# • The 25th Seminar of Angioplasty of Chronic Total Occlusions



June 13 Fri. – 14 Sat., 2025

[Venue]

WINC AICHI, Nagoya, Japan



Web URL • https://cct.gr.jp/ctoclub/ Find us on Facebook • https://www.facebook.com/profile.php?id=100064156205483

Supported by Complex Cardiovascular Therapeutics



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## Greetings from the 25th CTO Club

In recent years, the technology of CTO PCI has evolved dramatically. Since the CTO Club is a meeting specialized in CTO PCI, we can share more specialized live demonstrations introducing a detailed knowledge of the CTO devices, and learn techniques, technologies, and strategies in this field.

The program includes CTO live demonstrations, the latest research findings, case presentations, and educational sessions by expert operators from Japan and abroad, and we sincerely hope that an active discussion will be held while sharing your valuable experiences and opinions. We also hope to build a new network through this meeting and to deepen future collaboration in clinical practice and research of CTO PCI.

The 25th CTO Club will be held on June 13th and 14th, 2025. We believe that your participation will be an opportunity for you to spend quality time and contribute to the further development of CTO PCI.

We look forward to seeing you in Nagoya.

Hiroyuki Tanaka, M.D.

The 25th CTO Club Representative Course Director

# General Information

## Registration





English

Japanese

Online Registration \$\rightarrow\$ https://cct.gr.jp/ctoclub/index.html#x06

## **Opening Hours**

[Registration]

Registration Desk, 5F

Friday June 13 7:40-17:00 Saturday June 14 7:40-15:00

[Exhibition]

Exhibition Room, 5F

Friday June 13 9:00-18:00 Saturday June 14 9:00-15:00

[Poster Posting]

Exhibition Room, 5F

Friday June 13 12:00-18:00 Saturday June 14 9:00-15:30

#### Language

Official Language: English
Simultaneous interpretation is not available.

#### **Live Case Viewer**

The 25 th CTO Club participants can view live case data and strategies of operators on "Live Case Viewer" website.

## **Food and Beverages**

Breakfast is provided in Mornig Session.

Every Luncheon Seminar provides Lunch boxes for attendees.

Drinks and snacks will be provided in Live Theater from 18:00 on June 13. Coffee service will be offered at the Exhibition.

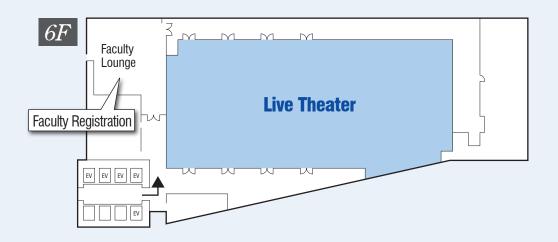
#### **Live Case Transmissions Webcast**

CTO Live Case Transmission will be broadcasted live online during the 25th CTO Club.

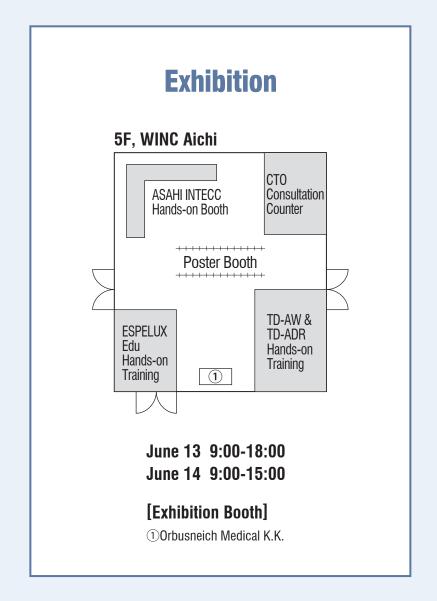
The webcast URL will be available on "My Page" of the registration website (Heartmeetings+) on the day.

There will be no video on-demand broadcast after the 25th CTO Club.

## Floor Plan



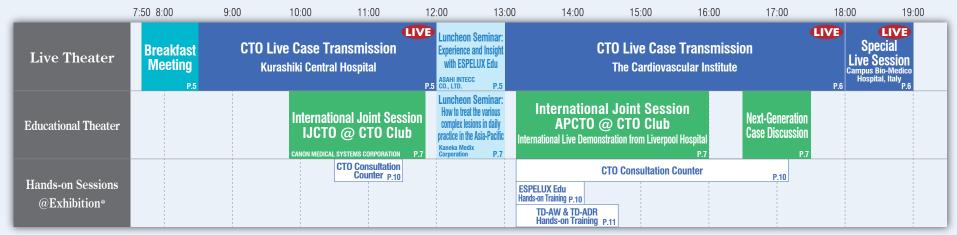




# Program at a glance

## Friday, June 13

Official Language: English
Simultaneous interpretation is not available.
CTO Live Case Transmissions will be broadcasted live online.



<sup>\*</sup>See p.10-11 for Hands-on Sessions application & details.

# Saturday, June 14



<sup>\*</sup>See p.10-11 for Hands-on Sessions application & details.

Live Theater LIVE

## 7:50-8:25 Morning Session: Live Case Pre-discussion Session

We are going to discuss live case treatments of the day in the morning.

Let's start your day by learning strategies and exchanging opinions about live cases of the day.

Chairs: Kazuhiro Ashida, Fumitaka Hosaka Commentators: Takenori Domei, Masato Ishikawa, Lin Zhao, Yuya Nakagawa, Yusuke Tanigaito

## **CTO Live Case Transmission**

In the 25th CTO Club, our operators will demonstrate some exciting approaches by outlining every aspect of strategy and procedural detail from beginning to end.

Please attend to learn tips and tricks from the experts!

Kurashiki Central Hospital Operators: Atsunori Okamura, Hiroyuki Tanaka

Imaging Commentator: Satoshi Suzuki

8:30-10:30 Live Case Transmission 1

Chairs: William Lombardi Commentators: Taishi Hirai, Masato Ishikawa

Shunsuke Matsuno Yuichi Kobori, Mitsunori Mutou

Kenichiro Shimoji Eugene Brian Wu

**Focus Live** 

Co-sponsored by: Abbott Medical Japan LLC

10:30-11:50 Live Case Transmission 2

Chairs: Yoshiaki Ito Supervisor: Takahiko Suzuki

Paul Hsien-Li Kao Commentators: Shinya Fujita, Wirash Kehasukcharoen

Ryohei Yoshikawa Masaharu Okada, Seung-Woon Rha Makoto Sekiguchi, Kaname Takizawa **Focus Live** 

Co-sponsored by: Terumo Corporation

12:00-13:00 **Uncheon Seminar: Experience and Insight with ESPELUX Edu** 

Chair: Kenya Nasu

Overview of ESPELUX Edu, My Experience with ESPELUX Edu -From Japanese perspective

Shunsuke Matsuno

My Experience with ESPELUX Edu -From Oversea perspective-

Hsuan-Fu Kuo

Co-sponsored by: ASAHI INTECC CO., LTD.

Live Theater LIVE

Focus Live

Focus Live

Mini Lecture

Hiroaki Matsuda

## **CTO Live Case Transmission**

In the 25th CTO Club, our operators will demonstrate some exciting approaches by outlining every aspect of strategy and procedural detail from beginning to end. Please attend to learn tips and tricks from the experts!

The Cardiovascular Institute

Operators: Maoto Habara, Michiya Kageyama, Yuji Oikawa
Imaging Commentators: Norihiro Kobayashi, Takahide Suzuki

13:10-14:40 Live Case Transmission 3

Chairs: Yuji Hamazaki Supervisor: Yasumi Igarashi

Tomoko Kobayashi Commentators: Chi-Jen Chang, Fumitaka Hosaka

Shozo Ishihara, Anek Kanoksilp Koshi Matsuo, Yoshinori Shimooka

14:40-16:10 Live Case Transmission 4

Chairs: Ichiro Hamanaka Supervisor: Satoru Otsuji

Byeong-Keuk Kim Commentators: Mohamed Ayoub, Adrian Low

Takafumi Tsuji Takeshi Niizeki, Hisayuki Okada Masaaki Okutsu, Takeshi Serikawa

16:10-17:50 Live Case Transmission 5

Chairs: Rei Fukuhara Supervisor: Eisho Kyo
Hiromasa Katoh Commentators: Takenori D

Hiromasa Katoh Commentators: Takenori Domei, Masaki Fujita Jaikirshan Khatri Kenii Kawaiiri Hee Yeol Kim Pat

kirshan Khatri Kenji Kawajiri, Hee Yeol Kim, Patrick Lim Muenpetch Muenkaew, Yuya Nakagawa Focus Live & Mini Lecture

Nobuhiko Yoshijima (Saiseikai Utsunomiya Hospital) Co-sponsored by: Kaneka Medix Corporation

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

Co-sponsored by: Abbott Medical Japan LLC

Co-sponsored by: CANON MEDICAL SYSTEMS CORPORATION

## **CTO Live Case Transmission: Special Live Session**

Join us for an exclusive educational session featuring Dr. Mashayekhi as the operator, where we explore contemporary European interventional strategies and procedural techniques. Through a real case demonstration, you will gain valuable insights into case planning —utilizing ESPELUX Edu as one of the references for pre-procedure measurements— and decision—making, while highlighting Dr. Mashayekhi's approach to CTO-PCI. Whether you are looking to refine your approach or broaden your international perspective, this session provides a unique opportunity to experience global techniques while staying in Japan.

Do not miss this opportunity to learn from a European expert.

Campus Bio-Medico Hospital, Italy

Operator: Kambis Mashayekhi

18:00-19:00 Live Case Transmission 6

Chairs: Shunsuke Matsuno Supervisor: William Lombardi
Margaret B. McEntegart Commentators: Mohamed Ayoub, Katsuyuki Hasegawa

Kenya Nasu Seiji Kano, Byeong-Keuk Kim

Wataru Nagamatsu, Eugene Brian Wu

Co-sponsored by: ASAHI INTECC CO., LTD.

#### **Educational Theater**

9:50-11:50

# International Joint Session: IJCTO@CTO Club

Co-sponsored by: CANON MEDICAL SYSTEMS CORPORATION

12:00-13:00

## **1** Luncheon Seminar:

How to treat the various complex lesions in daily practice in the Asia-Pacific

Chair: Wataru Nagamatsu

Panelists: Patrick Lim, Naoki Shibata, Bernand Wong

Lectures: Hiroaki Matsuda, Feng-Yu Kuo, M.D.

Co-sponsored by: Kaneka Medix Corporation

13:10-16:00

# International Joint Session: APCTO@CTO Club International Live Demonstration from Liverpool Hospital

As part of our activities, the AP CTO Club has been working to publish and promote CTO guide wire crossing algorithms, safety, and standardization of antegrade wiring (ADAPT wiring). In addition, we have been working on a CTO PCI style that is unique to the Asia-Pacific region, with intentional wire selection, operation, and active use of IVUS in mind. This time, we will once again have an in-depth discussion on the Asia-Pacific CTO PCI style from a global perspective through live broadcasting, and aim to share strategies and techniques. Please join us.

### Live Transmission Site: Liverpool Hospital, Australia

Operators: James Xu, Scott Harding

Proctor: Sidney Tsz Ho Lo

Chairs: Jiyan Chen, Paul Hsien-Li Kao, Wataru Nagamatsu, Eugene Brian Wu Commentators: Yu Ho Chan, Rustem Dautov, Arun Kalyanasundaram, Hiromasa Katoh

Feng Yu Kuo, Calvin Leung, Tse-Min Lu, Muenpetch Muenkaew

Bernald Wong, Hyuck Jun Yoon

16:30-17:30

## **Next-Generation Case Discussion**

In many conventional meetings, it is a general format to review and discuss the procedure after it has been completed. However, inexperienced operators may be hesitant to discuss procedures that have already been completed in front of experts. In this session, we will discuss treatment strategies with experts based on preoperative angiograms and CT. The aim is to develop a comprehensive treatment strategy, including perspectives on what to focus on and where to consider the next strategy if a certain strategy does not work. We aim for an interactive and lively discussion in which all participants can speak freely, so please join us and take advantage of this opportunity.

\*Please bring angiograms of your preoperative case and if possible, CCTA.

Moderators: Koshi Matsuo, Kenichiro Shimoji



Online Application https://cct.gr.jp/ctoclub/index.html#x05



**Live Theater** LIVE

#### **Morning Session: Live Case Pre-discussion Session** 7:50-8:25

We are going to discuss live case treatments of the day in the morning.

Let's start your day by learning strategies and exchanging opinions about live cases of the day.

Chairs: Taishi Hirai, Takeshi Serikawa Commentators: Yusuke Hosokawa, Won Young Jang, Shunsuke Kitani, Satoshi Suzuki, Lin Zhao

### **CTO Live Case Transmission**

In the 25th CTO Club, our operators will demonstrate some exciting approaches by outlining every aspect of strategy and procedural detail from beginning to end.

Please attend to learn tips and tricks from the experts!

Operators: Shunsuke Matsuno, Kenya Nasu Mie Heart Center Imaging Commentator: Katsuyuki Hasegawa

#### 8:30-10:30 Live Case Transmission 7

Chairs: Michiya Kageyama Margaret B. McEntegart Hirovuki Tanaka

Supervisor: Masahisa Yamane

Commentators: Kazuhiro Ashida, Rustem Dautov Yusuke Hosokawa. Tse-Min Lu Satoshi Suzuki. Kota Tanaka

#### Petit Focus Live

Co-sponsored by: CANON MEDICAL SYSTEMS CORPORATION

#### 10:30-11:50 Live Case Transmission 8

Chairs: Yoshifumi Kashima Feng Yu Kuo Yuji Oikawa

Supervisor: Jivan Chen

Commentators: Shunsuke Kitani, Hiroaki Matsuda Hun Sik Park, Cheng Chun Wei

Tomohiro Yamaguchi, Masataka Yoshinaga

#### Focus Live & Mini Lecture

Hiroaki Matsuda

Co-sponsored by: NIPRO CORPORATION

Petit Focus Live

Co-sponsored by: CANON MEDICAL SYSTEMS CORPORATION

## 12:00-13:00 **Luncheon Seminar: Tip Detection Method in CTO PCI**

Chair: Atsunori Okamura

Tip Detection Method in CTO PCI  $\sim$ Overview and Latest TOPICS $\sim$ Masato Ishikawa

Tip Detection: Intra-plague tracking

Yoii Sumimoto (Kure Medical Center and Chugoku Cancer Center)

## Tip Detection ADR

Norihiro Kobayashi

Co-sponsored by: *Terumo Corporation* 

### **CTO Live Case Transmission**

In the 25th CTO Club, our operators will demonstrate some exciting approaches by outlining every aspect of strategy and procedural detail from beginning to end.

Please attend to learn tips and tricks from the experts!

Operators: Yuji Hamazaki, Kenichiro Shimoji

Imaging Commentators: Hidenari Matsumura (Saiseikai Utsunomiya Hospital), Mitsunori Mutou

#### 13:10-14:40 Live Case Transmission 9

Chairs: Maoto Habara V. Surya Prakasa Rao Junji Ýajima

Ootakanomori Hospital

Supervisor: Yasushi Asakura

Commentators: Chee Yang Chin, Shinya Fujita Cheuk Bong Ho, Arun Kalyanasundaram Norihiro Kobayashi, Masakazu Nagaoka

Masaki Tanabe

#### Mini Lecture

Role of mechanical circulatory support in protected PCI

Taishi Hirai

Co-sponsored by: Abiomed Japan KK

#### 14:40-16:30 Live Case Transmission 10

Chairs: Lei Ge Wataru Nagamatsu Atsunori Okamura

Supervisor: Masahiko Ochiai

Commentators: Shingo Hosogi, Shozo Ishihara, Do Hoi Kim Nae Hee Lee, Shih-Chi Liu, Takanobu Mitarai

Bernard Wong

#### Focus Live & Mini Lecture

One and only polymer free DES BioFreedom™ Ultra From a point of view of short and long term follow up of OCT findings Kaname Takizawa

Co-sponsored by: Kaneka Medix Corporation

#### **Educational Theater**

9:00-10:10

# Case Competition: My most impressive case in CTO PCI

Among submitted cases, four exemplary cases will be selected as "oral presentation" at the Case Competition and other cases with honorable mention will be selected as "online publication" during the 24th CTO Club. The best case of the Case Competition will receive an award and the presenter will be invited as a CTO Club faculty member in 2024.

Chairs: Maoto Habara, Taishi Hirai

Judges: Masaki Fujita, Hiroaki Hirase, Takeshi Niizeki

A Case of Reattempted PCI for a Long CTO in the RCA with Severe Calcification, Tortuosity, and Anomalous Origin

Yuki Yamaguchi (Saiseikai Utsunomiya Hospital, Japan)

LAD double CTO

Kiwamu Sudo (Sakurabashi Watanabe Advanced Healthcare Hospital, Japan)

A case of RCA CTO with severe tortuosity in the proximal portion

Ryusuke Yamamoto (Takaoka Minami Heart Center, Japan)

Retrograde RCA CTO PCI through LAD CTO Success after sneak peek and investment

Sharath Reddy Annam (Medicover Hospitals, India)

10:20-11:50

## International Joint Session: K-CTO@CTO Club -For Safety of CTO PCI-

Over the years, K-CTO and the CTO Club have fostered a strong spirit of friendship and mutual advancement through continued academic exchange. In celebration of the 25th CTO Club meeting this year, we are pleased to present a distinguished program featuring exceptional and accomplished speakers. We would be honored by your presence and sincerely hope you will join us in sharing this meaningful occasion.

Chairs: Hiromasa Katoh, Byeong-Keuk Kim, Takafumi Tsuji

Supervisor: Satoru Otsuji

Panelists: Jung-Joon Cha, Takenori Domei, Rei Fukuhara, Jung-Kyu Han

Jong-Young Lee, Takanobu Mitarai, Jon Suh

Hemodynamics management during CTO procedure

Taishi Hirai

**Complications management during CTO procedure** 

Takahide Suzuki

**Optimizing Strategies for Re-attempt CTO PCI** 

Yeon-Jik Choi

Lesson from Nightmare case

Norihiro Kobayashi

Lesson from challenging case

Jung-Hee Lee

**Lesson from Nightmare case** 

Makoto Sekiguchi

# Hands-on Sessions

## **CTO Consultation Counter**

Young doctors, in particular, may encounter CTO cases that they do not know how to treat or that they have failed to treat. In the CTO Consultation Counter, experienced CTO Club directors and faculty members will review your case and provide advice and feedback through discussion with you. We are waiting for your application. If there is a slot available, you are also welcome to join for a consultation without an appointment.

Location: CTO Consultation Counter Booth, Exhibition, 5F, WINC Aichi

Language: English / Japanese

Participation Fee: Free (Registration for the 25th CTO Club is required.)

\*Please prepare the angiogram of your planned treatment case or your unsuccessful case, along with a slide presentation (Summarized in one PowerPoint slide).

Capacity: 8 (1 person for 1 time slot. First come first served.)

	June 13 (Fri.)	June 14 (Sat.)		
Time	Advisors	Time	Advisors	
10:30-11:30	Yuji Hamazaki Hiromasa Katoh	09:00-10:00	Yuji Oikawa Yoshiaki Ito	
13:10-14:10	Takafumi Tsuji Taishi Hirai	10:30-11:30	Wataru Nagamatsu Kazuhiro Ashida	
14:40-15:40	Ryohei Yoshikawa Shunsuke Matsuno	13:10-14:10	Atsunori Okamura Michiya Kageyama	
16:10-17:10	Kenya Nasu Takeshi Niizeki	14:40-15:40	Junji Yajima Maoto Habara	

#### **Online Application Form**

https://forms.office.com/r/sQHKPtZRg8



## **ESPELUX Edu Hands-on Training**

In recent years, the importance of setting two orthogonal working views (perpendicular views) has been reemphasized in order to improve the accuracy of CTO wiring. ESPELUX Edu is a software to find two views that are perpendicular to the target distal vessel and are orthogonal to each other based on angiograms. In this session, you will learn how to use ESPELUX Edu in real-world clinical practice through expert demonstrations and hands-on training. We look forward to seeing you in this session.

Location: ESPELUX Edu Hands-on Training Booth, Exhibition, 5F, WINC Aichi

Language: English / Japanese

Participation Fee: Free (Registration for the 25th CTO Club is required.) \*Please bring your CTO case angiograms (DICOM format) if possible.

Capacity: 15 (5 persons for 1 time slot. First come first served.)

<b>June 13 (Fri.)</b> 13:10-14:10		<b>June 14 (Sat.)</b> 9:00-10:00		<b>June 14 (Sat.)</b> 10:30-11:30	
Trainer: Kenichiro Shimoji		Trainer: Takafumi Tsuji		Trainer: Maoto Habara	
Demonstration	20min.	Demonstration	20min.	Demonstration	20min.
Hands-on (5 persons)	40min.	Hands-on (5 persons)	40min.	Hands-on (5 persons)	40min.

## **Online Application Form**

https://forms.office.com/r/GdSMSR1PGj



# Hands-on Sessions

## **TD-AW & TD-ADR Hands-on Training**

Recently, IVUS-guided CTO wiring using the tip detection method has become a hot topic in Japan and abroad. In this session, you can learn about Tip-detection Antegrade Wiring (TD-AW) and Antegrade Dissection Re-entry (TD-ADR) in detail through lectures by experts, including Dr. Okamura and Dr. Yoshikawa, as well as hands-on training using CTO simulation models. We are waiting for your participation.

Location: TD-AW & TD-ADR Hands-on Training Booth, Exhibition, 5F, WINC Aichi

Language: English / Japanese

Participation Fee: Free (Registration for the 25th CTO Club is required.) \*Please bring your CTO case angiograms (DICOM format) if possible.

Capacity: 24 (8 persons for 1 time slot. First come first served.)

<b>June 13 (Fri.)</b>		<b>June 14 (Sat.)</b>		<b>June 14 (Sat.)</b>	
13:10-14:10		9:00-10:30		10:30-12:00	
Trainers: Ryohei Yoshikawa		Trainers: Atsunori Okamura		Trainers: Satoshi Suzuki	
Masato Ishikawa		Masato Ishikawa		Kota Tanaka	
Mini Lecture	15min.	Mini Lecture	15min.	Mini Lecture	15min.
Hands-on (8 persons)	75min.	Hands-on (8 persons)	75min.	Hands-on (8 persons)	75min.

## **Online Application Form**

https://forms.office.com/r/K4GfCm16br



## Hands-on Booth

#### **ASAHI INTECC Hands-on booth with ETOSS and ESPELUX Edu**

We are excited to once again showcase ESPELUX Edu, ASAHI INTECC's first educational software, at our hands-on booth. Visitors will have the opportunity to experience a demonstration and purchase the software on-site.

We also invite you to try ETOSS, ASAHI's original hands-on training tool, designed to demonstrate guidewire manipulation techniques using the "Penetration Plane Method." This method emphasizes the importance of observing the target from two orthogonal views to achieve wire control towards the target.

New this year, we are featuring a "Heart Model" demonstration focused on the Reverse CART technique.

Do not miss this opportunity to engage with ESPELUX Edu, and guide wire and microcatheter manipulation techniques through ETOSS.

Location: ETOSS Booth, Exhibition, 5F, WINC Aichi

Date & Time: June 13 9:00-18:00 June 14 9:00-15:00

\*Pre-booking is not required. Please visit ETOSS booth on the day.

Supported by: ASAHI INTECC CO., LTD.

# Poster Presentation

Date & Time: Friday, June 13 - Saturday, June 14 (JST) Venue: Poster Posting Area, Exhibition Hall

P-01	Successful wire crossing through the whole intraplaque route after failure of tip detection-antegrade dissection re-entry	P-13	Rotational Atherectomy to Modify Proximal Cap for Successful CTO Wire Crossing Shih-hao Yu (Kaohsiung Medical University Hospital, Taiwan, R.O.C.)
	Yuki Tanaka (Sapporo Kosei General Hospital, Japan)	P-15	A case of perforation during HDR with extraplaque-like staining, successfully
P-02	A case of primary retrograde approach treatment for an RCA CTO where a guide		rescued with TD-ADR
	catheter could not be inserted.		Yutaka Tadano (Sapporo Cardio Vascular Clinic, Japan)
	Shigeki Nishiyama (Saitama Sekishinkai Hospital, Japan)	P-16	Native Severe Calcified CTO and Fractured Stent Occlusion by Calcified Nodule in RCA
P-03	Three - Dimensional Vascular Wall Assessment Enables Move - the - Cap		Tetsuya Yamamoto (Kobe University Graduate School of Medicine, Japan)
	Technique via Retrograde Approach	P-17	RCA-CTO with calcified nodule
	Hiroaki Nishida (Saiseikai Utsunomiya Hospital, Japan)		Takuma Tsuda (Nagoya Ekisaikai Hospital, Japan)
P-04	Rendezvous'- to the rescue in a failed RCA CTO antegrade PCI	P-18	Long-monorail balloon is the one of the solutions for not device passing after
	Anish Hirachan (Hospital Sultan Idris Shah, Malaysia)		passing guidewire through CTO body retrogradely.
P-05	Using a SPOT ROI function to minimize radiation during chronic total occlusion		Yasuaki Koga (Oita Prefectural Hospital, Japan)
	percutaneous coronary interventions	P-19	A case of LCx CTO treated with a bronchial-coronary artery
	Akane Miyazaki (Fujita Health University Bantane Hospital, Japan)		Tomoaki Haga (JA Aichi Koseiren Toyota Kosei Hospital, Japan)
P-06	RCA CTO anterograde PCI in severely calcified balloon uncrossable lesion using orbital atherectomy	P-20	A challenging case in which only one of the intravascular ultrasound and microcatheter could be advanced to the re-entry point due to calcification in the exit
	Dhananjay Kumar (Bhagwan Mahair Medica Superspeciality Hospital, India)		of chronic total occlusion during tip detection-antegrade dissection and re-entry
P-07	Catastrophic Complication - Before Starting a CTO PCI Procedure		Shoji Kawakami (Aso lizuka Hospital, Japan)
	Aaron Sung Lung Wong (National Heart Centre Singapore, Singapore)	P-21	A though-provoking LAD CTO case
P-08	A severely calcified long RCA CTO treated with antegrade approach using		Isamu Fukuizumi (Nippon Medical School Musashi-Kosugi Hospital, Japan)
	ESPELUX Edu	P-22	The simplest solution is often the best
	Nobuhiro Yoshijima (Saiseikai Utsunomiya Hospital, Japan)		Virag V Kushwaha (Prince of Wales Hospital, Sydney, Australia)
P-09	Learning from the failure. How to overcome the device uncrossable calcified CTO lesion.	P-23	Beyond Tip Detection: The Real Challenge
	Atthaphon Phaisitkriengkrai (Central Chest Institute of Thailand, Thailand)		Ying-Chang Tung (Linkou Chang Gung Memorial Hospital, Taoyuan, Taiwan, Taiwan, R.O.C.)
P-10	Successful PCI for CTO in LAD with Repetitive Tip-Detection ADR	P-24	Complex CTO-PCI with Subintimal Wire Externalization
	Takayuki Ishihara (Kansai Rosai Hospital, Japan)		Takushi Sugiyama (Dokkyo Medical University Nikko Medical Center, Japan)
P-11	Ambiguous cap mid LAD CTO	P-25	A Case of Retrograde Chronic Total Occlusion PCI through Tortuous Ipsilateral
	Sharath Reddy Annam (Medicover Hospitals, India)		Epicardial Channel
P-12	Rapid Switching Strategies in Antegrade CTO-PCI Technique		Koki Shishido (Shonan Kamakura General Hospital, Japan)
	Thitima Limjaroen (King Chulalongkom Memorial Hospital, Thailand)	P-26	A Case of RCA CTO Treated by Switching the View of PPV OPV Method Jumpei Koike (Omi Medical Center, Japan)

## **International Faculty Members**

Palimkar Priya Anand

Sahyadri Hospital, Pune [India]

**Mohamed Ayoub** 

University Heart Center Bad Oeynhausen [Germany]

Rajesh Badani

Aditya Birla Memorial Hospital [India]

**Mohit Bhutani** 

Amrita Hospital, Faridabad [India]

Jung-Joon Cha

Korea University Anam Hospital [Korea]

Yu Ho Chan

The CUHK Medical Centre [Hong Kong]

**Chi-Jen Chang** 

Chang Gung Memorial Hospital, Linkou [Taiwan, R.O.C.]

**Chee Yang Chin** 

National Heart Centre Singapore [Singapore]

Yeon-Jik Choi

Eunpyeong St. Mary's Hospital College of Medicine, The Catholic University of Korea [Korea]

**Rustem Dautov** 

The Prince Charles Hospital [Australia]

Lei Ge

Zhongshan Hospital, Fudan University [People's Republic of China]

Jung-Kyu Han

Seoul National University Hospital [Korea]

**Cheuk Bong Ho** 

Queen Elizabeth Hospital [Hong Kong]

Harshal Ingale

Ruby Hall Clinic [India]

Won Young Jang

ST. Vincent's Hospital [Korea]

Arun Kalyanasundaram

Promed Hospital [India]

Anek Kanoksilp

Central Chest Institute of Thailand [Thailand]

PLN Kapardhi

Care Hospitals, Hyderabad [India]

Wirash Kehasukcharoen

Central Chest Institute of Thailand [Thailand]

Jaikirshan Khatri

NewYork-Presbyterian Weill Cornell Medical Center [USA]

**Byeong-Keuk Kim** 

Severance Cardiovascular Hospital, Yonsei University College of Medicine [Korea]

Do Hoi Kim

SoonChunHyang University Hospital [Korea]

Hee Yeol Kim

The Catholic University of Korea, Bucheon St. Mary's Hospital [Korea]

Gandhamdara Kiran Kumar

Care Hospitals, Hyderabad [India]

Vinit Kumar

Heart Hospital, Patna [India]

Feng Yu Kuo

Veterans General Hospital, Kaohsiung [Taiwan, R.O.C.]

Jong-Young Lee

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