

2ND EDITION

MCTS

SHARING KNOWLEDGE

# MULTI-LEVEL CTO COURSE

JUNE 29<sup>TH</sup> - 30<sup>TH</sup>
JULY 1<sup>ST</sup> 2017
Nice, French Riviera

#### **DIRECTORS**

Alexandre AVRAN, MD Stéphane RINFRET, MD

SCIENTIFIC COORDINATOR
Max AMOR, MD

International speakers & operators

Live demonstrations from Tzanck Institute

Paramedics session

Simultaneous translation



incathlab

www.mlcto.com



# 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 successs 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 tins & 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

Stéphane Rinfret, MD, SM Montreal, Canada

#### SCIENTIFIC COORDINATOR

Max Amor, MD 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

### I FARNING 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 manoevers, 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 Krakow, 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 Goktekin, MD Istanbul, Turkey
- Colm Hanratty, MD Belfast, United Kingdom
- Jonathan Hill, MD London, United Kingdom

PARAMEDICS GUESTS FACULTY

- Thomas Hovasse, MD Paris, France
- Yangsoo Jang, MD Yonsei, Corea
- 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
- Jaroslaw Wójcik, MD Lublin, Poland
- · Mike Wyman, MD Portland, USA
- Masahisa Yamane, MD Sayama, Japan

- \_\_\_\_
- Hervé Faltot Colmar, France
- Aurélie Fresselinat Bordaux, France

• Sabrina Benmesbah - Paris, 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

SESSIU	N 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?			
	How to prevent common complications?  Vascular access and guide selection for CTO PCI			
09:55				
09:55 10:05	Vascular access and guide selection for CTO PCI			
09:55 10:05 10:15	Vascular access and guide selection for CTO PCI Essential basic manoevers for CTO PCI			

SESSIO	N 2 – ANTEGRADE BASICS	
10:50	Antegrade strategy with seque	ntial wire escalation
11:00	Parallel wire technique: indicat	ions & 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 Pro & Cons	septal collaterals:
16:00	Reverse CART technique	
16:10	Knuckle wire dissection technuse and indication	ique:
16:20	Coffee break	
16:45	Externalization and snaring	
16:55	Lesson from the past to the fut	ture
17:10	"How would you treat?"	
17:40	INDUSTRY SESSION	
18:00	Closing remarks	



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 "How would you treat?"

11:00 Coffee break

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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 indicand Mini Star technique	cation
16:10	Contrast modulation techniqu	Jes
16:20	"How would you treat?"	
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

20:30 ML CTO Dinner

### 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 C	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					

# 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 "How would you treat?"

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
	Pourquoi et comment	
		démarrer un programme CTO ?

08:45 LIVE CASE Nº 1

#### 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

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

# **PARTNERS**







































# FEES & LOGISTICS PACKAGE

# REGISTRATION FEES (VAT included)

INDIVIDUAL	3 D/	AYS	2 D/	AYS	1 D	AY	
REGISTRATION	UP TO APRIL 30™	FROM May 1 <sup>st</sup>	UP TO APRIL 30 <sup>th</sup>	FROM MAY 1 <sup>ST</sup>	UP TO APRIL 30 <sup>TH</sup>	FROM May 1 <sup>st</sup>	SOCIAL DINNER**
PARAMEDICS*	-	-	-	-	200€	300€	
STANDARD DELEGATES	900€	900€	650€	750€	-	-	70€
FELLOWS OR STUDENTS	450€	500€	350€	400€	-	_	

<sup>\*</sup> Only 1st day (Thursday, June 29th 2017) is available for paramedics.

GROUP	3 D	AYS	2 D		
REGISTRATION	UP TO APRIL,30 <sup>TH</sup>	FROM May 1 <sup>st</sup>	UP TO APRIL 30™	FROM May 1 <sup>st</sup>	SOCIAL DINNER**
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€

<sup>\*\*</sup>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	PACKAGE	PACKAGE	PACKAGE
1-NIGHT STAY	2-NIGHTS STAY	3-NIGHTS STAY	4-NIGHTS STAY
1100€	1350€	1650€	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
			State / Province
		18II	
I will participate to the following d			
L 15' DAY (Thursday, June 29th 2017)		JAY (Friday	y, June 30 <sup>th</sup> 2017) $\square$ <b>3<sup>RD</sup> DAY</b> (Saturday, July 1 <sup>st</sup> 2017)
Contact person responsible for gro	up registra	tion(s)	
REGISTRATION FEES (VA	T INCLUDED	າ	PAYMENT
incolorit, triorit i eeo (iii	UP TO	FROM	Pu Credit Card: Visa Mastercard (an other card)
INDIVIDUAL REGISTRATION	APRIL 30 <sup>TH</sup>	MAY 1 <sup>ST</sup>	On protected payment Paybox online form, directly
☐ PARAMEDICS			on the website www.comnco.com. Please indicate your name + MLCTO 2017 in the part: "Additional del
☐ 1 DAY (Thursday, June 29 <sup>th</sup> 2017)	200€	300€	By check enclosed
STANDARD DELEGATES 3 DAYS	0006	000£	(make check in euro payable in France to Com&Co
☐ 2 DAYS*			☐ By bank transfer to Com&Co SARL
☐ FELLOWS OR STUDENTS			Banque Chaix - 41-43, Bd Peytral – 13006 Marseille IBAN : FR76 1017 8000 2600 2626 3880 380
☐ 3 DAYS	450€	500€	BIC : CCBPFRPPCHX
☐ 2 DAYS*			TERMS & CONDITIONS: The agreement is formed and the two pa
Social dinner (for all participants)	70€	70€	upon receipt of the registration form by the client. The form must be and signed by the client. All cancellations within 60 days prior from t
GROUP REGISTRATION**			event will be rejected and this will result to the client the paymen attendance amount to the organization. The entire amount must vely paid 30 days before the date of the event. The payment for
□ 5 TO 9 DELEGATES	7700	0500	concluded after that date will have to be completed before the start
☐ 3 DAYS ☐ 2 DAYS*			the full payment is not made within the established period by mutual as agreed between the two parties, the company reserves the right
☐ Social dinner			agreement and to refuse access to the event.
☐ 10 TO 14 DELEGATES			RETURN TO COM&CO, MARIE METTLING, BY:
☐ 3 DAYS			Post 15, Bd Grawitz - 13016 Marseille, Fra
☐ 2 DAYS*Social dinner			Fax +33 (0)4 96 15 33 08
☐ 15 DELEGATES & MORE	056	00€	Email marie@comnco.com
□ 3 DAYS	680€	750€	Agreed and signed - Date & signature
☐ 2 DAYS*			
☐ Social dinner		60€	
LOGISTIC PACKA (VAT INCLUDED, AVAILABLE U		ST	
☐ 1-NIGHT STAY			
☐ 2-NIGHTS STAY ☐ 3-NIGHTS STAY			
4-NIGHTS STAY			
* Please do not forget to indicate your phoins in the			

	/M	

- ☐ 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

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

TERMS & CONDITIONS: The agreement is formed and the two parties engage 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:

15. Bd Grawitz - 13016 Marseille, France

<sup>\*\*</sup> Please do not forget to indicate the contact person in the registration form

