

Program Chair

Hirokuni Arai

President of Hokushin General Hospital, Nagano Japan

Professor Emeritus, Tokyo Medical and Dental University

Society President of Japanese Association for Coronary Artery Surgery (JACAS)

Course Directors

John D. Puskas, Mount Sinai Heart, New York, New York

David P. Taggart, Oxford University, United Kingdom

Shuichiro Takanashi, IUHW Mita Hospital/Kawasaki Saiwai Hospital, Japan

Educational Co-Sponsors

Japanese Association for
Coronary Artery Surgery



International Society for
Coronary Artery Surgery



International Society for Coronary Artery Surgery

THE JAPANESE
CORONARY ASSOCIATION



THURSDAY, DECEMBER 1 Room1~3

Opening Remarks

7:45-8:00

JACAS & ICC Joint Session 1

8:00-10:00

Panel discussion “Harvest and Deployment of Coronary Bypass Grafts in 2023”

Moderators: John D. Puskas, Hirokuni Arai

- JJJS1-1 **Safe Use of BITA Grafts : Skeletonized versus Non-Skeletonized Harvest**
John D. Puskas
- JJJS1-2 **How to Harvest and Deploy BITA Grafts**
David P. Taggart
- JJJS1-3 **30 Years of RA Grafting**
James Tatoulis
- JJJS1-4 **How to Harvest and Deploy the GEA in All-Arterial Grafting Procedures**
Hiroshi Niinami
- JJJS1-5 **Fate of competitive graft flow**
Ki-Bong Kim
- JJJS1-6 **Current Evidence for the use of non-touch SVG**
Umberto Benedetto
- JJJS1-7 **The Viola // a new anastomotic device**
Gil Bolotin
- JJJS1-8 **How to Harvest and Deploy RA Grafts**
Mario FL Gaudino

JIJS1-9 <Featured Abstract>
The strength of NT-SVG
Atsushi Sugaya
Kurashiki Central Hospital

JIJS1-10 **Graft Selection Questionnaire results : Current Graft Deployment in Japan**
Toshihiro Fukui

JACAS & ICC Joint Session 2

10:10-10:40

Debate : Use of FFR for CABG

Moderators: David P. Taggart, Tatsuhiko Komiya

JIJS2-1 **From “pro” perspective**
Hristo Kirov

JIJS2-2 **From “con” perspective**
John D. Puskas

JACAS & ICC Joint Session 3

10:55-11:25

Why is Off-pump CABG Still the Major Procedure in Japan? -Current status of Japanese off-pump CABG

Moderators: David P. Taggart, Shuichiro Takanashi

JIJS3-1 **Development of OPCAB in Japan**
Hirokuni Arai

Discussants: Masao Takahashi, Hitoshi Yaku, Hirofumi Takemura, Hiroshi Niinami, Toshihiro Fukui

Lifetime Achievement Award

11:25-11:35

Awardees: Yukiyasu Sezai, Hisayoshi Suma

Luncheon Seminar 1

12:30-13:20

The Necessity of Quality Assessment in CABG

Moderators: Hirokuni Arai, Shuichiro Takanashi, David P. Taggart, Hiroshi Niinami

- 1 **Optimal application of TTFM in CABG**
Hirofumi Takemura
- 2 **TTFM beyond de SVG graft**
Ki-Bong Kim
- 3 **Ultrasound imaging outside CABG**
Hirokuni Arai
- 4 **Practicalities of Starting a Quality Assessment Program**
Gil Bolotin

Co-sponsored by Medistim

JACAS & ICC Joint Session 4

13:35-15:05

Non-sternotomy CABG-MICS /Robotic/Hybrid CABG

Moderators: Bob Kiaii, Taichi Sakaguchi

- J-JS4-1 **Hybrid coronary revascularization for complex coronary artery disease**
Taichi Sakaguchi
- J-JS4-2 **MICS CABG as a standard coronary revascularization**
Keita Kikuchi
- J-JS4-3 **<Featured Abstract>**
Totally endoscopic left main coronary artery bypass grafting : a propensity score-matched analysis
Jade Claessens
Hasselt University - Jessa Hospital
- J-JS4-4 **Robotic MIDCAB**
Bob Kiaii
- J-JS4-5 **Robotic BITA grafting**
Husam H. Balkhy
- J-JS4-6 **How to start Robotic CABG program**
Gianluca Torregrossa
- J-JS4-7 **Evidence base for MICS CABG**
Piroze Davierwala

JACAS & ICC Joint Session 5

16:15-17:55

CABG for low LV function ‘Why and How’

Moderators: Stephen E. Fremes, Hirofumi Takemura

- J-JS5-1 **Evidence base for CABG in patient with low LV function**
Sigrid E. Sandner
- J-JS5-2 **The role of preoperative viability assessment in patient selection for CABG**
Michael E. Farkouh
- J-JS5-3 **STICH3C comparing PCI and CABG in patients with LV dysfunction**
Stephen E. Fremes
- J-JS5-4 **Emergent CABG with ECMO support in ACS patients**
Tomohiro Mizuno
- J-JS5-5 **CABG for low EF, as many grafts as possible**
Hirofumi Takemura
- J-JS5-6 **IMPELLA supported CABG**
Keitaro Domae
- J-JS5-7 **Impella Supported CABG : US Perspective**
Deane Smith
- J-JS5-8 **<Featured Abstract>**
Impella 5.0 supported coronary artery bypass grafting in patients with severely depressed left ventricular function
Yukiharu Sugimura
Department of Cardiac Surgery, Medical Faculty and RWTH University Hospital Aachen, RWTH Aachen University, Aachen, Germany

JACAS & ICC Joint Session 6

18:00-18:20

Intraoperative TTFM for CABG : Evidence and Expert Opinion Statement

Moderators: David P. Taggart, Hirokuni Arai

Presenter: Mario FL Gaudino

Panelists: John D. Puskas, Sigrid E. Sandner, Faisal G. Bakaeen, Stephen E. Fremes, Tohru Asai

Featured Abstract

18:20-19:00

Moderators: John D. Puskas, Hirokuni Arai

- FA-1 **Time-Varying Risk Factors in Diabetic Patients Undergoing Coronary Artery Bypass Grafting. Fifteen Years follow-up with a Propensity-Matched Analysis**
Gianluca Torregrossa
Department of Cardiac Surgery, Lankenau Heart Institute, Lankenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA.
- FA-2 **The Impact of the Number of Distal Anastomosis on the Early and Long-term Outcomes after CABG in Patients with left ventricular dysfunction**
Kim Sang Yoon
Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- FA-3 **Outcome of coronary artery bypass grafting in hemodialysis patients with diabetes mellitus**
Chen Ken
SAKAKIBARA HEART INSTITUTE, TOKYO, JAPAN
- FA-4 **Feasibility of a novel excimer laser-assisted non-occlusive anastomotic connector in a porcine model of minimally invasive coronary artery surgery**
Timo Z. Nazari Shafti
(1) German Heart Center Berlin, Germany (2) Charité Universitätsmedizin Berlin, Germany (3) Berlin Institute of Health, Germany
- FA-5 **HOW COVID19 AFFECTED CORONARY SURGERY IN A NATIONAL HEART CENTER**
Avenilo Aventura Jr
Philippine Heart Center

THURSDAY, DECEMBER 1 Room4

Oral Abstract Presentation 1

8:00-8:30

Graft Harvest / Others

Moderators: Nuttapon Arayawudhikul, Kenji Iino

- OAP1-1 **Long-term outcomes and vein graft patency in endoscopic versus conventional vein graft harvesting technique : a propensity score analysis**
Mariano Cefarelli
Cardiac Surgery Unit, Lancisi Cardiovascular Center, Polytechnic University of Marche, Ancona, Italy
- OAP1-2 **A Closer Look at Endothelial Cells of Conduits and Harvesting Techniques**
Nataliya Bahatyrevich
Department of Surgery, School of Medicine, University of California-Davis, USA.

- OAP1-3 **The Use of Ultrasonically Activated Scalpel Versus Electrocautery In Harvesting The Internal Mammary Artery To Prevent Sternal Wound Infection In Coronary Artery Bypass Graft Patients : A Prospective Cohort Study**
Karl Derrick O. Sia
Aventura, Avenilo, Jr.
- OAP1-4 **Sternal Closure with Rigid Plate Fixation for Isolated Coronary Artery Bypass Grafting : Can Sternal Plating Increase the Feasibility of Bilateral Internal Thoracic Artery Usage in High-Risk Patients?**
Jota Nakano
Kurashiki Central Hospital
- OAP1-5 **Effects of Different Preoperative Dual Antiplatelet Therapy Discontinuation Times on Blood Loss after Minimally Invasive Direct Coronary Artery Bypass**
Alaa Abd El Al
German Heart Center Berlin

Oral Abstract Presentation 2

8:40-9:10

OPCAB / Others

Moderators: Suchart Chaiyaroj, Takeshiro Fujii

- OAP2-1 **Double check intraoperative graft validation using both TTFM and IFI can achieve awake from general anesthesia just after Off Pump CABG surgery.**
Masao Takahashi
Department of Cardiovascular Surgery, Hiratsuka Kyosai Heart Center
- OAP2-2 **Stroke after isolated CABG with our clampless strategy in consecutive 892 patients**
Kentaro Amano
Fujita Health University
- OAP2-3 **Myocardial injuries after OPCAB and on-pump beating CABG**
Kazuki Matsuhashi
Fujita Health University
- OAP2-4 **Factors Affecting the Outcome of Patients who underwent Coronary Artery Bypass Grafting with Coronary Artery Endarterectomy : A Single Center Experience**
Allan Anthony Ortiz
Philippine Heart Center
- OAP2-5 **Comparing CABG and PCI Across the Globe Based on Current Regional Registry Evidence**
Tulio Caldonazo
Department of Cardiothoracic Surgery, Friedrich-Schiller-University Jena, Germany.

Oral Abstract Presentation 3

9:15-9:39

New Technique / Anastomotic Device

Moderators: Oh-Choon Kwon, Yosuke Ishii

- OAP3-1 **MODIFIED 'LIMA SUTURE' TECHNIQUE TO FACILITATE OFF PUMP CABG**
Kohei Abe
St. Luke's international hospital, Cardiovascular Center, Division of Cardiovascular Surgery

- OAP3-2 **Angiographic Findings and Clinical Outcomes Following Robotic-Assisted Coronary Artery Bypass Grafting Using MicroCore Knot.**
Gianluca Torregrossa
Department of Cardiac Surgery, Lanckenau Heart Institute, Lanckenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA.
- OAP3-3 **Early Clinical Experience : Micro Titanium Fasteners to Secure 6-0, 7-0, or 8-0 Polypropylene Suture : The First 200+ Patients and 700+ Fasteners**
Kyle C. Purrrman
LSI SOLUTIONS
- OAP3-4 **COR-KNOT Fastener Obstructing the Left Main Coronary Artery Following Aortic Valve Replacement : A Case Report**
Azzahra Edrees
Division of Cardiac Surgery, Cardiovascular Department, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia

Oral Abstract Presentation 4

9:50-10:20

Coronary Aneurysm / Myocardial Bridging

Moderators: Jun Aventura, Kenji Okada

- OAP4-1 **Surgical treatment for coronary artery aneurysms.**
Ryo Kawabata
Division of Cardiovascular surgery, Kobe University, Kobe, Japan
- OAP4-2 **A Giant Right Coronary Artery with Fistulous Communication to the Right Ventricle Post Cardiac Vascular Plug & Coiling : A Case Report**
Jerome D. Urbina
Philippine Heart Center
- OAP4-3 **Repair of Isolated Giant Right Coronary Artery Aneurysm**
Anna H. Xue
University of California, Davis Medical Center
- OAP4-4 **Dynamic remodeling of coronary artery lesions occurs even at remote period in patients with Kawasaki disease**
Shintaro Katahira
Division of Cardiovascular Surgery, Tohoku University Graduate School of Medicine
- OAP4-5 **Identification of Patient Factors Associated with Symptomatic Improvement after Surgical Myocardial Bridge Unroofing**
Hanjay Wang
Stanford University

Oral Abstract Presentation 5

10:25-10:55

Low EF / Ischemic Cardiomyopathy

Moderators: Sigrid E. Sandner, Satoru Wakasa

- OAP5-1 **Surgical technique and early outcomes of OPCAB in patient with low ejection fraction**
Masahito Minakawa
Department of Thoracic and Cardiovascular Surgery, Hirosaki University School of Medicine, Hirosaki, Japan

- OAP5-2 **Short and Intermediate Term Mortality in Patients with Ischemic Cardiomyopathy Undergoing Coronary Bypass Surgery**
Alaa Abd El Al
German Heart Center Berlin, Germany
- OAP5-3 **Ventricular Treatment for Ischemic Cardiomyopathy as Compared to Non-ischemic One**
Masashi Komeda
Cardiac Center, Fukuda General Hospital
- OAP5-4 **Long term results of ELIET (Endocardial Linear Infarct Exclusion Technique) procedure for ischemic cardiomyopathy.**
Satoshi Numata
Department of Cardiovascular Surgery, Kyoto Prefectural University of Medicine
- OAP5-5 **Left ventricular restoration with scar exclusion in the non-heart transplant surgical treatment for ischemic heart failure**
Yasunori Cho
Tokai University School of Medicine

Oral Abstract Presentation 6

11:00-11:36

AMI mechanical complication

Moderators: Jeong Seob Yoon, Tomohiro Mizuno

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- OAP6-1 **A case of ventricular double rupture -mitral valve papillary muscle rupture 4 weeks after repair of ventricular septal perforation associated with acute myocardial infarction**
Kohei Furusawa
Kawasaki Medical School Hospital
- OAP6-2 **Clinical Result of Ventricular Septal Perforation**
Shuji Chino
Division of Cardiovascular Surgery, Department of Surgery, School of Medicine, Shinshu University
- OAP6-3 **Post Infarction Ventricular Septal Rupture : When do we operate? A National Cardiac Center Experience**
Avenilo L Aventura Jr
Philippine Heart Center
- OAP6-4 **LV unloading therapy using Impella 5.5 after emergency surgery for acute myocardial infarction mechanical complication in two adults**
Kenji Iino
Department of Cardiovascular Surgery, Kanazawa University
- OAP6-5 **Analysis of risk factors and survival of surgical repair of post myocardial infarction ventricular septal rupture - 15 years of experience**
Shilpa Suresh
MBBS , DNB , MCh
- OAP6-6 **Ventricular Septal Defect Associated with Acute Myocardial Infarction : A Single Center Experience**
Kan Nawata
Department of Cardiovascular Surgery, St Marianna University School of Medicine

FRIDAY, DECEMBER 2 Room1 • 2

Morning Seminar 1

7:20-7:50

Moderator: Yutaka Okita

Novel Technologies for Clamless Proximal Anastomosis ~Usage experience of VIOLA~

Speaker: Gil Bolotin

Co-sponsored by VITAL Corporation

Coronary Week Opening Remarks

7:50-8:00

JACAS & JCA & ICC Joint Session 1

8:00-9:30

Controversies in management of CAD post ISCHEMIA

Moderators: Hitoshi Yaku, Masato Nakamura, John D. Puskas

- JJIJS1-1 **Overview of the ISCHEMIA Trial and Updated Guideline in Japan**
Shun Kosaka
- JJIJS1-2 **Japanese Interventional Cardiology Perspective**
Kenichi Tsujita
- JJIJS1-3 **Cardiology (PCI)**
Hiroki Shiomi
- JJIJS1-4 **AHA Guidelines perspective**
Stephen E. Fremes
- JJIJS1-5 **STS/AATS guidelines perspective**
Faisal G. Bakaeen
- JJIJS1-6 **Non-Interventional Cardiology Perspective**
Michael E. Farkouh

JACAS & JCA & ICC Joint Session 2

9:40-11:25

Management of CAD in 2025-2030 : Beyond FAME III and ISCHEMIA

Moderators: Toshiro Shinke, Toshihiro Fukui, Faisal G. Bakaeen

- JJIJS2-1 **Cardiologist's perspective of FAMEIII**
Michael E. Farkouh
- JJIJS2-2 **Surgeon's perspective of FAMEIII**
David P. Taggart
- JJIJS2-3 **How will the epidemic of diabetics change management? (Surgeon's perspective)**
Umberto Benedetto
- JJIJS2-4 **How will the epidemic of diabetics change management? (Cardiologist's perspective)**
Sunao Nakamura
- JJIJS2-5 **Impact of Kidney Disease in Revascularization (Surgeon's perspective)**
Stephen E. Fremes

- JJI-S2-6 **Impact of Kidney Disease in Revascularization (Cardiologist's perspective)**
Ken Kohzuma
- JJI-S2-7 **<Featured Abstract>**
Graft selection for long-term survival in CABG for patients with impaired renal function
Keiji Oi
Cardiovascular Surgery, Tokyo Medical and Dental University
- JJI-S2-8 **Non interventional cardiologist's vision of the future**
Michael E. Farkouh

JACAS & JCA & ICC Joint Session 3

13:20-14:50

Advanced revascularization technique Cardiologist vs Surgeon

Moderators: David P. Taggart, Takeshiro Fujii, Kiyoshi Hibi

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- JJI-S3-1 **Cardiologist (CTO)**
Makoto Sekiguchi
- JJI-S3-2 **Halfway Rotational Atherectomy for severely calcified lesions**
Kenichi Sakakura
- JJI-S3-3 **Surgeon (stentectomy/endarterectomy)**
Shuichiro Takanashi
- JJI-S3-4 **No-aortic-touch, all-arterial OPCAB (European perspective)**
Sotirios N. Prapas
- JJI-S3-5 **No-aortic-touch, all-arterial OPCAB (USA perspective)**
John D. Puskas
- JJI-S3-6 **Minimally invasive LITA vs PCI for the LAD (Surgeons perspective)**
Husam H. Balkhy
- JJI-S3-7 **Minimally invasive LITA vs PCI for the LAD (Cardiologist perspective : Less invasive PCI : Distal radialapproach)**
Fuminobu Yoshimachi

Afternoon Seminar 4

15:00-15:50

Expert Perspectives for the Future of Less Invasive Coronary Surgery

Moderator: Hitoshi Yaku

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- 1 **Hybrid Approach for Less Invasive Coronary Surgery**
Yoshitsugu Nakamura
- 2 **Past, Present and Future of Less Invasive Coronary Surgery**
Bob Kiaii

Co-sponsored by Medtronic

JACAS & JCA & ICC Joint Session 4

16:00-17:30

Heart Team Discussion ~Who will treat this case?~

Moderators: Hirokuni Arai, Yasunori Ueda, David P. Taggart

Multiple real life case presentations and discussion

Discussants: Michael E. Farkouh, John D. Puskas, Tohru Asai, Shuichiro Takanashi, Stephen E. Fremes, Sigrid E. Sandner, Vipin Zamvar, Sunao Nakamura, Kengo Tanabe, Masami Ochi

FRIDAY, DECEMBER 2 Room4

Oral Abstract Presentation 7

8:00-8:30

MICS / Robotic CABG Program

Moderators: Bob Kiaii, Eiki Nagaoka

- OAP7-1 **Impact of Surgeon Experience on Minimally Invasive Coronary Artery Bypass Grafting. A Propensity-Matched Analysis.**
Gianluca Torregrossa
Department of Cardiac Surgery, Lankenau Heart Institute, Lankenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA
- OAP7-2 **Minimally Invasive Coronary Artery Bypass Grafting Single Surgeon Experience in the First Year of Clinical Practice.**
Gianluca Torregrossa
Department of Cardiac Surgery, Lankenau Heart Institute, Lankenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA.
- OAP7-3 **Establishment and Three Years Outcomes of Robotic-assisted Hybrid Coronary Revascularization in the Middle East**
Salman W. Bafageeh
King Faisal Specialist Hospital and Research Center-Jeddah, Saudi Arabia
- OAP7-4 **On-pump beating-heart total arterial minimally invasive coronary artery bypass grafting - our first Polish experience.**
Janusz Konstancy-Kalandyk
Department of Cardiovascular Surgery and Transplantology, John Paul II Hospital, Institute of Cardiology, Jagiellonian University Medical College, Kraków, Poland
- OAP7-5 **MICS CABG : Our Early Experience in the Philippine Heart Center and How I Do It.**
John Andrew M. Yam
Philippine Heart Center

Oral Abstract Presentation 8

8:35-9:05

MICS CABG

Moderators: Piroze Davierwala, Taichi Sakaguchi

- OAP8-1 **In-hospital and mid-term Results of Cryo Nerve Block Therapy following minimally invasive CABG.**
Gianluca Torregrossa
Department of Cardiac Surgery, Lankenau Heart Institute, Lankenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA.

- OAP8-2 **MICS off pump of total arterial coronary bypass**
Nuttapon Arayawudhikul
Lampang Hospital
- OAP8-3 **The effect of continued mechanical ventilation on the occurrence of myocardial ischemia in patients undergoing totally endoscopic coronary artery bypass grafting (endo-CABG) : a pilot study (VENTMICS)**
Jade Claessens
Hasselt University
- OAP8-4 **Early-term Results of Second Redo Minimally Invasive OPCAB Surgery**
Doosang Kim
Veterans Health Service Medical Center
- OAP8-5 **Minimally invasive direct coronary artery bypass grafting (MIDCAB) for chronic total occlusion of the left anterior descending artery**
Hristo Kirov
Department of Cardiothoracic Surgery, Friedrich-Schiller-University Jena, Germany

Oral Abstract Presentation 9

9:10-9:40

Robotic CABG

Moderators: Husam H. Balkhy, Yoshitsugu Nakamura

- OAP9-1 **Angiographic Findings and Clinical Outcomes Following Reverse Hybrid Revascularization With Minimally Invasive Coronary Artery Bypass Grafting.**
Gianluca Torregrossa
Department of Cardiac Surgery, Lankenau Heart Institute, Lankenau Medical Center, Main Line Health, Wynnewood, Pennsylvania, USA.
- OAP9-2 **Robotic Totally Endoscopic Coronary Artery Bypass : Can Branches of the Right Coronary Artery be Grafted?**
Sarah Nisivaco
University of Chicago Medicine
- OAP9-3 **Robotic assist total arterial coronary artery bypass grafting : moving towards future**
MEERANGHANI MOHAMED YUSUF
APOLLO HOSPITALS, GREAMS ROAD, CHENNAI, INDIA
- OAP9-4 **Quality of Life for patients who underwent Robotic Hybrid Coronary Revascularization vs Conventional Coronary Artery Bypass Grafting a comparative study**
Uthman Aluthman
Consultant Adult Cardiac Surgery at KFSHRCJ
- OAP9-5 **Robotic Totally Endoscopic Coronary Artery Bypass in Single and Multi-vessel CAD : Bridging the Gender Gap Despite a Higher Risk Profile in Women**
HIROTO KITAHARA
The University of Chicago

Oral Abstract Presentation 10

9:45-10:27

SVG

Moderators: Ki-Bong Kim, Yasushi Takagi

- OAP10-1 **Endoscopic pedicle saphenous vein graft harvesting : procedure and postoperative outcomes**
Rihito Tamaki
St. Luke's International Hospital
- OAP10-2 **Interim experience with microwave surgical instrument for saphenous vein harvesting to facilitate no touch technique**
Kota Itagaki
Division of Cardiovascular Surgery, Tohoku University Hospital, Sendai, Miyagi, Japan
- OAP10-3 **Saphenous Vein Graft Optimization for Coronary Artery Bypass Grafting : A Group Practice Experience at the Philippine Heart Center**
Christopher Cheng
Philippine Heart Center
- OAP10-4 **Sternal and Leg Wound Complications after Coronary Artery Bypass Grafting Using No-Touch Saphenous Vein Composite Grafts in a Newly-Opened Cardiac Surgical Center**
Min-Seok Kim
Cardiovascular Center, Myeongji Hospital
- OAP10-5 **Venous External Support in Coronary Artery Bypass Surgery : A Systematic Review and Meta-analysis**
Marco Gemelli
Department of Cardiac, Thoracic, Vascular Sciences and Public Health, University of Padua, Italy.
- OAP10-6 **Comparison of proximal anastomosis of coronary artery grafting bypass to the prosthetic graft and to the native aorta**
Ryosuke Hayashi
Department of Cardiovascular Surgery, Fujita Health University Hospital
- OAP10-7 **Storage solution-based repeated graft flushing does not impose nephrotoxicity during coronary artery bypass grafting**
Bernhard Winkler, MD
Vienna Health Network, Cardiovascular Surgery KFL, Vienna, Austria

Oral Abstract Presentation 11

10:32-11:20

Arterial Revascularization / Conduit Configuration

Moderators: Gianluca Torregrossa, Kohji Kawahito

- OAP11-1 **One-year clinical outcomes of total arterial grafting versus single arterial grafting in patients undergoing isolated coronary bypass grafting : an analysis from the European DuraGraft Registry**
Maximilian Y. Emmert
Department of Cardiothoracic and Vascular Surgery, German Heart Center Berlin, Berlin, Germany

- OAP11-2 **Mid-term patency of in-situ revascularization using bilateral internal thoracic arteries**
Janusz Konstanty-Kalandyk
Department of Cardiovascular Surgery and Transplantology, John Paul II Hospital, Institute of Cardiology, Jagiellonian University Medical College, Kraków, Poland
- OAP11-3 **The Problems with the Total Arterial Sling Grafting Configuration are Avoidable Based on Patient-Specific Predictive Hemodynamics**
Krish Chaudhuri
(1) Green Lane Cardiothoracic Surgical Unit at Auckland City Hospital, Auckland, New Zealand (2) Auckland Bioengineering Institute, The University of Auckland, Auckland, New Zealand
- OAP11-4 **Long-Term Results (15 Years) of Myocardial Revascularization with Two and One Internal Thoracic Artery (ies) (ITA (s))**
Armen Martirosyan
Petrovsky National Research Centre of Surgery
- OAP11-5 **Off-pump Skeletonized in-situ BITA grafting for left coronary territory—Impact of RITA-LAD grafting—**
Kazutoshi Tachibana
MD, PhD
- OAP11-6 **The Evolution of Arterial Grafting at a National Cardiac Institute**
Avenilo L Aventura Jr
Philippine Heart Center
- OAP11-7 **Coronary artery bypass grafting based on the in situ right internal thoracic artery as a single inflow source**
Ji Seong Kim
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- OAP11-8 **Patency rate of internal thoracic artery grafting to the left coronary artery in patients with left main lesion.**
HIROYUKI NAKAJIMA
International Medical Center, Saitama Medical University

SATURDAY, DECEMBER 3 Room1

International Competition of Coronary Anastomosis (Live streaming and On-site hybrid program)

7:00-9:00

International Competition of Coronary Anastomosis on Online hands-on is a part of JACAS off the job training education program, of which the platform is developed by EBM Corp. Japan. Players demonstrate their anastomosis technique on YOUCAN and Anasthon A1 simulator. Judges assess the skill by “Real-time ice-skating assessment method”.

Mission forces: Hitoshi Yokoyama, Kohei Abe, Hiroyuki Nishi, Kazuma Okamoto, Park Young Kwang

Moderators: Hitoshi Yokoyama, Tohru Asai

Commentators: John D. Puskas, David P. Taggard, Bob Kiaii, Shuichiro Takanashi, Suchart Chaiyaroj

Judges: Kohei Abe, Hiroyuki Nishi, Kazuma Okamoto

Technology Director (Online hands-on simulation platform): Park Young Kwang

Strategic partners: Jun Aventura, Nirmal Gupta, Nuttapon Arayawudhikul

Honored competitors: Sutthirug Sutthisak (Thailand), Dhananjay Bansal (India), Gaspher V. Jumao-as (Phillipines), Rihito Tamaki (Japan)

OPCAB Masterclass APAC 2022

9:30-14:05

Medtronic OPCAB Masterclass Chairmans: David Taggart, John Puskas

Medtronic OPCAB Masterclass Japan Course Directors:

Hitoshi Yaku, Shuichiro Takanashi, Hirokuni Arai, Hiroshi Niinami, Taichi Sakaguchi,
Toshihiro Fukui

9 : 30 Welcome Address

9 : 35 Keynote Lecture

Moderators: Hirokuni Arai, Hitoshi Yaku

Evidence from the World : OPCAB 2022

David Taggart

Basic Principles and Techniques of OPCAB

John Puskas

10 : 35 All Arterial Grafting Technique

Moderators: Hitoshi Yaku, David Taggart

Discussant: John Puskas

All Arterial In-situ Grafting

Hiroshi Niinami

Free RITA Composite Grafting in MICS

Piroze Davierwala

Radial Artery I - composite Grafting

Hiroyuki Nakajima

11 : 35 Break

Case Discussion : Difficult Case

12 : 00 Topic 1. Lunch Session, Bailout Case

Moderators: Hirokuni Arai, Hiroshi Niinami

Discussants: Hitoshi Yaku, Taichi Sakaguchi

Case 1. Preoperative optimization with Mitra clip.—Bail-out strategy—

Shuichiro Takanashi

Case 2. TTFM quality assessment - how to change the management

David Taggart

Case 3. How to deal with epicardial hematoma

John Puskas

13 : 00 Break

13 : 15 Case Discussion : Difficult Case

Topic 2. Deeply buried coronary in myocardium - How to find and how to keep hemodynamics

Moderators: Shuichiro Takanashi, John Puskas

Discussants: Nuttapon Arayawudhikul, David Taggart

Case 1: Toshihiro Fukui

Case 2: Taichi Sakaguchi

14 : 05 Closing Remarks

Co-sponsored by Medtronic

Video Presentation

- VP-1 **Anatomical repair of left main coronary artery ostial atresia using pulmonary artery patch**
Nobuyasu Kato
Department of Cardiovascular Surgery, Hokkaido University Graduate School of Medicine
- VP-2 **A Novel Technique of Endoscopic No-touch Saphenous Vein Harvesting**
Kunihiko Yoshino
Tokyo Bay Urayasu Ichikawa Medical Center
- VP-3 **Robotic Totally Endoscopic Internal Thoracic Artery Bypass to the Right Coronary Artery for a Patient with a Prior Bypass Surgery**
HIROTO KITAHARA
The University of Chicago
- VP-4 **Inferior Ventricular Septal Rupture after Acute Myocardial Infarction**
Luis Roberto Dallan
INCOR - Heart Institute from the University of Sao Paulo

e-Poster Presentation

- eP-1 **A case of a ruptured left coronary artery aneurysm associated with coronary-pulmonary artery fistula : Advantage of the on-pump beating-heart technique**
Atsushi Hiromoto
Department of cardiovascular surgery, Nippon Medical School Musashikosugi Hospital
- eP-2 **Tactics against Coronary to Pulmonary Artery Fistulas with Large Aneurysm**
Atsushi Oi
Gunma University
- eP-3 **Comparing the outcomes of multiple and single arterial grafts for Veterans Affairs patients**
Mohammad Arammash
University of California San Francisco School of Medicine, San Francisco, California
- eP-4 **How does off-pump coronary artery surgery affect frailty patients?**
Hiromasa Yamashita
Cardiovascular Surgery, Nippon Medical School Chiba Hokusoh Hospital
- eP-5 **On-Pump vs. Off-Pump Coronary Artery Bypass Grafting Surgery in a Veteran Population**
Jay Patel
California University of Science and Medicine, Colton, California
- eP-6 **Saphenous vein graft with axillar artery inflow for porcelain aorta**
Satoshi Uesugi
Jichi Medical University, Department of Cardiovascular Surgery
- eP-7 **Coronary Artery Bypass Grafting without transfusion in patients who were Jehovah's Witnessess**
Sang Yoon Yeom
Sejong General Hospital, Department of Thoracic and Cardiovascular Surgery
- eP-8 **MICS Off pump CABG : a single-Center Analysis of 227 Patients**
Ryohei Ushioda
Cardiovascular and Thoracic Surgery Unit, Department of Surgery, Lampang Hospital, Lampang, Thailand
- eP-9 **Preliminary trials of minimally invasive coronary artery bypass grafting at non-experienced institution**
Satoshi Kimura
Department of Cardiovascular Surgery, Kyushu University Hospital

- eP-10 **Morphological changes in endothelial cell organelles in a no-touch saphenous vein graft**
AKIRA SUGAYA
Gyotoku General Hospital
- eP-11 **Outcomes in dialysis patients undergoing coronary artery bypass surgery**
Yasuhiro Kawase
Cardiovascular Surgery, Nippon Medical School Chiba Hokusoh Hospital
- eP-12 **Clinical Outcomes of Coronary Artery Reconstruction in Redo Aortic Root Replacement**
Yojiro Koda
Kobe University Hospital
- eP-13 **Patch Repair for the Seagull Deformity of a Sequential Diamond-Shape Coronary Anastomosis**
Vasily Kaleda
Central Clinical Hospital (Moscow, Russia)
- eP-14 **An Unusual Case of Huge Fibrotic Sac of Hematoma at Saphenous Vein Harvest Site for CABG**
June Lee
Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- eP-15 **Treatment for sternal osteomyelitis or mediastinitis after coronary artery bypass grafting surgery**
Sho Onoda
Cardiovascular Surgery, Nippon Medical School Chiba Hkosoh Hospital
- eP-16 **Collateral robustness-stratified short- and long-term outcomes of surgical revascularization using epicardial echo-imaging for CTO in LAD**
Kenji Iino
Department of Cardiovascular Surgery, Kanazawa University
- eP-17 **The Effect of Transit-Time Flowmetry on Surgical Outcomes among Patients Undergoing Coronary Artery Bypass Surgery**
Francis Belmonte
Philippine Heart Center - Quezon City, National Capital Region, Philippines