

2ND EDITION

MLCTO

SHARING KNOWLEDGE

PRELIMINARY
PROGRAM

MULTI-LEVEL CTO COURSE

JUNE 29TH - 30TH
JULY 1ST 2017

Nice, French Riviera

DIRECTORS

Alexandre AVRAN, MD
Stéphane RINFRET, MD

SCIENTIFIC COORDINATOR

Max AMOR, MD

International speakers & operators

Live demonstrations
from Tzank Institute

Paramedics session

Simultaneous
translation



In collaboration with

incathlab 

www.mlcto.com

2ND EDITION

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WELCOME LETTER

Dear friends,

The recanalization of coronary chronic total occlusion (CTO) has become an important procedure to treat symptomatic patients with ischemia or heart failure. It is a growing and constantly evolving discipline, allowing us to improve our daily practice in percutaneous coronary interventions (PCI). Learning or reviewing the basics, tips & tricks, and mastering CTO techniques is essential to manage complex coronary patients. More and more interventional cardiologists are eager to learn and develop CTO PCI programs in their CathLabs. We conceived this event to support their initiatives, and following the success of our 2016 first Edition, we are glad to invite you to the ML CTO 2017.

The main goal of this event is to bring together all passionate operators in one place, from beginners to experts in a climate of openness and congeniality. Occasional and regular operators will find this conference to be an opportunity to strengthen their skills and continue their progress in learning new strategies tailored to their level.

The Multi-Level CTO Course will include didactic and practical lectures with simultaneous live cases, related to the topics covered during each session.

The first day will be dedicated to CTO PCI basics in antegrade and retrograde approaches, and live cases of more simple CTOs will be broadcasted. In parallel, a special paramedics session will be held.

The second day will focus on advanced antegrade techniques and basics of antegrade dissection re-entry.

Finally, on the third day the most challenging cases of the course will be performed. We will also address retrograde and antegrade dissection re-entry advanced strategies, discussing about the management of complications and sharing tips & tricks.

A special session for fellows has been created to allow young operators to present clinical cases. **A dedicated session for Paramedics** will also be offered this year.

In order to allow as many operators as possible to attend this event, the full conference will be streamed live on www.incathlab.com.

We truly hope this ML CTO Edition will meet all of your expectations. The goal of this Multi-Level CTO course is to provide a complete curriculum adapted to the expertise of a cardiology audience.

Alexandre Avran, MD & Stéphane Rinfret, MD



Board & Scientific Committee

COURSE DIRECTOR

Alexandre Avran, MD
Saint-Laurent-du-Var, France

COURSE DIRECTOR

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Montreal, Canada

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Nancy, France

LIVE CASES COORDINATOR

Laurent Drogoul, MD
Saint-Laurent-du-Var, France

PARAMEDICS COORDINATOR

Hervé Faltot
Colmar, France

Local organization

TZANCK INSTITUTE DIRECTOR

Michel Salvadori, MD



LIVE CASES COORDINATORS

Alexandre Avran, MD
Laurent Drogoul, MD

HEAD OF CATHETERIZATION LABORATORIES

Pierre Meyer, MD

CATH LAB MEMBERS DEPARTMENT

Philippe Durand, MD
Claude Mariottin, MD

LEARNING POINTS

This meeting, translated in English and French, is divided by level of expertise and held over 3 days.

Thursday, June 29th

FIRST STEPS IN CTO PCI

- Starting a CTO program
- Analysis of CTO angiographies
- Guidewire selection
- Prevention of complications
- Choice of microcatheters
- Basic antegrade CTO techniques: basics maneuvers, wire escalation, parallel wire
- Starting a retrograde approach
- Septal collateral channels selection and crossing
- Basic retrograde CTO techniques: reverse cart, knuckle wire, externalization and snaring

Friday, June 30th

IMPROVE YOUR SKILLS IN CTO PCI

- Complex antegrade situations: ambiguous proximal cap, difficult proximal cap crossing with a microcatheter
- Management of CTO complications
- Starting an antegrade dissection re-entry (ADR)
- Basics for ADR devices
- Mini Star Technique
- Hybrid algorithm

Saturday, July 1st

MASTERING CTO PCI

- Solving difficult retrograde connection
- IVUS in CTOs
- Challenging septal connection
- Ostial CTOs
- Retrograde through epicardial collateral channels
- Ping Pong technique
- Post CABG CTOs
- Complex complications of complex CTOs
- Follow up on ML CTO 2016 cases



CONFERENCE VETTING SYSTEM SUBMISSION: COMPLIANT

INVITED GUESTS FACULTY

- **Khaldoon Alaswad, MD** – Detroit, USA
- **Max Amor, MD** – Nancy, France
- **Alexandre Avran, MD** – Saint-Laurent-du-Var, France
- **Nicolas Boudou, MD** – Toulouse, France
- **Marouane Boukhris, MD** – Catania, Italy
- **Nenad Bozinovic, MD** – Nis, Serbia
- **Erwan Bressollette, MD** – Nantes, France
- **Emmanouil Brilakis, MD** – Minneapolis, USA
- **Leszek Bryniarski, MD** – Krahov, Poland
- **Alexander Bufe, MD** – Krefeld, Germany
- **Christopher Buller, MD** – Toronto, Canada
- **Heinz Joachim Büttner, MD** – Bad Krozingen, Germany
- **Stéphane Carlier, MD** – Mons, Belgium
- **Mauro Carlino, MD** – Milano, Italy
- **Jo Dens, MD** – Hasselt, Belgium
- **Laurent Drogoul, MD** – Saint-Laurent-du-Var, France
- **Philippe Durand, MD** – Paris, France
- **Javier Escaned, MD** – Madrid, Spain
- **Benjamin Faurie, MD** – Grenoble, France
- **Andrea Gagnor, MD** – Turin, Italy
- **Alfredo Galassi, MD** – Catania, Italy
- **Roberto Garbo, MD** – Turin, Italy
- **Omer Gohtekin, MD** – Istanbul, Turkey
- **Colm Hanratty, MD** – Belfast, United Kingdom
- **Jonathan Hill, MD** – London, United Kingdom
- **Thomas Hovasse, MD** – Paris, France
- **Yangsoo Jang, MD** – Yonsei, Korea
- **Risto Jussila, MD** – Vaasa, Finland
- **Sanjog Kalra, MD** – Philadelphia, USA
- **Artis Khalnins, MD** – Riga, Latvia
- **Paul Knaapen, MD** – Amsterdam, The Netherlands
- **Thierry Lefèvre, MD** – Paris, France
- **Nicolas Lhoest, MD** – Strasbourg, France
- **Kambis Mashayekhi, MD** – Bad Krozingen, Germany
- **Pierre Meyer, MD** – Saint-Laurent-du-Var, France
- **Markus Meyer Gessner, MD** – Düsseldorf, Germany
- **William Nicholson, MD** – York, USA
- **Sudhir Rathore, MD** – Llandudno, United Kingdom
- **Stéphane Rinfret, MD** – Montreal, Canada
- **Antonio Serra, MD** – Barcelona, Spain
- **Georges Sianos, MD** – Thessaloniki, Greece
- **Elliot Smith, MD** – London, United Kingdom
- **James Spratt, MD** – Edinburgh, United Kingdom
- **Satoru Sumitsuji, MD** – Suita, Japan
- **Khalid Tammam, MD** – Jeddah, Saudi Arabia
- **Daniel Weilenmann, MD** – St. Gallen, Switzerland
- **Gerald S. Werner, MD** – Darmstadt, Germany
- **Jaroslav Wójcik, MD** – Lublin, Poland
- **Mike Wyman, MD** – Portland, USA
- **Masahisa Yamane, MD** – Sayama, Japan

PARAMEDICS GUESTS FACULTY

- **Sabrina Benmesbah** – Paris, France
- **Hervé Faltot** – Colmar, France
- **Aurélié Fresselinat** – Bordeaux, France
- **Rafik Lamari** – Amiens, France
- **Nathalie Lattarico** – Grenoble, France
- **Fanny Villanova** – Marne-la-Vallée, France
- **Gilles Wilhelm** – Colmar, France

PRELIMINARY PROGRAM

Thursday, June 29th

SESSION 1 – CTO PCI BASICS

08:00	Why should we treat CTOs: impact of incomplete revascularisation
08:10	Coronary angiography for CTO PCI
08:20	CTO angiographic analysis: scoring systems and algorithm
08:30	Requirement for CTO PCI program: tools and set up
08:45	LIVE CASE #1 SPONSORED BY INDUSTRY
09:45	How to prevent common complications?
09:55	Vascular access and guide selection for CTO PCI
10:05	Essential basic manoeuvres for CTO PCI
10:15	Radioprotection and contrast
10:30	Coffee break

SESSION 2 – ANTEGRADE BASICS

10:50	Antegrade strategy with sequential wire escalation
11:00	Parallel wire technique: indications & how to do it
11:10	Microcatheter overview: how to choose and use
11:20	Double lumen catheter
11:30	How to improve guide support
11:40	LIVE CASE #2 SPONSORED BY INDUSTRY
12:45	Lunch break

SESSION 3 – RETROGRADE BASICS

14:15	LIVE CASE #3 SPONSORED BY INDUSTRY
15:30	Retrograde approach: step-by-step instruction
15:40	Debate – Tip injection to cross septal collaterals: Pro & Cons
16:00	Reverse CART technique
16:10	Knuckle wire dissection technique: use and indication
16:20	Coffee break
16:45	Externalization and snaring
16:55	Lesson from the past to the future
17:10	“How would you treat?”
17:40	INDUSTRY SESSION
18:00	Closing remarks
20:30	ML CTO Dinner



The Multi-Level CTO Course is designated for a maximum of 18 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. The EACCME credit system is based on 1 ECMEC per hour with a maximum of 3 ECMECs for half a day and 6 ECMECs for a full-day event.

PRELIMINARY PROGRAM

Friday, June 30th

SESSION 1 – ADVANCED ANTEGRADE TECHNIQUES

08:30	Ambiguous proximal cap without a retrograde option
08:45	When you cannot cross the proximal cap with a microcatheter
09:00	LIVE CASE #1 SPONSORED BY INDUSTRY
10:15	Management of CTO PCI complications
10:25	<i>"How would you treat?"</i>
11:00	Coffee break
11:30	LIVE CASE #2 SPONSORED BY INDUSTRY
12:45	INDUSTRY SESSION
13:00	Lunch break

SESSION 2 – BASICS OF ANTEGRADE DISSECTION RE-ENTRY

14:15	Equipment and use
14:30	LIVE CASE #3 SPONSORED BY INDUSTRY
15:45	Device-based ADR: step-by-step instructions
16:00	Wire-based ADR: bailout indication and Mini Star technique
16:10	Contrast modulation techniques
16:20	<i>"How would you treat?"</i>
16:45	Coffee break

SESSION 3 – DEDICATED TO FELLOWS

17:15	Case presentations
17:30	Padawan asking the Jedi: questions & answers session
17:50	The hybrid algorithm: efficiency and safety
18:15	Closing remarks

Saturday, July 1st

SESSION 1 – RETROGRADE ADVANCED STRATEGIES

08:30	Solution for difficult retrograde connection
08:45	LIVE CASE #1 SPONSORED BY INDUSTRY
10:00	How to deal with RCA ostial CTOs
10:10	Wire crossed septal connection but microcath doesn't follow: how to deal?
10:20	Retrograde approach through epicardial collateral channels
10:30	Coffee break
11:00	Ping pong technique
11:15	Specific issues with post CABG CTOs
11:30	LIVE CASE #2 SPONSORED BY INDUSTRY
13:00	Lunch break

SESSION 2 – ANTEGRADE DISSECTION RE-ENTRY ADVANCED STRATEGIES

14:10	IVUS for CTO
14:20	ADR difficult situations: how to handle?
14:30	LIVE CASE #3 SPONSORED BY INDUSTRY
15:50	<i>"How would you treat?"</i>
16:15	INDUSTRY SESSION
16:30	Coffee break
17:00	Costs in CTO PCI: cath lab perspective
17:10	RECHARGE registry update
17:20	What have they become? Angiographic follow up on last year cases
17:45	Take home messages and conclusion

PARAMEDICS SESSION

This session will be in French, without English translation.

Thursday, June 29th

08:15	Ouverture de la journée
08:20	Pourquoi et comment démarrer un programme CTO ?
08:45	LIVE CASE N° 1 SPONSORED BY INDUSTRY
SESSION 1 – CTO : ENJEUX ET OUTILS	
10:00	Recanalisation des occlusions coronaires chroniques : pourquoi ? pour qui ?
10:15	Les outils incontournables
10:30	Pause café
11:00	Techniques antérogrades
11:30	LIVE CASE N° 2 SPONSORED BY INDUSTRY
12:45	Déjeuner
13:45	LIVE CASE N° 3 SPONSORED BY INDUSTRY (dont 30 minutes de préparation paramédicale)

SESSION 2 – MANAGEMENT ET SÉCURITÉ DU PATIENT

15:15	Préparation en amont de la procédure
15:35	Surveillance per-procédure
15:55	Gestion post-CTO
16:15	Pause café
16:45	Techniques rétrogrades
17:15	Take home messages
20:30	ML CTO Dinner

PARTNERS



FEES & LOGISTICS PACKAGE

REGISTRATION FEES (VAT included)

INDIVIDUAL REGISTRATION

	3 DAYS		2 DAYS		1 DAY		SOCIAL DINNER**
	UP TO APRIL 30 TH	FROM MAY 1 ST	UP TO APRIL 30 TH	FROM MAY 1 ST	UP TO APRIL 30 TH	FROM MAY 1 ST	
PARAMEDICS*	—	—	—	—	200€	300€	70€
STANDARD DELEGATES	800€	900€	650€	750€	—	—	
FELLOWS OR STUDENTS	450€	500€	350€	400€	—	—	

* Only 1st day (Thursday, June 29th 2017) is available for paramedics.

GROUP REGISTRATION

	3 DAYS		2 DAYS		SOCIAL DINNER**
	UP TO APRIL 30 TH	FROM MAY 1 ST	UP TO APRIL 30 TH	FROM MAY 1 ST	
5 TO 9 DELEGATES	770€	850€	620€	700€	70€
10 TO 14 DELEGATES	720€	800€	570€	650€	65€
15 DELEGATES & MORE	680€	750€	500€	600€	60€

**Social dinner: Thursday, June 29th 2017.

LOGISTICS PACKAGE (VAT included, available until May 1st)

Rates indicated below only for Europe and North Africa attendees. For other countries, please contact the organization.

PACKAGE 1-NIGHT STAY 1100€	PACKAGE 2-NIGHTS STAY 1350€	PACKAGE 3-NIGHTS STAY 1650€	PACKAGE 4-NIGHTS STAY 1900€
This package includes: - Transportation to/from the event - Accommodation for 1 night - Transfer from/to Nice airport or station	This package includes: - Transportation to/from the event - Accommodation for 2 nights - Transfer from/to Nice airport or station	This package includes: - Transportation to/from the event - Accommodation for 3 nights - Transfer from/to Nice airport or station	This package includes: - Transportation to/from the event - Accommodation for 4 nights - Transfer from/to Nice airport or station

The organisation will contact you for your logistics details.

REGISTRATION FORM

☐ Pr ☐ MD / Dr ☐ Mr ☐ Mrs

Last name First name

Speciality..... Institution / Company

Address

Zip / Post code..... City

Country State / Province.....

Tel. Email.....

I will participate to the following day(s):

☐ **1ST DAY** (Thursday, June 29th 2017) ☐ **2ND DAY** (Friday, June 30th 2017) ☐ **3RD DAY** (Saturday, July 1st 2017)

Contact person responsible for group registration(s)

REGISTRATION FEES (VAT INCLUDED)

INDIVIDUAL REGISTRATION

☐ PARAMEDICS

☐ 1 DAY (Thursday, June 29th 2017) 200€ 300€

☐ STANDARD DELEGATES

☐ 3 DAYS 800€ 900€

☐ 2 DAYS* 650€ 750€

☐ FELLOWS OR STUDENTS

☐ 3 DAYS 450€ 500€

☐ 2 DAYS* 350€ 400€

☐ Social dinner (for all participants) 70€ 70€

GROUP REGISTRATION**

☐ 5 TO 9 DELEGATES

☐ 3 DAYS 770€ 850€

☐ 2 DAYS* 620€ 700€

☐ Social dinner 70€ 70€

☐ 10 TO 14 DELEGATES

☐ 3 DAYS 720€ 800€

☐ 2 DAYS* 570€ 650€

☐ Social dinner 65€ 65€

☐ 15 DELEGATES & MORE

☐ 3 DAYS 680€ 750€

☐ 2 DAYS* 500€ 600€

☐ Social dinner 60€ 60€

LOGISTIC PACKAGES (VAT INCLUDED, AVAILABLE UNTIL MAY 1ST)

☐ **1-NIGHT STAY** 1100€

☐ **2-NIGHTS STAY** 1350€

☐ **3-NIGHTS STAY** 1650€

☐ **4-NIGHTS STAY** 1900€

* Please do not forget to indicate your choice in the registration form.

** Please do not forget to indicate the contact person in the registration form.

PAYMENT

☐ By Credit Card: Visa, Mastercard (no other card)

On protected payment Paybox online form, directly on the website www.comnco.com. Please indicate your name + MLCTO 2017 in the part: "Additional details".

☐ By check enclosed

(make check in euro payable in France to Com&Co)

☐ By bank transfer to Com&Co SARL

Banque Chaix - 41-43, Bd Peytral - 13006 Marseille, France
IBAN : FR76 1017 8000 2600 2626 3880 380
BIC : CCBPFRPPCHX

TERMS & CONDITIONS: The agreement is formed and the two parties engaged upon receipt of the registration form by the client. The form must be duly filled in and signed by the client. All cancellations within 60 days prior from the date of the event will be rejected and this will result to the client the payment of the entire attendance amount to the organization. The entire amount must be imperatively paid 30 days before the date of the event. The payment for agreements concluded after that date will have to be completed before the start of the event. If the full payment is not made within the established period by mutual agreement or as agreed between the two parties, the company reserves the right to cancel the agreement and to refuse access to the event.

RETURN TO COM&CO, MARIE METTLING, BY:

Post 15, Bd Grawitz - 13016 Marseille, France

Fax +33 (0)4 96 15 33 08

Email marie@comnco.com

Agreed and signed - Date & signature



INFORMATION

Venue

Palais de la Méditerranée

13 Promenade des Anglais

06000 Nice, France

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www.nice.regency.hyatt.com

Contact

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Registration & logistics

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