

Program

January 17 (Friday)

Auditorium 1 [4F Hall B]

11:40 - **Opening Remarks**

Chairman: **Kiyozo Morita** (The Jikei University School of Medicine)

11:45 - 12:15 **Guidance Report of Subspecialty Training Systems of Japanese Society for Adult Congenital Heart Disease**

Chair: **Yoshihide Mitani** (Mie University Graduate School of Medicine)

Speakers: **Ryo Inuzuka** (Tokyo University)

Kiyozo Morita (The Jikei University School of Medicine)

12:20 - 13:10 **Luncheon Seminar 1**

Chair: **Hirohiko Motoki** (Shinshu University School of Medicine)

Speaker: **Shigetoyo Kogaki** (Osaka General Medical Center)

Co-sponsored: **GlaxoSmithKline K.K.**

LS-1 RE: Management of Pulmonary Arterial Hypertension in ACHD

13:15 - 15:00 **Panel Discussion 1**

Management of Pulmonary Arterial Hypertension in ACHD

Chairs: **Atsushi Yao** (The University of Tokyo)

Yoshihide Mitani (Mie University Graduate School of Medicine)

P-01-1 Real-world clinical practice for the treatment of ACHD-PAH in the current guideline era.

Shigetoyo Kogaki

Osaka General Medical Center, Pediatrics & Neonatology

P-01-2 Treat and repair strategy for atrial communication complicated with severe pulmonary arterial hypertension

Yoichi Takaya, Teiji Akagi, Koji Nakagawa, Rie Nakayama, Takashi Miki, Hiroshi Ito

Okayama University Cardiovascular Medicine

P-01-3 Treat and Repair strategy for ACHD-PAH: post-tricuspid shunt and complex ACHD

Katsura Soma¹⁾, Akihito Saito¹⁾, Toshiro Inaba¹⁾, Atsushi Yao²⁾, Issei Komuro¹⁾

¹⁾ Department of Cardiovascular Medicine, The University of Tokyo Hospital, ²⁾ Division for Health Service Promotion, The University of Tokyo.

P-01-4 Pitfall in the diagnosis of Eisenmenger syndrome and review of the guidelines related to the PAH-specific therapy from real-world evidence

Yoshihide Mitani

Department of Pediatrics, Mie University Graduate School of Medicine

P-01-5 Progress of multicenter study on adult patients with Eisenmenger syndromeHisanori Sakazaki¹⁾, Koichiro Niwa²⁾

1) Hyogo prefectural Amagasaki general medical center, 2) St Luke's International Hospital Cardiovascular Center

15:10 - 16:00 Educational Seminar Basic Lecture 1**Management of Arrhythmia in ACHD; Anti-arrhythmia drug/ EPS Ablation**Chair: **Kenji Hoshino** (Saitama Children's Medical Center)**BL-01-1 Minimal requirements in management of arrhythmia complicated with ACHD**

Yasushi Imai

Jichi Medical University : Division of Cardiovascular Medicine, Division of Clinical Pharmacology, and Center for Adult Congenital Heart Diseases

BL-01-2 Electrophysiological study and principles of ablation

Nobuhiro Nishii

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

16:15 - 17:00 Legend LectureChair: **Toshikatsu Yagihara** (Rinku General Medical Center)**LL 50 Years with Congenital Heart Disease**

Hikaru Matsuda

17:00 - 17:30 Meet The Expert 1Chair: **Sachiko Kido** (Hyogo prefectural Kobe Children's Hospital)

Co-sponsored: GE Health care Japan

ME-01 Two-dimensional Speckle Tracking Echocardiography & It's application to ACHD Patients, Can It Evaluate Myocardial Dysfunction & Dyssynchrony?

Kiyohiro Takigiku

17:30 - 18:00 Meet The Expert 2Chair: **Jun Yoshimoto** (Shizuoka Children's Hospital)**ME-02 Clinical application of 3D imaging and printing technology to adult congenital heart disease**Kenichi Kurosaki¹⁾, Isao Shiraishi²⁾, Kazuo Nakazawa³⁾, Ryo Haraguchi⁴⁾, Masatoshi Takeda⁵⁾

1) National Cerebral and Cardiovascular Center (NCCV), Pediatric cardiology dept., 2) National Cerebral and Cardiovascular Center, 3) Morinomiya University, 4) University of Hyogo, 5) crossMedical incorporated

January 17 (Friday)**Auditorium 2** [4F Hall A]**12:20 - 13:10 Luncheon Seminar 2**Chair: **Hideyuki Shimizu** (School of Medicine, Keio University)Speaker: **Takeyuki Kanemura** (IMS KATSUSHIKA HEART CENTER)Co-sponsored: **Johnson & Johnson K.K Medical Company****LS-2 RE: Management of Surgical Site Infection (SSI)****13:15 - 14:00 Educational Seminar Basic Lecture 2**

Outline of Cardiac Surgery in ACHD

Chair: **Hisashi Sugiyama** (TOKYO WOMEN'S MEDICAL UNIVERSITY)**BL-02-1 Current status and results of repair and revision surgery for ACHD**

Masaaki Kawada

Jichi Children's Medical Center Tochigi, Jichi Adult Congenital Heart Center, Jichi Medical University

BL-02-2 Let's establish sensible communication in the ACHD field

Hideki Uemura

Nara Medical University Congenital Heart Disease Center

14:00 - 15:00 Educational Seminar Basic Lecture 3

Embryology and Morphology for ACHD Specialists

Chair: **Kotarou Koyama** (Iwate Medical University School of Medicine)**BL-03-1 Clinical Cardiac Embryology for Understanding Congenital Heart Disease**

Hiroyuki Yamagishi

Keio University

BL-03-2 Basic Cardiac Morphology

Isao Shiraishi

National Cerebral and Cardiovascular Center

15:10 - 16:00 Educational Seminar Basic Lecture 4

Diagnostic Imaging for ACHD

Chair: **Hisanori Sakazaki** (Hyogo prefectural Amagasaki general medical center)**BL-04-1 Basics of echocardiography for morphological assessment of CHD**

Masaki Nii

Shizuoka Children's Hospital, Department of Cardiology

BL-04-2 Basics of echocardiography for hemodynamic & functional evaluation of ACHD

Tomoko Ishizu
University of Tsukuba

BL-04-3 More effective use of Cardiac Magnetic Resonance Imaging

Yuichi Ishikawa
Fukuoka Children's Hospital, dept of Cardiology

17:00 - 17:30 Meet The Expert 3

Chair: **Mikiko Ishido** (Tokyo Women's Medical University)

ME-03 Heart transplantation and mechanical circulatory support for adult with congenital heart disease

Hajime Ichikawa¹⁾, Takaya Hoashi¹⁾, Masatoshi Shimada¹⁾, Kenta Imai¹⁾, Motoki Komori¹⁾, Heima sakaguchi²⁾,
Hideo Ouchi²⁾, Isao Shiraishi²⁾, Norihide Fukushima³⁾

1) National Cerebral and Cardiovascular Center, Department of Pediatric Cardiovascular Surgery,

2) National Cerebral and Cardiovascular Center, Department of Pediatric Cardiology,

3) National Cerebral and Cardiovascular Center, Department of Transplantation

17:30 - 18:00 Meet The Expert 4

Chair: **Masaaki Yamagishi** (Kyoto Prefectural University of Medicine, Children's Medical Center)

ME-04 Novel Evidences in Adult Congenital Heart Surgery: Blood Flow Imaging and Heart Team

Keiichi Itatani

Department of Cardiovascular Surgery, Cardiovascular Imaging Research Labo. Adult Congenital Heart Disease Center

January 17 (Friday)**Auditorium 3 [3F Room 1]****12:20 - 13:10 Luncheon Seminar 3**

Chair: **Masashi Takahashi** (Niigata University Graduate School of Medical and Dental Sciences)

Speaker: **Satoshi Takeda** (Department of Emergency Medicine The JIKEI university)

Co-sponsored: **Philips Japan, Ltd.**

LS-3 RE: Information Technology in ACHD Medical Care System**13:15 - 14:15 Oral Presentation 1****Pregnancy and Delivery in ACHD**

Chairs: **Masaki Ogawa** (Tokyo Women's Medical University)

Jun Yoshimatsu (National Cerebral and Cardiovascular Center)

OS-01-1 Long-term Outcomes after Successful Pregnancy and Delivery in Patients with Fontan Circulation

Shintaro Umemoto¹⁾, Ichiro Sakamoto¹⁾, Ayako Ishikita¹⁾, Hazumu Nagata²⁾, Ken-ichiro Yamamura²⁾, Ken-ichi Hiasa¹⁾,
Hiroyuki Tsutsui¹⁾

1) Kyushu University Hospital, Department of Cardiovascular Medicine, 2) Kyushu University Hospital, Department of Pediatrics

OS-01-2 Association between placental insufficiency and fetal complications in pregnant women with a Fontan circulationHiroyuki Kodama¹⁾, Yumi Shiina¹⁾, Yasufumi Kijima¹⁾, Michiko Yamanaka²⁾, Hironobu Hyodo³⁾, Koichiro Niwa¹⁾

1) St. Luke's International Hospital, Department of Cardiology, 2) St. Luke's International Hospital, Department of Obstetrics and gynecology, 3) Tokyo Metropolitan Bokutoh Hospital, Department of Obstetrics and gynecology

OS-01-3 Neonatal Outcomes of $\beta/\alpha\beta$ -adrenergic antagonists: a single hospital based case seriesMasahiro Nakao, Asumi Okumura, Ryo Suzuki, Ryoko Ono, Ikuno Kawabata, Atsushi Yoshida, Shinji Katsuragi
Sakakibara Heart Institute, Dept. of Obstetrics and Gynecology**OS-01-4 Labor analgesia for the patient with adult congenital heart disease.**Makoto Sumie¹⁾, Yuji Karashima¹⁾, Hideki Tatewaki²⁾, Akira Shiose²⁾, Ken Yamaura¹⁾1) Department of Anesthesiology and Critical Care Medicine, Kyushu University Hospital,
2) Department of Cardiovascular Surgery, Kyushu University Hospital**OS-01-5 The effect of expulsive effort during labor on postpartum BNP level in pregnant women with heart disease.**Atsushi Nakanishi, Chizuko Kamiya, Moe Kyoumoto, Rie Tsukinaga, Yu Matsusaka, Tadasu Shionoiri, Tae Konishi,
Chinami Horiuchi, Naoko Iwanaga, Jun Yoshimatsu

National Cerebral Cardiovascular Center Hospital, department of obstetrics and gynecology

14:15 - 15:15 Oral Presentation 2**High-risk Pregnancy and Delivery (Case Presentation)**Chairs: **Tokuko Shinohara** (Tokyo Women's Medical University)**Shinji Katsuragi** (Mie University)**OS-02-1 Management of pregnancy in patients with adult congenital heart disease**Kotaro Inaguma¹⁾, Hisanori Sakazaki¹⁾, Naoki Toyoda¹⁾, Haruko Ishihara¹⁾, Takuya Kitada²⁾, Toshi Maeda²⁾, Otohime Kato²⁾, Hirofumi Sato²⁾, Go Ueno²⁾, Kosuke Yoshizawa²⁾, Hisao Nagato²⁾, Nobuhisa Ohno²⁾

Hyogo Prefectural Amagasaki General Medical Center, 1) Pediatric Cardiology, 2) Cardiovascular Surgery

OS-02-2 Pregnant woman who developed critical thrombosis of mitral valve prosthesis due to warfarin self-interruptionToshimichi Nonaka, Mayumi Kamada, Yu Murakami, Takuya Osawa, Takahisa Sakurai, Hajime Sakurai
Japan Community Health care Organization Chukyo Hospital. Cardiovascular dept**OS-02-3 A case who had suffered from acute pulmonary edema caused by patient-prosthesis mismatch during late pregnancy required re-replacement of the left sided atrioventricular valve**

Shinya Ugaki, Ko Yoshizumi, Masaaki Kawada

Jichi Children's Medical Center Tochigi, Jichi Adult Congenital Heart Center, Jichi Medical University, Division of Pediatric and Congenital Cardiovascular Surgery

OS-02-4 Successful pregnancy in a woman with congenital corrected transposition of the great artery and pulmonary hypertension.Ken Kato²⁾, Masaru Miura¹⁾, Haruka Okabe²⁾, Mayuu Kuriyana³⁾, Izumi Honda³⁾, Makiko Takada⁴⁾, Serabi Tanabe⁴⁾1) Tokyo Metropolitan Children's Medical Center, Department of Cardiology,
2) Tokyo Metropolitan Tama Medical Center, Department of Cardiology,
3) Tokyo Metropolitan Tama Medical Center, Department of obstetrics and gynecology,
4) Tokyo Metropolitan Tama Medical Center, Department of Anesthesiology**OS-02-5 A case of pregnancy after Rastelli operation**

15:15 - 16:15 **Oral Presentation 3****Management of ACHD-PAH**Chairs: **Toshio Nakanishi** (JAPAN RESEARCH PROMOTION SOCIETY FOR CARDIOVASCULAR DISEASES)**Yasufumi Kijima** (St. Luke's International Hospital)**OS-03-1 Efficacy of "treat and repair" strategy in atrial septal defect with pulmonary hypertension**Sayuri Nakayama¹⁾, Ryotaro Asano¹⁾, Akihiro Tsuji¹⁾, Tatsuo Aoki¹⁾, Jin Ueda¹⁾, Nao Konagai¹⁾, Kyouko Hirakawa¹⁾, Hajime Ichikawa²⁾, Takeshi Ogo¹⁾

1) National Cerebral and Cardiovascular Center cardiology Dept, 2) National Cerebral and Cardiovascular Center cardiovascular surgery Dept

OS-03-2 Experience Using Selexipag in Congenital Heart Disease-Associated Pulmonary Arterial Hypertension and Eisenmenger SyndromeToshimi Koitabashi, Teppei Fujita, Kenji Maemura, Yuki Ikeda, Keiko Ryo-Koriyama, Emi, Maekawa, Junya Ako
Kitasato University, Cardiovascular Medicine**OS-03-3 Treat and Repair Strategy for small/coincidental atrial septal defects in patients with pulmonary arterial hypertension**Masahiko Umei, Katsura Soma, Toshiro Inaba, Akihito Saito, Masae Uehara, Atsushi Yao, Issei Komuro
Department of Cardiovascular Medicine, The University of Tokyo Hospital**OS-03-4 A case of postoperative Tetralogy of Fallot with severe pulmonary hypertension**

Miki Kanoh, Tsunehiro Yamato, Yohei Tamura, Gaku Narita, Hirotaka Yano, Giichi Nitta, Shunichi Kato, Toshikazu Kouno, Takashi Ikenouchi, Kazuya Murata, Yasuaki Hada, Tomomasa Takamiya, Yukihiro Inamura, Ken Negi, Osamu Inaba, Akira Sato, Yutaka Matsumura

Saitama Red Cross Hospital, Cardiology dept

OS-03-5 Pulmonary vasodilator was effective in single ventricle patient after BT shunt with low pulmonary flowIchiro Sakamoto¹⁾, Ayako Ishikita¹⁾, Shintaro Umemoto¹⁾, Hazumu Nagata²⁾, Kenichiro Yamamura²⁾, Hiroyuki Tsutsui¹⁾

1) Department of Cardiovascular Medicine, Kyushu University Hospital, 2) Department of Pediatrics, Kyushu University Hospital

17:00 - 18:00 **Oral Presentation 5****Late Complications following Fontan Operation**Chairs: **Naokata Sumitomo** (Saitama Medical University International Medical Center)**Jun Muneuchi** (Japan Community Healthcare Organization Kyushu Hospital)**OS-05-1 Percutaneous aspiration thrombectomy for acute massive pulmonary embolism in 2 patients with Fontan circulation**Hiroyuki Kodama, Yosuke Nishihata, Yumi Shiina, Yasufumi Kijima, Koichiro Niwa
St. Luke's International Hospital, Department of Cardiology**OS-05-2 The clinical feature of Fontan patients with portosystemic venous shunt**Hazumu Nagata¹⁾, Ichiro Sakamoto²⁾, Ayako Ishikita²⁾, Shintaro Umemoto²⁾, Masaru Kobayashi¹⁾, Daisuke Toyomura¹⁾, Shoji Fukuoka¹⁾, Yusaku Nagatomo¹⁾, Yuichiro Hirata¹⁾, Shouichi Ohga¹⁾

1) Department of Pediatrics, Kyushu University Hospital, 2) Department of Cardiovascular Medicine, Kyushu University Hospital

OS-05-3 Correlation between liver abnormalities scoring and prognosis after Fontan procedure

Kimiko Nakajima, Hideo Ohuchi, Hikari Miike, Dai Suzuki, Nao Konagai, Toru Iwasa, Heima Sakaguchi, Isao Shiraishi, Kenichi Kurosaki

Department of Pediatric Cardiology, National Cerebral and Cardiovascular Center

OS-05-4 The Relationship between Liver Stiffness and Clinical Variables for the Medium-Long term Postoperative Fontan Associated Liver Disease

Mitsuhiro Fujino¹, Hidehiro Mori¹, Wakako Maruyama¹, Kae Nakamura¹, Eiji Ehara¹, Yoko Yoshida², Tsugutoshi Suzuki², Hideto Ozawa³, Koji Kagisaki³, Kyouichi Nishigaki³, Daisuke Tokuhara⁴, Yosuke Murakami¹

1) Department of Pediatric Cardiology, Osaka City General Hospital, 2) Department of Pediatric Electrophysiology, Osaka City General Hospital, 3) Department of Pediatric Cardiovascular Surgery, Osaka City General Hospital, 4) Department of Pediatrics, Osaka City University Graduate School of Medicine

OS-05-5 Quantification of liver fibrosis in patients after Fontan operation using Gd-EOB -DTPA MRI: comparison to patients with chronic viral hepatitis

Michinobu Nagao², Yumi Shiina¹, Reiko Sakai², Ryoko Ohashi², Kei Inai³, Shuji Sakai²

1) St. Luke International Hospital, Dept. of Cardiology, 2) Tokyo Women's Medical University, Dept of Diagnostic Imaging & Nuclear Medicine, 3) Tokyo Women's Medical University, Dept of Pediatric Cardiology

January 17 (Friday)

Auditorium 4 [4F Canelian]

11:00 - 11:45

JSACHD Council

13:15 - 14:30

How to Do IT 1 Case- specific round table discussion

Multi-disciplinary Surgery

Chairs: **Hiroshi Imoto** (Graduate School of Medical and Dental Sciences, Kagoshima University)

Ichiro Sakamoto (Kyushu University Hospital)

Commentators: **Shunsuke Tatebe, Takaaki Suzuki, Takashi Miyamoto, Hiroshi Okamoto**

H-01-1 Partial Anomalous Pulmonary Venous Connection Complicated by Lung Cancer; Which Should be Treated with Precedence?

Manabu Nitta¹, Rie Nakashima¹, Tabito Kino¹, Yusuke Matsumoto¹, Masatoshi Narikawa¹, Mina Nakayama¹, Yuka Taguchi¹, Masaomi Gohara¹, Kiwamu Iwata¹, Masayoshi Kiyokuni¹, Naohiro Komura¹, Masaaki Konishi¹, Junya Hosoda¹, Atsuichiro Shigenaga¹, Daisuke Kamimura¹, Katsumi Matsumoto¹, Teruyasu Sugano¹, Tomoaki Ishigami¹, Toshiyuki Ishikawa¹, Yoshihiro Ishikawa², Daisuke Machida³, Munetaka Masuda³, Koichi Tamura¹, Kazuo Kimura¹

1) Yokohama City University Hospital, Department of Medical Science and Cardiorenal Medicine, 2) Yokohama City University Hospital, Department of Thoracic Surgery, 3) Yokohama City University Hospital, Department of Cardiovascular Surgery

H-01-2 Treatment for a 41 year old woman who had tricolocytoma combined with tricuspid atresia and systemic to pulmonary shunt failure

Keisuke Nakanishi, Shiori Kawasaki, Hiroaki Hata, Atsushi Amano

Juntendo University, Department of Cardiovascular Surgery

H-01-3 Right coronary artery compressed by pectus excavatum in an adult after corrective surgery of anomalous origin of the right pulmonary artery from the ascending aorta.

Ryohei Matsuoka¹, Jun Muneuchi¹, Hiroki Ezaki¹, Hiroto Doi¹, Yuichirou Sugitani¹, Mamie Watanabe¹, Yoshie Ochiai², Tetsurou Kamimura³

1) JCHO Kyusyu Hospital pediatric department, 2) JCHO Kyusyu Hospital cardiovascular surgery department, 3) JCHO Kyusyu Hospital pediatric surgery department

15:00 - 16:15 **Oral Presentation 4****Surgery for ACHD (1)**Chairs: **Masaaki Yamagishi** (Kyoto Prefectural University of Medicine, Children's Medical Center)**Naoki Yoshimura** (University of Toyama)**OS-04-1 An overview for surgical treatment of ACHD**

Yuta Kuwahara, Yukihiko Takahashi, Yuya Komori, Naohiro Kabuto, Naoki Wada

Sakakibara Heart Institute, the division of cardiovascular surgery

OS-04-2 Three cases of Fontan procedure in AdulthoodMamie Watanabe¹⁾, Jun Muneuchi¹⁾, Yuitirou Sugitani¹⁾, Hirohito Doi¹⁾, Ryouhei Matuoka¹⁾, Hiroki Ezaki¹⁾, Yoshie Ochiai²⁾

1) Department of Pediatric cardiology, Japan Community Healthcare Organization, Kyushu Hospital,

2) Department of cardiovascular surgery, Japan Community Healthcare Organization, Kyushu Hospital

OS-04-3 Surgical reintervention for ACHD patients after Fontan operation

Keiichi Hirose, Akio Ikai, Masaya Murata, Hiroki Ito, Hiroshi Koshiyama, Motonari Ishidoh, Keisuke Ota, Kentaro Watanabe, Kisaburo Sakamoto

The department of cardiovascular surgery, Mt Fuji shizuoka children's hospital

OS-04-4 Atrio-ventricular septal defect (AVSD) Surgery in Adulthood: Single regional ACHD center experienceKawada Masaaki¹⁾, Ko Yoshizumi¹⁾, Shin-ya Ugaki¹⁾, Ko-ichi Kataoka²⁾, Yasushi Imai³⁾, Tomoyuki Kabutoya³⁾, Kana Kubota³⁾

Jichi Children's Medical Center Tochigi, Jichi Adult Congenital Heart Center, Jichi Medical University,

1) Pediatric and Congenital Cardiovascular Surgery, 2) Pediatric Cardiology, Pediatric ICU, 3) Cardiology

OS-04-5 Re-septation in patients with tricuspid stenosis who underwent intracardiac repair of complete atrioventricular septal defect : a report of two casesHajime Sakurai¹⁾, Toshimichi Nonaka¹⁾, Takahisa Sakurai¹⁾, Motoshi Kozakai¹⁾, Takuya Osawa¹⁾, Yu Murakami¹⁾, Mayumi Kamada¹⁾, Naoki Ohashi²⁾, Hiroshi Nishikawa²⁾, Shuichiro Yoshida²⁾, Atsuko Kato²⁾, Klmihiko Yoshii²⁾, Jun Sato²⁾

1) Department of Cardiovascular Surgery, Japan Community Healthcare Organization Chukyo Hospital, Nagoya, Japan,

2) Department of Pediatric Cardiology, Japan Community Healthcare Organization Chukyo Hospital, Nagoya, Japan

OS-04-6 The early outcome of PVR with ePTFE valve with Bulging Sinuses

Ayumu Masuoka, Haruhiro Nagase, Ryuusuke Hosoda, Mika Iwazaki, Kenntarou Hotoda, Takaaki Suzuki

Saitama Medical University Internatinal Medical Center Department of Pediatric Cardiac Surgery

8:00 - 8:45

Invited Lecture 1

English Session

Chair: **Mitsugi Nagashima** (Wakayama Medical University)**IL-01 Aggressive Approach to Two-Ventricle Repair to Avoid Fontan**

Pedro J. del Nido, MD, PhD

William E. Ladd Professor and Chairman, Harvard Medical School, Department of Cardiac Surgery, Boston Children's Hospital, Boston, Massachusetts

8:50 - 9:35

Invited Lecture 2

English Session

Chair: **Ko Bando** (The Jikei University School of Medicine)**IL-02 Valve Sparring Aortic Root Replacement in Marfan Syndrome and Adult Congenital Heart Disease**

Duke Edward Cameron, M.D.

Professor of Surgery, Department of Cardiac Surgery, Massachusetts General Hospital, Boston, Massachusetts

9:45 - 12:00

JSCVS-JSACHD Joint Symposium**Pathophysiology & Management of Aortopathy associated with ACHD**Chairs: **Koichiro Niwa** (St Luke's International Hospital)**Tetsuya Kitagawa** (Shikoku Central Hospital of the Mutual Aid Association of Public School Teacher)**JS-1 Hemodynamic and Pathophysiological Background of Developing Aortopathy in the Congenital Heart Diseases**

Hirofumi Saiki

Iwate Medical University, Pediatric Cardiology dept

JS-2 Bicuspid aortic valve and aortopathy

Satoshi Nakatani

Osaka University, Department of Health Sciences

JS-3 Vascular Physiology in Aortopathy

Tomoaki Murakami

Sapporo Tokushukai Hospital, Dept of Pediatrics

JS-4 The prospective cohort research for aortic root dilatation and non-elasticity after surgical repair in adults with Tetralogy of Fallot (TRANSIT)

Hiroki Nagamine

Tokyo Metropolitan Children's Medical Center

JS-5 Aortic Valve and Root Surgery Associated with Adult Congenital Heart Diseases

Tetsuya Kitagawa, Hajime Ichikawa, Masaaki Kawada, Yasutaka Hirata, Kozo Matsuo, Arata Murakami, Noboru Motomura, Masaaki Yamagishi, Koichiro Niwa, Hiroaki Miyata, Hitoshi Yokoyama

The Committee of Adult Congenital Heart Disease, The Japanese Society for Cardiovascular Surgery

JS-6 Aortic root surgery in childhood, adolescence and young adults.

Munetaka Masuda¹⁾, Daisuke Machida¹⁾, Manabu Nitta²⁾, Ryota Ochiai³⁾, Norihisa Tominaga¹⁾, Shoutarou Kaneko¹⁾, Yuta Nakayama¹⁾, Motohiko Goda¹⁾, Shinichi Suzuki¹⁾, Tatunori Hokozaiki⁴⁾, Yusuke Nakano⁴⁾, Shigeo Watanabe⁴⁾, Kenta Sugaya⁴⁾, Hiroyuki Kuroda⁴⁾

1) Yokohama City University, Dept of Surgery, 2) Yokohama City University, Dept of Cardiology,

3) Yokohama City University, Dept of Adult Nursing, 4) Yokohama City University, Dept of Pediatric cardiology

JS-7 Indication and Selection of Aortic Root Replacement for Aortic Root Enlargement Associated with Adult Congenital Heart Diseases

Yoshikatsu Saiki¹⁾, Osamu Adachi^{1,2)}

1) Tohoku University, Division of Cardiovascular Surgery, 2) Miyagi Children's Hospital

JS-8 Surgical management in patients with Marfan syndrome

Kenji Minatoya

Department of Cardiovascular Surgery, Graduate School of Medicine, Kyoto University

12:15 - 13:05 Luncheon Seminar 4

Chair: **Wataru Shimizu** (Nippon Medical School Hospital)

Speaker: **Morio Shoda** (Tokyo Women's Medical University Hospital)

Co-sponsored: **Medtronic Japan**

LS-4 RE: Cardiac Pacing Therapy in ACHD ~Beyond Bradycardia Pacing~

13:30 - 14:15 Invited Lecture 3

English Session

Chair: **Fukiko Ichida** (International University of Health & Welfare, Sanno Hospital)

IL-03 Pathophysiology and therapeutic strategies for Failing Fontan circulation in adults

Margarita Brida, MD PhD

Division of Adult Congenital Heart Disease, Department of Cardiovascular Medicine, University Hospital Centre Zagreb, Croatia

14:15 - 15:50 Symposium 2

English Session

Pathophysiology and Management of Fontan Failure in the Era of Extracardiac TCPC

Chairs: **Kei Inai** (Tokyo Women's Medical University)

Satoshi Yasukochi (Nagano Children's Hospital)

Commentator: **Margarita Brida, MD PhD**

(Division of Adult Congenital Heart Disease, Department of Cardiovascular Medicine, University Hospital Centre Zagreb, Croatia)

Keynote Fontan failure overview

Kei Inai

Tokyo Women's Medical University

S-02-1 Pathophysiology of Fontan Circulation and Therapeutic Strategy to Improve Long-term Prognosis

Hideaki Senzaki

Kitasato University School of Medicine

S-02-2 Pathophysiology and Management of PLE in Fontan Patients

Hideo Ohuchi

National Cerebral and Cardiovascular Center: Pediatric Cardiology and Adult Congenital Heart Disease

S-02-3 Management of FALD

Tomoo Fujisawa

Saiseikai Yokohamashi Tobu Hospital Dept of Pediatric Hepatology and Gastroenterology

S-02-4 Fontan operation – Strategy for improving long-term outcome –

Akio Ikai, Keiichi Hirose, Keisuke Ota, Kentaro Watanabe, Hiroshi Koshiyama, Tomonori Ishidou, Hiroki Ito, Masaya Murata, Kisburo Sakamoto.

Mt. Fuji Shizuoka Children's Hospital, Department of Cardiovascular Surgery

S-02-5 4D flow Analysis for Surgical Procedure Selection: Novel Method of Surgical Planning in Fontan Circulation.

Keiichi Itatani

Department of Cardiovascular Surgery, Cardiovascular Imaging Research Labo. Adult Congenital Heart Disease Center

15:55 - 16:40

Invited Lecture 4

English Session

Chair: **Hiroyuki Tsutsui** (Kyushu University Hospital)**IL-04 Heart Failure In ACHD - A New Epidemic: How To Tackle And To Manage Unique Challenges ?**

Erwin Oechslin, MD

Director Adult Congenital Heart Disease Program, Peter Munk Cardiac Centre, University Health Network, and University of Toronto, Toronto, Canada

16:55 - 18:15

How to Do IT 3 Case- specific round table discussion

Treatment strategies for ACHD: medication, intervention, surgery

Chairs: **Hitoshi Kato** (National Center for Child Health and Development)**Fukiko Ichida** (International University of Health & Welfare, Sanno Hospital)Commentators: **Hirohiko Motoki, Takeshi Hiramatsu, Makoto Ando, Kenichiro Yamamura****H-03-1**Tepei Fujita¹, Takumi Ooki¹, Emi Maekawa¹, Keiko Ryo-Koriyama¹, Takashi Naruke¹, Toshimi Koitabashi¹, Yuki Tadokoro², Kazuki Yakuwa², Takashi Miyamoto², Kagami Miyazi², Junya Ako¹

1) Department of Cardiovascular Medicine, Kitasato University School of Medicine,

2) Department of Cardiovascular Surgery, Kitasato University School of Medicine

H-03-2 Fluid management in end-stage renal disease with severe cyanotic congenital heart diseaseHiroyuki Kodama¹, Yumi Shiina¹, Yasufumi Kijima¹, Yugo Ito², Masaaki Nakayama², Koichiro Niwa¹

1) St. Luke's International Hospital, Department of Cardiology, 2) St. Luke's International Hospital, Department of Nephrology

H-03-3 Treatment strategy of severe left atrioventricular valve regurgitation after ICR of incomplete AVSDYusuke Akazawa¹, Shunji Uchita⁴, Takayuki Oku³, Toyohisa Miyata^{2,3}, Tomozou Moritani³, Toshiyuki Chisaka³, Hidemi Takata³, Hiroshi Sakamoto⁴, Jyunya Sugiura⁴, Masaki Kinoshita¹, Kazuhisa Nishimura¹, Shuntaro Ikeda¹, Takashi Higaki^{2,3}, Mariko Eguchi³, Osamu Yamaguchi¹

1) Department of Cardiology, Pulmonology, Hypertension & Nephrology, Ehime University,

2) Department of Regional Pediatrics and Perinatology, Ehime University, 3) Department of Pediatrics, Ehime University,

4) Department of Cardiovascular and Thoracic Surgery, Ehime University

H-03-4 A case of single ventricle who completed the Fontan at the age of 26-year-old.

Yoshie Ochiai¹⁾

1) JCHO Kyushu Hospital, Department of Cardiovascular Surgery, 2) JCHO Kyushu Hospital, Department of Pediatrics

January 18 (Saturday)

Auditorium 2 [4F Hall A]

8:00 - 9:30

Symposium with ACHD Academic Committee 2020

Management of Adult Corrected Transposition of The Great Arteries

Chairs: **Hideo Ohuchi** (National Cerebral and Cardiovascular Center)

Kei Inai (Tokyo Women's Medical University)

ACS-1 Assessments of the systemic RV and TR.

Yumi Shiina

St.Luke's International Hospital

ACS-2 Long term prognosis in corrected great transposition of the great arteries.

Eriko Shimada, Kei Inai, Seiji Asagai, Gen Harada, Masaki Sato, Mikiko Ishido, Daiji Takeuchi, Keiko Toyohara, Hirofumi Tomimatsu, Tokuko Shinohara, Hisashi Sugiyama

Department of Pediatric Cardiology and Adult Congenital Cardiology, Tokyo Women's Medical University

ACS-3 The cardiac implantable electronic device is the useful tools in corrected transposition of the great arteries (cTGA)?

Aya Miyazaki¹⁾, Makoto Miyake²⁾, Hiraku Doi²⁾

1) Shizuoka Children's Hospital Department of Pediatric Cardiology, 2) Tenri Hospital Congenital Heart Disease Center

ACS-4 The therapeutic strategy for undiagnosed adult ccTGA patients

Tomoko Ishizu¹⁾, Naoto Kawamatsu²⁾, Tomoko Ohtsuka-Machino²⁾, Keita Masuda³⁾, Hitoshi Horigome⁴⁾

1) University of Tsukuba, Department of Clinical Laboratory Medicine, 2) University of Tsukuba, Department of Cardiology,

3) Yokohama Rosai Hospital, Department of Cardiology, 4) University of Tsukuba, Department of Pediatrics

ACS-5 Role of surgery for congenital corrected TGA in the life cycle – indication and surgical options for adult patients

Ayako Maruo⁷⁾, Takeaki Shirai¹⁾, Makoto Kadotani¹⁾, Kazuya Uemura²⁾, Yumi Sato²⁾, Yasue Tukishiro³⁾, Kenryo Matumoto⁴⁾, Hironori Matsuhisa⁵⁾, Toshikatsu Tanaka⁶⁾, Sachiko Kido⁶⁾, Masahiro Yamaguchi⁷⁾

1) Kakogawa Central City Hospital, Department of Cardiology, 2) Kakogawa Central City Hospital, Department of Pediatrics,

3) Himeji Brain and Heart Center, Department of Cardiology, 4) Kobe University Hospital, Department of Cardiology,

5) Kobe Children's Hospital, Department of Cardiovascular Surgery, 6) Kobe Children's Hospital, Department of Cardiology,

7) Kakogawa Central City Hospital, Department of Cardiovascular Surgery

9:40 - 10:25

Special Lecture

Chair: **Yoshiki Mori** (Kitasato University Medical Center)

SP-1 Cardiac Conduction System in Congenital Heart Disease

Hiroki Kurosawa

Sakakibara Kouseikai

Non-pharmacological therapy for refractory arrhythmias associated with adult congenital heart disease

Chairs: **Morio Shoda** (Tokyo Women's Medical University)**Shigeru Tateno** (Chiba Kaihin Municipal Hospital)**S-01-1 Nonpharmacological management of arrhythmia in adult congenital heart disease**

Eun-Jung Bae. M.D.

Department of Pediatrics, Seoul National University Children's Hospital, Seoul, South Korea

S-01-2 Epidemics and therapeutic strategies of catheter ablation for ACHD patients.Yasushi Mukai¹⁾, Ichiro Sakamoto²⁾, Ayako Ishikita²⁾, Kazuo Sakamoto²⁾, Shunsuke Kawai²⁾, Kazuhiro Nagaoka²⁾, Shintaro Umemoto²⁾, Hazumu Nagata³⁾, Kenichiro Yamamura³⁾, Akiko Chishaki⁴⁾, Hiroyuki Tsutsui²⁾

1) Fukuoka Red-Cross Hospital/Kyushu University, Cardiology, 2) Kyushu University, Cardiology, 3) Kyushu University, Pediatrics, 4) Kyushu University, Health Sciences

S-01-3 Reconsideration of treatment strategies by catheter ablation for refractory arrhythmias after Fontan surgeryToshiya Kojima¹⁾, Katsuhito Fujii^{1,2)}, Katsura Soma¹⁾, Toshiro Inaba¹⁾, Atsushi Yao^{1,3)}, Issei Komuro¹⁾

1) The University of Tokyo Hospital, Department of Cardiovascular Medicine, 2) The University of Tokyo Hospital, Advanced Cardiology, 3) The University of Tokyo, Health Service Center

S-01-4 Catheter Ablation for Atrial fibrillation before and late after Fontan Procedure

Yoshihito Hata, Kota Nagaoka, Hidetaka Yamaguchi, Takeshi Shimizu, Nobuo Oyama, Suguru Tarui, Hisako Kiguchi, Takanari Fujii, Kozo Ishino, Hideshi Tomita

Pediatric Heart Disease and Adult Congenital Heart Disease Center, Showa University Hospital

S-01-5 Pre- and Post-Operative State of Secundum Atrial Septal Defect Predispose to Recurrence of Atrial Fibrillation After Pulmonary Vein Isolation: Propensity Match AnalysisMasayuki Hattori¹⁾, Tomoko Ishizu¹⁾, Hiro Yamasaki¹⁾, Daisuke Orii¹⁾, Satoshi Shimoo¹⁾, Naoto Kawamatsu¹⁾, Tomoko Machino¹⁾, Takeshi Machino¹⁾, Keita Masuda²⁾, Hitoshi Horigome³⁾, Akihiko Nogami¹⁾, Kazutaka Aonuma¹⁾, Masaki Ieda¹⁾

1) Department of Cardiology, Faculty of Medicine, University of Tsukuba, 2) Department of Cardiovascular Medicine, Yokohama Rosai Hospital, 3) Department of Pediatrics, University of Tsukuba

S-01-6 Surgical intervention for Arrhythmias of Adult Fontan patientsOtohime Kato¹⁾, Kosuke Yoshizawa¹⁾, Keiichi Fujiwara¹⁾, Toshi Maeda¹⁾, Hirofumi Sato¹⁾, Go Ueno¹⁾, Hisao Nagato¹⁾, Nobuhisa Ohno¹⁾, Kotaro Inaguma²⁾, Naoki Toyoda²⁾, Haruko Ishihara²⁾, Hisanori Sakazaki²⁾

Hyogo Prefectural Amagasaki General Medical Center, 1) Cardiovascular Surgery Dept., 2) Pediatric cardiology Dept.

Chair: **Nobuhisa Hagiwara** (Tokyo Women's Medical University)Speaker: **Hirohiko Motoki** (Shinshu University School of Medicine)Co-sponsored: **Novartis Pharma K.K. Medical Division****LS-5 RE: The Role of Natriuretic Peptide**

Social and Psychosomatic Problems in ACHD and Mental CareChairs: **Makoto Nakazawa** (Southern Tohoku General Hospital)**Ryota Ochiai** (Yokohama City University)**EW-01-1 Mental and psychological problems in adults with congenital heart disease: From the perspective of psychiatry**

Hiroko Morishima

Chiba Cerebral and Cardiovascular Center, Department of Adult Congenital Heart Disease

EW-01-2 Mental health characteristics and quality of life of adults with congenital heart disease

Junko Enomoto

Toyo University, Chiba cerebral and cardiovascular Center

EW-01-3 The role of nurses of department for adult congenital heart disease- promotion of psychological adaptation.

Yoshiko Mizuno

Tokyo University of Information Sciences

EW-01-4 Palliative care for patients with adult congenital heart disease ~ From the standpoint of narrative careKensuke Matsumoto¹⁾, Makiko Suzuki¹⁾, Makiko Suto¹⁾, Akihiro Sakashita¹⁾, Yoshiyuki Kizawa¹⁾, Ken-ichi-Hirata¹⁾

Kobe University Graduate School of Medicine Department of Internal Medicine,

1) Division of Cardiovascular Medicine, 2) Department of Palliative Medicine

EW-01-5 Anxiety and employment support for ACHD patientsTakashi Higaki¹⁾, Yusuke Akazawa^{2,3)}, Hidemi Takata^{1,2)}, Masaaki Ota²⁾, Toshiyuki Chisaka²⁾, Tomozo Moritani²⁾, Toyohisa Miyata^{1,2)}, Haruka Iwata²⁾, Tossiyuki Ito²⁾, Takayuki Oku²⁾, Kousuke Kashiwagi²⁾, Kyoko Konishi²⁾, Takeshi Nakano²⁾, Osamu Matsuda²⁾, Eiichi Yamamoto²⁾, Junya Sugiura⁴⁾, Ai Kojima⁴⁾, Shunji Uchita⁴⁾, Osamu Yamaguchi²⁾

Ehime University Graduate School of Medicine, 1) Department of Regional Pediatrics and Perinatology, 2) Department of Pediatrics,

3) Department of Cardiology, Pulmonology, Hypertension & Nephrology, 4) Department of Cardiovascular Surgery,

5) Yokohama City University Graduate School of Medicine Cancer/Advanced Adult Nursing, Department of Nursing

Congenital Aortic Valve Diseases: Echocardiographic Evaluation & Surgical ManagementChair: **Makoto Kawai** (The Jikei University School of Medicine)**AL-02-1 Morphological diagnosis and preoperative evaluation of bicuspid aortic valve**

Risa Fukumoto

TORANOMON HOSPITAL, Department of Cardiovascular Medicine Cardiovascular Center

AL-02-2 Aortic valve repair for congenital aortic valve disease

Takashi Kuniyama, Kiyozo Morita, Ko Bando, Yoshimasa Uno, Ryuichi Nagahori, Michio Yoshitake, Yoko Matsumura, Naritomo Nishioka, Gen Shinohara, Mitsutaka Nakao, Tomomitsu Takagi, Satoshi Arimura

The Jikei University School of Medicine, Department of Cardiac Surgery

16:20 - 17:30 **How to Do IT 4** Case- specific round table discussion

Management of Critical Arrhythmia

Chairs: **Shigeru Tateno** (Chiba Kaihin Municipal Hospital)

Toshiya Kojima (The University of Tokyo Hospital)

Commentators: **Toshimi Koitabashi**, **Yoshihito Hata**, **Yasutaka Hirata** **Shunji Uchita**

H-04-1 A patient of VF survivor after Fontan procedure

Keiko Toyohara, Yoshimichi Kudo, Hisashi Sugiyama

Tokyo Women's Medical University, Department of Pediatric Cardiology and Adult Congenital Heart Disease

H-04-2 Refractory ventricular tachycardia in an adult case of tetralogy of Fallot after intracardiac repair

Yasumasa Tsukamoto¹, Tomoaki Nakano¹, Kentaro Ozu¹, Hitoshi Minamiguchi¹, Isamu Mizote¹, Tomohito Ohtani¹, Takayoshi Ueno², Shungo Hikoso¹, Yasushi Sakata¹

1) Department of Cardiovascular Medicine, 2) Department of Cardiovascular Surgery, Osaka University Graduate School of Medicine

H-04-3 Case of biventricular repaired PAIVS with Atrial fibrillation

Norie Mitsushita¹, Yasuhiko Tanaka², Jun Yoshimoto², Akio Ikai³, Kiichi Hirose³, Hiroki Sakamoto⁴, Hiroshi Tsuneyoshi⁵

1) Shizuoka Children's Hospital (Shizuoka General Hospital), 2) Shizuoka Children's Hospital Cardiology dept.,

3) Shizuoka Children's Hospital Cardiovascular Surgery dept., 4) Shizuoka General Hospital Cardiology dept.,

5) Shizuoka General Hospital Cardiovascular Surgery dept

January 18 (Saturday)

Auditorium 3 [3F Room 1]

8:00 - 9:00 **Featured Abstract Session 1**

Japanese session

ACHD Medical Care system

Chairs: **Shunsuke Tatebe** (Tohoku University Graduate School of Medicine)

Kenichiro Yamamura (Kyushu University)

FA-01-1 Challenge to establish medical care system for patients with adult congenital heart disease at university hospital with child medical center

Koichi Kataoka¹, Masaaki Kawada^{1,3,4}, Tatsuya Anzai², Shun Suzuki², Sadahiro Furui², Akiko Yokomizo², Mitsuru Seki², Tomoyuki Satoh², Yasushi Imai^{3,5}, Tomoyuki Kabutoya^{3,5}

1) Jichi Children's Medical Center Tochigi Pediatric Operating Suite and Intensive Care Unit,

2) Jichi Children's Medical Center Tochigi Department of Pediatrics, 3) Jichi Medical University Adult Congenital Heart Disease Center,

4) Jichi Children's Medical Center Tochigi Pediatric and Congenital Cardiovascular Surgery,

5) Jichi Medical University Cardiovascular Medicine

FA-01-2 Transition and transfer of severe ACHD patients in children's hospital

Hisaaki Aoki, Futoshi Kayatani, Kazuhisa Hashimoto, Masaki Hirose, Kumiyo Matsuo, Yasuhiro Hirano, Youichirou Ishii, Kunihiko Takahashi

Department of Pediatric Cardiology, Osaka Women's and Children's Hospital

FA-01-3 Adult ASD catheter therapy by the cooperation of the children's hospital and the adult cardiology

Kenji Hoshino¹, Kiyoshi Ogawa^{1,2}, Sadataka Kawachi¹, Shio Suzuki¹, Miki Kano³, Joe Matsumura³, Osamu Inaba³

1) Department of Pediatric Cardiology, Saitama Children's Medical Center, 2) Department of Cardiology, Saitama Red Cross Hospital

FA-01-4 Efforts to establish the medical treatment system for adult congenital heart disease in a regional core hospital

Minako Hoshiai¹⁾, Chisa Asahina²⁾, Daichi Inomata²⁾, Yuichiro Akiyama²⁾, Takeaki Goto²⁾, Takuya Shimizu²⁾, Toshiaki Yano²⁾, Aritaka Makino¹⁾, Keita Sano²⁾, Masahiko Nakamura²⁾, Masato Nakajima³⁾, Ken Umetani^{2,3)}

1) Pediatric Heart Center, Yamanashi Prefectural Hospital, 2) Dept. of Cardiology, 3) Heart Center, Yamanashi Prefectural Hospital

FA-01-5 Supporting System For Pregnancy in Women With a Fontan Circulation

Yasufumi Kijima¹⁾, Yumi Shiina¹⁾, Hiroyuki Kodama¹⁾, Yusuke Yumita^{1,2)}, Michiko Yamanaka³⁾, Nobuyuki Komiyama¹⁾, Koichiro Niwa¹⁾

1) St. Luke's International Hospital, Department of Cardiology, 2) National Defense Medical College, Department of Cardiology,

3) St. Luke's International Hospital, Department of Integrated Women's Health

9:00 - 10:00

Oral Presentation 6

Diagnostic Imaging for ACHD

Chairs: **Hirofumi Tomimatsu** (Tokyo Women's Medical University)

Ken Takahashi (Juntendo University Faculty of Medicine)

OS-06-1 Appropriate evaluations of systolic function in the systemic RV: comparisons of echo and CMR parameters

Naoko Ichikawa¹⁾, Yumi Shiina²⁾, Yasuhumi Kijima²⁾, Hiroyuki Kodama²⁾, Yuusuke Yumita²⁾, Nobuyuki Komiyama²⁾, Koichiro Niwa²⁾

1) St. Luke's International Hospital Clinical Laboratory, 2) St. Luke's International Hospital Cardiovascular center

OS-06-2 Accuracy and limitation of guideline-based echocardiographic evaluation of pulmonary regurgitation in patients with repaired tetralogy of Fallot -comparison with cardiac MRI-

Tomoko Machino¹⁾, Tomoko Ishizu¹⁾, Naomi Nakazawa¹⁾, Naoto Kawamatsu¹⁾, Yusuke Yano²⁾, Yoshihiro Nozaki²⁾, Miho Takahashi²⁾, Hitoshi Horigome²⁾, Masaki Ieda¹⁾

1) Department of Cardiology, Faculty of Medicine, University of Tsukuba,

2) Department of Child Health, Faculty of Medicine, University of Tsukuba

OS-06-3 Consideration of optimal timing for pulmonary valve replacement in asymptomatic repaired tetralogy of Fallot using feature tracking MRI

Akio Inage¹⁾, kanako Kishiki¹⁾, Naokazu Mizuno²⁾, Yoshichika Maeda¹⁾, Takumi Kobayashi¹⁾, Yuuji Hamamichi¹⁾, Tomomi Ueda¹⁾, Satoshi Yazaki¹⁾, Tadahiro Yoshikawa¹⁾

1) Sakakibara Heart Institute, Pediatric Cardiology dept., 2) Sakakibara Heart Institute, Radiology dept.

OS-06-4 Clinical Impact of IVC-PFO Angle on Frequency and Severity of Right to Left Shunt of PFO

Eiji Yamashita¹⁾, Yuta Kemi¹⁾, Takeshi Fujiwara²⁾, Takehito Sasaki¹⁾, Koki Nakamura¹⁾, Shigetou Naito¹⁾

1) Gunma Prefectural Cardiovascular Center Dept of Cardiology, 2) Jichi Medical University Dept of Cardiology

OS-06-5 Effectiveness of T1 mapping for fibrosis of right ventricle in unrepaired adults with congenital heart disease.

Masanori Mizuno¹⁾, Akiyuki Kotoku²⁾, Kenzo Sakurai¹⁾, Chikako Masumori¹⁾, Marie Nakano¹⁾, Kentaro Aso¹⁾

1) Department of Pediatrics, St.Marianna University School of Medicine,

2) Department of Radiology, St.Marianna University School of Medicine

10:00 - 11:00

Oral Presentation 7

Long term Prognosis/Heart transplantation

Chairs: **Kazuaki Tanabe** (Shimane University Faculty of Medicine)

Fumie Takechi (Chiba Cardiovascular Center)

OS-07-1 Clinical Outcome of a Multicenter Cohort Study: Effect of Direct Oral Anticoagulant in Adult Congenital Heart Disease Patients

Keita Masuda¹⁾, Tomoko Ishizu²⁾, Masaki Ieda²⁾

1) Yokohama Rosai Hospital, Department of Heart Rhythm management,

2) Department of Cardiology, Faculty of Medicine, University of Tsukuba

OS-07-2 Health-related Quality of Life Predicts Cardiovascular Outcomes and Unplanned Hospital Admissions in Patients with Adult Congenital Heart Disease

Ryo Konno¹⁾, Shunsuke Tatebe¹⁾, Koichiro Sugimura¹⁾, Kimio Satoh¹⁾, Shigefumi Fukui¹⁾, Hideaki Suzuki¹⁾, Saori Yamamoto¹⁾, Haruka Sato¹⁾, Yosuke Terui¹⁾, Osamu Adachi²⁾, Masato Kimura³⁾, Yoshikatsu Saiki²⁾, Hiroaki Shimokawa¹⁾

1) Department of Cardiovascular Medicine, Tohoku University Graduate School of Medicine,

2) Department of Cardiovascular Surgery, Tohoku University Graduate School of Medicine,

3) Department of Pediatrics, Tohoku University Graduate School of Medicine

OS-07-3 Prognostic value of von Willebrand factor in adult patients with congenial heart disease

Hideo Ohuchi^{1,2)}, Toru Iwasa¹⁾, Heima Sakaguchi¹⁾, Isao Shiraishi¹⁾, Kenichi Kurosaki¹⁾

National Cerebral and Cardiovascular Center: 1) Pediatric Cardiology, 2) Adult Congenital Heart Disease

OS-07-4 Indication of heart transplantation in Adult congenital heart diseases

Mikiko Ishido, Tokuko Shinohara, Eriko Shimada, Gen Harada, Hiroki Mori, Hisashi Sugiyama

Tokyo Women's Medical University Hospital, department of Pediatric Cardiology

OS-07-5 Current State of Transitioning to Adult Care After Pediatric Heart Transplantation in Our Institute

Jun Narita¹⁾, Chika Yoshihara¹⁾, Misugi Emi¹⁾, Ryo Ishii¹⁾, Hidekazu Ishida¹⁾, Yasumasa Thukamoto²⁾, Yasushi Sakata²⁾, Keiichi Ozono¹⁾

1) Department of Pediatrics, 2) Department of Cardiology, Osaka University Graduate school of Medicine

11:00 - 12:00

Educational Seminar Advanced Lecture 1

Innovative Management of Lymphatic Disorder in ACHD & failed Fontan

Chair: **Ryo Inuzuka** (Tokyo University)

AL-01-1 Interventional radiology for lymphatic insufficiency: Adaptation and limitations to failed Fontan

Masayoshi Yamamoto, Ryuse Zako, Mizuki Ozawa, Akiyoshi Suzuki, Takuya Hara, Koutaro Yamamoto, Suguru Hitomi, Hiroshi Kondo, Hiroshi Oba

Teikyo university hospital, Department of Radilogy

AL-01-2 Lymphatic flow reconstruction surgery; for stopping chile leakage.

Motoi Kato

Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, The University of Tokyo.

12:15 - 13:05

Luncheon Seminar 6

Chair: **Michihiro Yoshimura** (Jikei University School of Medicine)

Speaker: **Hidehira Fukaya** (Kitasato University School of Medicine)

Co-sponsored: **Daiichisankyo**

LS-6 RE: Management of Atrial Fibrillation

13:30 - 14:30

Oral Presentation 8

Arrhythmia in ACHD

Chairs: **Keiko Toyohara** (Tokyo Women's Medical University)

Nobuhiro Nishii (Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences)

OS-08-1 The reduced cardiac load by catheter ablation for atrial fibrillation complicated with atrial septal defect

Kazuo Sakamoto¹, Yasushi Mukai², Susumu Takase³, Kazuhiro Nagaoka⁴, Shunsuke Kawai², Daisuke Yakabe⁵, Shujiro Inoue⁶, Takanori Watanabe³, Ichiro Sakamoto³, Ayako Ishikita³, Shintarou Umemoto³, Akiko Chisyaki³, Hiroyuki Tsutsui³

1) Kyushu University Hospital, Cardiovascular medicine, 2) The Japanese Red Cross Fukuoka Hospital, 3) Kyushu University Hospital, 4) St.Mary's Hospital, 5) National Hospital Organization Kyushu Medical Center, 6) Aso Iizuka Hospital

OS-08-2 Catheter ablation for Adenosine sensitive reentrant atrial tachycardia after tricuspid valvuloplasty

Yusuke Hayashi, Jun Yoshimoto, Mizuhiko Ishigaki, Keisuke Sato, Norie Mitsushita, Sung-Hae Kim, Masaki Nii, Yasuhiko Tanaka

Mt.Fuji Shizuoka Children's Hospital, Cardiology Dept

OS-08-3 Successful Ablation for Ventricular Tachycardia after Surgical Repair of Tetralogy of Fallot by Conduction Block between Two Patches under Intracardiac Echocardiographic Guidance

Kengo Korai, Kenichi Hiroshima, Kenji Ando

Kokura Memorial Hospital, Department of Cardiology

OS-08-4 A case of successful management for catheter ablation for IART complicated with post-operative AVSD

Yasushi Imai^{1,2}, Tomoyuki Kabutoya¹, Tomonori, Watanabe¹, Hiroaki, Watanabe¹, Kana, Kubota¹, Koichi Kataoka³, Tomoyuki Sato³, Mitsuru Seki³, Ko Yoshizumi⁴, Shinya Ugaki⁴, Masaaki Kawada⁴, Kazuomi Kario¹

Jichi Medical University, 1) Division of Cardiovascular Medicine, 2) Division of Clinical Pharmacology, 3) Department of Pediatrics, 4) Division of Pediatric/Congenital Cardiovascular Surgery

OS-08-5 Successful catheter ablation using ultra-high-density-map and TCPC conversion for multiple atrial tachycardia in a patient with a history of Fontan procedure

Yoshimasa Morimoto¹, Nobuhiro Nishii¹, Tomofumi Mizuno¹, Saori Asada¹, Tomonari Kimura¹, Masakazu Miyamoto¹, Koji Nakagawa¹, Atsuyuki Watanabe¹, Kazufumi Nakamura¹, Hiroshi Ito¹, Takahiro Eitoku², Shingo Kasahara³

1) Okayama University Hospital, Cardiovascular Medicine dept., 2) Okayama University Hospital, Pediatric Cardiology dept., 3) Okayama University Hospital, Cardiovascular Surgery dept.

14:30 - 15:42

Oral Presentation 9

Problems at midterm after Surgery

Chairs: **Ryuji Fukazawa** (Nippon Medical School)

Masahiro Kamada (Hiroshima City Hospital)

OS-09-1 What should we let the TOF patients know? Problems of adult TOF patients.

Naomi Nakagawa¹, Masahiro Kamada¹, Yukiko Isgiguchi¹, Yuji Moritoh¹, Kengo Okamoto¹, Noriko Kawata¹, Tomoya Tuchihasi¹, Kunikazu Hisamochi², Atsushi Tateishi², Kenji Nishioka³, Kazuoki Dai³
Hiroshima City Hp., 1) Dep. of Pediatric Cardiology, 2) Cardiac Surgery, 3) Cardiology

OS-09-2 Prognosis and Problems in Patients with Pulmonary Atresia and Intact Ventricular Septum

Hidemi Takata, Takashi Higaki, Masaaki Ohta, Toshiyuki Chisaka, Tomozou Moritani, Toyohisa Miyata, Toshiyuki Ito, Yusuke Akazawa, Takayuki Oku, Mariko Eguchi
Department of Pediatrics, Ehime University

OS-09-3 Clinical outcomes of adult congenital heart disease patients with protein losing enteropathy

Norihisa Toh², Yasuhiro Kotani¹, Teiji Akagi², Fumi Yokohama², Yosuke Kuroko¹, Kenji Baba³, Shin-ichi Otsuki³, Shingo Kasahara¹, Hiroshi Ito²
1) Department of Cardiovascular Surgery, Okayama University, 2) Department of Cardiovascular Medicine, Okayama University, 3) Department of Pediatric Cardiology, Okayama University

OS-09-4 Long-term hemodynamic follow-up of adults following the atrial switch operation for transposition of the great arteries

Masataka Ogiso^{1,2}, Kei Inai¹, Hisashi Sugiyama¹, Morio Shoda², Nobuhisa Hagiwara²
1) Tokyo women's medical university, department of pediatric cardiology and adult congenital cardiology, 2) Tokyo women's medical university, department of cardiology

OS-09-5 Long-term outcomes of congenitally corrected transposition of the great arteries: A high-volume single center experience

Fumi Yokohama¹, Norihisa Toh¹, Teiji Akagi¹, Horoshi Ito¹, Yosuke Kuroko², Tasuhiro Kotani², Shingo Kasahara²
1) Okayama University, Cardiovascular Medicine, 2) Okayama University, Cardiovascular Surgery

OS-09-6 The screening assessment for depression in adult patients with congenital heart disease from a multicenter epidemiological study

Hiroko Morishima², Shunsuke Tatebe¹, Shigeru Tateno², Junko Enomoto^{2,3}, Yoshiko Mizuno^{2,4}, Kotaro Oyama⁵, Hiromichi Nakajima⁶, Yoshitomo Okajima², Yasutaka Kawasoe², Fumie Takechi², Koichiro Niwa^{2,7}
1) Tohoku University School of Medicine, Department of Cardiovascular Medicine, 2) Chiba Cerebral and Cardiovascular Center, Department of Adult Congenital Heart Disease, 3) Toyo University, Department of Education, Faculty of Letters, 4) Tokyo University of Information Sciences, Faculty of Nursing, 5) Iwate Medical University School of Medicine, Department of Pediatrics, 6) Chiba Children's Hospital, Department of Cardiology, 7) St. Luke's International Hospital, Department of Cardiology, Cardiovascular Center

15:45 - 16:45

Oral Presentation 11

Long term outcome following Fontan

Chairs: **Masaru Miura** (Tokyo Metropolitan Children's Medical Center)

Hiroshi Ono (National Center for Child Health and Development)

OS-11-1 Long-term evaluation of the coagulability and fibrinolytic function in adult Fontan cases : The discontinuation of Warfarin

Yoshimasa Uno, Kiyozo Morita, Gen Shinohara, Takasi Kunihara
Department of Cardiacsurgery, The Jikei University School of Medicine

OS-11-2 The Efficacy and Safety of Direct Oral Anticoagulant in Adult Patients with Fontan Circulation.

Naoto Kawamatsu¹, Tomoko Ishizu¹, Terunobu Fukuda², Yasufumi Kijima², Yumi Shiina², Shigeru Tateno³, Tomoko Machino¹, Hitoshi Horigome⁴, Koichiro Niwa², Masaki Ieda¹

1) Department of Cardiology, Faculty of Medicine, University of Tsukuba,

2) Department of Cardiology, Cardiovascular Center, St Luke's International Hospital,

3) Department of Adult Congenital Heart Disease and Pediatrics, Chiba Cardiovascular Center,

4) Department of Child Health, Graduate School of Comprehensive Human Sciences, University of Tsukuba

OS-11-3 Clinical Characteristics of Fontan Patients Who Require Repeated Re-Hospitalizations

Hikari Miike¹, Hideo Ohuchi^{1,2}, Kimiko Nakajima¹, Dai Suzuki¹, Nao Konagai¹, Atsushi Hirota¹, Yoshiaki Kato¹, Kazuto Fujimoto¹, Tohru Iwasa¹, Masataka Kitano¹, Etsuko Tsuda¹, Heima Sakaguchi¹, Isao Shiraishi¹, Kenichi Kurosaki¹
National Cerebral and Cardiovascular Center, 1) Dept of Pediatric Cardiology, 2) Adult Congenital Heart Disease

OS-11-4 The quality of life among 100 adult Fontan patients in Kyushu University Hospital

Yoshihiko Kodama^{1,3}, Tomomi Ide¹, Ichiro Sakamoto¹, Kisho Ohtani¹, Kenichiro Yamamura², Yuichi Ishikawa³, Kouichi Sagawa³, Hiroyuki Tsutsui¹

1) Kyushu University Hospital, Department of Cardiovascular Medicine, 2) Kyushu University Hospital, Department of Pediatrics,

3) Fukuoka Children's Hospital Department of Pediatric Cardiology

OS-11-5 O2 inhalation decreases CVP in adult patients with Fontan Circulation

Ichiro Sakamoto¹, Ayako Ishikita¹, Shintaro Umemoto¹, Kenichiro Yamamura², Hazumu Nagata², Hiroyuki Tsutsui¹

1) Department of Cardiovascular Medicine, Kyushu University Hospital, 2) Department of Pediatrics, Kyushu University Hospital

17:00 - 18:15

Featured Topics Session 1

English Session

Management of the repaired complete TGA patients late after arterial / atrial repair

Chairs: **Shingo Kasahara** (Okayama University)

Ryo Inuzuka (Tokyo University)

Keynote Evaluation and Medical Management of Adults with Complete TGA Late After Atrial / Arterial Switch Operation

Yiu-fai Cheung

Division of Paediatric Cardiology, Department of Paediatrics and Adolescent Medicine, Queen Mary Hospital, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong.

FT-01-1 Reoperations long after arterial switch operation

Yuki Nakayama, Takeshi Shinkawa, Ryogo Hoki, Kei Kobayashi, Hisashi Yoshida, Hiroshi Niinami

Tokyo Women's Medical University Hospital, Cardiovascular Surgery Dept

FT-01-2 Overweight is related to the neoortic root dilatation in adults with transposed great arteries after arterial switch operation

Jun Muneuchi¹, Mamie Watanabe¹, Yuichiro Sugitani¹, Ryohei Matsuoka¹, Hiroto Doi¹, Hiroki Ezaki¹, Kensaku Matsuda², Tomoko Fujita², Yoshie Ochiai²

1) Pediatrics, 2) Cardiovascular Surgery, JCHO Kyushu Hospital

FT-01-3 Cardiovascular Events in Adult Transposition of Great Arteries Patients after Atrial Switch Procedure

Shintaro Umemoto¹, Ichiro Sakamoto¹, Ayako Ishikita¹, Hazumu Nagata², Ken-ichiro Yamamura², Hiroyuki Tsutsui¹

1) Kyushu University Hospital, Department of Cardiovascular Medicine, 2) Kyushu University Hospital, Department of Pediatrics

FT-01-4 Re-interventions for d-TGA Patients Late after Arterial / Atrial Switch

Kosuke Yoshizawa¹, Nobuhisa Ohno¹, Hisao Nagato¹, Go Ueno¹, Hirofumi Sato¹, Otohime Kato¹, Tohshi Maeda¹, Takuya Kitada¹, Hisanori Sakazaki², Haruko Ishihara², Naoki Toyoda², Kohtarō Inaguma²

Cardiovascular surgery, Hyogo Prefectural Amagasaki General Medical Center

9:00 - 9:45 **Special Lecture**

Chair: **Yoshie Kawano** (National Cerebral and Cardiovascular Center)

Challenging for Home Care Management in ACHD Patients

Dai Yumino
Yumino Medical

10:00 - 12:00 **ACHD Nursing Working Group**

Multi-disciplinary Round Table Discussion

13:30 - 15:00 **How to Do IT 2** Case-specific round table discussion

Injury of Hearts and Vessels During Redo ACHD operation [Joint Session with JaSECT]

Chairs: **Shingo Kasahara** (Okayama University)
Mitsugi Nagashima (Wakayama Medical University)

Commentators: **Minoru Nomura, Naoki Yoshimura, Yoshie Ochiai, Atsushi Kato**

H-02-1 Cardiac injury in adult congenital heart disease surgery

Takashi Miyamoto¹⁾, Kazuki Yakuwa¹⁾, Yuki Tadokoro¹⁾, Yoshihiko Onishi¹⁾, Teppei Fujita²⁾, Toshimi Koitabashi²⁾,
Tadashi Kitamura¹⁾, Miyaji Kagami¹⁾

1) Kitasato University School of Medicine, Department of cardiovascular surgery,
2) Kitasato University School of Medicine, Department of Cardiology

H-02-2 A case of pulmonary valve replacement with aortic injury in the fourth open heart surgery

Tomoyuki Matsuba, Yushi Yamashita, Yutaka Imoto
Kagoshima University Graduate School of Medical and Dental Sciences, Cardiovascular Surgery

H-02-3 How do you deal with the injury of ascending aorta during re-sternotomy in an adult patient with PA/VSD ?

Takuji Watanabe, Takayoshi Ueno, Tomomitsu Kanaya, Naoki Okuda, Kanta Araki, Yuji Tominaga, Yosuke Kugo,
Koichi Toda, Toru Kuratani, Yoshiki Sawa
Osaka University Graduate School of Medicine, Cardiovascular Surgery dept.

H-02-4 Aortic Injury in pulmonary valve replacement late after Ross/Bentall operation

Masamori Kawajiri¹⁾, Kohta Takahashi¹⁾, Yuya Endou¹⁾, Yuichi Sasaki¹⁾, Rieko Iwaya¹⁾, Akinori Hiratuka¹⁾, Yoshimasa Uno²⁾,
Kiyozo Morita²⁾

1) The Jikei University Hospital Clinical engineering Dept, 2) The Jikei University Hospital Cardiac Surgery

Surgery for Repaired ACHDChairs: **Yukihiro Kaneko** (National Center for Child Health and Development)**Takaya Hoashi** (National cerebral and cardiovascular center)**OS-10-1 Long-term Follow-up Clinical Results of Percutaneous Coronary Intervention for Extrinsic Coronary Compression Found in a Very Late Postoperative Period After Rastelli Operation**Yasushi Fuku¹, Kenji Waki², Yoshio Aragaki², Kazushige Kadota¹

1) Kurashiki Central Hospital, Department of Cardiology, 2) Kurashiki Central Hospital, Department of pediatrics

OS-10-2 A case of off-pump CABG for left coronary artery occlusion after Jatene operationMotofumi Iemura¹, Yoshiyuki Kagiya¹, Hiroshi Yasunagai², Kenji Suad³

1) St.Mary's Hospital. Division of Pediatric Cardiology, 2) St.Mary's Hospital. Division of Cardiac Surgery, 3) Kurume University. Dept of Pediatrics

OS-10-3 Unusual cause of right ventricular outflow tract obstruction after "complete repair" of congenital heart disease.Atsuko Kato¹, Jun Sato¹, Kimihiro Yoshii¹, Shuichiro Yoshida¹, Hiroshi Nishikawa¹, Naoki Ohashi¹, Takahisa Sakurai², Hajime Sakurai¹

JCHO Chukyo Hospital, 1) Department of pediatric cardiology, 2) Department of cardiovascular surgery

OS-10-4 Experiences with a tricuspid valved conduit made of expanded polytetrafluoroethylene (ePTFE) late after tetralogy of Fallot repair.Renta Ishikawa¹, Takeshi Konuma¹, Takato Yamasaki¹, Ayano Futsuki¹, Naoki Yamamoto¹, Hisato Ito¹, Koji Hirano¹, Yu Shomura¹, Motoshi Takao¹, Hideto Shimpo², Yosuke Okumura³, Tomohiro Hasegawa³, Kazunobu Ohya³, Noriko Yodoya³, Hiroyuki Ohashi³, Hirofumi Sawada³, Yoshihide Mitani³, Yoshito Ogihara⁴

1) Mie university hospital, department of thoracic and cardiovascular surgery, 2) Mie prefectural general medical center, 3) Mie university hospital, department of pediatrics, 4) Mie university hospital, department of Cardiology and Nephrology

OS-10-5 The tetralogy of Fallot postoperative adults with pulmonary artery aneurysmSatoshi Marutani¹, Nori Takada¹, Kosuke Nishi¹, Kazushi Ueshima¹, Nishino Takako², Noboru Inamura¹

1) Department of Pediatrics Kindai University Faculty of Medicine, 2) Department of Cardiovascular Surgery Kindai University Faculty of Medicine

January 19 (Sunday)**Auditorium 1 [4F Hall B]****8:00 - 8:45****Invited Lecture 5****English Session**Chair: **Toshiki Kobayashi** (Saitama Medical University International Medical Center)**IL-05 THE IMPACT OF INTERVENTIONAL CARDIOLOGY FOR THE MANAGEMENT OF ACHD: FROM THE PRESENT TO THE FUTURE**

Massimo Chessa M.D., Ph.D., FSCAI, FESC

Head of ACHD/GUCH Unit, Senior Interventional Congenital Cardiologist Consultant, Pediatric and Adult Congenital Heart Centre, IRCCS-Policlinico San Donato - University Hospital, Milan, Italy

Update and Prospect on Interventional Cardiology for ACHD

Chairs: **Hideshi Tomita** (Showa University Hospital)

Teiji Akagi (Okayama University)

Commentator: **Massimo Chessa M.D., Ph.D., FSCAI, FESC** (Head of ACHD/GUCH Unit, Senior Interventional Congenital Cardiologist Consultant, Pediatric and Adult Congenital Heart Centre, IRCCS-Policlinico San Donato - University Hospital, Milan, Italy)

S-03-1 Atrial septal defect in the era of transcatheter closure

Ichiro Sakamoto, Ayako Ishikita, Shintaro Umemoto, Ken-ichi Hiasa, Shunji Hayashidani, Hiroyuki Tsutsui
Department of Cardiovascular Medicine, Kyushu University Hospital

S-03-2 Transcatheter Closure of Patent Foramen Ovale

Yoichi Takaya, Teiji Akagi, Koji Nakagawa, Rie Nakayama, Takashi Miki, Hiroshi Ito
Okayama University Cardiovascular Medicine

S-03-3 Trans-catheter Pulmonary Valve Implantation

Gi-Beom Kim. MD., PhD.
Department of Pediatrics, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, South Korea

S-03-4 Transcatheter mitral valve repair using MitraClip in patients with ACHD

Maiku Saji
Department of Cardiology, Sakakibara Heart Institute

S-03-5 Role of Stents in Adult Congenital Heart Disease

Takanari Fujii

Pregnancy and delivery in high-risk ACHD patients

Chairs: **Tomoaki Ikeda** (Mie University Graduate School of Medicine)

Jun Yoshimatsu (National Cerebral and Cardiovascular Center)

P-02-1 Management of high risk pregnancy in ACHD patients: Mechanical valve, anticoagulation therapy

Teiji Akagi¹⁾, Norihisa Toh¹⁾, Fumi Yokohama¹⁾, Eriko Eto¹⁾, Jota Maki,²⁾ Hisashi Masuyama²⁾, Hiroshi Ito¹⁾
1) Dept. of Cardiovascular Medicine, Okayama University, 2) dept Obstetrics and Gynecology, Okayama University

P-02-2 Pregnancy and delivery after Fontan operation

Tokuko Shinohara
Tokyo Women's Medical University, Department of Paediatric Cardiology and Adult Congenital Cardiology

P-02-3 Pregnancy in patients with the systemic RV

Yumi Shiina
St.Luke's International Hospital

P-02-4 Pulmonary arterial hypertension associated with congenital heart diseases and pregnancy and delivery

Shinji Katsuragi¹⁾, Taro Yamada²⁾, Hanako Suzuki³⁾
1) Sakakibara Heart Institute, Department of Obstetrics and Gynecology, 2) Kyorin University, Department of Cardiology, 3) Mie University, Department of Obstetrics and Gynecology

P-02-5 Therapeutic strategy of pregnancy and delivery for women with WHO category III congenital heart disease

Sachiko Kido¹⁾, Tohru Funakoshi²⁾, Naoya Kamei¹⁾, Toshikatsu Tanaka¹⁾, Yasunobu Miki¹⁾, Michio Matsuoka¹⁾, Yoshiharu Ogawa¹⁾, Kenta Tominaga¹⁾

1) Department of Cardiology, 2) Department of Obstetric, Hyogo Prefectural Kobe Children's Hospital

12:05 - 12:55 Luncheon Seminar 7

Chair: **Toyoaki Murohara** (Nagoya University Graduate School of Medicine)

Speakers: **Yasufumi Kijima** (St.Luke's International Hospital)

Satoshi Akagi (Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences)

Co-sponsored: **Actelion Pharmaceuticals Japan Ltd. / NIPPON SHINYAKU CO.,LTD.**

LS-7 RE: Management of Pulmonary Arterial Hypertension

13:00 - 13:30 JSACHD General Assembly

13:45 - 15:15 How to Do It 5 Case- specific round table discussion

Management of high risk ACHD (Corrected TGA and Heart Failure)

Chairs: **Takashi Higaki** (Ehime University)

Satoshi Masutani (Saitama Medical Center Saitama Medical University)

Commentators: **Hideo Ohuchi, Mikiko Ishido, Keiichi Fujiwara, Munetaka Masuda**

H-05-1 A case of corrected transposition of the great arteries with reduced right ventricular contractility relatively rapidly after pacemaker implantation

Makiko Suzuki, Kensuke Matsumoto, Makiko Suto, Ken-ichi Hirata
Kobe University Hospital, cardiovascular dept

H-05-2 When and how to intervene for tricuspid valve regurgitation in patients with corrected transposition of the great arteries?

Masanobu Ohya¹⁾, Yasushi Fuku¹⁾, Sachiyo Ono¹⁾, Kohei Osakada¹⁾, Kazutoshi Sato²⁾, Tomohiro Hayashi²⁾, Kenji Waki²⁾, Yoshio Arakaki²⁾

Kurashiki Central Hospital, 1) Department of Cardiology, 2) Department of Pediatrics

H-05-3 Percutaneous repair of systemic atrioventricular valve regurgitation in Congenitally Corrected Transposition of Great Arteries.

Yoshifumi Nakajima¹⁾, Hironobu Ueda¹⁾, Koizumi Junichi²⁾, Hajime Kin²⁾, Yoshihiro Morino¹⁾

1) Division of Cardiology, Iwate Medical University hospital, 2) Department of Cardiovascular Surgery, Iwate Medical University hospital

H-05-4 How to deal with an adult cyanotic patient of single ventricle with palliative operation who lost follow-up until pregnancy.

Naomi Nakagawa¹⁾, Masahiro Kamada¹⁾, Yukiko Isgiguchi¹⁾, Yuji Moritoh¹⁾, Kengo Okamoto¹⁾, Noriko Kawata¹⁾, Tomoya Tuchihasi¹⁾, Kenji Nishioka²⁾

Hiroshima City Hp. Dep. of 1) Pediatric Cardiology, 2) Cardiology

15:30 - 17:00

Joint Symposium with Japanese Circulation Society

ACHD management system in Japan

Chairs: **Teiji Akagi** (Okayama University)

Isao Shiraishi (National Cerebral and Cardiovascular Center)

JOS-1 ACHD Subspecialty training in Japan

Atsushi Yao

The University of Tokyo

JOS-2 The role of Cardiac Surgeons in the Integrated ACHD Management in Japan

Kiyozo Morita

The Jikei University School Of Medicine, Department of Cardiac Surgery

JOS-3 Problems and prospects of adult congenital heart disease care system in Kyushu University Hospital

Ichiro Sakamoto¹, Ayako Ishikita¹, Shintaro Umemoto¹, Kenichiro Yamamura², Hazumu Nagata², Hideki Tatewaki³, Akira Shiose³, Hiroyuki Tsutsui¹

1) Department of Cardiovascular Medicine, Kyushu University Hospital, 2) Department of Pediatrics, Kyushu University Hospital, 3) Department of Cardiovascular Surgery, Kyushu University Hospital

JOS-4 Patient care system for ACHD: Nagano model

Hirohiko Motoki

Department of Cardiovascular Medicine, Shinshu University School of Medicine

JOS-5 Current state and challenges of the First Outpatient Clinic for Adult Congenital Heart Disease in Okinawa

Mami Nakayashiro¹

1) Okinawa Prefectural Nanbu Medical Center and Children's Medical Center Pediatric Cardiology,

2) Okinawa Prefectural Nanbu Medical Center and Children's Medical Center ACHD clinic, 3) University of the Ryukyus Faculty of Medicine

JOS-6 Perspective about medical services for ACHD Pts in Shizuoka Pref. Hp.Organization

Norie Mitsushita¹, Yasuhiko Tanaka¹, Jun Yoshimoto¹, Keiichi Hirose², Akio Ikai², Hiroki Sakamoto³

1) Shizuoka children's Hp Cardiology Dept, 2) Shizuoka Children's Hp CardiovascularSurgery, 3) Shizuoka General Hp Cardiology Dept

17:00 - 18:00

Open Conference with Citizens

Chairs: **Koichiro Niwa** (St Luke's International Hospital)

Kiyozo Morita (The Jikei University School of Medicine)

Speakers: **Katsuhito FUJII** (The University of Tokyo)

Masashi Takahashi (Niigata University Graduate School of Medical and Dental Sciences)

8:00 - 9:30

Expert Work Shop 2

Surgical/ interventional Challenges for Failed Fontan

Chairs: **Shunji Sano** (University California San Francisco)

Hajime Ichikawa (National Cerebral and Cardiovascular Center)

Commentator: **Pedro J. del Nido, MD, PhD** (William E. Ladd Professor and Chairman, Harvard Medical School, Department of Cardiac Surgery, Boston Children's Hospital, Boston, Massachusetts)

EW-02-1 Contemporary state of failed Fontan patients in our institute.

Heima Sakaguchi¹⁾, Hideo Ohuschi¹⁾, Isao Shiraishi¹⁾, Kenischi Kurosaki¹⁾, Takaya Hoashi²⁾, Hajime Ichikawa²⁾
National Cerebral and Cardiovascular Center, 1) Department of Pediatric Cardiology, 2) Department of Pediatric Cardiovascular Surgery

EW-02-2 Procedures, indications, and results of TCPC conversion in patients with Fontan failure

Hajime Sakurai¹⁾, Toshimichi Nonaka¹⁾, Takahisa Sakurai¹⁾, Motoshi Kozakai¹⁾, Takuya Osawa¹⁾, Yu Murakami¹⁾, Mayumi Kamada¹⁾, Naoki Ohashi²⁾, Hiroshi Nishikawa²⁾, Shuichiro Yoshida²⁾, Atsuko Kato²⁾, Kimihiro Yoshii²⁾, Jun Sato²⁾
1) Department of Cardiovascular Surgery, Japan Community Healthcare Organization Chukyo Hospital, Nagoya, Japan, 2) Department of Pediatric Cardiology, Japan Community Healthcare Organization Chukyo Hospital, Nagoya, Japan

EW-02-3 Surgical intervention for failed extracardiac Fontan - What're next steps?

Kozo Matsuo, Masashi Kabasawa
Chiba cardiovascular center, Cardiovascular surgery dept

EW-02-4 The cardiac resynchronization therapy in Failing Fontan

Aya Miyazaki¹⁾, Makoto Miyake²⁾, Hiraku Doi²⁾
1) Shizuoka Children's Hospital Department of Pediatric Cardiology, 2) Tenri Hospital Congenital Heart Disease Center

9:30 - 10:15

Educational Seminar Advanced Lecture 3

Lead Management for Cardiac Pacemaker

Chair: **Morio Shoda** (Tokyo Women's Medical University)

Co-sponsored: **Cook Japan**

Keynote Overview

Morio Shoda
Tokyo Women's Medical University

AL-03-1 The latest trend of lead management in pediatric patients with cardiac implantable electrical device

Daigo Yagishita¹⁾, Morio Shoda²⁾
1) Tokyo Women's Medical University, Department of Cardiology, 2) Tokyo Women's Medical University, Division of Heart Rhythm Management

January 19 (Sunday)

Pulmonary valve replacement late after TOF repair

Chairs: **Masaaki Kawada** (Jichi Children's Medical Center Tochigi, Jichi Adult Congenital Heart Center, Jichi Medical University)
Noriyasu Toh (Okayama University)

Keynote Post Tetralogy of Fallot repair : When to replace the pulmonary valve?

Geetha Kandavello MD, PhD

Senior Consultant Paediatric Cardiologist & Director, Adult congenital Heart Disease Services, Pediatric Congenital and Heart Center, National Heart Institute (Institute Jantung Negara), Kuala Lumpur, Malaysia

FT-02-1 Short-term Outcome after Pulmonary Valve Replacement: The Effects on Anatomy, Physiology, and Clinical Outcome

Yasuhiro Kotani¹⁾, Norihisa Toh²⁾, Yosuke Kuroki¹⁾, Takuya Kawabata¹⁾, Takuya Goto¹⁾, Naohiro Horio¹⁾, Yasuyuki Kobayashi¹⁾, Naoya Sakoda¹⁾, Tatsunori Tsuji¹⁾, Yutaka Yokota¹⁾, Nozomu Miura¹⁾, Teiji Akagi²⁾, Hiroshi Ito²⁾, Shingo Kasahara¹⁾

Okayama University Hospital, 1) Cardiovascular Surgery, 2) Cardiology

FT-02-2 Mid-term results of bioprosthetic valve function after pulmonary valve replacement in patients with repaired tetralogy of Fallot

Yuji Tominaga, Takayoshi Ueno, Tomomitsu Kanaya, Naoki Okuda, Kanta Araki, Takuji Watanabe, Koichi Toda, Toru Kuratani, Yoshiki Sawa

Osaka University Graduate School of Medicine, Department of Cardiovascular Surgery

FT-02-3 The Midterm results of Bioprosthetic Pulmonary Valve Replacement in Adolescence

Kagami Miyaji¹⁾, Takashi Miyamoto¹⁾, Kazuki Yakuwa²⁾, Yuki Tadokoro²⁾, Toshimi Koitabashi²⁾, Teppei Fujita²⁾, Junya Ako²⁾

1) Kitasato University School of Medicine, Dept. of Cardiovascular Surgery, 2) Kitasato University School of Medicine, Dept. of Angiology

FT-02-4 The options of pulmonary valve replacement after repaired tetralogy of Fallot

Minoru Tateishi¹⁾, Masaaki Koide¹⁾, Yoshifumi Kunii¹⁾, Satoshi Okugi¹⁾, Yuchen Cao¹⁾, Risa Shinbori¹⁾, Yasumi Nakashima²⁾, Sachie Kaneko²⁾, Nao Inoue²⁾

Seirei Hamamatsu General Hospital, 1) Department of Cardiovascular surgery, 2) Pediatric Cardiology

FT-02-5 Cardiac Impediments at Pulmonary Valve Replacement in Adults long after Repair of Tetralogy of Fallot

Ryohei Fukuba, Shinya Yokoyama, Rei Tonomura, Kazuhiro Mitani, Hideki Uemura

Nara Medical University Hospital Congenital Heart Disease Center

FT-02-6 Current Status of Trans-venous Pulmonary Valve Implantation at UCLA

Terunobu Fukuda¹⁾, Weiyei Tan¹⁾, Daniel Levi²⁾, Morris Salem³⁾, Jamil Aboulhosn^{1,2)}

1) Department of Medicine, Ahmanson Adult Congenital Heart Disease Center, David Geffen School of Medicine at UCLA,

2) Department of Pediatrics, Division of Cardiology, UCLA Mattel Children's Hospital,

3) Department of Pediatrics, Division of Cardiology, Kaiser Permanente

Chair: **Michihiro Yoshimura** (The JIKEI university)

Speaker: **Akira Koike** (University of Tsukuba)

Co-sponsored: **NIHON KOHDEN CORPORATION**

LS-8 RE: CPX & Cardia Rehabilitation for ACHD

Intraoperative Management of Redo ACHD operation

Chairs: **Kozo Matsuo** (Chiba cardiovascular center)**Shuhei Iwaki** (Shizuoka children's hospital)**JP-1 Reoperation offer repaired TOF surgical procedures and establishment of CPB**Hideki Tatewaki², Shinya Sadamatsu¹, Akira Shiose²

1) Department of Medical Technology Center Kyushu University Hospital,

2) Department of Cardiovascular Surgery Kyushu University Hospital

JP-2 Contrivance and cautions for cardiopulmonary bypass management in Rastelli reoperatioKei Ishikawa¹, Shigeru Minami¹, Koutarou Yoshida¹, Shigetaka Kusumoto¹, Masaki Takashina¹, Kiyoshi Yoshida²,Takayoshi Ueno³, Yoshiki Sawa³

1) Osaka University Hospital Department of Clinical Engineering,

2) Department of Advanced Clinical Engineering Osaka University Graduate School of Medicine,

3) Osaka University Graduate School of Medicine traces

JP-3 Selective cerebral perfusion system at reoperation of aortic root or arch

~ Means for cases that are difficult to clamp of aorta ~

Yoshihiro Koh¹, Yoshiaki Koyama²

1) Department of Cardiovascular Surgery Saitama Children's Medical Center.

2) Department of Clinical Engineering Saitama Children's Medical Center.

JP-4 Surgical Procedure and Cardiopulmonary Bypass System for Aortic Surgery in Adult Congenital Heart DiseaseMasaaki Koide², Norihisa Kitamoto¹, Yoshifumi Kunii², Minoru Tateishi², Satoshi Okugi², Yuchen So², Risa Shinbori²

1) Seirei Hamamatsu General Hospital Department of Clinical Engineer,

2) Seirei Hamamatsu General Hospital Department of Cardiovascular Surgery

JP-5 Cardiopulmonary bypass technique for redo-Fontan or Fontan revisionTakeshi Shinkawa¹, Atsushi Kato², Yuki Nakayama¹, Ryogo Hoki¹, Hiroshi Niinami¹

Tokyo Women's Medical University, 1) Department of Cardiovascular Surgery, 2) Department of Clinical Engineering

Chairs: **Takaaki Suzuki** (Saitama Medical University International Medical Center)**Naritaka Kimura** (Keio University School of Medicine)**V-1 The double snare technique is a safe method for retrieval of atrial septal defect occluders**Yusuke Akazawa¹, Takashi Higaki^{2,3}, Takayuki Oku³, Toyohisa Miyata^{2,3}, Tomozou Moritani³, Toshiyuki Chisaka³,Hidemi Takata³, Hiroshi Sakamoto⁴, Jyunya Sugiura⁴, Shunji Uchita⁴, Mariko Eguchi³, Shuntaro Ikeda¹,Osamu Yamaguchi¹

1) Department of Cardiology, Pulmonology, Hypertension & Nephrology, Ehime University,

2) Department of Regional Pediatrics and Perinatology, Ehime University, 3) Department of Pediatrics, Ehime University,

4) Department of Cardiovascular and Thoracic Surgery, Ehime University

V-2 Repair of partial PA sling in combination with median sternotomy and left thoracotomy for a 16-year-old boyYoshie Ochiai¹

1) JCHO Kyushu Hospital, Department of Cardiovascular Surgery, 2) JCHO Kyushu Hospital, Department of Pediatrics

V-3 Aortic valve surgery in adult congenital heart disease

Shingo Kasahara, Tatsunori Tuji, Yutaka Yokota, Yasuyuki Kobayashi, Naoya Sakoda, Naohiro Horio, Takuya Goto, Takuya Kawabata, Yousuke Kuroko, Yasuhiro Kotani
Department of Cardiovascular Surgery, Okayama University

V-4 A case of Complex Mitral Repair for a Patient with Severe Mitral Regurgitation Late after Kay-Reed Repair

Masashi Komeda, Kenichi Kamiya
Iseikai Hospital, Cardiovascular Surgery dept

16:40 - 17:40

Featured Abstract Session 3

Japanese session

Coarctation of The aorta in The Adult: Initial operation and redo

Chairs: **Yoshikatsu Saiki** (Tohoku University)

Masashi Kabasawa (Chiba Cerebral and Cardiovascular Center)

FA-03-1 Clinical course and treatment of aortic coarctation of the Aorta in adults

Naoya Sakoda, Yousuke Kuroko, Yutaka Yokota, Tatsunori Tuji, Yasuyuki Kobayashi, Genya Muraoka, Naohiro Horio, Takuya Goto, Takanori Suezawa, Masanori Hirota, Takuya Kawabata, Yasuhiro Kotani, Shingo Kasahara
Okayama University Hospital, Cardiovascular Surgery dept.

FA-03-2 Surgical repair for Coarctation of the Aorta in adults

Yuya Miura, Kyokun Uehara, Hitoshi Matsuda, Jiro Matsuo, Yosuke Inoue, Takayuki Shijo, Yoshimasa Seike, Hiroaki Sasaki, Junjiro Kobayashi
Department of Cardiovascular Surgery, National Cerebral and Cardiovascular Center

FA-03-3 Experience of treatment of adult patients with coarctation of aorta

Masahide Chikada¹, Shota Kita¹, Takeshi Miyairi¹, Hiroshi Nishimaki¹, Kan Nawata¹, Makoto Ohno¹, Kiyoshi Chiba¹, Tokuchirou Nagata¹, Misa Kougo¹, Hirotoshi Suzuki¹, Kentaro Aso², Masanori Mizuno², Kenzo Sakurai², Marie Nakano²
St. Marianna University Hospital School of Medicine, 1) Department of Cardiovascular Surgery, 2) Department of Pediatrics

FA-03-4 Five cases of graft replacement surgery for coarctation of aorta in adolescents and adults

Keijiro Ibuki¹, Nariaki Miyao¹, Hideyuki Nakaoka¹, Sayaka Ozawa¹, Keichi Hirono¹, Daisuke Torizuka², Akihiko Higashida², Naoki Yoshimura²
1) Toyama University Hospital, Pediatrics dept, 2) Toyama University Hospital, Thoracic and Cardiovascular Surgery dept

FA-03-5 Reoperation for coarctation of the aorta after subclavian flap aortoplasty in adults.

Toshi Maeda¹, Kosuke Yoshizawa¹, Hisao Nagato¹, Takuya Kitada¹, Otohime Kato¹, Hirofumi Sato¹, Go Ueno¹, Nobuhisa Ohno¹, Kotaro Inaguma², Naoki Toyota², Haruko Ishihara², Hisanori Sakazaki²
Hyogo Prefectural Amagasaki General Medical Center, 1) Cardiovascular Surgery, 2) Pediatric Cardiology

8:10 - 9:00 **Oral Presentation 12**

Gynecological Problems for Women with ACHD

Chairs: **Hironobu Hyoudo** (Tokyo Metropolitan Bokutoh Hospital)
Atsushi Nakanishi (National Cerebral Cardiovascular Center Hospital)

OS-12-1 Menstrual Disorders is Associated with Elevated Central Venous Pressure and Predicts Adverse Clinical Events in Women with Congenital Heart Disease

Nao Konagai^{1,2}, Hideo Ohuchi¹, Kanae Noritake¹, Kimiko Nakajima¹, Toru Iwasa¹, Heima Sakaguchi¹, Isao Shiraishi¹, Kenichi Kurosaki¹

1) National Cerebral and Cardiovascular Center, Department of Pediatric Cardiology,
 2) Kumamoto University, Graduate School of Medical Sciences

OS-12-2 The adults with Ebstein disease and uterine cancer case needed combined modality therapy discovered in ascites

Satoshi Marutani, Nori Takada, Kosuke Nishi, Kazushi Ueshima, Noboru Inamura
 Department of Pediatrics Kindai University Faculty of Medicine

OS-12-3 A Case of Emergency Adnexectomy due to Severe Ovarian Haemorrhage during Anticoagulant Therapy in Remote Period from APC Fontan Operation

Yoshihiro Nagata, Kenji Kuraishi, Takaya Ohta, Eiki Nishihara
 Ogaki Municipal Hospital, Department Of Pediatric Cardiology and Neonatology

OS-12-4 A case report of uterine cancer with Fontan Circulation.

Yoshikatsu Takeda, Taichi Nakamura, Takekatsu Saito, Kunio Ota
 Department of Pediatrics, Kanazawa University.

9:10 - 10:10 **Oral Presentation 13**

Surgery for ACHD (2)

Chairs: **Toshihide Nakano** (Fukuoka Children's Hospital)
Yasutaka Hirata (The University of Tokyo Hospital)

OS-13-1 Tricuspid valve function after pulmonary valve replacement in patients with repaired tetralogy of Fallot

Shuichi Shiraishi, Ai Sugimoto, Takeru Kitahara, Masashi Takahashi, Masanori Tsuchida
 Niigata University Graduate School of Medical and Dental Sciences, Division of Thoracic and Cardiovascular Surgery

OS-13-2 Central PA plasty by using artificial graft in patients with adult congenital heart diseases.**OS-13-3 Warden's Procedure using Artificial Grafts for Adult Patients with Partial Anomalous Pulmonary Venous Return**

Yoshinori Miyahara, Suguru Tarui, Hideki Yamaguchi, Kouta Nagaoka, Takeshi Shimizu, Nobuo Oyama, Hisako Kakimoto, Takanari Fujii, Yoshihito Hata, Kojo Ishino, Hideshi Tomita
 Showa University Hospital, Pediatric Heart Disease and Adult Congenital Heart Disease Center

OS-13-4 Surgical experience and examination in childhood and adulthood in right aortic arch, Kommerell's diverticulum

Hayato Konishi¹⁾, Shintaro Nemoto¹⁾, Hideki Ozawa²⁾, Takahiro Katsumata²⁾, Atsuko Ashida³⁾, Yutaka Odanaka³⁾, Noriyasu Ozaki³⁾, Hiroshi Katayama³⁾, Kanta Kishi³⁾

Osaka Medical College Hospital, 1) Pediatric cardiovascular surgery, 2) Cardiovascular surgery, 3) Pediatrics

OS-13-5 Minimally invasive endoscopic surgery for atrial septal defects in adults.

Suguru Amagaya, Kazuaki Shiratori, Yasuyuki Toyoda, Gentaku Hama, Hirokazu Nitu

Saku central hospital advanced care center, dept. of Cardiovascular surgery

10:15 - 11:05 **Oral Presentation 14**

Interventional Cardiology in ACHD

Chairs: **Toshiki Kobayashi** (Saitama Medical University International Medical Center)

Satoshi Yazaki (Sakakibara Heart Institute)

OS-14-1 Assessment of cardiac function after transcatheter atrial septum defect closure: Quantification by cardiac magnetic resonance

Hiroyuki Tokiwa¹⁾, Toshiro Inaba¹⁾, Akihito Saito¹⁾, Katsura Soma¹⁾, Masae Uehara¹⁾, Atsushi Yao²⁾, Issei Komuro¹⁾

1) Department of Cardiovascular Medicine, The University of Tokyo Hospital, 2) Division for Health Service Promotion, The University of Tokyo

OS-14-2 Thoracic endvascular aortic repair for thoracic artery aneurysm in patients after patent ductus aneurysm closure in elderly.

Yasuyuki Toyoda, Kazuaki Shiratori, Gentaku Hama, Hirokazu Niitsu, Suguru Amagaya

Saku central hospital Advanced care center Department of Cardiovascular Surgery

OS-14-3 A case of peripheral pulmonary stenosis treated by PALMAZ stent implantation

Naohiko Nakanishi, Hideo Tsubata, Masao Takigami, Noriyuki Wakana, Kenji Yanishi, Kan Zen, Takeshi Nakamura, Tetsuhiro Yamano, Hirokazu Shiraishi, Takeshi Shirayama, Satoaki Matoba

Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine

OS-14-4 Two cases of young adults with the right ventricular outflow tract obstruction after Ross operation who could avoid reoperation by aggressive catheter interventions

Hiroki Ezaki, Matsuoka Ryohei, Hirohito Doi, Yuichirou Sugitani, Mamie Watanabe, Jun Muneuchi

Department of Pediatrics, Japan Community Healthcare Organization Kyushu Hospital

11:05 - 11:55 **Oral Presentation 15**

Rare diseases/ Case presentation

Chairs: **Manatomo Toyono** (Akita University Graduate School of Medicine)

Kentaro Aso (St.Marianna University School of Medicine)

OS-15-1 A case of isolated right ventricular hypoplasia with right chronic heart failure.

Keiichi Hirono¹⁾, Keijiro Ibuki¹⁾, Sayaka Ozawa¹⁾, Naoki Yoshimura²⁾, Fukiko Ichida³⁾, Tadakazu Hirai⁴⁾

1) Department of Pediatrics and 2) First Surgery, Toyama University Hospital,

3) Department of Pediatrics, International University of Health and Welfare, 4) Internal Medicine, Fujikoshi Hospital

OS-15-2 A case of young adult woman after Fontan operation who developed Takotsubo cardiomyopathy

Haruka Obinata, Kiyohiro Takigiku, Yuriko Yamada, Masato Masamoto, Ryouusuke Numata, Kousuke Yonehara,

Satoshi Koyama, Noboru Tanaka, Kouta Takei, Satoshi Yasukouchi

Nagano Children's Hospital, Department of Pediatric Cardiology

OS-15-3 A case of anatomically corrected transposition of the great arteries diagnosed for the first time at 88 years of age

Kohei Osakada¹, Sachiyo Ono¹, Masanobu Ohya¹, Kazutoshi Sato², Kayo Ogino², Tomohiro Hayashi², Yasushi Fuku¹, Hiroshi Nasu³, Kenji Waki², Kazushige Kadota¹, Yoshio Arakaki²

Kurashiki Central Hospital, 1) Department of Cardiology, 2) Department of Pediatrics, 3) Tottori Prefectureal Central Hospital, Department of Cardiology

OS-15-4 Histologic analysis of the atrioventricular conduction system in an autopsy case of congenital corrected transposition great artery after Rastelli procedure.

Taka-Aki Matsuyama¹, Yohsuke Makino², Hirotarō Iwase², Hatsue Ishibashi-Ueda³, Masahiro Misawa⁴

1) Showa University, Dept. of Legal Medicine, 2) The University of Tokyo, 3) National Cerebral and Cardiovascular Center, 4) Tokyo Metropolitan Bokutoh Hospital

12:05 - 12:55 Luncheon Seminar 9

Chair: **Morio Shoda** (Tokyo Women's Medical University Hospital)

Speakers: **Keiko Toyohara** (Tokyo Women's Medical University Hospital)

Hitoshi Mori (Saitama Medical University International Medical Center)

Co-sponsored: **Boston Scientific Japan K.K.**

LS-9 RE: RHYTHMIA™ Mapping System

13:30 - 14:45 International Oral Session 1

English Session

Chairs: **Eun-Jung Bae** (Seoul National University Children's Hospital)

Aya Miyazaki (Shizuoka Children's Hospital)

IS-01-1 Recent Issues in ACHD : Focused on Treatment Decision

Lucy Youngmin Eun, MD, PhD

Pediatric Cardiology, Yonsei University Severance Hospital, Seoul, Korea

IS-01-2 Impact of Atrial Fibrillation on Survival in Adults with Congenital Heart Disease

Shin Yi Jang, RN, PhD¹, June Huh, MD, PhD², EunKyoung Kim, MD, PhD¹, Sung-A Chang, MD, PhD¹, Jinyoung Song, MD, PhD², I-Seok Kang, MD², Seung Woo Park, MD, PhD¹

1) Division of Cardiology, Department of Medicine, Heart Vascular Stroke Institute, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea,

2) Department of Pediatrics, Heart Vascular Stroke Institute, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

IS-01-3 Catheter ablation in Fontan patients

Nobuhiro Nishii¹, Yoshimasa Morimoto², Tomonari Kimura², Masakazu Miyamoto², Norihisa Toh², Koji Nakagawa², Atsuyuki Watanabe², Hiroshi Morita¹, Hiroshi Ito², Hirosuke Shigemitsu³, Takahiro Eitoku³, Kenji Baba³, Shingo Kasahara⁴

1) Department of Cardiovascular Therapeutics, 2) Department of Cardiovascular Medicine, 3) Department of Pediatric Cardiology,

4) Department of Cardiovascular Surgery, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences

IS-01-4 Usefulness of Magnetic Navigation System for Management of Arrhythmia in Adult Congenital Heart Disease

Katsunori Okajima¹, Takeaki Shirai¹, Tomoyuki Nakanishi¹, Yuichi Nagamatsu¹, Shogo Yonehara¹, Akane Kajiura¹, Yusuke Nakanishi¹, Hiroyuki Fujii¹, Yasushi Ichikawa¹, Masanaga Tsujimoto¹, Hiroyuki Shimoura¹, Yuya Terao¹, Akihiro Kaneko¹, Hajime Nakaoka¹, Yasuhiro Kaetsu¹, Hiroaki Nakamura¹, Rio Shiraki¹, Yuka Honda¹, Makoto Kadotani¹, Ayako Maruo², Yuichi Ishikawa¹, Yoshio Onishi¹

1) Department of Cardiology, Kakogawa Central City Hospital, 2) Department of Cardiovascular Surgery, Kakogawa Central City Hospital

**IS-01-5 A Novel Restoration of the Left Ventricle for Idiopathic Dilated Cardiomyopathy
--- Focusing on Its Effects for Ventricular Tachycardia**

Masashi Komeda, Kenichi Kamiya
Iseikai Hospital, Cardiovascular Surgery dept

14:45 - 15:45

International Oral Session 2

English Session

Innovation in Diagnostic Imaging

Chairs: **Lucy Y Eun** (Yonsei University Severance Hospital)

Hideaki Senzaki (Kitasato University School of Medicine)

**IS-02-1 The comparison between good Fontan circulation and one and a half ventricle repair
~based on the hemodynamic data collected sequentially in a consistent manner~**

Yuichi Ishikawa
Fukuoka Children's Hospital

**IS-02-2 Clinical impact of cardiac computed-tomography-derived three-dimensional strain for adult
congenital heart disease**

Yumi Shiina¹, Kei Inai², Tatsunori Takahashi³, Yamato Shimomiya⁴, Michinobu Nagao⁵

1) St. Luke International Hospital, Department of Cardiology,

2) Department of Adult Congenital Heart Disease and Pediatric Cardiology, Tokyo Women's Medical University,

3) Department of Pediatrics, Yamagata University, 4) Clinical Application Development Group, Marketing Division, Ziosoft Inc,

5) Department of Diagnostic imaging & Nuclear Medicine, Tokyo Women's Medical University

**IS-02-3 Usefulness of non-contrast-enhanced angiography imaging for congenital heart disease by SSFP
radial scan**

Akio Inage¹, kanako Kishiki¹, Naokazu Mizuno², Yoshichika Maeda¹, Takumi Kobayashi¹, Yuuji Hamamichi¹,
Tomomi Ueda¹, Satoshi Yazaki¹, Tadahiro Yoshikawa¹

1) Sakakibara Heart Institute, Pediatric Cardiology dept., 2) Sakakibara Heart Institute, Radiology dept.

**IS-02-4 Atrioventricular conduction pathway in the hearts with right isomerism of the atrial appendages
by Synchrotron Radiation-based Phase-Contrast Computed Tomography (PCCT)**

Gen Shinohara, Kiyozo Morita, Yoshimasa Uno
Department of Cardiac Surgery, The Jikei University School of Medicine.

15:45 - 17:00

Oral Presentation 16

Multi-Organ Complications

Chairs: **Yasutaka Kawasoe** (Chiba Cerebral and Cardiovascular Center)

Mamie Watanabe (JCHO Kyushu Hospital)

OS-16-1 The man whom spinal epidural hematoma developed in after aortic valve replacement

Toshinobu Ifuku
Miyazaki Prefectural Hospital Pediatric Dept.

**OS-16-2 Acute cerebral infarction during treatment of life-threatening recurrent hemoptysis in an adult
patient with Fontan circulation**

Toshikatsu Tanaka, Yasunobu Miki, Syou Horiguchi, Ken Hayashi, Shingo Kubo, Michio Matsuoka, Naoya Kamei,
Yasuharu Ogawa, Kenta Tomonaga, Sachiko Kido
Kobe Children's Hospital Department of Cardiology

OS-16-3 Subcutaneous injection of Heparin for the artificial valve in Ebstein disease and skin ulcer as postoperative anticoagulation

Yoshimasa Uno, Kiyozo Morita, Gen Shinohara, Takasi Kunihara
Department of Cardiacsurgery, The Jikei University School of Medicine

OS-16-4 An adult case with PAH of dTGA after Mustard operation ~irreversible hepatic failure~

Shin Takahashi¹⁾, Yurie Takizawa¹⁾, Satoshi Nakano¹⁾, Hirofumi Saiki¹⁾, Hironobu Ueda²⁾, Junich Koizumi³⁾, Kotaro Oyama¹⁾
Iwate Medical University School of Medicine, 1) Department of Pediatric Cardiology, 2) Cardiology, 3) Cardiovascular Surgery

OS-16-5 Usefulness of ¹⁸F-FDG-PET/CT in patients with adult congenital heart disease

Ayako Ishikita¹⁾, Ichiro Sakamoto¹⁾, Shintaro Umemoto¹⁾, Hazumu Nagata²⁾, Kenichiro Yamamura²⁾, Hideki Tatewaki³⁾, Akira Shiose³⁾, Hiroyuki Tsutsui¹⁾
1) Kyushu University Hospital Department of Cardiovascular Medicine, 2) Kyushu University Hospital Department of Pediatrics, 3) Kyushu University Hospital Department of Cardiovascular Surgery

OS-16-6 A case of cerebral infarction occurred in mid-term after pulmonary valve replacement for tetralogy of Fallot

Toru Iwasa¹⁾, Nao Konagai¹⁾, Dai Suzuki¹⁾, Hikari Miike¹⁾, Kimiko Nakajima¹⁾, Heima Sakaguchi¹⁾, Hideo Ohuchi¹⁾, Isao Shiraishi¹⁾, Ken-ichi Kurosaki¹⁾, Hajime Ichikawa²⁾
1) National Cerebral and Cardiovascular Center, Department of Pediatric Cardiology, 2) National Cerebral and Cardiovascular Center, Department of pediatric cardiovascular surgery

January 19 (Sunday)

Auditorium 4 [4F Canelian]

8:00 - 9:15

Featured Abstract Session 2

Japanese session

Cardiac Rehabilitation for ACHD

Chairs: **Hiroshi Ono** (National Center for Child Health and Development)
Takeaki Shirai (Kakogawa Central City Hospital)

FA-02-1 The assessment of extracardiac function in Fontan patients is important for the amelioration of long-term QOL

Yuichirou Sugitani¹⁾, Jun Muneuchi¹⁾, Masaki Ezaki¹⁾, Ryouhei Matsuoka¹⁾, Masato Doi¹⁾, Mamie Watanabe¹⁾, Yoshie Ochiai²⁾
1) Department of Pediatrics, Japan Community Healthcare Organization Kyushu Hospital, Department of Pediatrics, 2) Department of Cardiovascular Surgery, Japan Community Healthcare Organization Kyushu Hospital

FA-02-2 Sarcopenia in ACHD: skeletal muscle assessed by CT and heart failure

Yumi Shiina¹⁾, Michinobu Nagao²⁾, Yamato Shimomiya³⁾, Kei Inai²⁾
1) St. Luke International Hospital, Department of Cardiology, 2) Department of Adult Congenital Heart Disease and Pediatric Cardiology, Tokyo Women's Medical University, 3) Department of Diagnostic imaging & Nuclear Medicine, Tokyo Women's Medical University, 4) Clinical Application Development Group, Marketing Division, Ziosoft Inc

FA-02-3 Current status and issues of cardiac rehabilitation for adult congenial heart disease

Sihngo Ohnishi¹⁾, Ayako Maruo²⁾, Takeaki Shirai³⁾, Yasuhiro Kaetsu³⁾, Akihiro Kaneko³⁾, Kazuko Ohnishi¹⁾, Kensaku Kawasaki¹⁾, Yoshihiro Miyaji¹⁾, Takamoto Yagi¹⁾, Kazue Tomita⁴⁾
1) Kakogawa Central City Hospital, Rehabilitation dept, 2) Kakogawa Central City Hospital, Cardiovascular Medicine dept, 3) Kakogawa Central City Hospital, Cardiovascular Surgery dept, 4) Kakogawa Central City Hospital, Nursing dept

FA-02-4 Cardiac rehabilitation using cardiopulmonary exercise test for adult congenital heart disease patients

Emi Maekawa¹⁾, Toshimi Koitabashi¹⁾, Teppei Fujita¹⁾, Takafumi Ichikawa²⁾, Kouhei Nozaki²⁾, Nobuaki Hamazaki²⁾, KeikoRyo-Koriyama¹⁾, Junya Ako¹⁾

1) Kitasato University School of Medicine, Cardiovascular Medicine, 2) Kitasato University Hospital, Department of Rehabilitation

FA-02-5 A case of return to work due to cardiac rehabilitation

Takatsugu Kubo¹⁾, Jun Sato²⁾, Kimihiro Yoshii²⁾, Atsuko Kato²⁾, Shuichiro Yoshida²⁾, Hiroshi Nishikawa²⁾, Naoki Ohashi²⁾

1) JCHO Chukyo Hospital, Rehabilitation Center, 2) JCHO Chukyo Hospital, Pediatric Cardiology

FA-02-6 A case of cardiac rehabilitation introduced in remote stage after Fontan surgery

Kazuko Ohnishi¹⁾, Yasuhiro Kaetsu²⁾, Akihiro Kaneko²⁾, Takeaki Shirai²⁾, Ayako Maruo³⁾, Shingo Ohnishi¹⁾, Kensaku Kawasaki¹⁾, Kazue Tomita⁴⁾

1) Kakogawa Central City Hospital, Rehabilitation dept, 2) Kakogawa Central City Hospital, Cardiovascular Medicine dept, 3) Kakogawa Central City Hospital, Cardiovascular Surgery dept, 4) Kakogawa Central City Hospital, Nursing dept

9:30 - 10:18 Nursing / multi-professional Session 1

Pregnancy and Delivery

Chairs: **Mai Motosue** (Tokyo Women's Medical University Hospital)

Mayumi Morisaki (The University of Tokyo)

NM-01-1 Cognitive survey on pregnancy and childbirth in female patients with adult congenital heart disease

Atsuko Morisada¹⁾, Tsuzumi Takada¹⁾, Hikaru Kiyokawa²⁾, Masanobu Ohya³⁾, Yasushi Fuku³⁾, Kenji Waki⁴⁾, Yoshio Arakaki⁴⁾

1) Dept. of Nursing, 2) Dept. of Obstetrics and gynecology, 3) Dept. of Cardiology, 4) Dept. of Pediatrics, Kurashiki Central Hospital

NM-01-2 Edinburgh Postnatal Depression Scale (EPDS)

Mutsuko Fukuma

Sakakibara Heart Institute, Nursing Department

NM-01-3 Multidisciplinary approach for a pregnant woman with transposition of the great arteries after Senning repair and dissociative identity disorder

Norimichi Koitabashi³⁾, Maki Inoue¹⁾, Yumiko Takahashi²⁾, Takashi Kameda¹⁾, Akira Iwase¹⁾, Masahiko Kurabayashi³⁾

1) Department of Obstetrics and Gynecology, 2) Department of Psychiatry and Neuroscience,

3) Department of Cardiovascular Medicine, Gunma University Graduate School of Medicine

NM-01-4 One case of nurse education for pregnant in woman with congenital heart disease

Keiko Sugibuchi¹⁾, Satoko Sato¹⁾, Yoko Suzuki¹⁾, Aoi Ikarashi¹⁾, Chiharu Nakajima¹⁾, Yumi Shiina²⁾, Koichiro Niwa²⁾

1) St Luke's Hospital Nursing dept, 2) St Luke's Hospital Cardiovascular Medicine dept

10:20 - 11:08 Nursing / multi-professional Session 2

ACHD Medical Care system

Chairs: **Keiko Yamazaki** (KYUSHU UNIVERSITY)

Yukie Ohtsu (Saitama Medical Center)

NM-02-1 Medical care system and duties of nurse for ACHD patients at A hospital.

Sayuki Koide, Miho Nakai, Miho Takeda

Ehime University Hospital, PHCU

NM-02-2 Current status of our hospital on cardiac MRI of adult patients with congenital heart disease

Yasuharu Tanaka¹⁾, Yasuo Nakama¹⁾, Takeaki Shirai²⁾, Akihiro Kaneko²⁾

1) The Department of Radiology, Kakogawa Central City Hospital,

2) The Department of Cardiovascular Medicine, Kakogawa Central City Hospital

NM-02-3 An attempt adult congenital heart disease patients' network event hosted by Hospital A

Tamami Iori, Tomoko Aoki, Fujiyo Miwa

Fukuoka Children's hospital Nursing Dept

NM-02-4 Developing and practical using a learning support guide for 22q11.2DS

Chiaki Kitamura¹⁾, Satoshi Yasukouchi²⁾, Junko Enomoto³⁾, Ryu Inomata⁴⁾

1) Seisen Jogakuin College, 2) Nagano Children's Hospital, 3) Toyo University, 4) NPO for Family and Baby Wellness

11:10 - 11:50

Nursing / multi-professional Session 3

Supports for Decision Making Process

Chairs: **Takeaki Shirai** (KAKOGAWA CITY HOSPITAL)

Michiru Sasagawa (National Cerebral and Cardiovascular Center)

NM-03-1 The intervention of Certified Nurse Specialist in Psychiatric Mental Health Nursing for a specific patient who has difficulty in self-feedback on emotions.

Kanae Narui

Sakakibara Heart Institute, Nursing Department, Graduate School of Health Sciences Kumamoto University, Doctoral Course

NM-03-2 Decision-Making and Role of Nursing care in a Patient with Eisenmenger Syndrome associated with End-Stage Heart Failure

Ayami Gonnokami¹⁾

1) Sakakibara Heart Institute, Nursing Department, 2) Sakakibara Heart Institute, Pediatric Cardiology

NM-03-3 An adult patient in the terminal phase of single ventricle after EC-TCPC palliation

Yasumasa Tsukamoto¹⁾, Tomoaki Nakano¹⁾, Jun Narita²⁾, Isamu Mizote¹⁾, Tomohito Ohtani¹⁾, Takayoshi Ueno³⁾, Shungo Hikoso¹⁾, Yasushi Sakata¹⁾

Department of 1) Cardiovascular Medicine, 2) Pediatrics, 3) Cardiovascular Surgery, Osaka University Graduate school of Medicine

Hybrid Poster Session Program

January 17 (Friday) 17:00 - 18:00

Hybrid Poster

Mini-Oral 1

[3F Room 2]

Management of Arrhythmia in ACHD

Chair: **Tsugutoshi Suzuki** (Osaka City General Hospital)

HP-01-1 An adult case of successful high-frequency catheter ablation therapy combined with oral amiodarone for diverse supraventricular tachycardia long-term after Fontan surgery.

Masaki Ikeda¹⁾, Seki Syunji¹⁾, Tokunaga Masatomo¹⁾, Nishibatake Makoto¹⁾, Keiko Toyohara²⁾

1) Kagoshima Seikyo Hospital, 2) Tokyo Women's Medical University

HP-01-2 Catheter Ablation of Atrial Fibrillation in a patient with Double-outlet Right Ventricle after a Fontan Operation

Susumu Takase¹⁾, Kazuo Sakamoto¹⁾, Sintaro Umemoto¹⁾, Ayako Ishikita¹⁾, Hazumu Nagata²⁾, Ichiro Sakamoto¹⁾, Hiroyuki Tsutsui¹⁾

1) Kyushu University Hospital, Cardiovascular Medicine, 2) Kyushu University Hospital, Pediatrics

HP-01-3 Thoracoscopy-to-catheter hybrid treatment for persistent atrial fibrillation with residual shunt after direct surgical closure of atrial septal defect.

Ken Kato²⁾, Toshiya Ohtsuka¹⁾, Haruka Okabe²⁾, Shinichiro Sakurai²⁾, Takuro Sekine²⁾, Risa Ogawa²⁾, Eri Yamamoto²⁾, Yoshimitsu Otsuka²⁾, Tomonori Miyabe²⁾, Kansuke Ito²⁾, Yoshihiro Nishimura²⁾, Hiroaki Morinaga²⁾, Yuya Mitsuhashi²⁾, Hiroyuki Tanaka²⁾, Tamotsu Tejima²⁾

1) Tokyo Metropolitan Tama Medical Center, Department of Cardiovascular Surgery,

2) Tokyo Metropolitan Tama Medical Center, Department of Cardiology

HP-01-4 Utility of CARTO3 ver.6 "Early Meets Late line" for Catheter Ablation of Atrial Tachycardia after Surgical Atrial Septal Defect Closure

Kengo Korai, Kenichi Hiroshima, Kenji Ando

Kokura Memorial Hospital, Department of Cardiology

HP-01-5 A case of inappropriate sinus tachycardia after heart transplant; the effect of digitalis

Hidetaka Teshima

Omura Municipal Hospital, Dept. Pediatrics

HP-01-6 Left alveolar hemorrhage during pacemaker implantation surgery in tetralogy of Fallot with left pulmonary artery aplasia

Tomoaki Nakano, Yasumasa Tsukamoto, Hitoshi Minamiguchi, Kentaro Ozu, Isamu Mizote, Tomohito Ohtani, Hiroya Mizuno, Shungo Hikoso, Yasushi Sakata

Osaka University Graduate School of Medicine, Department of Cardiovascular Medicine

Medical Care System/ High-risk Pregnancy

Chair: Masako Fujiwara (Machida Municipal Hospital)

HP-02-1 Assessment of medical indication for epidural delivery in maternal heart disease casesYoshiki Maeda
Obstetrics and Gynecology Dept., Sakakibara Heart Institute**HP-02-2 A case of pregnancy in a woman with mosaic Turner syndrome**Hironobu Hyodo, Erisa Kuriyama, Saho Fujino, Kanami Iwasa, Fusako Sue, Chikako Hikosaka, Midori Funakura, Shinya Imada, Koji Kugu
Department of Obstetrics and Gynecology, Tokyo Metropolitan Bokutoh Hospital**HP-02-3 A case of acute infectious endocarditis and cardiac failure that needed mitral valve replacement at early in pregnancy**Shinji Katsuragi¹⁾, Masahito Nakao¹⁾, Haruka Fujimaki²⁾, Yuko Furuichi³⁾, Atsushi Shimizu⁴⁾, Hitoshi Kasegawa⁵⁾
Sakakibar Heart Institute, 1) Department of Obstetrics and Gynecology, 2) Department of Cardiology, 3) Department of Anesthesiology, 4) Department of Cardiovascular Surgery**HP-02-4 Two adult cases with congenital heart disease in whom the transition was not ready until the pregnancy**Atsuko Ashida¹⁾, Hiroshi Katayama¹⁾, Yutaka Odanaka¹⁾, Noriyasu Ozaki¹⁾, Kanta Kishi¹⁾, Yuka Sakatani²⁾, Masaaki Hoshiga²⁾, Atsushi Daimon³⁾, Yoko Nagayasu²⁾, Daisuke Fujita³⁾, Akira Ashida¹⁾
1) Osaka Medical College Hospital Department of Pediatrics, 2) Osaka Medical College Hospital Department of Cardiology, 3) Osaka Medical College Hospital Department of Obstetrics and Gynecology**HP-02-5 Who should be an attendant of the adult congenital heart disease medical treatment? – Pediatrician should be the gatekeeper –**Tomoyuki Miyamoto, Yosinori Murashima, Ari Iwaoka, Mitsuaki Sato
Yokosuka General Hospital Uwamachi, Children's Medical Center, Department of Pediatrics**HP-02-6 To construct a proper out-patient clinic for the patient with post-surgical repair of TOF**Kazuyuki Daitoku, Ryosuke Kowatari, Ikuo Fukuda
Hirosaki university graduate school of medicine, Department of thoracic and cardiovascular surgery

Surgery (1)

Chair: Takashi Miyamoto (Kitasato Medical School of Medicine)

HP-03-1 Impending rupture of pulmonary artery conduit 22 years after TOF repair with xenograft valved pericardial roll.Renta Ishikawa¹⁾, Takeshi Konuma¹⁾, Takato Yamasaki¹⁾, Ayano Futsuki¹⁾, Naoki Yamamoto¹⁾, Hisato Ito¹⁾, Koji Hirano¹⁾, Yu Shomura¹⁾, Motoshi Takao¹⁾, Hideto Shimpo²⁾, Yosuke Okumura³⁾, Tomohiro Hasegawa³⁾, Kazunobu Ohya³⁾, Noriko Yodoya³⁾, Hiroyuki Ohashi³⁾, Hirofumi Sawada³⁾, Yoshihide Mitani³⁾, Yoshito Ogihara⁴⁾
1) Mie university hospital, department of thoracic and cardiovascular surgery, 2) Mie prefectural general medical center, 3) Mie university hospital, department of pediatrics, 4) Mie university hospital, department of Cardiology and Nephrology

HP-03-2 Conduit replacement for an adult patient with corrected transposition of the great arteries after Rastelli procedure: a case report

Takashi Sasaki, Masafumi Shibata, Yasuhiro Kawase, Jiro Kurita, Yusuke Motoji, Ryosuke Amitani, Hitomi Ueda, Ken-ichiro Takahashi, Motoko Morishima, Kenji Suzuki, Yasuo Miyagi, Syun-ichiro Sakamoto, Yosuke Ishii, Teturo, Morota, Takashi Nitta

Nippon Medical School, Department of Cardiovascular Surgery

HP-03-3 A case of PVR with INSPIRIS RESILIA valve for repaired TOF

Hiroyuki Morishita¹⁾, Masahiko Ezure¹⁾, Yutaka Hasegawa¹⁾, Yasuyuki Yamada¹⁾, Joji Hoshino¹⁾, Shuichi Okada¹⁾, Yuta Kanazawa¹⁾, Toru Kaga¹⁾, Eiji Yamashita²⁾, Jun Murakami²⁾, Takashi Miyamoto³⁾

1) Division of Cardiovascular Surgery, Gunma Prefectural Cardiovascular Center,

2) Department of Cardiology, Gunma Prefectural Cardiovascular Center,

3) Department of Cardiovascular Surgery, Kitasato University School of Medicine

HP-03-4 A case report of technical ingenuity for severe calcified residual VSD reclosure because of right ventricle failure postoperative 50 years from Tetralogy of Fallot repair.

Takato Yamasaki¹⁾, Takeshi Konuma¹⁾, Renta Ishikawa¹⁾, Ayano Futsuki¹⁾, Naoki Yamamoto¹⁾, Hisato Ito¹⁾, Koji Hirano¹⁾, Yu Syomura¹⁾, Motoshi Takao¹⁾, Hideto Shinpo²⁾, Yosuke Okumura³⁾, Tomohiro Hasegawa³⁾, Kazunobu Oya³⁾, Noriko Yodoya³⁾, Hiroyuki Ohashi³⁾, Hrohumi Sawada³⁾, Yoshihide Mitani³⁾, Yoshito Ogihara⁴⁾

1) Mie university hospital, department of Thoracic and Cardiovascular Surgery, 2) Mie prefectural general medical center,

3) Mie university hospital, department of pediatrics, 4) Mie university hospital, department of cardiology and Nephrology

HP-03-5 Use of 3D printed heart model for a case of Bentall operation after double switch operation

Shuhei Sakaguchi, Koji Furukawa, Hirohito Ishii, Kosuke Mori, Ayaka Iwasaki, Kenichiro Tomari, Kunihide Nakamura
University of MIYAZAKI Hospital, Department of Cardiovascular Surgery

HP-03-6 Bentall procedure, hemiarch replacement, right pulmonary artery plasty and right ventricular outflow reconstruction for an adult male 15 years after initial truncus arteriosus repair

Shigeaki Kaga¹⁾, Hiroyuki Nakajima¹⁾, Yoshihiro Honda¹⁾, Shoji Suzuki¹⁾, Yukiyo Yoshida¹⁾, Koshi Kawago¹⁾, Satoru Shiraiwa¹⁾, Kenji Sakakibara¹⁾, Takako Toda²⁾, Hiroaki Kise²⁾, Yosuke Kohno²⁾, Masashi Yoshizawa²⁾, Yuto Sunaga²⁾

1) University of Yamanashi Hospital, Department of Surgery, 2) University of Yamanashi Hospital, Department of Pediatrics

January 18 (Saturday) 13:10 - 14:10

Hybrid Poster

Mini-Oral 4

[3F Room 2]

Intervention in ACHD

Chair: **Kenji Hoshino** (Saitama Children's Medical Center)

HP-04-1 Transcatheter closure for patent ductus arteriosus in adults at our hospital

Naoki Kuwabara¹⁾, Tanaka Hideto¹⁾, Terazawa Atsushi¹⁾, Yamamoto Tetsuya^{1,2)}, Goto Hiroko¹⁾, Kuwahara Takashi¹⁾, Iwata Yusuke^{2,3)}, Yoshizane Takashi^{2,4)}, Noda Toshiyuki⁴⁾, Takahashi Kazuhiro⁵⁾

1) Department of Pediatric Cardiology, Children's Medical Center, Gifu Prefectural General Medical Center dept,

2) Department of ACHD, Gifu Prefectural General Medical dept,

3) Department of Pediatric Cardiac Surgery, Children's Medical Center, Gifu Prefectural General Medical Center dept,

4) Department of Cardiology, Gifu Prefectural General Medical Center dept, 5) Department of Pediatrics, Kizawa memorial hospital dept

HP-04-2 Simulation-based Transcatheter Closure of elongated Krichenko Type E Patent Ductus arteriosus with Amplatzer Duct Occluder II

Mitsuru Seki¹⁾, Koichi Kataoka^{1,2)}, Shun Suzuki¹⁾, Sadahiro Suzuki¹⁾, Akiko Yokomizo¹⁾, Tomoyuki Sato¹⁾,
Takanori Yamagata¹⁾, Tomoyuki Kabutoya³⁾, Yasushi Imai³⁾, Masaaki Kawada^{2,4)}

1) Department of Pediatrics, Jichi Children's Medical Center Tochigi, 2) Adult Congenital Heart Disease, Jichi Medical University,

3) Department of Cardiovascular Medicine, Jichi Medical University,

4) Department of Pediatric and Congenital Cardiovascular Surgery, Jichi Children's Medical Center Tochigi

HP-04-3 Successful percutaneous patent ductus arteriosus closure in a patient with decompensate heart failure after infective endocarditis

Kohei Masaki¹⁾, Ichiro Sakamoto¹⁾, Ayako Ishikita¹⁾, Shintaro Umemoto¹⁾, Hazumu Nagata²⁾, Kenichiro Yamamura²⁾,
Hiroyuki Tsutsui¹⁾

1) Kyushu University Hospital, Department of Cardiovascular Medicine, 2) Kyushu University Hospital, Department of Pediatrics

HP-04-4 Changes in pulse wave before and after catheter occlusion of patent ductus arteriosus

Tomoyuki Kabutoya¹⁾, Yasushi Imai²⁾, Shun Suzuki³⁾, Sadahiro Furu³⁾, Tomoyuki Sato³⁾, Mitsuru Seki³⁾, Koichi Kataoka⁴⁾,
Shinya Ugaki⁴⁾, Ko Yoshizumi⁴⁾, Masaaki Kawada⁴⁾

1) Division of Cardiovascular Medicine, Department of Medicine, ACHD center, Jichi Medical University School of Medicine,

2) Division of Cardiovascular Medicine, Department of Medicine, Jichi Medical University School of Medicine,

3) Department of Pediatrics, Jichi Medical University School of Medicine,

4) Division of Pediatric and Congenital Cardiovascular Surgery, Jichi Medical University School of Medicine.

HP-04-5 A case of embolization for splenorenal shunt after Fontan using Amplatzer Vascular Plug II

Sachie Kaneko, Nao Inoue, Yasumi Nakajima

Seirei Hamamatsu General Hospital, pediatric cardiology

HP-04-6 Successful transcatheter closure of a coronary arterio-right ventricular fistula in a patient with repaired pulmonary atresia and ventricular septal defect

Ayako Ishikita¹⁾, Ichiro Sakamoto¹⁾, Toyokazu Uwatoku¹⁾, Shintaro Umemoto¹⁾, Hazumu Nagata²⁾, Kenichiro Yamamura²⁾,
Yasushi Mukai¹⁾, Hiroyuki Tsutsui¹⁾

1) Kyushu University Hospital Department of Cardiovascular Medicine, 2) Kyushu University Hospital Department of Pediatrics

Mini-Oral 5

[3F Room 3]

Prognosis/Pulmonary Arterial Hypertension

Chair: **Eriko Shimada** (Tokyo Women's Medical University)

HP-05-1 The risks that lead to exercise intolerance functions in Fontan survivors.

Misugi Emi, Jun Narita, Chika Yoshihara, Ryo Ishii, Hidekazu Ishida, Keiichi Ozono

Department of Pediatrics, Osaka University Graduate school of Medicine

HP-05-2 Causes of death and problems in adult congenital heart disease, past 18 years in our hospital.

Masayoshi Mori, Hisaaki Aoki, Kazuhisa Hashimoto, Masaki Hirose, Kumiyo Matsuo, Yasuhiro Hirano, Youichirou Ishii,
Kunihiko Takahashi, Futoshi Kayatani

Osaka Women's and Children's Hospital

HP-05-3 Analysis of Urinary biomarkers in adult patients with congenital heart disease.

Yuko Wakisaka, Kei Inai, Masaki Sato, Gen Harada, Seiji Asagai, Eriko Shimada, Hisashi Sugiyama

Tokyo Women's Medical University, Department of Pediatric Cardiology

HP-05-4 A Case of Ventricular Septal Defect with Pulmonary Arterial Hypertension Undergoing Treat and Repair Strategy

Anna Kanai¹⁾, Norimichi Koitabashi¹⁾, Takashi Nagasaka¹⁾, Noriaki Takama¹⁾, Satoshi Akagi²⁾, Shingo Kasahara³⁾, Katsura Soma⁴⁾, Atsushi Yao⁴⁾, Masahiko Kurabayashi¹⁾

1) Dept of Cardiovascular Medicine, Gunma University Graduate School of Medicine, 2) Dept of Cardiovascular Medicine, 3) Dept of Cardiovascular Surgery, Okayama University, 4) Dept of Cardiovascular Medicine, The University of Tokyo Hospital

HP-05-5 A case of PDA with severe PH that was effective with initial combination therapy of pulmonary vasodilators

Hideki Saito³⁾, Nao Inoue¹⁾, Minori Tateishi²⁾, Kaneko Sachie¹⁾, Yasumi Nakashima¹⁾, Ryo Sugiura³⁾, Masaaki Koide²⁾, Toshiaki OKA³⁾

Seirei Hamamatsu General Hospital, 1) Pediatric Cardiology dept., 2) Cardiovascular surgery sept., 3) Cardiology dept.

HP-05-6 Significance of combined ventricular septal defect in the clinical course of a 39-year-old male with the ratio of the pulmonary to systemic flow is 1.0

Teruyoshi Shimoyama, Ayako Nagashima, Yohei Yamaguchi, Taku Ishii, Susumu Hosokawa, Syozaburo Doi
Tokyo Medical Dental University department of pediatric

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Surgery (2)

Chair: **Shuichi Shiraishi** (Niigata University Medical & Dental Hospital.)

HP-06-1 Biventricular Repair of Tetralogy of Fallot and Complete Atrioventricular Septal Defect in Adulthood

Shigeto Tsuji¹⁾, Junichi Koizumi¹⁾, Shin Takahashi²⁾, Kotaro Oyama²⁾, Akio Ikai³⁾, Masaki Nii⁴⁾, Keisuke Sato⁴⁾, Hajime Kin¹⁾

1) Department of Cardiovascular Surgery, Iwate Medical University Memorial Heart Center, 2) Department of Pediatrics, Iwate Medical University Memorial Heart Center, 3) Department of Cardiovascular Surgery, Shizuoka Children's Hospital, 4) Department of Pediatrics, Shizuoka Children's Hospital

HP-06-2 2 cases of tetralogy of Fallot underwent a first Rastelli procedure in adulthood

Yuri Fujibe¹⁾, Tomomi Uyeda¹⁾, Naoki Wada²⁾, Yukihiro Takahashi²⁾

1) Department of Pediatric Cardiology, Sakakibara Heart Institute, 2) Department of Pediatric Cardiac Surgery, Sakakibara Heart Institute

HP-06-3 A case of tricuspid valve dysplasia in a 64-year-old woman who at first we diagnosed as Ebstein Malformation and was treated with medication and surgery uneventfully.

Yusuke Yumita^{1,2)}, Yumi Shiina¹⁾, Hiroyuki Kodama¹⁾, Yasuhumi Kijima¹⁾, Masashi Kabasawa³⁾, Kouzou Matsuo³⁾, Koichiro Niwa¹⁾

1) St. Luke International Hospital, Department of Cardiology, 2) National Defense Medical College, Division of Cardiovascular Medicine, 3) Chiba Cerebral and Cardiovascular Center, Department of Cardiovascular Surgery

HP-06-4 Two cases of adult congenital heart disease with left subclavian artery occlusion undergoing one-stage surgery

Naritaka Kimura, Sho Akiyama, Tsutomu Ito, Masataka Yamazaki, Tatsuo Takahashi, Yujiro Kawai, Yuta Akamatsu, Minami Iio, Hiroaki Kaneyama, Takashi Hashimoto, Koji Funaiishi, Kentaro Matsuo, Hideyuki Shimizu
Keio university, department of cardiovascular surgery

HP-06-5 Central shunt operation using an anastomosis assist device for CABG

Akira Murata¹⁾, Kiyoshi Hatasaki²⁾, Shuhei Fujita²⁾, Masami Sotokawa¹⁾, Shingo Ohtaka¹⁾, Yushi Katagiri¹⁾, Sou Motono¹⁾, Tetsuyuki Ueda¹⁾

1) Toyama Prefectural Central Hospital, Department of cardiovascular surgery, 2) Toyama Prefectural Central Hospital, Department of pediatrics

Long-Term Outcome after Surgery

Chair: **Tadashi Ikeda** (Kyoto University Hospital)

HP-07-1 Clinical course of cardiac volume in patients of pulmonary valve replacement after Tetralogy of Fallot repair

Junya Sugiura¹, Hiroshi Sakamoto¹, Shunji Uchita¹, Toyohisa Miyata², Tomozou Moritani², Toshiyuki Chisaka², Masaaki Ohta², Hidemi Takada², Yusuke Akazawa³, Takashi Higaki²

1) Department of Cardiovascular and Thoracic Surgery, Ehime University, 2) Department of Pediatrics, Ehime University, 3) Department of Cardiology, Ehime University

HP-07-2 Surgical pulmonary valve replacement late after repair of CHD complicated with abnormal RVOT: role of transcatheter pulmonary valve replacement

Zhehao Dai¹, Mike Saji¹, Yuki Izumi¹, Itaru Takamisawa¹, Naoki Wada², Kanako Kishiki³, Tomomi Ueda³, Shinji Katsuragi⁴, Tadahiro Yoshikawa³, Satoshi Yazaki³, Morimasa Takayama¹, Mitsuaki Isobe¹

1) Sakakibara Heart Institute, Department of Cardiology, 2) Sakakibara Heart Institute, Department of Pediatric Cardiac Surgery, 3) Sakakibara Heart Institute, Department of Pediatric Cardiology, 4) Sakakibara Heart Institute, Department of Obstetrics and Gynecology

HP-07-3 Unresolved issues that should be solved in adult patients with repaired tetralogy of Fallot ~ from a stand-point of a physician

Kensuke Matsumoto¹, Makiko Suzuki¹, Makiko Suto¹, Takeshi Inoue², Kenji Okada², Ken-ichi-Hirata¹

1) Kobe University Graduate School of Medicine Department of Internal Medicine Division of Cardiovascular Medicine, 2) Kobe University Graduate School of Medicine Department of Surgery Division Cardiovascular Surgery

HP-07-4 Pulmonary valve replacement in 3 cases of middle aged adults without regular follow up after TOF repair.

Aiko Komatsu, Ayumu Yajima, Koichi Node
Department of Cardiovascular Medicine, Saga University

HP-07-5 Two cases of Aortic root dilatation after ventricle septum defect repair

Takahisa Sakurai, Hajime Sakurai, Toshimichi Nonaka, Yu Murakami, Mayumi Kamata
JCHO Chukyo Hospital, Cardiovascular Dept.

HP-07-6 Therapeutic strategy for two surgical repaired tetralogy of Fallot adult patients.

Shiro Baba¹, Hiroki Shiomi², Yujiro Ide³, Koichi Matsuda¹, Kentaro Akagi¹, Daisuke Yoshinaga¹, Akira Takeno¹, Takuya Hirata¹, Takao Kato², Tsuyoshi Kimura², Tadashi Ikeda³, Junko Takita¹

1) Kyoto University Hospital, Department of Pediatrics, 2) Kyoto University Hospital, Department of Cardiology, 3) Kyoto University Hospital, Department of Cardiovascular Surgery

Diagnostic Imaging

Chair: **Miki Kano** (Japanese Red Cross Saitama Hospital)**HP-08-1 Association between axial deviation and left atrial/ left ventricular enlargement after surgery for ventricular septal defect**Tomoyuki Kabutoya¹, Yasushi Imai², Shun Suzuki³, Sadahiro Furui³, Tomoyuki Sato³, Mitsuru Seki³, Koichi Kataoka³, Shinya Ugaki⁴, Ko Yoshizumi⁴, Masaaki Kawada⁴

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3) Department of Pediatrics, Jichi Medical University School of Medicine,

4) Division of Pediatric and Congenital Cardiovascular Surgery, Jichi Medical University School of Medicine.

HP-08-2 Membranous Septal Aneurysm with Ventricular Septal Defect causing Right Ventricular Outflow Tract Obstruction in Adult

Takumi Kobayashi, Yoshichika Maeda, Kanako Kishiki, Akio Inage, Yuji Hamamichi, Tomomi Ueda, Satoshi Yazaki, Tadayoshi Yoshikawa

Sakakibara Heart Institute Pediatric Cardiology dept

HP-08-3 A case of repaired truncus arteriosus showing discordant severity of pulmonary valve regurgitation between echocardiography and cardiac MRIHiroyuki Iwano⁴, Michito Murayama¹, Hiroshi Yamazawa², Atsuhito Takeda², Noriko Oyama-Manabe³, Naoki Ishimori⁴, Yasuyuki Chiba⁴, Suguru Ishizaka⁴, Miwa Sarashina⁴, Shingo Tsujinaga⁴, Masahiro Nakabachi⁵, Sanae Kaga⁶, Toshihisa Anzai⁴

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2) Department of Pediatrics, Hokkaido University Graduate School of Medicine,

3) Department of Diagnostic and Interventional Radiology, Hokkaido University Hospital,

4) Department of Cardiovascular Medicine, Faculty of Medicine and Graduate School of Medicine, Hokkaido University,

5) Division of Clinical Laboratory and Transfusion Medicine, Hokkaido University Hospital, 6) Faculty of Health Sciences, Hokkaido University

HP-08-4 Pre-tricuspid Shunt Which is Difficult to be Identified: What is Another Differential Diagnosis?

Rie Nakashima, Manabu Nitta, Taito Kino, Yusuke Matsumoto, Masatoshi Narikawa, Mina Nakayama, Yuka Taduchi, Masaomi Gohbara, Kiwamu Iwata, Masayoshi Kiyokuni, Naohiro Komura, Masaaki Konishi, Junya Hosoda, Atsuichirou Shigenaga, Daisuke Kamimura, Katsumi Matsumoto, Teruyasu Sugano, Tomoaki Ishigami, Toshiyuki Ishikawa, Kouichi Tamura, Kazuo Kimura.

Department of Medical Science and Cardiorenal Medicine, Yokohama City University Graduate School of Medicine

HP-08-5 Subdivision of the Left Ventricle by a Discrete Ridge and Anomalous Papillary Muscle Causing Mid-Ventricular Obstruction: A Case ReportIkuo Misumi¹, Koji Satoh¹, Koichi Yatsunami², Hiroki Usuku³, Eiichiro Yamamoto³, Kenji Sakamoto³, Koichi Kaikita³, Kenichi Tsujita³

1) Kumamoto City Hospital Cardiology dept, 2) Kumamoto City Hospital Pediatric Cardiology dept, 3) Kumamoto University Cardiology dept

HP-08-6 Reconstruction of the Right Ventricular Outflow Tract Stenosis and Right Ventricular Failure after the Ross Procedure: Comprehensive Assessment of Adult Congenital Heart Disease with Four-dimensional Imaging

Masao Takigami¹⁾, Keiichi Itatani²⁾, Naohiko Nakanishi¹⁾, Hiroko Morichi²⁾, Kosuke Nakaji³⁾, Michiyo Yamano¹⁾, Yo Kajiyama⁴⁾, Yoshinobu Maeda⁵⁾, Satoaki Matoba¹⁾, Hitoshi Yaku²⁾, Masaaki Yamagishi⁵⁾

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3) Department of Radiology, Kyoto Prefectural University of Medicine, Kyoto, Japan,

4) Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan,

5) Department of Pediatric Cardiovascular Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

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Rare Case Presentation

Chairman: **Hazumu Nagata** (Kyushu University Hospital)

HP-09-1 Isolated Right Ventricular Apical Hypoplasia Without Atrial Septal Defect

Hiroaki Kawano

Dept. Cardiovascular Med., Kumamoto Univ.

HP-09-2 Complication of ascending aorta in adult patients with congenital heart disease

Kenji Suda¹⁾, Yusuke Koteda²⁾, Ryuta Takase²⁾, Yasuto Maeda²⁾, Tadashi Inoue²⁾, Yoshihiro Fukumoto³⁾,

Takahiro Shojima⁴⁾, Hiroyuki Tanaka⁴⁾

1) Kurume University, Dept. of Pediatrics & Child Health, Kurume University, 2) Dept. Pediatrics, 3) Dept. Cardiovascular Medicine,

4) Dept. Cardiovascular Surgery

HP-09-3 Pulmonary hypertension with peripheral pulmonary stenosis in a patient with ventricular septal defect and double-chambered right ventricle

Yoshiyasu Ono¹⁾, Ichiro Sakamoto¹⁾, Kazuya Hosokawa¹⁾, Koutaro Abe¹⁾, Ayako Ishikita¹⁾, Shintaro Umemoto¹⁾,

Hazumu Nagata²⁾, Kenichiro Yamamura²⁾, Hiroyuki Tsutsui¹⁾

1) Kyushu University Hospital Department of Cardiovascular Medicine, 2) Kyushu University Hospital Department of Pediatrics

HP-09-4 A case with left ventricular dysfunction with bicuspid aortic valve, double orifice mitral valve and coarctation of aorta

Sakiko Miyazaki¹⁾, Tomohiro Kaneko¹⁾, Ryoko Morimoto¹⁾, Kuniaki Hirose¹⁾, Keisuke Nakanishi²⁾, Taira Yamamoto²⁾,

Toru Asai²⁾, Atsushi Amano²⁾

1) Dep. Cardiology, Juntendo University School of Medicine, 2) Dep. Cardiovascular surgery, Juntendo University School of Medicine

HP-09-5 A surgical case of aortic valve regurgitation with unrepaired pulmonary atresia with ventricular septal defect

Sachiyo Ono¹⁾, Masanobu Ohya¹⁾, Kohei Osakada¹⁾, Kazutoshi Sato²⁾, Kayo Ogino²⁾, Tomohiro Hayashi²⁾, Yasushi Fuku¹⁾,

Kenji Waki²⁾, Kazushige Kadota¹⁾, Yoshio Aragaki²⁾

Kurashiki Central Hospital, 1) Department of Cardiology, 2) Department of Pediatrics

Multi-Organ Complications

Chair: **Yoshimasa Uno** (The Jikei University School of Medicine)

HP-10-1 An adult Fontan patient with repeated renal infarction and chronic glomerular nephritis – Fontan nephropathy? –

Yuichirou Sugitani¹⁾, Jun Muneuchi¹⁾, Masaki Ezaki¹⁾, Ryouhei Matsuoka¹⁾, Masato Doi¹⁾, Mamie Watanabe¹⁾, Yoshie Ochiai²⁾

1) Department of Pediatrics, Japan Community Healthcare Organization Kyushu Hospital, Department of Pediatrics,

2) Department of Cardiovascular Surgery, Japan Community Healthcare Organization Kyushu Hospital

HP-10-2 “Big issues” in neurodevelopment for postoperative adults with cyanotic congenital heart disease

Kazuhiro Takahashi^{1,2)}, Tetsuya Yamamoto²⁾, Shigekiyo Takahashi⁴⁾, Takuma Aoyama⁴⁾, Yusuke Iwata³⁾, Takashi Kuwahara²⁾

1) Kizawa memorial Hospital, Dept. of pediatrics, 2) Gifu prefectural medical center, Dept. of pediatric cardiology,

3) Gifu prefectural medical center, Dept. of pediatric cardiothoracic surgery, 4) Kizawa memorial Hospital, Dept. of cardiology

HP-10-3 A case of unrepaired tetralogy of Fallot underwent peritoneal dialysis in cyanosis nephropathy.

Kenji Maemura¹⁾, Fujita Teppei¹⁾, KeikoRyo-Kooriyama¹⁾, Emi Maekawa¹⁾, Toshimi Koitabashi¹⁾, Tougo Aoyama²⁾, Yasuo Takeuchi²⁾, Junya Ako¹⁾

1) Department of Cardiovascular Medicine, Kitasato University, 2) Department of Nephrology, Kitasato University

HP-10-4 A case of Tetralogy of Fallot complicated polycythemia on long-term after surgery

Koji Sato¹⁾, Ikuo Misumi¹⁾, Kenichi Tsujita²⁾, Koichi Yatsunami³⁾

1) Department of Pediatric Cardiology, Kumamoto City Hospital, 2) Department of Cardiovascular Medicine, Kumamoto University,

3) Department of Cardiovascular Medicine, Kumamoto City Hospital

HP-10-5 2 Cases of Infective Endocarditis in Patient with Tetralogy of Fallot during Long Term Observation after Surgical Correction

Yuri Murayama

Wakayama Medical University Hospital, Pediatrics dept

HP-10-6 Indication for TCPC Conversion in A Case of Pulmonary thromboembolism 29 years after APC Fontan Surgery

Takeshi Kashimura¹⁾, Ryohei Sakai¹⁾, Takeshi Okubo¹⁾, Satomi Tanaka¹⁾, Shinpei Kimura¹⁾, Tsugumi Takayama¹⁾,

Naomasa Suzuki¹⁾, Mitsuo Ishizuka¹⁾, Mayumi Kase¹⁾, Naoki Kubota¹⁾, Toshiki Takano¹⁾, Makoto Hoyano¹⁾,

Takao Yanagawa¹⁾, Kazuyuki Ozaki¹⁾, Tadaaki Abe²⁾, Fujito Numano²⁾, Shuichi Shiraishi²⁾, Tohru Minamino²⁾

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