



9TH EDITION

MLCTO

SHARING KNOWLEDGE

**MULTI LEVEL CTO
ANNUAL COURSE**

27TH-29TH JUNE 2024

**PALAIS DE LA MÉDITERRANÉE
NICE, FRANCE**

SCIENTIFIC PROGRAM

ACADEMY.MLCTO.COM

CO-DIRECTORS

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



ML CTO SCIENTIFIC PROGRAM

15:30 > 17:30 **WEDNESDAY, JUNE 26TH**
PRE-CONGRESS COURSES

08:45 > 18:00 **THURSDAY, JUNE 27TH**
BASIC LEVEL

08:30 > 18:45 **FRIDAY, JUNE 28TH**
INTERMEDIATE LEVEL

08:45 > 13:15 **SATURDAY, JUNE 29TH**
ADVANCED LEVEL

15:30 > 17:30

WEDNESDAY, JUNE 26TH

PRE-CONGRESS COURSES

15:30
17:30

PRE-CONGRESS COURSE 1 BRIDGING THE GAP: SHARING EXPERTISE IN COMPLEX PCI CASES

- Introduction - [Alexandre Avran](#)
- Role of Microcatheter: when and how? [Ahmed Hailan](#)
- In-stent CTO with distal bifurcation - [Alfonso Jurado](#)
- The antegrade & retrograde approach: my best tip & tricks - [Sevket Gorgulu](#)
- How to deal with complex lesions in CTO PCI - [Ehsan Bahramali](#)
- How to deal with ischemia or pressure dampening in complex PCI? [Cheaito Radi](#)

Expert discussion



in partnership with

15:30
16:30

PRE-CONGRESS COURSE 2 ENHANCE YOUR CTO-PCI TOOLBOX: MEET FINECROSS M3

- Finecross M3 design and indications - [Andrea Gagnor](#)
- Where does it fit in our algorithm? [Gregor Leibundgut](#)
- First clinical cases and impressions - [Kambis Mashayekhi](#)



in partnership with

15:30 > 17:30

WEDNESDAY, JUNE 26TH

PRE-CONGRESS COURSES

15:30
17:30

PRE-CONGRESS COURSE 3

GET COMFORTABLE WITH IVUS: FROM BASICS TO CTO APPLICATION

Speakers: Stéphane Rinfret & Stéphane Carlier

- Why IVUS?
- Basics of IVUS HD interpretation
- 2 CTO cases, from simple to complex

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15:30
17:30

PRE-CONGRESS COURSE 4

INTRAVASCULAR IMAGING IN COMPLEX PCI AND CTO CASES WITH OCT

Speakers: Evan Shlofmitz, Richard Shlofmitz & Allen Jeremias

- Introduction to intravascular imaging and OCT
- Morphology assessment with OCT including case discussion and hands-on stations
- Complex CTO PCI case performed with OCT - case discussion

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17:30

End of the day

08:45 **ML CTO 2024 INTRODUCTION, «CTO PCI, a science or an art?»**

08:45
10:15 **SESSION 1 BASIC CTO PCI MANEUVERS YOU NEED TO MASTER**

Chair: Carlo Di Mario | **Co-Chairs:** Omer Goktekin & Mihajlo Kovačić

- Large CTO PCI registries vs. clinical trials: Apples and oranges? [Emmanouil Brilakis](#)
- Guide catheters and access sites: my approach - [Claudia Cosgrove](#)
- The art of handling wires and microcatheter for AWE - [Goran Olivecrona](#)
- Guide extensions: essential in many ways - [Ali El Sayed](#)
- Parallel wiring is not dead - [Jaikirshan Khatri](#)
- The art of using dual lumen catheters - [Nicolas Boudou](#)
- ML CTO ACADEMY registries - [Chadi Ghafari](#)
- CTO Toolbox 3.0 - [Mihajlo Kovačić](#)

10:15 **Coffee break & Exhibition visit**

10:45 > 12:30

THURSDAY, JUNE 27TH

BASIC LEVEL

10:45
12:30

SESSION 2 BASIC COMPLICATION MANAGEMENT SKILLS YOU ASKED US TO SHOW YOU

Chair: Thomas Hovasse | **Co-Chairs:** Scott Harding & Yasser Sadek

Provoker: Elliot Smith



LIVE CASE #1: LONG CALCIFIED RCA CTO WITH BIFURCATION

From Polyclinique Saint-George, Nice

Operators: Claudiu Ungureanu & Allison Hall

IVUS Commentator: Stéphane Carlier



- 3 min product review
- The art of managing entrapped material - **Roberto Garbo**
- The art of managing a tamponnade - **Benjamin Faurie**

12:30 Lunch break & Exhibition visit

13:30
15:30

SESSION 3 SOLUTIONS TO COMMON ANTEGRADE PROBLEMS

Chair: Antonio Serra | **Co-Chairs:** Tarek Rashid & Sergey Furkalo

Provoker: Amr El Hadidy



LIVE CASE #2: CX CTO WITH SMALL IPSILATERAL COLLATERAL BRANCH

From Centre Cardio-Thoracique de Monaco

Operators: Anja Øksnes & Alexandre Avran

IVUS Commentator: Ziad Ali

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- 3 min product review
- My wire crossed but the microcatheter can't - **Mohamed Ayoub**
- The proximal cap is ambiguous - **Chris Zambakides**
- Calcium Modification Techniques for CTO Management - **Roberto Diletti**
- Multivessel disease with CTO: how to approach? **Thomas Hovasse**
- Shocked to get retrograde with ACISTance - **Ram Vijayaraghavan**



15:30 Coffee break & Exhibition visit

16:00 > 18:00

THURSDAY, JUNE 27TH

BASIC LEVEL

16:00
18:00

SESSION 4 CAN WE DO BETTER AND SAFER?

Chair: Masahisa Yamane | **Co-Chairs:** Edward Koifman & Robert F. Riley

Provoker: Khaldoon Alaswad






LIVE CASE #3: VERY LONG OSTIAL RCA CTO WITH SEPTAL COLLATERAL CHANNEL

From Polyclinique Saint-George, Nice

Operators: Ignacio Amat-Santos & Kate Kearney

IVUS Commentator: Stéphane Carlier

 **ASAHI INTECC**

- 3 min product review
- Avoiding full metal jacket in CTOs : role for DCB? **Andrew Ladwiniec** 
- New balloon technology for plaque modification in CTO PCI - **Mohamed Ayoub**  **OrbusNeich®**
Pioneers in life-changing technologies
- Practical Applications of the SCAI Calcified Coronary Lesion Algorithm in Treating CTOs

Robert F. Riley 

18:00 End of the day

INTERMEDIATE LEVEL

08:30
10:40

SESSION 5 MORE ADVANCED CTO PCI MANEUVERS YOU NEED TO MASTER

Chair: Emmanouil Brilakis | **Co-Chairs:** Rustem Dautov & Khalid Tammam

Provoker: Roberto Garbo



LIVE CASE #4: LAD CTO DIFFUSE DISEASE WITH SMALL SEPTAL COLLATERAL CHANNEL

From Polyclinique Saint-George, Nice

Operators: Kambis Mashayekhi & Paul Hsien-Li Kao

IVUS Commentator: Stéphane Carlier



- 3 min product review
- The art of handling wires and microcatheters (an Asian Perspective) - Masahisa Yamane
- Deconstructing Wire Skills (a Western perspective) - Elliot Smith
- The art of knuckling guidewires - Stéphane Rinfret
- Preventing complications: the essential mindset - Gregor Leibundgut

10:40 Coffee break & Exhibition visit

11:15 > 13:15

FRIDAY, JUNE 28TH

INTERMEDIATE LEVEL

11:15
13:15

SESSION 6 SOLUTIONS TO COMMON ANTEGRADE & RETROGRADE PROBLEMS

Chair: Ahmed El Guindy | **Co-Chairs:** Mauro Carlino & Kate Kearney

Provoker: Stefan Harb



LIVE CASE #5: LAD CTO WITH IPSILATERAL SEPTAL COLLATERAL CHANNEL

From Centre Cardio-Thoracique de Monaco

Operators: Stéphane Rinfret & Alexander Nap

IVUS Commentator: Evan Shlofmitz

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- 3 min product review
- The art of connecting retrograde in my Western world - [Maximilian Opolski](#)
- The art of connecting retrograde in my Asian world - [Paul Hsien-Li Kao](#)
- The art of connecting antegrade from the SI space - [Khaldoon Alaswad](#)
- Putting it all together: a global algorithm for the world of CTO PCI - [Scott Harding](#)

13:15 Lunch break & Exhibition visit

INTERMEDIATE LEVEL

14:15
16:20

SESSION 7 IN-DEPTH PRACTICAL LEARNING

Chair: Mohaned Egred | **Co-Chairs:** Maximilian Opolski & Andrew Ladwiniec

Provoker: Jaikirshan Khatri



LIVE CASE #6: LONG RCA CTO WITH UNIQUE SEPTAL COLLATERAL CHANNEL

From Polyclinique Saint-George, Nice

Operators: Laurent Drogoul & Khalid Tammam

IVUS Commentator: Stéphane Carlier



- 3 min product review
- Lessons from Bill Lombardi's Podcast «The Journey to get better» - [William B. Lombardi](#)



LIVE CASE #7: IT'S NOT A RECENT DISTAL RCA OCCLUSION ! SO TRY AGAIN

From Centre Cardio-Thoracique de Monaco

Operators: Andrea Gagnor & Elliot Smith

IVUS Commentator: Allen Jeremias



- CTO PCI is a difficult sport- How to prevent injuries - [Jean-Pierre Macabee](#)

16:20 **Coffee break & Exhibition visit**

16:45 > 18:45

FRIDAY, JUNE 28TH

INTERMEDIATE LEVEL

16:45
18:45

SESSION 8 ALWAYS MORE CASES

Chair: Paul Hsien-Li Kao | **Co-Chairs:** Allison Hall & Baktash Bayani

Provoker: Khaldoon Alaswad



LIVE CASE #8: POST CABG RCA. REVERSE CART VS STAR

From UW Medical Center, Heart Institute - Montlake, Seattle

Operators: William B. Lombardi & David Elison

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- Reducing radiation exposure to the operator and the team - **Stylianios Pyxaras**
- **CALCIVLFURCATION** – how IVL helps in calcified bifurcation lesions - **Gregor Leibundgut**
- CTO PCI in reduced LV function with Impella Support - **Mohamed Ayoub**
- Tip-in or not tip-in, that's the question! **Ignacio Amat-Santos**
- ... **SURPRISE !!!** ML CTO Board

ABIOMED

**SHOCKWAVE
MEDICAL**

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18:45 **End of the day**

08:45
10:15

SESSION 9 **ADVANCED COMPLICATION MANAGEMENT SKILLS**

Chair: Joachim Büttner | **Co-Chairs:** Goran Olivecrona & Luiz Ybarra

- Managing perforations with coils and covered stents, [Luiz Ybarra](#)

MASTERS ALSO FAIL AND HAVE COMPLICATIONS!

- Why I stopped this procedure - [Alexander Nap](#)
- Why I failed this procedure - [Roberto Diletti](#)
- Why I didn't go retrograde - [Pierfrancesco Agostoni](#)
- We could not save this patient, sadly - [Emmanouil Brilakis](#)
- I learned so much from this rare one - [Arun Kalyanasundaram](#)
- This complication is more common - be prepared! [Carlo Di Mario](#)

10:15 **Coffee break & Exhibition visit**

10:45 > 13:15

SATURDAY, JUNE 29TH

ADVANCED LEVEL

10:45
13:15

SESSION 10 CLINICAL CASES BY ML CTO ACADEMY MEMBERS

Chair: Georges Sianos | **Co-Chairs:** Muzzafer Degertekin & Stéphane Carlier

Provoker: Andrea Gagnor



LIVE CASE #9: VERY LONG BLUNT RCA CTO, SECOND ATTEMPT

From Centre Cardio-Thoracique de Monaco

Operators: Khaldoon Alaswad & Ahmed ElGuindy

IVUS Commentator: Jeffrey Moses



- Proximal CTO RCA : Not what I expected - Stéphane Carlier 

Selected clinical cases to be presented by participants :

- We'll be breaking boulders...tell me what you see! Konstantin Schwarz
- Managing complications in a micro-uncrossable Reverse-CART case - Ahmed Karagöz
- Unusual complication that skipped my eyes - Ilya Litovchik
- Bifurcation blunt stump CTO treated with imaging-assisted retrograde techniques - Anastasios Barmpas
- Ostial, blunt stump LAD CTO with good collateral channels - Michael Koutouzis
- Not all CTO look alike: An unusual case of irogenic left main occlusion - Davide Cao
- Dissection Reentry in Bifurcation stent / a sequel - Ioannis Tsiafoutis

13:15 ML CTO 2024 Lunch closing



PARAMEDICS PROGRAM

08:30 > 17:30

THURSDAY, JUNE 27TH

08:45 > 13:15

FRIDAY, JUNE 28TH

08:30 Opening Session, Ricardo Esteves & Hervé Faltot

08:45
10:15 **SESSION 1 FROM BASIC TO INTERMEDIATE LEVEL**

Chair: Marie-Jeanne Bertrand

- What are the limits for an antegrade-only approach? Marie-Jeanne Bertrand
- Specific anatomy for retrograde approach - Helena Correia
- Live-in-a-box: Focus on specific materials you need (guidewires, microcatheters...) Ricardo Esteves & Hervé Faltot

10:15 Coffee break & Exhibition visit

10:45
12:30 **SESSION 2 FROM ANTEGRADE TO RETROGRADE APPROACH**

Chair: Nicolas Lhoest



LIVE CASE #1

From Polyclinique Saint-George, Nice

Operators: Claudiu Ungureanu & Allison Hall

IVUS Commentator: Stéphane Carlier



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- Only in retrograde: Adverse events - Helena Correia

12:30 Lunch break & Exhibition visit

13:30
15:15**SESSION 3 CTO WORLD CUP****LIVE CASE #2**

*From Centre Cardio-Thoracique de
Monaco*

Operators: Anja Øksnes & Alexandre Avran

IVUS Commentator: Ziad Ali

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- Coregistration in CTO PCI - **Paul Handwerk**
- Game#1: Italy **vs** UK - **Matteo Longoni vs Valentino Oriolo**
- Game#2: France **vs** Portugal - **Fanny Villanova vs Helena Correia**
- An exotic clinical case - **Jean-Bernard Pausé**

15:15

Coffee break & Exhibition visit

15:45
17:30**SESSION 4 OCT WORKSHOP** Upon registration

- How to analyse/interpret intracoronary imaging - **Ricardo Esteves**
with the support of



17:30

End of the day

08:45
10:45

SESSION 5 IMAGING MODALITIES



LIVE CASE #4

From Polyclinique Saint-George, Nice

Operators: Kambis Mashayekhi & Paul Hsien-Li Kao

IVUS Commentator: Stéphane Carlier



- IVUS: can we still do CTO PCI without it?
- OCT: how to optimize CTO procedures?
- Test your knowledge - interactive quiz - [Ricardo Esteves](#)

10:45

Coffee break & Exhibition visit

11:15
13:15

SESSION 6 HANDS-ON SESSION

- Hands-On session with industry:



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13:15

Paramedics closing



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SHARING KNOWLEDGE

ORGANIZATION

Valentine Dupendant

v.dupendant@comnco.com

Tel. +33 (0)6 29 80 82 46

Aurélie Tourret

a.tourret@comnco.com

Tel. +33 (0)6 09 10 54 16

SCIENTIFIC CONTACT

Morgane Herrada

m.herrada@comnco.com

Tel. +33 (0)7 83 45 45 63