

10th ANNIVERSARY

MLCTO

SHARING KNOWLEDGE

**MULTI LEVEL CTO
ANNUAL COURSE**

**JUNE 26th - 28th
2025**

**PALAIS DE LA MÉDITERRANÉE
NICE, FRANCE**

FINAL PROGRAM

CO-DIRECTORS

Alexandre AVRAN, MD | Kambis MASHAYEKHI, MD | Stéphane RINFRET, MD

www.course.mlcto.com

ML CTO FINAL PROGRAM

WEDNESDAY, JUNE 25th 15:00 > 17:00

PRE-CONGRESS COURSES p. 17

THURSDAY, JUNE 26th 08:30 > 18:15

DAY 1. 10 YEARS OF BASICS p. 19

FRIDAY, JUNE 27th 08:30 > 18:45

DAY 2. 10 YEARS OF IMPROVEMENT p. 21

SATURDAY, JUNE 28th 09:00 > 12:45

DAY 3. 10 YEARS OF SHARING p. 28

All of the coronary scoring balloons used during the live cases will be provided by **iVascular**
therapies for living

PRE-CONGRESS COURSE 1**15:00
17:00****GUIDE EXTENSION & MICROCATHETER USAGE ACROSS THE SPECTRUM OF PCI COMPLEXITY****Charleston Room**ML CTO Course Director: **Stéphane Rinfret**Experts: **Emmanouil Brilakis (USA) & Gregor Leibundgut (Switzerland)**

- Guide extension usage across the spectrum of PCI complexity (from basic to advanced use)
- Microcatheter usage across the spectrum of PCI complexity (from basic to advanced use)
- Case in a box
- Q&A with all of the experts
- Hands-on workshop

In partnership with:

Teleflex™
Empowering the future of healthcare**PRE-CONGRESS COURSE 2****15:00
17:00****NAVIGATING COMPLEXITY: CTO PCI STRATEGIES & INSIGHTS****Paso Doble Room**Moderator: **Roberto Garbo (Italy)**

- How to deal with calcified and tortuous CTOs? The right tool for the right patient - **Pietro L. Laforgia (France)**
- Redefining CTO Strategies: Case example with Elong™ - **Yasser Sadek (Egypt)**
- How to cross CCO collaterals during retrograde PCI - **Zhang Bin (China)**
- Achieving success in complex and CTO PCI with Elong™ microcatheters - **Jack Andrews (UK)**
- New toolkit for CTO and CHIP patients; Anyreach CTO wires and Elong™ microcatheters - **Cuneyt Kocas (Turkey)**
- Hybrid approach for complex RCA double CTO: a live-in-a-box case - **Roberto Garbo (Italy)**
- Group discussion – all experts

In partnership with:

 **APT Medical**

PRE-CONGRESS COURSE 3**15:00
17:00****IVUS INTERACTIVE WORKSHOP: UNDERSTAND THE COMPLEXITY****Fox Trot Room**

ML CTO Course Director: Kambis Mashayekhi

Experts: Elliot Smith (United Kingdom) & Stéphane Carlier (Belgium)

- Discussions using IVUS workstations
- Explore AVVIGO+ software to plan PCI with data-driven insights
- Engage in simulation learning to master optimal IVUS-guided PCI

In partnership with:

**Boston
Scientific**
Advancing science for life™**PRE-CONGRESS COURSE 4****15:00
17:00****FROM TRADITION TO TRANSFORMATION:
THE NEW FRONTIER FOR CTO TREATMENT****Bosa Nova Room**

ML CTO Course Director: Alexandre Avran

Experts: Tin Lam Lap (China) & Khalid Aljohani (Saudi Arabia)

- Co-creation sessions to address key tips and tricks: Simplify the Complex
- The IVUS debate: Essential guidance or excessive complexity - **Tin Lam Lap**
- Breaking Barriers: Revolutionizing CTO Treatment with Drug-Eluting Balloons only - **Khalid Aljohani**

In partnership with:

OrbusNeich **25**
YEARS OF INNOVATION

08:30**MLCTO 2025 INTRODUCTION | A 10-YEAR JOURNEY**

Stéphane Rinfret, Alexandre Avran & Kambis Mashayekhi

08:45

- "Scrub in" lucky draw

09:00**10:15****SESSION 1 CURRENT BASIC TECHNIQUES FOR ANTEGRADE WIRING**

Co-director: Stéphane Rinfret

Co-moderators: Omer Göktekin & Maksymilian Opolski

The Devil's Advocate: Amr El Hadidy

- Modern antegrade wiring in 2025 - Elliot Smith
- Parallel wire techniques in 2025 - Gregor Leibundgut

TIME TRAVEL: MY ANTEGRADE TECHNIQUES OVER THE YEARS - Göran Olivecrona

- Dealing with a bifurcation and use a dual lumen microcatheter - Maksymilian Opolski
- Dealing with lack of support - Benjamin Faurie
- IVUS for antegrade CTO PCI: the basics - Stéphane Carlier
- **LIVE-IN-A-BOX:** SSDR and uncrossable lesion - Mihajlo Kovačić

**10:15**

Coffee break & Exhibition visit

SESSION 2 CURRENT BASIC TECHNIQUES FOR ANTEGRADE DISSECTION AND RE-ENTRY

10:45

Co-director: Alexandre Avran

12:45

Co-moderators: Artis Kalnins & Yasser Sadek

The Devil's Advocate: Göran Olivecrona



LIVE CASE #1 From Polyclinique Saint-George

Operators: **Masahisa Yamane & Roberto Garbo**

IVUS commentator: **Olga Toleva**

Provokers: Stefan Harb & Paul Knaapen



- How to enter the extraplaque space - **Khaldoon Alaswad**
- How knuckle wires roll and travel extraplaque - **Stéphane Rinfret**
- How to perform antegrade reentry with dedicated devices - **Emmanouil Brilakis**

TIME TRAVEL: MY ADR TECHNIQUES OVER THE YEARS - William B. Lombardi

- How to perform wire-based reentry - **Claudia Cosgrove**
- "Scrub in" lucky draw - **Alexandre Avran**

12:45

Lunch break & Exhibition visit

SESSION 3 CURRENT BASIC TECHNIQUES FOR RETROGRADE CTO PCI

13:45
15:45

Co-director: Kambis Mashayekhi
Co-moderators: Ioannis Tsiafoutis & Chris Zambakides
The Devil's Advocate: Thomas Hovasse



LIVE CASE #2 From Centre Cardio-Thoracique Monaco

Operators: **Alexandre Avran & Stéphane Rinfret**

IVUS commentator: **Stéphane Carlier**

Provokers: Khaldoun Alaswad & Gabriele Gasparini



- How to plan my first retrograde procedure - **Mohaned Egred**
- How to cross a septal collateral channel - **Roberto Diletti**

TIME TRAVEL: MY RETROGRADE TECHNIQUES OVER THE YEARS - Masahisa Yamane

- Retrograde approaches to the distal cap - **Shunsuke Matsuno**
- How to connect from an antegrade and retrograde approach - **Gabriele Gasparini**
- How to snare and externalize long wires - **Amr El Hadidy**

15:45 Coffee break & Exhibition visit

SESSION 4 CURRENT BASIC TECHNIQUES IN COMPLICATION MANAGEMENT

16:15

Co-director: Kambis Mashayekhi

18:15

Co-moderators: Javier Escaned & Eugene Wu

The Devil's Advocate: Antonio Serra



LIVE CASE #3 From Polyclinique Saint-George



Operators: **Emmanouil Brilakis & Kate Kearney**

IVUS commentator: **Olga Toleva**

Provokers: Mickael Behnes & Luis Ybarra

**Boston
Scientific**
Advancing science for life™

• **ML CTO AMBASSADOR AWARDS**

- **LIVE-IN-A-BOX:** IVUS in complex CTO: twice is the only way to live - **Stéphane Carlier**  A Bracco Company
- How to perform coiling for collateral or distal perforation - **Andrea Gagnor**
- How to manage a main vessel perforation - **Nicolas Boudou**
- **LIVE-IN-A-BOX** - **Roberto Garbo**  Information For Nurses
- When it goes wrong, teamwork in Cath Lab crisis - **Manfredi Arioti**

TIME TRAVEL: PERFORATION MANAGEMENT OVER THE YEARS - Kambis Mashayekhi

- "Scrub in" lucky draw - **Kambis Mashayekhi**

18:15

Adjournment

08:30
10:50

SESSION 5 IMPROVING YOUR ANTEGRADE SKILLS

Co-director: Alexandre Avran

Co-moderators: Andrea Gagnor & Masahisa Yamane

The Devil's Advocate: Hsien-Li Paul Kao



LIVE CASE #4 From Polyclinique Saint-George

Operators: **Kambis Mashayekhi & Khaldoun Alaswad**


IVUS commentator: **Olga Toleva**

Provokers: Pierfrancesco Agostoni & William B. Lombardi



- When the microcatheter cannot cross - **Emmanouil Brilakis**
- Device selection for plaque modification - **James Spratt**

TIME TRAVEL: THE CARLINO TECHNIQUE OVER THE YEARS - Mauro Carlino

- **LIVE-IN-A-BOX** - **Pietro L. Laforgia** 
- Hairpin or reverse wiring: simpler than it looks - **Scott Harding**
- The use of IVUS to puncture an ambiguous proximal cap - **Roberto Garbo**

TIME TRAVEL: THE MINIMALIST APPROACH OVER THE YEARS - Pierfrancesco Agostoni

- **LIVE-IN-A-BOX:** Drug Coated Balloons in CTOs: When and how? **Beatriz Vaquerizo**
- "Scrub in" lucky draw - **Alexandre Avran**



10:50 Coffee break & Exhibition visit

FRIDAY, JUNE 27th

DAY 2. 10 YEARS OF IMPROVEMENT

SESSION 6 GETTING BETTER WITH ADR TECHNIQUES

11:20

Co-director: **Stéphane Rinfret**

13:00

Co-moderators: **Sergey Furkalo & Laura Novelli**

The Devil's Advocate: **Javier Escaned**



LIVE CASE #5 From Centre Cardio-Thoracique Monaco

Operators: **Claudiu Ungureanu & Gregor Leibundgut**

IVUS Commentator: **Stéphane Carlier**

Provokers: **Alexandre Avran & Arthur Darmon**

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 **TERUMO**
INTERVENTIONAL
SYSTEMS

- BASE, sidebase, power knuckle to get going - **Alexander Nap**
- How to manage ISR CTO when doing ADR - **Stylianios Pyxaras**
- The role of STAR in 2025 - **Kate Kearney**



- **CHECKMATE!** - **Bertrand Ledermann & Yannick Pelletier**

13:00

Lunch break & Exhibition visit

SESSION 7 GETTING BETTER WITH RETROGRADE TECHNIQUES

14:00
16:00

Co-director: Alexandre Avran

Co-moderators: Mohamed Aymen Ben Abdessalem & Nicolas Boudou

The Devil's Advocate: Adriaan Kraaijeveld



LIVE CASE #6 From Polyclinique Saint-George

Operators: **Pierfrancesco Agostoni & Paul Knaapen**

IVUS commentator: **Olga Toleva**

Provokers: Roberto Garbo & Elliot Smith



- How to navigate and cross an epicardial collateral channel - **Hsien-Li Paul Kao**
- How to manage an epicardial collateral perforation - **Bilal Iqbal**

TIME TRAVEL: EPICARDIAL COLLATERAL CROSSING OVER THE YEAR - Sevkett Gorgulu

- Complementary techniques to externalization: tip-in and rendez-vous - **Mihajlo Kovačić**
- IVUS to solve difficult reverse CART - **Ahmed El Guindy**

16:00

Coffee break & Exhibition visit

FRIDAY, JUNE 27th

DAY 2. 10 YEARS OF IMPROVEMENT

SESSION 8 ALWAYS MORE CASES

16:30

18:45

Co-director: **Stéphane Rinfret**

Co-moderators: **Alexandru Achim & Ali El Sayed**

The Devil's Advocate: **Mohaned Egred**

MLCTO ACADEMY CASE CONTEST WINNERS

- Successful IVUS-guided antegrade fenestration and reentry two months after investment - **Marouane Boukhris**
- A novel approach: Antegrade Wire-based Fenestration and Channel Tracking technique (AWF-CT) - **Cuma Süleymanoglu**
- A Challenging RCA CTO case - **George El Hachem**

LIVE CASE #7 From Centre Cardio-Thoracique Monaco



Operators: **Gabriele Gasparini & James Spratt**

IVUS commentator: **Stéphane Carlier**

Provokers: **Ahmed El Guindy & Alexander Nap**



LIVE CASE #8 From Georgia Heart Institute/Northeast Georgia Medical Center, Gainesville, GA, USA



Operators: **Falgun Patel & Glen Henry**

Provokers: **Kate Kearney & Hsien-Li Paul Kao**



- **LIVE-IN-A-BOX** - **Pierfrancesco Agostoni**

MLCTO ACADEMY CASE CONTEST WINNERS

- Balloon entrapment with vessel perforation... what else could happen? **Damien Broucsault**
- Fail, invest, and make the second attempt a charm! **Mohamed Aymen Ben Abdessalem**
- Aorto-ostial in-stent CTO with struts protrusion in the aorta - **Anastasios Barmpas**

18:45 Adjournment



SESSION 9 IT'S ALL ABOUT THE PATIENT: CASE-BASED LEARNING WITH THE MASTERS**09:00****10:40**

Co-director: Kambis Mashayekhi

Co-moderators: Elliot Smith & Vojtech Novotny

The Devil's Advocate: Marouane Boukhris

- A failure we can all learn from - **Stefan Harb**
- A fatal complication we can all learn from - **Khaldoon Alaswad**
- An improvised technique we can all learn from - **Stephane Rinfret**
- A mistake we can all learn from - **James Spratt**
- A great save we can all learn from - **Roberto Garbo**

FLYING HIGHER AND HIGHER

- Collateral physiology and its impact on CTO - **Javier Escaned**
- CTO: a life-threatening substrate for shock, arrhythmia and sudden death - **Michael Behnes**
- The new HDR technique - **Mauro Carlino**
- Protected CHIP and CTO PCI under Impella Support - **Mohamed Ayoub** **Johnson&Johnson MedTech**
- Please help me understand 3D wiring!!!! **Eugene Wu**

10:40**Coffee break & Exhibition visit**

11:00
12:45

SESSION 10 ML CTO FAMILY

Co-director: Stéphane Rinfret



LIVE CASE #9 From Centre Cardio-Thoracique Monaco

Operators: **Rustem Dautov & William B. Lombardi**

IVUS commentator: **Stéphane Carlier**

Provokers: Mohamed Ayoub & Gregor Leibundgut



ML CTO "FAMILY FEUD"

12:45 ML CTO Closing Lunch



PARAMEDICS PROGRAM

THURSDAY, JUNE 26th

08:30 > 17:00

FRIDAY, JUNE 27th

09:00 > 12:45

THURSDAY, JUNE 26th

08:30
08:45

Opening session - 10 years of the MLCTO

Hervé Faltot & Ricardo Esteves

- How I prepare my Cathlab - **Mafalda Correia**
- How I prepare my patient - **Valentino Oriolo**

09:30
10:15

SESSION 1 ANTEGRADE COMPLEX SITUATION

Chairwoman: Marie-Jeanne Bertrand

- True-to-true lumen, no other option! **Fabien Picard**
- ADR Techniques for CTO PCI - **Marie-Jeanne Bertrand**

10:15

Coffee break & Exhibition visit

10:45
12:45

SESSION 2 ADVANCED LEVEL

Chairman: Nicolas Lhoest



LIVE CASE #1 From Polyclinique Saint-George

Operators: **Masahisa Yamane & Roberto Garbo**

IVUS commentator: **Olga Toleva**

Provokers: Stefan Harb & Paul Knaapen

- Retrograde via epicardial collaterals: step-by-step approach - **Nicolas Lhoest**
- Retrograde complications: how to manage - **Helena Coreira**
- A terrible collateral channel rupture - **Ricardo Esteves**

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SYSTEMS

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12:45

Lunch break & Exhibition visit

13:45
14:45

SESSION 3 IMAGING MODALITIES PART 1



LIVE CASE #2 From Centre Cardio-Thoracique Monaco

Operators: **Alexandre Avran & Stéphane Rinfret**

IVUS commentator: **Stéphane Carlier**

Provokers: Khaldoon Alaswad & Gabriele Gasparini



- IVUS in CTO PCI - **Ricardo Esteves**

14:45
15:45

SESSION 4 CTO WORLD CUP VS

- The big final France vs Italy - **Fanny Villanova & Matteo Longoni**

15:45

Coffee break & Exhibition visit

16:15
17:15

SESSION 5 EXPERIENCE SHARING IN CTO



LIVE CASE #3 From Polyclinique Saint-George

Operators: **Emmanouil Brilakis & Kate Kearney**

IVUS commentator: **Olga Toleva**

Provokers: Mickael Behnes & Luis Ybarra



- My best memory - **Jean-Bernard Pausé**
- My worst nightmare - **Nathalie Ferlatte**

17:15

End of the day

FRIDAY, JUNE 27th

09:00
10:50

SESSION 6 WHAT'S NEW SINCE ML CTO 2024?

- Updating current techniques and material - **Hervé Faltot**
- Basic equipment to start a CTO program and case selection - **Jordan Williams**

10:50

Coffee break & Exhibition visit

11:20
13:00

SESSION 7 HANDS-ON MATERIAL

- Hands-on session with industry partners



13:00

Paramedics closing & lunch

A detailed wireframe model of a human heart, showing the ventricles, atria, and major blood vessels. The model is rendered in a translucent, grid-like style with pink and blue lines. It is positioned on the left side of the image, with a network of nodes and lines extending from it across the background.

10TH ANNIVERSARY

MLCTO

SHARING KNOWLEDGE

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