Yamashita¹, Masahiro Sekikawa¹, Junji Yamaguchi¹, Takamasa Iwai¹, Hirofumi Arai¹, Satoshi Shoji¹, Kandou Kawahatsu¹, Ryouichi Miyazaki¹, Tetsuo Yamaguchi¹, Nobuhiro Hara¹, Tomoyuki Umemoto¹, Takamichi Miyamoto¹, Toru Obayashi¹, Kenzo Hirao²

¹The Department of Cardiology, Musashino Red Cross Hospital, Tokyo, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan

07-4 Antegrade conduction to the His bundle during right ventricular overdrive pacing distinguishes septal pathway AV reentry from atypical AV nodal reentry tachycardias

Koichi Nagashima¹, Saurabh Kumar², William G. Stevenson², Laurence M. Epstein², Roy M. John², Usha B. Tedrow², Bruce A. Koplant², Gregory F. Michaud²

¹Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan, ²Arrhythmia Unit, Cardiovascular Division, Brigham and Women's Hospital, U.S.A.

07-5 The location of recording site of His bundle potential in left atrium

Akino Yoshimura, Yasuhisa Iriki, Naoya Oketani, Hitoshi Ichiki, Hideki Okui, Ryuichi Maenosono, Fuminori Namino, Masaaki Miyata, Mitsuru Ohishi

Department of Cardiovascular Medicine and Hypertension, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan

Ion Channel 1

Chairs Kaichiro Kamiya

Department of Cardiovascular Medicine, Research Institute of Environmental Medicine, Nagoya University, Aichi, Japan

Nobuhisa Hagiwara

Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan

O8-1 A Novel Double Mutation of hERG Protein in LQT2 Syndrome: Identification and Rescue

Endang Mahati¹, Peili Li¹, Nani Maharani¹, Shinji Sakata¹, Junichiro Miake², Kazuhiro Yamamoto², Yasuaki Shirayoshi¹, Yasutaka Kurata³, Ichiro Hisatome¹

¹Department of Genetic Medicine and Regenerative Therapeutics, Institute of Regenerative Medicine and Biofunction, Tottori University Graduate School of Medicine, Tottori, Japan, ²Division of Molecular Medicine and Therapeutics, Tottori University, Tottori, Japan, ³Department of Physiology, Kanazawa Medical University, Ishikawa, Japan

O8-2 Histone deacetylase plays a pivotal role in expression and function of wild-type and mutant hERGs

Peili Li¹, Nani Maharani¹, Endang Mahati¹, Yasuaki Shirayoshi¹, Yasutaka Kurata², Kazuhiro Yamamoto³, Ichiro Hisatome¹

¹Department of Genetic Medicine and Regenerative Therapeutics, Tottori University Graduate School of Medical Science, Tottori, Japan, ²Department of Physiology, Kanazawa Medical University, Ishikawa, Japan, ³Department of Cardiovascular Medicine, Tottori University Faculty of Medicine, Tottori, Japan

O8-3 BDNF/ TrkB signaling modulates T-type Ca²⁺ channel expression in cardiomyocytes exposed to hypoxic condition

Masaki Morishima, Takafumi Fujita, Satoshi Osagawa, Katsushige Ono

Department of Pathophysiology, Oita University School of Medicine, Oita, Japan

O8-4 Risk stratification for prevention of Cardiac Sudden Death, Torsades de Pointes in Long QT syndrome

Mutsuko Sangawa¹, Hiroshi Morita¹, Motomi Tachibana¹, Koji Nakagawa¹, Nobuhiro Nishii¹, Satoshi Nagase¹, Kazufumi Nakamura¹, Hiroshi Ito¹, Tohru Ohe²

¹Department of Cardiovascular Medicine, Okayama University, Okayama, Japan, ²Cardiovascular Division of the Sakakibara Heart Institute of Okayama, Okayama, Japan

O8-5 In-vivo recording of larval ECG in zebrafish for the functional characterization of long QT syndrome type 2 mutation

Yoshihiro Tanaka, Kenshi Hayashi, Toyonobu Tsuda, Masakazu Yamagishi

Kanazawa University Graduate School of Medicine, Division of Cardiology, Ishikawa, Japan

Wednesday, 29 July

Room 6 16:30-17:30 Oral Presentation [09]

Experimental Study 1

Chairs Haruo Honjo

Research Institute of Environmental Medicine, Nagoya University, Aichi, Japan

Masatoshi Yamazaki

Research Institute of Environmental Medicine, Nagoya University, Aichi, Japan

09-1 Xanthine oxidase inhibitor prevents atrial fibrillation susceptibility by inhibition of oxidative CaMKII in Dahl salt-sensitive rats

Dong-Zhu Xu, Nobuyuki Murakoshi, Taizou Kimura, Kazuko Tajiri, Akihiko Nogami, Kazutaka Aonuma

Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

09-2 Ranolazine prevents reentry and focal activity in favor of termination of ischemia-related ventricular tachyarrhythmias

Takashi Ogawa, Haruo Honjo, Masatoshi Yamazaki, Norihiro Ueda, Ryoko Niwa, Kaichiro Kamiya

The Department of Cardiovascular Research, Research Institute of Environmental Medicine, Nagoya University, Aichi, Japan

09-3 Linagliptin, a DPP-4 Inhibitor, Suppresses the Electrical Remodeling in Isoproterenol-induced Myocardial Injury Model in Rat

Naruya Ishizue¹, Shinichi Niwano¹, Hironori Nakamura¹, Tazuru Igarashi¹, Tamami Fujiishi¹, Tomoharu Yoshizawa¹, Jun Oikawa¹, Jun Kishihara¹, Masami Murakami¹, Hidehira Fukaya¹, Hiroe Niwano², Junya Ako¹

¹Department of Cardiovascular Medicine, Kitasato University School of Medicine, Kanagawa, Japan, ²Department of Education, Tamagawa University, College of Education, Tokyo, Japan

09-4 Myofilament Ca²⁺ sensitivity cannot modulate Ca²⁺ wave propagation in intact rat cardiac trabeculae

Tetsuya Handoh, Masahito Miura, Yuhto Taguchi, Chiyohiko Shindoh

Department of Clinical Physiology, Tohoku University of Graduate School of Medicine, Miyagi, Japan

09-5 Regional ROS production mediates arrhythmia susceptibility in rat myocardium with nonuniform contraction

Yuhto Taguchi, Masahito Miura, Tetsuya Handoh, Chiyohiko Shindoh

Department of Clinical Physiology, Tohoku University of Graduate School of Medicine, Miyagi, Japan

Room 7 9:00-10:00 Educational Lecture2 [EL2]

What Physicians with Arrhythmias as Their Specialties should Know about Ion Channels?

Chair Haruaki Nakaya
Chiba University, Chiba, Japan

EL2 **What Physicians with Arrhythmias as Their Specialties should Know about Ion Channels?**

Tetsushi Furukawa
Department of Bio-informational Pharmacology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

Wednesday, 29 July

Room 7 10:00-11:00 Educational Lecture3 [EL3]

Sleep, Death and the Heart ★

Chair Eiichi Watanabe

Department of Cardiology, Fujita Health University, Aichi, Japan

EL3 Sleep, Death and the Heart

Virend K. Somers

Mayo Clinic, USA

Room 7 11:00-12:00 Educational Lecture4 [EL4]

Atrial Selective Sodium and Potassium Channel Blockers for the Management of Atrial Fibrillation ★

Chair Kengo Kusano

Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

EL4 **Atrial Selective Sodium and Potassium Channel Blockers for the Management of Atrial Fibrillation**

Charles Antzelevitch

Lankenau Institute of Medical Research / SUNY Upstate Medical University, USA

Wednesday, 29 July

Room 7 12:10-13:10 Luncheon Seminar7 [LS7]

Improving Catheter Ablation Outcomes with New and Innovative Technologies ★

Chair **Kenzo Hirao**

Tokyo Medical and Dental University, Heart Rhythm Center, Tokyo, Japan

LS7-1 **Improving Catheter Ablation Outcomes with New and Innovative Technologies**

Andrea Natale

Texas Cardiac Arrhythmia Institute, USA

(St. Jude Medical Japan Co., Ltd.)



Chair Masayasu Hiraoka
Toride Kitasoma Medical Center Hospital, Ibaraki, Japan

SL1 Left Cardiac Sympathetic Denervation in the Prevention of Sudden Death in LQTS and CPVT. Rationale and Clinical Experience

Peter J. Schwartz
IRCCS Istituto Auxologico Italiano, Italy

SL2 Current topics of catecholaminergic polymorphic ventricular tachycardia

Naokata Sumitomo
Department of Pediatric Cardiology, Saitama Medical University, International Medical Center, Saitama, Japan

Wednesday, 29 July

Room 7 15:30-17:00 Symposium5 [SP5]

Effect of Surgical Therapy for Atrial Fibrillation—The Maintenance of Sinus Rhythm and Prevention of Thromboembolic Events—

Chairs Takashi Nitta

Department of Cardiovascular Surgery, Nippon Medical School, Tokyo, Japan

Masataka Mitsuno

Departments of Cardiovascular Surgery, Hyogo College of Medicine, Hyogo, Japan

SP5-1 Key Note Lecture:

Fumitaka Isobe

Department of Cardiac Surgery, Aichi Medical University, Aichi, Japan / Senri-Chuo Hospital, Osaka, Japan

SP5-2 Prevention of stroke during 2 decades after AF surgery

Yosuke Ishii, Shun-ichiro Sakamoto, Yasuhiro Kawase, Atsushi Hiromoto, Yasuo Miyagi, Hiroya Ohmori, Takashi Sasaki, Makoto Shirakawa, Motoko Tanoue, Tadashi Shibata, Junya Aoyama, Takashi Nitta

Cardiovascular Surgery, Nippon Medical School, Tokyo, Japan

SP5-3 Late recurrence of atrial fibrillation and stroke rates after Maze procedure

Ken Yamanaka, Tatsuhiko Komiya, Hiroshi Tsuneyoshi, Takeshi Shimamoto

Cardiovascular Surgery, Kurashiki Central Hospital, Okayama, Japan

SP5-4 Postoperative stroke after Cox-maze procedure for treatment of atrial fibrillation

Masahiro Tanji, Kouki Takahashi

Department of Cardiovascular Surgery, Ohta Nishinouchi Hospital, Fukushima, Japan

SP5-5 Thoracoscopic Left-atrial Appendectomy in Non-valvular Atrial Fibrillation: Its Safety, Prevention and Deanticoagulation Effects

Toshiya Ohtsuka¹, Mikio Ninomiya¹, Takahiro Nonaka¹, Motoyuki Hisagi¹, Takahiro Ohta²

¹Department of Cardiovascular Surgery, Tokyo Metropolitan Tama Medical Center, Tokyo, Japan, ²Department of Neurosurgery, Tokyo Metropolitan Tama Medical Center

SP5-6

Effects of Aging and Hypertension on Antithrombotic Function of Atrial Endocardium in Atrial Tachy-paced Rat Model

Yu-ki Iwasaki^{1,2}, Takeshi Yamashita², Akiko Sekiguchi², Wataru Shimizu¹

¹The Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan, ²The Cardiovascular Institute, Tokyo, Japan

Wednesday, 29 July

Room 7 17:00-18:00 Educational Lecture5 [EL5]

Diagnosis and Treatment of Syncope ★

Chair Koichi Mizumaki

Clinical Research and Ethics Center, University of Toyama, Toyama, Japan

EL5 **Diagnosis and Treatment of Syncope**

David G. Benditt

University of Minnesota Medical School, USA

Sudden Cardiac Death 1

Chairs Yoshihisa Abe

Department of Cardiology, Research Institute for Brain and Blood Vessels Akita, Akita, Japan

Mari Amino

Department of Cardiovascular Medicine, Tokai University School of Medicine, Kanagawa, Japan

O10-1 Outcomes of Patients with Vasospastic Angina Surviving Out-of-Hospital Cardiopulmonary Arrest

Asami Kashiwa, Yukio Hosaka, Kazuyoshi Takahashi, Jiro Hiroki, Norihito Nakamura, Yuki Fujihara, Akiko Sanada, Kazuyuki Ozaki, Keiichi Tsuchida, Hirotaka Oda

Department of Cardiology, Niigata City General Hospital, Niigata, Japan

O10-2 Prognostic Impact of Ventricular Late Potential for the Arrhythmic Events in Patients with Implantable Cardioverter-Defibrillator for Primary Prevention of Sudden Cardiac Death

Kosuke Aoki, Akira Shimane, Katsunori Okajima, Kunihiro Kiuchi, Kiminobu Yokoi, Jin Teranishi

Department of Cardiology, Himeji Cardiovascular Center, Hyogo, Japan

O10-3 Long-term Survival and Incidences of Non-fatal Ventricular Tachycardia and Sudden Cardiac Death after Alcohol Septal Ablation for Hypertrophic Obstructive Cardiomyopathy in Japan

Hiroshige Murata¹, Yasushi Miyauchi², Morimasa Takayama³, Meiso Hayashi², Yu-ki Iwasaki², Kenji Yodogawa², Munenori Kosugi¹, Eitaro Kodani¹, Akihiro Nakagomi¹, Mitsunobu Kitamura², Hitoshi Takano², Osamu Igawa¹, Yoshiki Kusama¹, Hirotsugu Atarashi¹, Wataru Shimizu²

¹Department of Internal Medicine and Cardiology, Tama-Nagayama Hospital, Nippon Medical School, Tokyo, Japan,

²Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan, ³Division of Cardiology, Department of Internal Medicine, Sakakibara Memorial Hospital, Tokyo, Japan

O10-4 Cardiac I-123 Metaiodobenzylguanidine Imaging as a Predictor of Cardiac Death in Patients with Implantable Cardioverter Defibrillator who had Previous Appropriate ICD Therapy

Masato Kawasaki, Takahisa Yamada, Yoshio Furukawa, Tsutomu Kawai, Satoshi Takahashi, Masatake Fukunami

Division of Cardiology, Osaka General Medical Center, Osaka, Japan

Wednesday, 29 July

O10-5 **Incidence of appropriate and inappropriate shocks in different category of patients with implantable cardioverter defibrillators (ICD)**

Kazuo Sakamoto, Yasushi Mukai, Shujiro Inoue, Susumu Takase, Shunsuke Kawai, Tomomi Nagayama, Akiko Chishaki, Kenji Sunagawa

Cardiovascular Medicine, Kyushu University, Fukuoka, Japan

Sudden Cardiac Death 2

Chairs Shinichi Niwano

Department of Cardiovascular Medicine, Kitasato University, School of Medicine, Kanagawa, Japan

Kyoichi Sudo

Department of Cardiovascular Surgery, Shin-Yamanote Hospital, Tokyo, Japan

O11-1 Primary experience of the wearable cardioverter-defibrillator use for patients at high risk for sudden cardiac death

Shingo Sasaki¹, Takahiko Kinjo², Yuji Ishida², Taihei Itoh², Kenichi Sasaki², Daisuke Horiuchi¹, Masaomi Kimura², Ken Okumura²

¹Department of Advance Management of Cardiac Arrhythmias, Hirosaki University School of Medicine, Aomori, Japan, ²Department of Cardiology, Hirosaki University School of Medicine, Aomori, Japan

O11-2 Wearable cardioverter defibrillator as a temporary protection for sudden arrhythmic death - A single center European experience -

Yusuke Kondo¹, Takashi Kurita², Marehiko Ueda³, Yoshio Kobayashi³, Markus Linhart¹, Rene P. Andrie¹, Joerg O. Schwab¹

¹Department of Medicine-Cardiology, University of Bonn, Bonn, Germany, ²Division of Cardiovascular Center, Department of Medicine, Kinki University, Osaka, Japan, ³Department of Cardiology, Chiba University Graduate School of Medicine, Chiba, Japan

O11-3 Usefulness of the wearable cardioverter-defibrillator in safe management of patients at high risk for sudden cardiac death in general ward

Yoshihiro Shoji¹, Shingo Sasaki², Takahiko Kinjo¹, Taihei Itoh¹, Kenichi Sasaki¹, Daisuke Horiuchi², Masaomi Kimura¹, Ken Okumura¹

¹Department of Cardiology, Hirosaki University School of Medicine, Aomori, Japan, ²Department of Advance Management of Cardiac Arrhythmias, Hirosaki University School of Medicine, Aomori, Japan

O11-4 Clinical and electrocardiographic variables and delivery of ICD-shocks in patients with vasospastic angina resuscitated from cardiac arrest

Ami Isshiki, Hiroyuki Ito, Hirotaka Takatori, Yoshihiro Nakamura, Yoshiro Inoue, Osamu Sasaki, Nobuo Yoshimoto

Department of Cardiology, Saitama Medical Center, Saitama Medical University, Saitama, Japan

O11-5 Analysis of survival in HCM patients based on classification by the HCM Risk-SCD formula in the 2014 ESC guideline on HCM

Mayuko Yagawa, Kanki Inoue, Kohei Tanizaki, Jun Umemura, Hitonobu Tomoike
Sakakibara Heart Institute, Tokyo, Japan

Wednesday, 29 July

Room 8 11:00-12:00 Debate1 [D1]

Is an ELR Useful in Case of Syncope?

Chair **Bonpei Takase**

Department of Intensive Care Medicine, National Defense Medical College, Saitama, Japan

D1-1 **Pro**

Kaoru Tanno

Department of Cardiology, Showa University Koto Toyosu Hospital, Tokyo, Japan

D1-2 **Con**

Ritsuko Kohno

Department of Heart Rhythm Management, University of Occupational and Environmental Health, Fukuoka, Japan

Room 8 12:10-13:10 Luncheon Seminar8 [LS8]

How to manage HF patients by device therapies — CRTD and LVAD

Chair Kazuo Matsumoto

Higashimatsuyama Medical Association Hospital, Saitama, Japan / Cardiology Department of International Medical Center Saitama Medical University, Saitama, Japan

LS8-1 How to manage HF patients by device therapies — CRTD and LVAD

Toshiko Nakai

Nihon University Itabashi Hospital, Tokyo, Japan

Taiki Higo

Kyushu University Hospital, Fukuoka, Japn

(THORATEC CORPORATION / NIPRO CORPORATION)

Wednesday, 29 July

Room 8 14:30-15:30 Debate2 [D2]

Is Dose Adjustment of Anticoagulant Necessary for Japanese Patients?

Chair **Hiroshi Inoue**
Saiseikai Toyama Hospital, Toyama, Japan

D2-1 **Pro**

Yuji Okuyama
Advanced Cardiovascular Therapeutics, University of Osaka, Osaka, Japan

D2-2 **Con**

Takeshi Yamashita
The Cardiovascular Institute, Tokyo, Japan

Room 8 15:30-16:30 Debate3 [D3]

How to Perform PV Isolation—Dragging or Point by Point—

Chair Seiji Takatsuki

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

D3-1 Point by Point

Seiichiro Matsuo

The Department of Cardiology, The Jikei University School of Medicine, Tokyo, Japan

D3-2 Dragging

Masaomi Kimura

Hirosaki University Graduate School of Medicine, Department of Cardiology, Aomori, Japan

Wednesday, 29 July

Room 8 16:30-17:30 Debate4 [D4]

Is Genetic Testing Necessary for the Patients with Brugada Syndrome?

Chair **Wataru Shimizu**

Department of Cardiovascular Medicine, Graduate School of Medicine, Nippon Medical School, Tokyo, Japan

D4-1 **Pro**

Yoshino Minoura

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

D4-2 **Con**

Takeshi Aiba

Department of Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

不整脈患者のリハビリテーション

座長 牧田 茂

埼玉医科大学国際医療センター心臓リハビリテーション科

長山雅俊

榊原記念病院循環器内科・心臓リハビリテーション

MPS1-1 不整脈合併心不全患者の心臓リハビリテーション

折口秀樹

JCHO九州病院内科

MPS1-2 心房細動と心臓リハビリテーション～症例報告を踏まえた考察～

白石裕一, 濱岡哲郎, 今井幹昌, 畔柳 彰, 白山武司

京都府立医科大学循環器内科

MPS1-3 デバイス植込み患者に対するCPXの安全性と有用性

熊坂礼音, 稗田道成, 藤原玲子, 中尾一泰, 荒川鉄雄, 中西道郎, 大原貴裕, 福井重文, 築瀬正伸, 野口輝夫, 後藤葉一

国立循環器病研究センター心臓血管内科

MPS1-4 LVAD患者の不整脈への対応

肥後太基

九州大学医学部循環器内科

Wednesday, 29 July

Room 9 10:30-12:00 Medical Professional Session2 [MPS2]

デバイス治療におけるチーム医療

座長 安藤献児

小倉記念病院循環器科

前田明子

杏林大学医学部付属病院循環器内科不整脈センター

MPS2-1 心臓植込みデバイス遠隔モニタリングのためのチーム医療構築の現状と障壁

佐藤俊明

杏林大学医学部第二内科循環器内科

MPS2-2 ホームモニタリングを活用した病院連携における心臓デバイスチームの役割

貝谷和昭

天理よろず相談所病院循環器内科

MPS2-3 看護師の立場から見た、デバイス挿入患者へのチーム医療の取り組み

吉富可那子

社会保険小倉記念病院循環器科

MPS2-4 当院における心臓植え込み型デバイス患者の安全についての現状と課題

森野暁大, 清水芳行, 阿知和訓貴, 植本将史, 加藤ゆり, 村上善正

名古屋市立東部医療センター

MPS2-5 心室ペーシング率低値は、植込み型除細動器装着症例における不適切ショック作動の危険因子となりうるか？

小野 仁¹, 近藤祐介², 上田希彦³, 橋口直貴³, 梶山貴嗣³, 石村昌行³, 宮澤一雄³, 藤江 舞¹, 小林美知彦¹, 小林欣夫³

¹千葉大学医学部附属病院ME機器管理センター, ²Department of Medicine-Cardiology, University of Bonn, Germany, ³千葉大学大学院医学研究院循環器内科学

Room 9 12:10-13:10 Luncheon Seminar9 [LS9]

Atrial Fibrillation and Anticoagulation

Chair Yukihiro Koretsune

Institute for Clinical Research, Osaka National Hospital, Osaka, Japan

LS9-1 **Current and Future Strategies for Atrial Fibrillation**

Ken Okumura

Department of Cardiology, Hirosaki University Graduate School of Medicine, Aomori, Japan

(Nippon Boehringer Ingelheim Co., Ltd.)

Wednesday, 29 July

Room 9 14:30-16:30 Electrophysiology Frontiers 2015 [EF]

The mechanism and prevention of the transition from paroxysmal to chronic atrial fibrillation: Basic, genetic and clinical approaches

Chair Makoto Arita
Oita University, Oita, Japan

EF1 Atrial Fibrillation and Atrial Remodeling

Katsushige Ono
Department of Pathophysiology, Oita University School of Medicine, Oita, Japan

EF2 Role of Trigger and Substrate in the Mechanism of Atrial Fibrillation Persistence

Koichi Inoue
Cardiovascular Center, Sakurabashi Watanabe Hospital, Osaka, Japan

EF3 Mechanisms and Prevention of Development into Chronic Atrial Fibrillation: Implication from Surface ECG Analysis

Yasushi Miyauchi
Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan

EF4 The lessons learned from recent genomic studies on the pathogenesis of atrial fibrillation

Tetsushi Furukawa
Department of Bio-informational Pharmacology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

(NIPPON CHEMIPHAR CO., LTD)

Problem of the anticoagulant therapy

Chair Eiichi Watanabe

Department of Cardiology, Fujita Health University, Aichi, Japan

ES1-1 Reconsideration of anticoagulant therapy in patients with chronic kidney disease ~Attention to warfarin and novel oral anticoagulants~

Masanori Abe

Division of Nephrology, Hypertension and Endocrinology, Department of Internal Medicine, Nihon University School of Medicine, Tokyo, Japan

ES1-2 The paradigm shift in gastrointestinal endoscopy brought by the revised guideline

Satoshi Ono

Department of Gastroenterology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

(Eisai Co Ltd.)

Anticoagulant 1

Chairs Akiko Chishaki

Faculty of Medical Sciences, Department of Health Sciences, Kyushu University, Fukuoka, Japan

Kaori Shinagawa

Pharmaceuticals and Medical Devices Agency, Tokyo, Japan

O12-1 Significance of protorombin time measurement using specific reagent in patients with atrial fibrillation at outpatient clinic

Naoki Nozaki¹, Hidenari Hozawa¹, Masahiko Takahashi¹, Imun Tei²

¹Cardiovascular Medicine, Ayase Heart Hospital, Tokyo, Japan, ²Cardiovascular Surgery, Ayase Heart Hospital, Tokyo, Japan

O12-2 Clinical Characteristics and Outcomes of Cardiac Tamponade in Patients with Taking Non-vitamin K Antagonist Oral Anticoagulants

Hirosuke Yamaji¹, Shunichi Higashiya¹, Hiroshi Kawamura², Takashi Murakami², Kazuyoshi Hina²

¹Heart Rhythm Center, Okayama Heart Clinic, Okayama, Japan, ²Cardiovascular Medicine, Okayama Heart Clinic, Okayama, Japan

O12-3 Electrical cardioversion of atrial fibrillation with the novel oral anti-coagulants in the real world clinical practice : Single center study

Naoki Shibata, Itsuro Morishima, Hideyuki Tsuboi, Michitaka Uesugi, Yasuhiro Morita, Ruka Yoshida, Tappei Furuta, Toshiro Tomomatsu, Kazushi Terada, Yoshihiro Ikai, Kazuhito Tsuzuki, Takahito Sone

Department of Cardiology, Ogaki Municipal Hospital, Gifu, Japan

O12-4 Effect of non-vitamin K antagonist oral anticoagulant on left atrial thrombi in patients with atrial fibrillation and cardiogenic stroke

Hideyuki Kishima, Takanao Mine, Kenki Ashida, Tohru Masuyama

The Department of Internal Medicine, Cardiovascular Division, Hyogo College of Medicine, Hyogo, Japan

O12-5 Prediction of bleeding events in atrial fibrillation treated with non-vitamine K antagonist oral anticoagulants

Toyonobu Tsuda, Kenshi Hayashi, Tetsuo Konno, Kenji Sakata, Hiroshi Furusho, Masayuki Takamura, Masaaki Kawashiri, Masakazu Yamagishi

Division of Cardiovascular Medicine, Kanazawa University Graduate School of Medical Science, Ishikawa, Japan

AF Ablation Complication 1

Chairs Yeonghwa Chun

Arrhythmia Center, Takeda Hospital, Kyoto, Japan

Yoshihisa Enjoji

Department of Cardiology, Tokyo Heart Center, Tokyo, Japan

O13-1 Esophageal Temperature Monitoring during Cryoballoon Ablation in the Left Atrium using a Deflectable Probe and Fixed Sensor Probe

Atsushi Kobori, Yasuhiro Sasaki, Kitae Kim, Takafumi Yamane, Natsuhiko Ehara, Makoto Kinoshita, Shuichiro Kaji, Yutaka Furukawa

Division of Cardiology, Kobe City Medical Center General Hospital, Hyogo, Japan

O13-2 Efficacy and safety of minimized left atrial posterior wall ablation strategy to prevent esophageal-gastric complications in patients with atrial fibrillation

Katsunori Okajima, Akira Shimane, Kunihiko Kiuchi, Kiminobu Yokoi, Jin Teranishi, Kosuke Aoki, Misato Chimura, Hideo Tsubata, Taishi Miyata, Yuki Matsuoka, Takayoshi Toba, Shogo Ohishi, Takahiro Sawada, Yasue Tsukishiro, Tetsuari Ohnishi, Seiichi Kobayashi, Shinichiro Yamada, Yasuyo Taniguchi, Yoshinori Yasaka, Hiroya Kawai

Department of Cardiology, Himeji Cardiovascular Center, Hyogo, Japan

O13-3 Can Sheath Infusion during Atrial Fibrillation Ablation Prevent New Silent Cerebral Lesions?

Norikazu Watanabe, Yuya Nakamura, Kouichiro Inoguchi, Akinori Ochi, Yuta Chiba, Yumi Munetsugu, Tatsuya Onuki, Yoshino Minoura, Taro Adachi, Mitsuharu Kawamura, Taku Asano, Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

O13-4 Esophageal injury related to cryoablation in patients with paroxysmal atrial fibrillation

Yasuaki Tsumagari, Yukio Sekiguchi, Yasutoshi Shinoda, Kojiro Ogawa, Eiko Sai, Yoshiaki Yui, Keita Masuda, Takeshi Machino, Kenji Kuroki, Miyako Igarashi, Akihiko Nogami, Kazutaka Aonuma

Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

Wednesday, 29 July

O13-5 The feasibility of the esophageal-temperature cutoff value of 38 degrees during atrial fibrillation ablation

Takehiro Kimura, Kazuaki Nakajima, Shin Kashimura, Akira Kunitomi, Takahiko Nishiyama, Yoshinori Katsumata, Nobuhiro Nishiyama, Kotaro Fukumoto, Yoko Tanimoto, Yoshiyasu Aizawa, Keiichi Fukuda, Seiji Takatsuki

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

AF Ablation 4

Chairs Kaoru Okishige

Heart Center, Yokohama-City Bay Red Cross Hospital, Kanagawa, Japan

Yuji Okuyama

Advanced Cardiovascular Therapeutics, Osaka University, Osaka, Japan

O14-1 The efficacy of very low energy output radiofrequency ablation in pulmonary vein isolation

Takatoshi Shigeta¹, Hiroyuki Okada¹, Masahiro Hada¹, Masao Yamaguchi¹, Tatsuya Fujinami¹, Go Ishimaru¹, Hiroshi Inagaki¹, Nobuo Toshida¹, Toshihiko Takamoto¹, Kenzo Hirao²

¹Cardiovascular Medicine, Soka Municipal Hospital, Saitama, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan

O14-2 How to identify electrical breakthrough sites occurring in the left pulmonary veins during atrial fibrillation ablation

Shinya Sugiura, Koji Matsuoka

Department of Cardiology, Matsusaka Chuo Hospital, Mie, Japan

O14-3 A Limited Number of Muscular Bundles Extend into Pulmonary Veins

Kenta Kajihara, Motoki Hara, Hikari Jo, Shinji Kajiwara, Kazuhiro Nitta, Akihiko Morisue, Yujiro Ono

The Department of Cardiology, Higashihiroshima Medicalcenter, Hiroshima, Japan

O14-4 Pace and ablate procedure to obtain unexcitability on the ablation line for pulmonary vein isolation; Its impact on initial clinical outcome of atrial fibrillation ablation

Koichi Inoue, Nobuaki Tanaka, Koji Tanaka, Yuko Toyoshima, Takafumi Oka, Yoshiyuki Orihara, Yasushi Koyama, Atsunori Okamura, Katsuomi Iwakura, Kenshi Fujii

Sakurabashi Watanabe Hospital, Cardiovascular Center, Osaka, Japan

O14-5 Loss of pace capture on the ablation line can improve the durability of pulmonary vein isolation for atrial fibrillation

Koichi Inoue, Nobuaki Tanaka, Koji Tanaka, Yuko Toyoshima, Takafumi Oka, Yoshiyuki Orihara, Yasushi Koyama, Atsunori Okamura, Katsuomi Iwakura, Kenshi Fujii

Sakurabashi Watanabe Hospital, Cardiovascular Center, Osaka, Japan

Wednesday, 29 July

Room 10 12:10-13:10 Luncheon Seminar10 [LS10]

Direct Anatomic Visualization with a Novel Ablation Balloon for PV Isolation ★

Chair Kazutaka Aonuma

Cardiovascular Division, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Ibaraki, Japan

LS10-1 Direct Anatomic Visualization with a Novel Ablation Balloon for PV Isolation

Boris Schmidt

Cardiovascular Center Bethanien, Germany

Commentator

Shih-Ann Chen

National Yang Ming University, Taiwan

(Japan Lifeline Co., Ltd.)

AF Ablation 5

Chairs Koji Kumagai

Division of Cardiology, Gunma Prefectural Cardiovascular Center, Gunma, Japan

Yu-ki Iwasaki

Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan

O15-1 Left Atrial Appendage Closure with Intracardiac Echo Guidance

Yae Matsuo¹, Petr Neuzil², Yoshiaki Kaneko¹, Masahiko Kurabayashi¹

¹Department of Cardiology, Gunma University Hospital, Gunma, Japan, ²Department of Cardiology, Homolka Hospital, Prague, Czech Republic

O15-2 A new endoscopy-surgical technique for super-extensive epicardial left pulmonary vein isolation

Toshiya Ohtsuka

International AFIB Center of Excellence Tokyo and Department of Cardiac Surgery, Tokyo Metropolitan Tama Medical Center, Tokyo, Japan

O15-3 Intra-atrial Conduction Block after Multiple Ablation Procedures for Atrial Tachycardias in Patient Undergoing Mitral Valve Plasty

Akira Kimata¹, Kentaro Yoshida¹, Yoko Ito¹, Masako Misaki¹, Masako Baba¹, Daigo Hiraya¹, Naoya Koda¹, Kazutaka Aonuma², Noriyuki Takeyasu¹

¹Division of Cardiovascular Medicine, Ibaraki Prefectural Central Hospital, Ibaraki, Japan, ²Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

O15-4 Mitral isthmus ablation using a circular mapping catheter positioned in the left atrial appendage as a reference for conduction block

Takahiko Nishiyama, Kazuaki Nakajima, Akira Kunitomi, Shin Kashimura, Yoshinori Katsumata, Takehiro Kimura, Nobuhiro Nishiyama, Kotaro Fukumoto, Yoko Tanimoto, Yoshiyasu Aizawa, Keiichi Fukuda, Seiji Takatsuki

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

O15-5 The Impact of Epicardial adipose tissue volume on left atrial electroanatomical remodeling in patients with atrial fibrillation

Kennosuke Yamashita, Masahiko Ochiai, Wataru Igawa, Morio Ono, Takehiko Kido, Seitarou Ebara, Toshitaka Okabe, Myong-Hwa Yamamoto, Shigeo Saito, Koichi Hoshimoto, Kisaki Amemiya, Tadayuki Yakushiji, Naoei Isomura, Hiroshi Araki

Showa University Northern Yokohama Hospital, Kanagawa, Japan

Anticoagulant 2

Chairs Shiro Iwanaga

Department of Cardiology, Saitama Medical University, International Medical Center, Saitama, Japan

Hiroko Nawata

Department of Internal Medicine, Edogawa Hospital, Tokyo, Japan

O16-1 Inappropriate Dose Prescription of Non-Vitamin K Dependent Anticoagulants for the Patients with Atrial Fibrillation

Hidehira Fukaya¹, Shinichi Niwano¹, Hironori Nakamura¹, Naruya Ishizue¹, Tazuru Igarashi¹, Tamami Fujiishi¹, Tomoharu Yoshizawa¹, Jun Oikawa², Akira Satoh², Jun Kishihara¹, Masami Murakami¹, Junya Ako¹

¹Department of Cardiovascular Medicine, Kitasato University School of Medicine, Kanagawa, Japan, ²Department of Cardiovascular Medicine, Yamato Municipal Hospital, Kanagawa, Japan

O16-2 Safety of Apixaban for Stroke Prevention in Japanese Patients with Nonvalvular Atrial Fibrillation from Post Marketing Surveillance: STANDARD study

Hiroshi Inoue¹, Masahiro Yasaka², Keiko Maruyama³, Hiroyuki Hashimoto⁴, Takako Yamada³, Keita Seino⁴, Hiroshi Tamada³

¹University of Toyama, Toyama, Japan, ²Department of Cerebrovascular Medicine and Neurology, National Hospital Organization, Kyushu Medical Center, Fukuoka, Japan, ³Bristol-Myers K.K., Tokyo, Japan, ⁴Pfizer Japan Inc, Tokyo, Japan

O16-3 Should we attend to seasonal variation?: Season-dependent difference was NOT observed in partial thromboplastin time under dabigatran therapy

Shinya Suzuki, Takayuki Otsuka, Takuto Arita, Naoharu Yagi, Koichi Sagara, Takeshi Yamashita

Department of Cardiovascular Medicine, The Cardiovascular Institute, Tokyo, Japan

O16-4 Patient characteristics of NOACs user in the real clinical scene

Ken Umetani, Keita Sano, Aritaka Makino, Masahiko Nakamura

Department of Cardiology, Yamanashi Prefectural Central Hospital, Yamanashi, Japan

O16-5 Dissolution of the left atrial appendage thrombus with rivaroxaban anticoagulant therapy in patient with hypercoagulability

Yuya Nakamura, Yoshino Minoura, Kou Ogawa, Akinori Ochi, Kouichiro Inokuchi, Yuta Chiba, Shiro Kawasaki, Yoshimi Onishi, Yumi Munetsugu, Miwa Kikuchi, Tatsuya Onuki, Norikazu Watanabe, Taro Adachi, Mitsuharu Kawamura, Taku Asano, Youichi Kobayashi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

AF Ablation Complication 2

Chairs Kazumi Kimura

Department of Neurological Science, Graduate School of Medicine, Nippon Medical School, Tokyo, Japan

Mitsuhiro Nishizaki

Department of Cardiology, Yokohama Minami Kyosai Hospital, Knagawa, Japan

O17-1 Clinical value of left atrial emptying fraction for predicting of left atrial thrombus in patients before atrial fibrillation ablation

Naoaki Hashimoto, Takanori Arimoto, Tadateru Iwayama, Daisuke Ishigaki, Yu Kumagai, Tetsu Watanabe, Isao Kubota

Yamagata University School of Medicine, Department of Cardiology, Pulmonology, and Nephrology, Yamagata, Japan

O17-2 The Incidence of Silent Cerebral Thromboembolism in the Second Procedure of Catheter Ablation for Atrial Fibrillation

Akemi Aso, Toshihiro Nakamura, Kyohei Meno, Yujiro Ura, Masahiro Araki, Emiko Ejima, Masaaki Nishihara, Takahiro Mori, Katsuhiko Takenaka, Koutaro Numaguchi, Yoshinobu Murasato, Koji Hiyamuta

The Department of Cardiology, National Hospital Organization Kyushu Medical Center, Fukuoka, Japan

O17-3 Increase in Esophageal Temperature during Radiofrequency Delivery and Spontaneous Conduction Block between the Posterior Left Atrium and Left Pulmonary Veins

Naoyuki Miwa^{1,4}, Yoshihide Takahashi¹, Mayumi Masumura¹, Shinsuke Iwai¹, Tasuku Yamamoto¹, Junichi Doi¹, Atsushi Sakakibara¹, Yoshinori Yoshida¹, Tesuo Ohmi¹, Masakazu Ohno¹, Toshikazu Nozato¹, Yasuhiro Sato¹, Kenzo Hirao², Mitsuaki Isobe³

¹National Disaster Medical Center, Tokyo, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan, ³Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Tokyo, Japan, ⁴Japanese Red Cross Musashino Hospital, Tokyo, Japan

O17-4 The Impact of Ablation Process and Strategy in Left Atrium on Microemboli Formation during Irrigated RF Catheter Ablation in an in vivo Model

Mitsuru Takami, H. Immo Lehmann, Kay D. Parker, Susan B. Johnson, Douglas L. Packer
Cardiovascular Division, Mayo Clinic, Rochester, USA

O17-5 Plasma von Willebrand Factor Activity as a Novel Predictor of Recurrence after Catheter Ablation for Atrial Fibrillation

Mitsuru Wada, Yuki Wada, Ikutaro Nakajima, Kohei Ishibashi, Koji Miyamoto, Hideo Okamura, Takashi Noda, Takeshi Aiba, Shiro Kamakura, Kengo Kusano

National Cerebral and Cardiovascular Center, Osaka, Japan

ECG Assessment 1

Chairs Takanori Ikeda

Department of Cardiovascular Medicine, Toho University Faculty of Medicine, Tokyo, Japan

Taro Adachi

Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan

O18-1 The Investigation of Clinical Data and Cardiac Events on Positive Late Potentials in Myocardial Infarction Patients

Natsuko Hosoya, Ryosuke Takeuchi, Hirotsugu Mitake, Marina Ishida, Tamotsu Takagi, Gaku Matsukura, Keita Kodama, Shigetaka Kageyama, Yuzo Watanabe, Hirofumi Sugiyama, Koichiro Murata, Ryuzo Nawada, Tomoya Onodera

The Department of Cardiology, Shizuoka City Shizuoka Hospital, Shizuoka, Japan

O18-2 Predictive value of filtered QRS for sudden cardiac death in Heart Failure Patients with Implantable Cardioverter Defibrillator

Atsushi Suzuki, Tsuyoshi Shiga, Ryuta Henmi, Ken Kato, Daigo Yagishita, Koichiro Ejima, Tetsuyuki Manaka, Morio Shoda, Nobuhisa Hagiwara

Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan

O18-3 A head-to-head comparison of microvolt T-wave alternans and T-wave amplitude variability

Tomohide Ichikawa, Eiichi Watanabe, Masayuki Koshikawa, Mayumi Yamamoto, Kentarou Okuda, Yoshihiro Sobue, Masahide Harada, Yukio Ozaki

The Department of Cardiology, Fujita Health University, Aichi, Japan

O18-4 Disopyramide Significantly Decreases T-Wave Alternans without Influence on Heart Rate Turbulence Indices in Patients with Ventricular Premature Contraction

Bonpei Takase¹, Yuko Higashimura¹, Akira Hamabe²

¹Department of Intensive Care Medicine, National Defense Medical College, Saitama, Japan, ²Self Defense Forces Central Hospital, Internal Medicine, Tokyo, Japan

O18-5 Comparison of the Ambulatory ECG-based T-wave Alternans and the Exercise Microvolt-TWA Under Simultaneous Recording

Toshio Kinoshita, Shunji Fukunaga, Hideki Koike, Masaya Shinohara, Toshiki Asada, Ken Kitahara, Hitomi Yuzawa, Takeya Suzuki, Hideyuki Sato, Atsuko Abe, Tadashi Fujino, Kenzaburo Kobayashi, Takanori Ikeda

Department of Cardiovascular Medicine, Toho University Faculty of Medicine, Tokyo, Japan

ECG Assessment 2

Chairs Koichiro Yoshioka

Tokai University School of Medicine, Cardiology, Kanagawa, Japan

Masatake Fukunami

Osaka General Medical Center, Osaka, Japan

O19-1 Evaluation of short term beat-to-beat variability of QT interval in patients with cardiovascular disease

Masashi Kasao¹, Akira Nakazawa², Yuki Sakai², Takao Ohmura³, Kazuyuki Mitsui², Nitara Shibata⁴, Tetsuro Shirai¹

¹Department of Cardiology, Tokyo Metropolitan Police Hospital, Tokyo, Japan, ²Advanced Multidisciplinary Engineering, Graduate School of Advanced Science and Technology, Tokyo Denki University, Tokyo, Japan, ³Faculty of Medical Engineering, Department of Clinical Engineering, Suzuka University of Medical Science, Mie, Japan, ⁴Department of Cardiology, Shinjuku Mitsui Building Clinic, Tokyo, Japan

O19-2 High-frequency signals within the QRS complex calculated by wavelet transformation predict ventricular tachycardia vulnerability

Yuya Aoyama¹, Seiji Fukamizu¹, Kiyotaka Yoshida¹, Satoshi Miyazawa¹, Iwanari Kawamura¹, Akihiro Nakada¹, Yuichi Moriyama¹, Ken Arai¹, Toshiki Kaihara¹, Motohiro Asaki¹, Takeshi Kitamura¹, Rintaro Hojo¹, Kota Komiyama¹, Tamotsu Tejima¹, Mitsuhiro Nishizaki², Harumizu Sakurada³, Masayasu Hiraoka⁴

¹Department of Cardiology, Tokyo Metropolitan Hiroo Hospital, Tokyo, Japan, ²Department of Cardiology, Yokohama Minami Kyosai Hospital, Kanagawa, Japan, ³Tokyo Metropolitan Health and Medical Treatment Corporation Ohkubo Hospital, Tokyo, Japan, ⁴Toride Kitasohma Medical Center Hospital, Ibaraki, Japan

O19-3 A strain rate for the assessment of myocardial repolarization time; Using two-dimensional speckle-tracking study

Soichiro Yamashita, Koji Fukuzawa, Akihiro Yoshida, Tomoyuki Nakanishi, Akinori Matsumoto, Hiroki Konishi, Hirotochi Ichibori, Hiroshi Imada, Kiyohiro Hyogo, Ken-ichi Hirata

Department of Internal Medicine, Division of Cardiovascular Medicine, Kobe University Graduate School of Medicine, Hyogo, Japan

O19-4 Circadian Variation of Heart Rate Turbulence with Cardiac Normal Subjects

Kenichi Hashimoto¹, Yuji Kasamaki¹, Yasuo Okumura², Kimie Ohkubo², Toshiko Nakai², Satoshi Kunimoto², Takafumi Hiro², Ichiro Watanabe², Atsushi Hirayama², Masayoshi Souma¹

¹Division of General Medicine, Nihon University, School of Medicine, Tokyo, Japan, ²Division of Cardiovascular Medicine, Nihon University, School of Medicine, Tokyo, Japan

Wednesday, 29 July

O19-5 QT-RR relationship and correction in atrial fibrillation

Mina Hatsuno¹, Yuji Watari¹, Taketo Hatsuno², Seiji Nishide¹, Mutsuki Miyagawa¹, Takeshi Yamakawa¹, Takeshi Tomihara², Ken Kozuma¹, Taiji Furukawa¹

¹Department of Medicine, Teikyo University School of Medicine, Tokyo, Japan, ²Laboratory Medicine, Teikyo University School of Medicine, Tokyo, Japan

AF Others 1

Chairs Yukihiro Yoshida

Department of Cardiology, Japanese Red Cross Nagoya Daini Hospital, Aichi, Japan

Kenta Kumagai

Odawara Cardiovascular Hospital, Kanagawa, Japan

O20-1 **Hepatic Gene Expression Profile in Human Atrial Fibrillation: Novel Insights into Cardio-hepatic Interaction in Arrhythmia**

Naomi Kanamori, Takeshi Kato, Soichiro Usui, Hiroshi Ootsuji, Takanori Yaegashi, Hiroshi Furusho, Shinichiro Takashima, Hisayoshi Murai, Shuichi Kaneko, Masayuki Takamura

Department of Cardiology, University of Kanazawa, Ishikawa, Japan

O20-2 **Usefulness and comparison of the event recorder and portable ECG recorder in detecting paroxysmal atrial fibrillation**

Yukoh Hirai, Yasuyuki Tomohiro

Department of Cardiology, Kure Kyosai Hospital, Hiroshima, Japan

O20-3 **Functional remodeling of left atrial appendage in patients with paroxysmal atrial fibrillation**

Kenki Ashida, Takanao Mine, Satoshi Takahashi, Hideyuki Kishima, Tohru Masuyama

Cardiovascular Division, Department of Internal Medicine, Hyogo College of Medicine, Hyogo, Japan

O20-4 **Investigation on the prevalence of atrial tachyarrhythmia in patients with anti-mitochondrial M2 antibody**

Hiroki Konishi, Koji Fukuzawa, Tomoyuki Nakanishi, Soichiro Yamashita, Akinori Matsumoto, Hirotochi Ichibori, Kiyohiro Hyogo, Hiroshi Imada, Akihiro Yoshida, Ken-ichi Hirata

Section of Arrhythmia, Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Hospital, Hyogo, Japan

O20-5 **The serum brain natriuretic peptide level predicts sick sinus syndrome during ablation of persistent atrial fibrillation**

Takehiro Kimura, Kazuaki Nakajima, Shin Kashimura, Akira Kunitomi, Takahiko Nishiyama, Yoshinori Katsumata, Nobuhiro Nishiyama, Kotaro Fukumoto, Yoko Tanimoto, Yoshiyasu Aizawa, Keiichi Fukuda, Seiji Takatsuki

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

Wednesday, 29 July

Room 11 12:10-13:10 Luncheon Seminar11 [LS11]

**Catheter ablation for atrial fibrillation using new 3D mapping system
-including the experience of precedex -**

Chair Yoshito Iesaka

Division of Cardiology, Cardiovascular Center, Tsuchiura Kyodo Hospital, Ibaraki, Japan

LS11-1 Catheter ablation for atrial fibrillation using new 3D mapping system
-including the experience of precedex -

Shigeto Naito

Cardiology Division, Gunma Prefectural Cardiovascular Center, Gunma, Japan

(Hospira Japan Co., Ltd.)

Pacemaker 1

Chairs **Motoyuki Fukuta**

Department of Cardiology, Aichi Medical University School of Medicine, Aichi, Japan

Hidekazu Miyazaki

Kawasaki Municipal Tama Hospital, Kanagawa, Japan

O21-1 Clinical and ECG Characteristics in Patients with Sick Sinus Syndrome and Atrioventricular Block

Akira Kunitomi, Yoshiyasu Aizawa, Kazuaki Nakajima, Shin Kashimura, Yoshinori Katsumata, Takahiko Nishiyama, Takehiro Kimura, Nobuhiro Nishiyama, Kotaro Fukumoto, Yoko Tanimoto, Shun Kohsaka, Keiichi Fukuda, Seiji Takatsuki

Cardiology Division, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan

O21-2 The Incidence of Subclavian Venous Thrombosis in Patients Receiving Antithrombotic Agent Following Implantation of Permanent Pacemaker or Implantable Cardioverter Defibrillator

Takeya Suzuki, Hideki Koike, Ken Kitahara, Toshio Kinoshita, Hitomi Yuzawa, Hideyuki Sato, Atsuko Abe, Tadashi Fujino, Shunji Fukunaga, Kenzaburo Kobayashi, Junichi Yamazaki, Takanori Ikeda

Division of Cardiovascular Medicine, Department of Internal Medicine, Toho University Omori Medical Center, Tokyo, Japan

O21-3 Study of impact on myocardial injury and device at the time of direct current shock in device implanted patients using computer simulation

Takahito Takagi¹, Mahito Noro¹, Xin Zhu², Naohiko Sahara¹, Yuriko Narabayashi¹, Hikari Hashimoto¹, Naoshi Ito¹, Yoshinari Enomoto¹, Tsuyoshi Sakai³, Shingo Kujime¹, Keiji Nakamura¹, Takao Sakata¹, Kaoru Sugi¹

¹Division of Cardiovascular Medicine, Toho University Ohashi Medical Center, Tokyo, Japan, ²Biomedical Information Technology Laboratory, the University of Aizu, Fukushima, Japan, ³Division of Cardiovascular Medicine, Saiseikai Yokohamashi Tobu Hospital, Kanagawa, Japan

O21-4 Complete AV block preceding typical cardiac sarcoidosis findings and recovery of pacing threshold of right ventricular lead following steroid therapy

Makoto Furugen, Keiichi Ashikaga, Shun Nishino, Hiroshi Koiwaya, Toshiyuki Kimura, Tatsuya Nakama, Nehiro Kuriyama, Yoshisato Shibata

Division of Cardiology, Miyazaki Medical Association Hospital, Miyazaki, Japan

Wednesday, 29 July

O21-5 **Necessity and Feasibility of Emergent MRI Scanning of Device Implanted Patients**

Maki Ono, Makoto Suzuki, Shunsuke Kuroda, Akira Mizukami, Akihiko Matsumura, Yuji Hashimoto

Department of Cardiology, Kameda Medical Center, Chiba, Japan

Pacemaker 2

Chairs Makoto Hirai

Department of Nursing, Nagoya University Graduate School of Medicine, Aichi, Japan

Takeshi Yamakawa

Department of Cardiology, Ageo Central General Hospital, Saitama, Japan

O22-1 Comparison of variability of the paced QRS wave duration caused by right ventricular apex pacing and septal pacing in the clinical situation

Mariko Tanaka, Maki Oi, Yasuyo Motohashi, Kousuke Takahashi, Euihong Ko, Koji Hanazawa, Mamoru Toyofuku, Masahiko Kitada, Yousuke Yutsuki, Takashi Tamura

Department of Cardiology, Japanese Red Cross Wakayama Medical Center, Wakayama, Japan

O22-2 Impact of Right Ventricular Septum Pacing for Left Ventricular Function in Paced Patients with Atrioventricular Block

Katsuhide Hayashi¹, Haruhiko Abe², Ritsuko Kohno², Masao Takahashi¹, Taichi Watabe¹, Hisaharu Ohe¹, Yasushi Oginosawa¹, Yutaka Otsuji¹

¹*The Second Department of Internal Medicine, University of Occupational and Environmental Health, Fukuoka, Japan,*

²*Department of Heart Rhythm Management, University of Occupational and Environmental Health, Fukuoka, Japan*

O22-3 Involvement of left anterior fascicular block and clinical impact of the intra-ventricular dyssynchrony caused by right ventricular pacing among the patients with normal ejection fraction

Masato Okada¹, Kazunori Kashiwase², Akio Hirata², Keisuke Ueno², Ryohei Amiya², Yasunori Ueda³

¹*Sakurabashi Watanabe Hospital, Osaka, Japan,* ²*Osaka Police Hospital, Osaka, Japan,* ³*Osaka National Hospital, Osaka, Japan*

O22-4 A Case with Pacing Failure Caused by Automatic Pacing Threshold Adjustment -A Pit-fall of Automatic Threshold Testing Algorithm of Pacemaker-

Jun Kishihara, Shinichi Niwano, Hironori Nakamura, Tazuru Igarashi, Naruya Ishizue, Tamami Fujiishi, Tomoharu Yoshizawa, Jun Oikawa, Akira Satoh, Masami Murakami, Hidehira Fukaya, Junya Ako

Department of Cardiovascular Medicine, Kitasato University School of Medicine, Kanagawa, Japan

Wednesday, 29 July

O22-5

Stability of Intrinsic Rhythm in Pacemaker Dependent Patients during Pacemaker Replacement: Can we predict a need for temporary pacing?

Yuki Kimura¹, Masataka Sumiyoshi¹, Kosuke Fukao¹, Iwao Okai¹, Kenji Inoue¹, Yasumasa Fujiwara¹, Tomoyuki Shiozawa², Seiji Miura², Sayaka Komatsu², Haruna Tabuchi², Gaku Sekita², Hiroyuki Daida², Fuminori Odagiri³, Takashi Tokano³, Yuji Nakazato³

¹Department of Cardiology, Juntendo University Nerima Hospital, Tokyo, Japan, ²Department of Cardiology, Juntendo University School of Medicine, Tokyo, Japan, ³Department of Cardiology, Juntendo University Urayasu Hospital, Chiba, Japan

AF Clinical Study 1

Chairs Satoru Sakagami

Department of Cardiovascular Medicine, NHO Kanazawa Medical Center, Ishikawa, Japan

Satoru Komura

Department of Cardiology, Saiseikai Kawaguchi General Hospital, Saitama, Japan

O23-1 Pre-procedural Atrial Defibrillation Threshold at the First Pulmonary Vein Isolation for Persistent Atrial Fibrillation can be Predictor of 6months Result

Kosuke Nakasuka, Yoshimasa Murakami, Satoru Sekimoto, Takayuki Yoshida, Tomoaki Saeki

Division of Cardiology, Nagoya East Medical Center, Aichi, Japan

O23-2 Prediction of Sinus Rhythm Maintenance after Catheter Ablation in Patients with Persistent Atrial Fibrillation

Naoaki Onishi, Kazuaki Kaitani, Maiko Kuroda, Yusuke Yoshikawa, Masashi Amano, Yukiko Hayama, Sari Imamura, Chisato Izumi, Yoshihisa Nakagawa

The Department of Cardiology, Tenri Hospital, Nara, Japan

O23-3 Long-time outcomes after origin-targeted unilateral pulmonary vein isolation for paroxysmal atrial fibrillation

Naomi Kanamori¹, Hiroshi Furusho¹, Satoru Sakagami², Takashi Kusayama¹, Takeshi Kato¹, Hisayoshi Murai¹, Soichiro Usui¹, Shuichi Kaneko¹, Masayuki Takamura¹

¹Department of Cardiology, University of Kanazawa, Ishikawa, Japan, ²Department of Cardiology, Kanazawa Medical Center, Ishikawa, Japan

O23-4 Efficacy of Catheter Ablation for Long Standing Persistent Atrial Fibrillation Lasting over 5 years

Kentaro Nakai, Satoshi Shizuta, Tetsuma Kawaji, Mitsuhiko Yahata, Hiroaki Sugiyama, Koji Goto, Takeshi Kimura

Cardiovascular Medicine, Kyoto University Hospital, Kyoto, Japan

O23-5 Long term outcome of radiofrequency catheter ablation for atrial fibrillation in patients with left ventricular dysfunction

Mitsuhiko Yahata, Satoshi Shizuta, Tetsuma Kawaji, Kentaro Nakai, Hiroaki Sugiyama, Koji Goto, Takeshi Kimura

Department of Cardiovascular Medicine, Kyoto University Hospital, Kyoto, Japan

Wednesday, 29 July

Event Hall 10:00-10:40 Educational Seminar1 [EDS1]

教育セミナー（心臓構造学レクチャー1）

EDS1 不整脈の理解に必要な心臓の解剖（1）：右心系の解剖

井川 修

日本医科大学多摩永山病院内科・循環器内科

Arrhythmia viewing from cardiac structure : -Arrhythmia associated with TAVI-

Chair Takashi Nitta

Department of Cardiovascular Surgery, Nippon Medical School, Tokyo, Japan

LS12-1 Overview of TAVI in Japan

Kentaro Hayashida

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

LS12-2 Arrhythmia associated with TAVI : - Structure of aortic root and its surroundings -

Osamu Igawa

Department of Internal Medicine and Cardiology, Nippon Medical School Tama Nagayama Hospital, Tokyo, Japan

(Edwards Lifesciences Limited)

AF 1

Chairs Hiroshi Taniguchi

Division of Cardiology, Cardiovascular Center, Tsuchiura Kyodo Hospital, Ibaraki, Japan

Kenzaburo Kobayashi

Department of Cardiology, Toho University Ohashi Hospital, Tokyo, Japan

P1-1 Catheter Ablation of Long Lasting Atrial Tachycardia Arising from Left Atrial Appendage in a Pediatric Patient with Tachycardia Induced Cardiomyopathy

Hiromi Yoshimura¹, Takuya Kiyama¹, Satoru Yamamura¹, Yu Oimatsu¹, Syunichirou Fuchigami¹, Akihiko Ito¹, Ryusuke Tsunoda¹, Hidetaka Yoshimatsu², Katsuki Hirai², Masahiro Migita²

¹Department of Cardiovascular Medicine, Japanese Red Cross Kumamoto Hospital, Kumamoto, Japan, ²Department of Pediatrics, Japanese Red Cross Kumamoto Hospital, Kumamoto, Japan

P1-2 Successful Ablation with PentaRay NAV Catheter for Swallowing-Induced Atrial Tachycardia

Yusuke Yoshikawa, Naoaki Onishi, Kazuaki Kaitani, Shunsuke Nishimura, Maiko Kuroda, Yusuke Takahashi, Masashi Amano, Yukiko Hayama, Sari Imamura, Yodo Tamaki, Soichiro Enomoto, Makoto Miyake, Toshihiro Tamura, Hirokazu Kondo, Chisato Izumi, Yoshihisa Nakagawa

Department of Cardiology, Tenri Hospital, Nara, Japan

P1-3 Localized Reentrant Atrial Tachycardia after Mitral Valve Plasty and Maze Procedure

Yuko Miki¹, Kohei Iguchi¹, Nao Yamada¹, Hidekuni Kirigaya¹, Daiki Gyotoku¹, Naoki Iinuma¹, Tatsuya Nakachi¹, Kazuki Fukui¹, Toshiyuki Ishikawa²

¹Cardiology, Kanagawa Cardiovascular and Respiratory Center, Kanagawa, Japan, ²Yokohama City University Hospital, Kanagawa, Japan

P1-4 Usefulness of the PentaRay® NAV catheter to assess the ablation line of the Maze-procedure in a case of post-operative atrial flutter

Takashi Kusayama, Hiroshi Furusho, Naomi Kanamori, Takeshi Kato, Shinichiro Takashima, Hisayoshi Murai, Soichiro Usui, Shuichi Kaneko, Masayuki Takamura

The Department of Cardiology, Kanazawa University Hospital, Ishikawa, Japan

P1-5 Fractionated potential in scar region recorded with mini electrodes embedded on 8-mm non-irrigated ablation catheter in a patient with atrial tachycardia and tetralogy of Fallot

Ken Kato, Koichiro Ejima, Morio Shoda, Tetsuyuki Manaka, Daigo Yagishita, Ryuta Henmi, Kuniaki Suwa, Takashi Mizuki, Michiko Imai, Nobuhisa Hagiwara

Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan

P1-6 Importance of conduction velocity slowing induced by sodium channel blockade during atrial flutter for the development of spontaneous 1 to 1 atrioventricular conduction

Kanako Hagiwara-Ito, Yu-ki Iwasaki, Yuhi Fujimoto, Eiichiro Oka, Kenta Takahashi, Ippei Tsuboi, Kenji Yodogawa, Meiso Hayashi, Yasushi Miyauchi, Wataru Shimizu

The Department of Cardiovascular Medicine, Nippon Medical School, Tokyo, Japan

P1-7 Identification of the Anatomic Location of Focal Atrial Tachycardias Using Synthesized 18 Lead Electrocardiography

Masayuki Ishimura, Marehiko Ueda, Kazuo Miyazawa, Takatsugu Hashiguchi, Naotaka Hashiguchi, Yoshio Kobayashi

Department of Cardiovascular Medicine, Chiba University Hospital, Chiba, Japan

AF 2

Chairs Yoshihisa Abe

Department of Cardiology, Research Institute for Brain and Blood Vessels Akita, Akita, Japan

Takashi Ashihara

Department of Cardiovascular Medicine, Shiga University of Medical Science, Shiga, Japan

P2-1 Two difficult cases of a perimitral atrial flutter ablation due to rare structural anomaly

Keiko Takahashi, Yasuo Okumura, Ichiro Watanabe, Koichi Nagashima, Kazumasa Sonoda, Rikitake Kogawa, Naoko Sasaki, Kazuki Iso, Sayaka Kurokawa, Satoshi Kunitomo, Toshiko Nakai, Kimie Ohkubo, Atsushi Hirayama

Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan

P2-2 Entrainment pacing was useful to estimate reentrant circuit of atrial tachycardia in a case of Tetralogy of Fallot after surgical operation

Shunsuke Watanabe¹, Hiroto Takeda¹, Yuichiro Jin¹, Koko Kanazawa¹, Goro Ishida¹, Noriko Endo¹, Takeo Niitsuma¹, Nobuo Komatsu¹, Yasuchika Takeishi²

¹The Cardiovascular Center, Ohta Nishinouchi Hospital, Ohta General Hospital Foundation, Fukushima, Japan, ²The Department of Cardiology and Hematology, Fukushima Medical University, Fukushima, Japan

P2-3 Ablation of focal atrial tachycardia originating from the para-hisian region using new mapping concepts

Tae Ishikawa¹, Koji Azegami¹, Kazuya Murata¹, Keita Handa¹, Yoshimitsu Otsuka¹, Shingo Watanabe¹, Kaoru Sakurai¹, Kaoru Okishige³, Kenzo Hirao², Mitsuaki Isobe²

¹Department of Cardiovascular Medicine, Shinyurigaoka General Hospital, Kanagawa, Japan, ²Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Tokyo, Japan, ³Heart Center, Yokohama City Bay Red Cross Hospital, Kanagawa, Japan

P2-4 Transseptal puncture technique for autologous pericardium patch using a cutting balloon

Jiro Hiroki¹, Yukio Hosaka¹, Yuki Fujihara¹, Kazuyoshi Takahashi¹, Norihito Nakamura¹, Asami Kashiwa¹, Akiko Sanada¹, Keiichi Tsuchida¹, Kazuyuki Ozaki¹, Shigeto Naito², Hirotaka Oda¹

¹The Department of Cardiology, Niigata City General Hospital, Niigata, Japan, ²Division of Cardiology, Gunma Prefectural Cardiovascular Center, Gunma, Japan

P2-5 Focal Left Atrial Tachycardia after Several Atrial Fibrillation Ablation Procedures

Tsugiyoshi Yamazaki¹, Sou Takenaka², Tatsuhiko Murase¹, Houjou Sasaki¹, Akihiko Ueno¹, Hideo Takahashi¹, Noritoshi Ito¹, Hiroshi Fukunaga¹, Osamu Murai¹

¹Department of Cardiology, Kawasaki Saiwai Hospital, Kanagawa, Japan, ²Department of Cardiology, Yokohama General Hospital, Kanagawa, Japan

P2-6

Atrial Tachycardia Originated from Sinus Venosus

Sou Takenaka, Motosu Ando, Naoki Saito, Shingo Kujime, Daisuke Iida, Yuzuru Yambe

Department of Cardiology, Yokohama General Hospital, Kanagawa, Japan

AF 3

Chairs Yoshinao Sugai

Department of Cardiology, Gunma Prefectural Cardiovascular Center, Gunma, Japan

Takehiko Keida

Department of Cardiology, Edogawa Hospital, Tokyo, Japan

P3-1

The correlation between left atrial arrhythmogenic substrate and pulmonary vein flow velocity in the patients with atrial fibrillation

Hideharu Okamatsu, Masataka Kajiwara, Yasuaki Tanaka, Takuo Tsurugi, Junjiro Koyama, Toshihiro Honda

Saiseikai Kumamoto Hospital, Kumamoto, Japan

P3-2

Comparison of Dominant Frequency with Atrial Fibrillation Cycle Length Derived from Bipolar and Unipolar Electrograms

Rikitake Kogawa, Yasuo Okumura, Ichiro Watanabe, Koichi Nagashima, Kazumasa Sonoda, Naoko Sasaki, Kazuki Iso, Keiko Takahashi, Sayaka Kurokawa, Kimie Ohkubo, Toshiko Nakai, Atsushi Hirayama

Division of Cardiology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan

P3-3

Visualization of electrophysiologically defined junction between the right atrium and the superior vena cava

Nobuhiro Nishiyama, Seiji Takatsuki, Kazuaki Nakajima, Shin Kashimura, Yoshinori Katsumata, Takahiko Nishiyama, Takehiro Kimura, Kotaro Fukumoto, Yoshiyasu Aizawa, Yoko Hagiwara, Keiichi Fukuda

Department of Cardiology, Keio University School of Medicine, Tokyo, Japan

P3-4

Localization and Reproducibility of Rotational Activities in Patients with Atrial Fibrillation

Hajime Fujimoto, Satomi Ishihara, Kaeko Hirai, Masaki Naito, Atsushi Iwai, Yukihiro Hashimoto, Takuya Isojima, Megumi Suzuki, Hajime Iwama, Takehito Nakai, Naofumi Doi

Nara Prefecture Western Medical Center, Nara, Japan

P3-5

Efficacy of CATHPAX AF for the reduction of radiation exposure during ablation of atrial fibrillation

Takeshi Tobiume, Sachiko Bando, Tomomi Matsuura, Takeshi Soeki, Masataka Sata

Department of Cardiology, Tokushima University, Tokushima, Japan

AF 4**Chairs Satoru Komura***Department of Cardiology, Saiseikai Kawaguchi General Hospital, Saitama, Japan***Takahiko Nagase***Department of Cardiology, Saitama Medical University, International Medical Center, Saitama, Japan***P4-1****Atrial Fibrillation (AF) Caused by the Disagreement between Centroid Position Determined in Palatal Area and Center of Physiological Stable Region (PSR)****Tsuneo Sakai***Sakai Dental Clinic, Tochigi, Japan***P4-2****Ablation of persistent atrial fibrillation unmasks the left ventricular remodeling****Takehito Tokuyama, Yukiko Nakano, Shunsuke Tomomori, Hiroya Matsumura, Yoshikazu Watanabe, Hiroshi Kawazoe, Yasuki Kihara***Department of Cardiovascular Medicine, Hiroshima University Graduate School of Biomedical and Health Sciences, Hiroshima, Japan***P4-3****Differences in the Anticoagulation Strategy for Atrial Fibrillation between Cardiologists and Non-cardiologist****Akira Satoh¹, Hidehira Fukaya², Jun Oikawa¹, Nakako Yasuno¹, Takaaki Kubo¹, Shinichi Niwano², Junya Ako²***¹Department of Cardiovascular Medicine, Yamato Municipal Hospital, Kanagawa, Japan, ²Department of Cardiovascular Medicine, Kitasato University, School of Medicine, Kanagawa, Japan***P4-4****Effect of Atrial Fibrillation on Sleep Quality in Stable Chronic Heart Failure****Shozo Konishi, Kei Nakamoto, Yasuhiro Ichibori, Hitoshi Minamiguchi, Tomoaki Nakano, Kentaro Ozu, Hiroya Mizuno, Tomohito Ohtani, Osamu Yamaguchi, Yuji Okuyama, Yasushi Sakata***Department of Cardiovascular Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan***P4-5****Two Sheath Approach in Left Atrium Resulted in Less Frequent Patent Foramen after Trans-septal Puncture than 3 Sheath Approach****Takafumi Oka, Yoji Tokunaga, Koji Tanaka, Yuko Toyoshima, Nobuaki Tanaka, Yasushi Koyama, Koichi Inoue, Kenshi Fujii***Cardiovascular Division, Sakurabashi Watanabe Hospital, Osaka, Japan*

AF 5

Chairs Kohei Yamashiro

Heart Rhythm Center, Takatsuki General Hospital, Osaka, Japan

Takeshi Tobiume

Department of Cardiology, Tokushima University Hospital, Tokushima, Japan

P5-1 **Filtered P Wave Duration by Vector Magnetocardiography Can Evaluate Conduction Disturbance in Left Atrium**

Yuki Hasegawa¹, Satomi Hamada¹, Takuro Nishimura², Yasuhiro Shirai², Susumu Tao², Takeshi Sasaki², Mihoko Kawabata², Masahiko Goya², Yuki Sumi¹, Mitsuaki Isobe³, Kenzo Hirao², Tetsuo Sasano¹

¹Department of Biofunctional Informatics, Tokyo Medical and Dental University, Tokyo, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan, ³Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Tokyo, Japan

P5-2 **Novel Dielectric Blood Coagulometry Can Detect Increased Coagulability in Subjects with High CHADS₂ Score**

Yuki Hasegawa¹, Satomi Hamada¹, Takuro Nishimura², Yasuhiro Shirai², Susumu Tao², Takeshi Sasaki², Mihoko Kawabata², Masahiko Goya², Yuki Sumi¹, Mitsuaki Isobe³, Kenzo Hirao², Tetsuo Sasano¹

¹Department of Biofunctional Informatics, Tokyo Medical and Dental University, Tokyo, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan, ³Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Tokyo, Japan

P5-3 **Evaluation of the Right Atrial Appendage by Transesophageal Echocardiography in Patients with Atrial Fibrillation**

Junpei Shoda¹, Yoshiyuki Hama¹, Haruka Fujimaki¹, Taishi Kuwahara², Noriko Eguchi¹, Ikuto Terabayashi¹, Kohei Kamishita¹, Bi Katsu¹, Shuzo Tanaka¹, Norimasa Tonoike¹, Kyokushi Hou¹, Tai Sekine¹, Yuji Matsudo¹, Masashi Yamamoto¹, Toshiharu Himi¹

¹Division of Cardiology, Kimitsu Chuo Hospital, Chiba, Japan, ²Cardiovascular Center, Yokosuka Kyouzai Hospital, Kanagawa, Japan

P5-4 **Withdrawn**

P5-5 **Low Dose Colchicine Can Reduce Atrial Fibrillation Recurrence after Pulmonary Vein Isolation**

Yasuyuki Egami, Masami Nishino, Ryu Shutta, Nobuhiko Makino, Naoki Mori, Akihiro Tanaka, Naotaka Okamoto, Hiroki Yorifuji, Kiyoshi Masuyama, Yu Nushiro, Koji Yasumoto, Keisuke Yasumura, Jun Tanouchi

Department of Cardiology, Osaka Rosai Hospital, Osaka, Japan

AF 6**Chairs Kikuya Uno***Sapporo Cardiovascular Center / Heart Rhythm Center, Hokkaido, Japan***Kimie Ohkubo***Department of Cardiology, Nihon University Itabashi Hospital, Tokyo, Japan***P6-1****The Relevance of Systemic Inflammation for Atrial Fibrillation Recurrence after Persistent Atrial Fibrillation Ablation****Toru Adachi, Yasuhiro Yokoyama, Akira Kimata, Yutaro Nishi, Koichiro Niwa***Cardiovascular Center, St. Luke's International Hospital, Tokyo, Japan***P6-2****Safety and Efficacy of Novel Oral Anticoagulants for Cardioversion in Patients with Supraventricular Tachycardia****Nobuhiko Makino, Yasuyuki Egami, Ryu Shutta, Masami Nishino***Division of Cardiology, Osaka Rosai Hospital, Osaka, Japan***P6-3****Prothrombin time (PT) of apixaban can be estimated by age and PT of warfarin to check up effectiveness****Naoko Osaka, Shiro Katayama***Department of Pharmacy, Nippon Medical School Hospital, Tokyo, Japan***P6-4****Efficacy and Safety of the Reduced Dosage Apixaban in Japanese Patients with Atrial Fibrillation****Kazuhiro Naito, Yasushi Suzuki, Isao Kato, Yoshitaka Ito, Motoyuki Fukuta, Toru Iwa, Tetsuya Amano***Department of Cardiology, Aichi Medical University, Aichi, Japan***P6-5****Safety of Low-Dose Bepridil in Patients with Atrial Tachyarrhythmia****Kazuto Kujira, Daisuke Yoshimoto, Mitsuaki Itoh, Yuichiro Sakamoto, Kohei Yamashiro, Takahiko Suzuki***Department of Cardiovascular Medicine, Toyohashi Heart Center, Aichi, Japan***P6-6****Clinical investigation of the focal cryoablation catheter of 8-mm tip for ablation at tricuspid annulus in patients with atrial flutter of common variety****Mitsumi Yamashita, Kaoru Okishige, Naohiko Kawaguchi, Nobutaka Kato, Tomofumi Nakamura, Hideshi Aoyagi***Department of Cardiology, Yokohama Bay Red Cross Hospital, Kanagawa, Japan*

Devices 1

Chairs Yoshifumi Ikeda

Saitama Medical University International Medical Center Cardiology, Saitama, Japan

Michio Ogano

Department of Cardiovascular Medicine, Shizuoka Medical Center, Shizuoka, Japan

P7-1 Neither a distance nor a time may become an obstacle of pacemaker clinic consultation. An observational study in Asahi General Hospital

Kazutoshi Sato, Satoshi Kodera, Kotaro Miyaji, Junji Kanda

Department of Cardiology, Asahi General Hospital, Chiba, Japan

P7-2 Coexisting Hyponatremia is Subjected to Present Sinus Arrest in Hyperkalemia

Takeshi Ideguchi, Toshihiro Tsuruda, Kengo Kuroki, Tetsunori Ishikawa, Kazuo Kitamura

Departments of First Internal Medicine, University of Miyazaki, Miyazaki, Japan

P7-3 Assessment of left ventricular dyssynchrony evaluated by phase analysis on cardiac scintigraphy in patients with permanent pacemaker

Tomohiko Sakatani, Atsushi Kyodo, Yumika Tsuji, Akira Sakamoto, Kohei Kawamura, Toru Tanigaki, Yoshinori Tsubakimoto, Koji Isodono, Shinzo Kimura, Akiko Matsuo, Keiji Inoue, Hiroshi Fujita

Department of Cardiology, Japanese Red Cross Kyoto Daini Hospital, Kyoto, Japan

P7-4 Chronic kidney disease as a risk factor for CRTD recipients

Takuo Tsurugi, Masataka Kajiwara, Hideharu Okamatsu, Yasuaki Tanaka, Junjiroh Koyama, Yoshihiro Honda

Division of Cardiology, Saiseikai Kumamoto Hospital Cardiovascular Center, Kumamoto, Japan

P7-5 Efficacy of Quadripolar Left Ventricular Pacing Lead for Cardiac Resynchronization Therapy

Hiroshi Fukunaga, Kanki Inoue, Mayuko Yagawa, Kohei Tanizaki, Jun Umemura, Hitonobu Tomoiike

Department of Cardiology, Sakakibara Heart Institute, Tokyo, Japan

VT 1

Chairs **Fumito Miyoshi**

Department of Cardiology, Showa University Koto Toyosu Hospital, Tokyo, Japan

Yukio Sekiguchi

Cardiovascular Division, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

P8-1 **Ventricular fibrillation in young adult patient due to asymptomatic vasospastic angina: A case report**

Jun Osada

The Department of Cardiology, Yokosuka General Hospital Uwamachi, Kanagawa, Japan

P8-2 **Feasibility of PaSo guided catheter ablation for ventricular premature complexes**

Mitsuru Yoshino, Hiroshi Tasaka, Masatomo Ozaki, Noriyuki Ohashi, Yoji Okamoto, Satoki Fujii, Kazushige Kadota, Kazuaki Mitsudo

Department of Cardiology, Kurashiki Central Hospital, Okayama, Japan

P8-3 **Takotsubo Cardiomyopathy in a Patient with Hypertrophic Occlusive Cardiomyopathy and Advanced Atrioventricular Block after VT Study**

Mariko Kawasaki, Shinji Ishimaru, Risa Kakinoki, Masahiro Takahata, Motohito Tadokoro, Shunsuke Kitani, Teppei Sugaya, Tadashi Igarashi, Hiroaki Okabayashi, Jungo Furuya, Yasumi Igarashi, Keiichi Igarashi

The Department of Cardiology, JCHO Hokkaido Hospital, Hokkaido, Japan

P8-4 **Successfully treated ventricular tachycardia of sarcoidosis patient by high energy irrigation ablation**

Hidetaka Ito, Haruo Mitani, Minoru Ohno

Cardiovascular Center, Toranomon Hospital, Tokyo, Japan

P8-5 **A Case of Implantable Cardioverter Defibrillator Implantation for a Young Patient Survived from Ventricular Fibrillation with Hypertrophic Cardiomyopathy**

Kento Mori, Toshihiko Goto, Kazuaki Wakami, Nobuyuki Ohte

Department of Cardio-Renal Medicine and Hypertension, Nagoya City University, Aichi, Japan

Wednesday, 29 July

P8-6

Examination of the outcomes of radiofrequency catheter ablation of ventricular arrhythmias (arising from the right ventricular outflow tract) with pace mapping in pediatric patients

Shuichiro Yoshida¹, Yoko Yoshida¹, Tsugutoshi Suzuki¹, Yoshihide Nakamura²

¹The Department of Pediatric Electrophysiology, Osaka City General Hospital, Osaka, Japan, ²The Department of Pediatrics, University of Kinki, Osaka, Japan

Devices 2

Chairs Taishi Hirahara

Department of Cardiology, Saitama Medical Center, Saitama Japan

Takashi Noda

Department of Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

P9-1 Evaluation of Relationship Between Adequate Lead Fixation and Current of Injury at Atrial Pacing Sites

Daisuke Fujibayashi¹, Norishige Morita², Shigetaka Kanda¹, Takayuki Iida², Tadashi Hashida¹, Akira Ueno², Mari Amino¹, Koichiro Yoshioka¹, Yoshinori Kobayashi²

¹Division of Cardiology, Department of Medicine, Tokai University Hospital, Kanagawa, Japan, ²Division of Cardiology, Department of Medicine, Tokai University Hachioji Hospital, Tokyo, Japan

P9-2 Complete pacemaker lead fracture resulting from lead entrapment between generator can and the first rib

Hiroshi Narasaki, Chikaya Omichi, Daisuke Fujii

Department of Cardiology, JCHO Tokyo Shinjuku Medical Center, Tokyo, Japan

P9-3 A case of pacemaker infection with another side subclavian vein obstruction, salvaged by pacemaker removal and re-implantation with pocket change by right axillary subpectoral approach

Tatsunori Ikeda¹, Manabu Fujimoto¹, Munenori Oota¹, Takashi Fujita¹, Suguru Kiyama¹, Kazuyasu Okeie¹, Masakazu Yamamoto²

¹Department of Cardiology, Koseiren Takaoka Hospital, Toyama, Japan, ²Department of Internal Medicine, Koseiren Takaoka Hospital, Toyama, Japan

P9-4 Dyssynchronous heart failure(DHF) in narrow QRS -The factor of CRT nonresponder

Makoto Tamura

The Department of Cardiology, Misono Hospital, Niigata, Japan

P9-5 Usefulness of Remote Monitoring System on Early Detection of ICD Shock Failure -A Case Report-

Masateru Kondo, Koji Fukuda, Makoto Nakano, Masato Segawa, Michinori Hirano, Takahiko Chiba, Hiroaki Shimokawa

The Department of Cardiovascular Medicine, Tohoku University Graduate School of Medicine, Miyagi, Japan

Wednesday, 29 July

Chaired Poster (2nd Lane) 15:15-15:50 Chaired Poster Session [P10]

VT 2

Chairs Yasuya Inden

Department of Cardiology, Nagoya University, Aichi, Japan

Keiichi Inada

Department of Cardiology, The Jikei University Daisan Hospital, Tokyo, Japan

P10-1 The ECG criterion of successful catheter ablation for idiopathic ventricular arrhythmia originating from right ventricular septum below His bundle region

Hiroshi Taniguchi, Makoto Araki, Noboru Ichihara, Takamitsu Takagi, Jin Iwasawa, Akio Kuroi, Hiroaki Nakamura, Shinsuke Miyazaki, Hitoshi Hachiya, Yoshito Iesaka

Division of Cardiology, Cardiovascular Center, Tsuchiura Kyodo Hospital, Ibaraki, Japan

P10-2 Evaluation of the activation spread in patients with intraventricular conduction disturbance using 3D electro-anatomical map: Conduction block and conduction delay in the left ventricle

Yoshiaki Yui, Akihiko Nogami, Eiko Sai, Yasutoshi Shinoda, Ahemd Talib, Kojiro Ogawa, Mitsuhiro Fukada, Keita Masuda, Takeshi Machino, Kenji Kuroki, Miyako Igarashi, Yukio Sekiguchi, Kazutaka Aonuma

The Division of Cardiovascular Medicine, University of Tsukuba, Ibaraki, Japan

P10-3 High dose of exposure to γ -radiation suppressed conduction properties and the expression of connexin43 in the intercalated disk in mice

Tomonori Igarashi

Department of Occupational Toxicology, Institute of Industrial Ecological Science, University of Occupational and Environmental Health, Fukuoka, Japan

P10-4 Low dose of exposure to organic solvents decreased the expression of connexin43 in human ventricular cardiomyocytes

Tomonori Igarashi

Department of Occupational Toxicology, Institute of Industrial Ecological Science, University of Occupational and Environmental Health, Fukuoka, Japan

P10-5 Proarrhythmic potential of the rabbit heart under bradycardiac conditions of acute and chronic atrioventricular block

Mihoko Hagiwara, Megumi Aimoto, Akira Takahara

Pharmacology and Therapeutics, Faculty of Pharmaceutical Sciences, Toho University, Chiba, Japan

ECG Assessment 1

Chairs Shigeyuki Watanabe

Department of Cardiovascular Medicine, Mito Kyodo General Hospital, Ibaraki, Japan

Keiko Toyohara

Department of Pediatric Cardiology, Tokyo Women's Medical University, Tokyo, Japan

P11-1 Weekly stability of short term beat-to-beat variability of QT interval in healthy volunteers

Akira Nakazawa¹, Yuki Sakai¹, Takao Ohmura², Kazuyuki Mitsui¹, Masashi Kasao³, Nitara Shibata⁴

¹Tokyo Denki University, Tokyo, Japan, ²Suzuka University of Medical Science, Mie, Japan, ³Tokyo Metropolitan Police Hospital, Tokyo, Japan, ⁴Shinjuku Mitsui Building Clinic, Tokyo, Japan

P11-2 Association between J wave and occurrence of Ventricular fibrillation in patients with vasospastic angina

Yuki Osaka¹, Yuichi Ono¹, Sawako Yada¹, Taku Fukushima¹, Kenji Koura¹, Tomoko Manno¹, Toru Miyazaki¹, Ken Kurihara¹, Shigeo Shimizu¹, Kenichiro Otomo¹, Kenzo Hirao², Mitsuaki Isobe³

¹Department of Cardiology, Ome Municipal General Hospital, Tokyo, Japan, ²Heart Rhythm Center, Tokyo Medical and Dental University, Tokyo, Japan, ³Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Tokyo, Japan

P11-3 Changes in the coefficient of variation of ECG R-R intervals at the start of diabetes dietary therapy and their relationship with body weight

Mitsuru Ikeya¹, Takuya Yoshida²

¹Ikeya Iin, Shizuoka, Japan, ²University of Shizuoka, Shizuoka, Japan

P11-4 Subcellular Distribution of Cardiac Sodium Channels Associated with Phase-2 Reentry Initiation

Kunichika Tsumoto, Yoshihisa Kurachi

Department of Pharmacology, Graduate School of Medicine, Osaka University, Osaka, Japan

P11-5 Changes of Heart Rate Variability after Catheter Ablation Procedure to Paroxysmal Atrial Fibrillation: Comparison of Acute Phase and Chronic Phase

Hideyuki Sato, Tadashi Fujino, Hideki Koike, Ken Kitahara, Toshio Kinoshita, Hitomi Yuzawa, Takeya Suzuki, Shunji Fukunaga, Kenzaburo Kobayashi, Atsuko Abe, Takanori Ikeda

Department of Cardiovascular Medicine, Toho University Faculty of Medicine, Tokyo, Japan

Ion Channel 1

Chairs Haruaki Nakaya
Chiba University, Chiba, Japan

Takeru Makiyama
Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan

P12-1 An unification theory to depict ECG wave forms

Yoshifumi Tanaka
Department of Anesthesia, Kusatsu General Hospital, Shiga, Japan

P12-2 Successful treatment of congenital long QT type 2 with severe trafficking deficient mutation: A case who was treated repeated syncope by antiepileptic drug

Yuta Chiba, Yoshino Minoura, Taku Asano, Yuya Nakamura, Akinori Ochi, Koichiro Inokuchi, Shiro Kawasaki, Yoshimi Onishi, Yumi Munetsugu, Tatsuya Onuki, Norikazu Watanabe, Taro Adachi, Mitsuharu Kawamura, Youichi Kobayashi
Division of Cardiology, Department of Medicine, Showa University, Tokyo, Japan

P12-3 Negative association of H558R polymorphism and ventricular fibrillation in patients with Brugada syndrome

Hiroya Matsumura, Yukiko Nakano, Kazuyoshi Suenari, Akinori Sairaku, Yuko Uchimura, Takehito Tokuyama, Yoshikazu Watanabe, Hiroshi Kawazoe, Shunsuke Tomomori, Yasuki Kihara
Department of Cardiology, Hiroshima University, Hiroshima, Japan

P12-4 A Case of SCN5A Mutation Manifested as Short-Coupled Variant of Torsade de Pointes

Kazuo Miyazawa, Marehiko Ueda, Masayuki Ishimura, Takatsugu Kajiyama, Naotaka Hashiguchi, Yoshio Kobayashi
Department of Cardiovascular Medicine, Chiba University Graduate School of Medicine, Chiba, Japan

P12-5 Electrophysiological properties of iPS cell-derived cardiomyocytes from a patient with long QT syndrome type 1 harboring a novel mutation of KCNQ1

Yasutaka Kurata¹, Peili Li², Kumi Morikawa³, Junichiro Miake⁴, Kazuhiro Yamamoto⁴, Yasuaki Shirayoshi², Ichiro Hisatome²
¹Department of Physiology, Kanazawa Medical University, Ishikawa, Japan, ²Division of Regenerative Medicine and Therapeutics, Department of Genetic Medicine and Regenerative Therapeutics, Tottori University Graduate School of Medical Science, Tottori, Japan, ³Center for Promoting Next-Generation Highly Advanced Medicine, Tottori University Hospital, Tottori, Japan, ⁴Division of Cardiovascular Medicine, Endocrinology and Metabolism, Department of Molecular Medicine and Therapeutics, Tottori University Faculty of Medicine, Tottori, Japan

P12-6 Impact of connexin45 knockout on the cardiac conduction system in different age adult mice**Akiko Seki¹**, Nobuhisa Hagiwara²*¹Department of Cardiology, Support Center for Women Health Care Professionals and Researchers, Tokyo Women's Medical University, Tokyo, Japan, ²Department of Cardiology, Tokyo Women's Medical University, Tokyo, Japan*

P12-7 Stabilization of Kv1.5 Channel Protein by Olprinone**Ryo Endo¹**, Yasutaka Kurata², Peili Li³, Kumi Morikawa⁴, Tatehito Kondo⁵, Kazuyoshi Ogura⁵, Junichiro Miake⁵, Kazuhiro Yamamoto⁵, Yasuaki Shirayoshi³, Ichiro Hisatome³*¹Department of Anesthesiology, Faculty of Medicine, Tottori University, Tottori, Japan, ²Department of Physiology, Kanazawa Medical University, Ishikawa, Japan, ³Division of Regenerative Medicine and Therapeutics, Department of Genetic Medicine and Regenerative Therapeutics, Tottori University Graduate School of Medical Science, Tottori, Japan, ⁴Center for Promoting Next-Generation Highly Advanced Medicine, Tottori University Hospital, Tottori, Japan, ⁵Department of Cardiovascular Medicine, Tottori University Faculty of Medicine, Tottori, Japan*