



## September 17<sup>th</sup> – 18<sup>th</sup> 2021, Florence, Italy

13<sup>th</sup> Experts Live CTO, the annual EURO CTO Club Congress for the first time in partnership with GISE-CTO Meeting, GISE - Italian Society of Interventional Cardiology

# Program

**HYBRID  
EDITION**



Dear Colleagues,

Welcome to Florence, the city of the Renaissance, where we hope to have a new start in medical education after the Dark Age of COVID-19.

Joining forces together, EUROCTO CLUB and GISE (Italian Society for Interventional Cardiology) decided to rejuvenate the formula of the Annual Congress opening to the training of young CTO operators with more live cases, live recorded cases and scientific lectures.

We hope you will enjoy the Congress, respecting the strict rules required for this difficult period (showing Green Pass at the entrance, always wearing masks inside the Congress Venue, keeping social distance in common areas).

Visit a rich exhibition space with opportunities to test new devices in simulation models.

Remember that the EuroCTO Club is open to any Cardiology Specialist interested to improve his/her skills in CTO recanalization.



**Prof. Carlo Di Mario**  
EuroCTO Club President



**Prof. Giuseppe Tarantini**  
GISE President

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## **EURO CTO CLUB Scientific Board**

**Carlo Di Mario**, Florence, Italy (ECC-President)

**Roberto Garbo**, Turin, Italy

**Alessio La Manna**, Catania, Italy

**Nicolas Boudou**, Bordeaux, France

**Kambis Mashayekhi**, Bad Krozingen, Germany

**Gabriele Gasparini**, Milan, Italy (Live Case Coordinator)

## **Scientific Organization**



### **EURO CTO CLUB**

[www.eurocto.eu](http://www.eurocto.eu) - [secretariat@eurocto.eu](mailto:secretariat@eurocto.eu)

## **GISE CTO Scientific Board**

**Giuseppe Tarantini**, Padua, Italy (GISE President)

**Giovanni Esposito**, Naples, Italy (GISE President-elect)

**Mauro Carlino**, Milan, Italy

**Andrea Gagnor**, Turin, Italy

**Pietro Mazzarotto**, Lodi, Italy

**Jacopo Oreglia**, Milan, Italy

**Gioel Gabrio Secco**, Alessandria, Italy

## **Scientific Organization**



**GISE**

[www.gise.it](http://www.gise.it) - [segreteria@gise.it](mailto:segreteria@gise.it)

## PROGRAM AT A GLANCE

Thursday, September 16<sup>th</sup>, 2021

LIMONAIA ROOM	
18.00-19.30	<b>PRE-CONGRESS INDUSTRY COCKTAIL SYMPOSIUM SHOCKWAVE MEDICAL</b>
19.30	<b>LIGHT WELCOME COCKTAIL</b>

Friday, September 17<sup>th</sup>, 2021

	AUDITORIUM	GREEN ROOM	LIMONAIA ROOM
08.00-09.00	<b>PLENARY OPENING SESSION</b> Conquering CTO - 30 years of progress		
09.00-09.10	Switch time		
09.10-10.30	<b>PARALLEL SESSION</b> Live cases from China and Milan <i>Organized by EuroCTO Club</i>	<b>PARALLEL SESSION</b> Entry level CTO course The abc of CTO PCI <i>Organized by GISECTO</i>	
10.30-11.00	Coffee break		
11.00-12.00	<b>PARALLEL SESSION</b> Lecture: New aspects in CTO recanalisation from history to basics in CTO <i>Organized by EuroCTO Club</i>	<b>PARALLEL SESSION</b> Entry level CTO course Dedicated tools for CTO PCI <i>Organized by GISECTO</i>	
12.00-13.30	<b>PARALLEL SESSION</b> Live cases <i>Organized by EuroCTO Club</i> from Milan and Japan	<b>PARALLEL SESSION</b> Entry level CTO course Antegrade approach <i>Organized by GISECTO</i>	
13.30-15.00	Lunch		
13.45-14.45		<b>INDUSTRY LUNCH SYMPOSIUM</b> ASAHI INTECC	<b>INDUSTRY LUNCH SYMPOSIUM</b> TELEFLEX
14.45-15.00			
15.00-16.30	<b>PARALLEL SESSION</b> Live cases <i>Organized by EuroCTO Club</i> from Glasgow and Milan	<b>PARALLEL SESSION</b> Entry level CTO course Retrograde approach <i>Organized by GISECTO</i>	
16.30-17.00	Coffee break		
17.00-18.15	<b>PLENARY EDITORS' SESSION</b> Best CTO studies 2020-2021		
18.15-19.30	<b>GENERAL ASSEMBLY</b> EuroCTO Club	<b>18.15-19.15</b> <b>INDUSTRY COCKTAIL SYMPOSIUM</b> ORBUSNEICH	

# PROGRAM AT A GLANCE

Saturday, September 18<sup>th</sup>, 2021

	AUDITORIUM	GREEN ROOM	LIMONAIA ROOM
08.30-10.00	<b>PLENARY SESSION</b> Live cases <i>Organized by EuroCTO Club from Florence and Milan</i>		
10.00-11.00	<b>PARALLEL SESSION</b> Lecture: Research and guidance for the interventional community <i>Organized by EuroCTO Club</i>	<b>PARALLEL SESSION</b> Entry level CTO course Final session <i>Organized by EuroCTO Club</i>	
11.00-11.30	<b>Coffee break</b>		
11.30-13.00	<b>PLENARY LIVE CASES</b> Live cases <i>Organized by EuroCTO Club from Florence and Milan</i>		
13.00-14.30	<b>Lunch</b>		
13.15-14.15		<b>INDUSTRY LUNCH SYMPOSIUM TERUMO</b>	<b>INDUSTRY LUNCH SYMPOSIUM EUKON/APT MEDICAL</b>
14.30-16.30	<b>PLENARY SESSION</b> Live cases <i>Organized by EuroCTO Club from Rotterdam, Florence and Minneapolis</i>		
16.30-17.00	Live cases wrap up and take home messages		

## THURSDAY, SEPTEMBER 16<sup>th</sup>, 2021

LIMONAIA ROOM

**18.00** PRE-CONGRESS INDUSTRY COCKTAIL SYMPOSIUM  
**19:30** SHOCKWAVE MEDICAL (*see page 19*)

**19.30** *Light welcome cocktail*

## FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

AUDITORIUM

**08.00** PLENARY - OPENING SESSION  
**09.00** CONQUERING CTO - 30 YEARS OF PROGRESS  
Chairpersons: **Carlo Di Mario** (*Florence - I*), **Dariusz Dudek** (*Krakow - PL*),  
**Giuseppe Tarantini** (*Padua - I*)

**08.00** Introduction  
**Carlo Di Mario** (*Florence - I*)

**08.05** Lessons learned from the history of CTO recanalization  
**Nicolaus Reifart** (*Frankfurt - D*)

**08.15** CTO pathology  
**Cristina Basso** (*Padua - I*)

**08.40** CTO training  
**Dariusz Dudek** (*Krakow - PL*)

**08.50** EAPCI & complex lesions  
**Emanuele Barbato** (*Naples - I*)

**09.00** *Switch time*  
**09.10**



FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

AUDITORIUM

**09.10** PARALLEL SESSION**10.30** LIVE CASES FROM CHINA AND MILANChairpersons: **Alfredo Ruggero Galassi** (*Palermo - I*),**Goran Olivecrona** (*Lund - S*),**Georgios Sianos** (*Thessaloniki - GR*)Discussants: **Michael Behnes** (*Mannheim - D*), **Zisis Dimitriadis** (*Mainz - D*),  
**Michael Pieper** (*Kreuzlingen - CH*), **Stylianios Pyxaras** (*Fuerth - D*),  
**Sinisa Stojkovic** (*Belgrade - RS*), **Satoru Sumitsuji** (*Osaka - J*)

From China - Guangdong Provincial People's Hospital

Operators: **Jiangfang Luo** (*China*), **Junqing Yang** (*China*)

From Milan - Humanitas Reaserch Hospital

Operators: **Paul Knaapen** (*Amsterdam - NL*),**Alessio Gaetano La Manna** (*Catania - I*)**10.30** *Coffee break***11.00****11.00** PARALLEL SESSION: SYMPOSIUM**12.00** NEW ASPECTS IN CTO RECANALIZATIONChairpersons: **Leonardo Bolognese** (*Arezzo - I*), **Giuseppe Tarantini** (*Padua - I*)Discussants: **Youssef Abdelwahed** (*Berlin - D*), **Enad Bozinovic** (*Nis - SR*),**Laurent Drogoul** (*Nice - F; Monaco - MC*),**Juan Gutiérrez-Chico** (*Marbella - E*), **Lesiak Maciej** (*Poznan - PL*),Webmoderator: **Francesco Liistro** (*Arezzo - I*)**11.00** Specificity of pharmacological treatment for CTO recanalization**Davide Capodanno** (*Catania - I*)**11.15** Discussion**11.20** CT guidance for CTO Recanalization**Patrick Siegrist** (*Zurich - CH*)**11.30** Discussion**11.40** CTO & CHIPS: a bad combination**Jonathan Hill** (*London - UK*)**11.50** Discussion

## FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

### AUDITORIUM

12.00

#### PARALLEL SESSION

13.30

#### LIVE AND SIMULATION CASES FROM MILAN AND JAPAN FROM PRESENT TO THE FUTURE CTO INTERVENTIONS

Chairpersons: **Kambis Mashayekhi** (*Bad Krozingen - D*),  
**Sudhir Rathore** (*London - UK*)

Discussants: **Leszek Bryniarski** (*Krakow - PL*), **Mauro Carlino** (*Milan - I*),  
**Marco Comeglio** (*Pistoia - I*), **Juan Luis Gutierrez-Chico** (*Marbella - E*),  
**Beatriz Vaquerizo** (*Barcelona - E*)

Webmoderator: **Nicolas Boudou** (*Bordeaux - F*)

From Milan - Humanitas Reaserch Hospital

Operators: **Roberto Garbo** (*Turin - I*), **Thierry Lefevre** (*Massy - F*)

From Asahi HQ Seto - Japan

Operator: **Kenya Nasu** (*Toyohashi - J*)

13.30

*Lunch break*

15.00

15.00

#### PARALLEL SESSION

16.30

#### LIVE CASES FROM GLASGOW AND MILAN

Chairpersons: **Alexander Bufe** (*Krefeld - D*), **Bernward Lauer** (*Berka - D*)

Discussants: **Juergen Arenz** (*Essen - D*) **Mohaned Egred** (*Newcastle - UK*),  
**Ian Menown** (*Dublin - IRL*), **Gennaro Sardella** (*Rome - I*),

Webmoderator: **Leszek Bryniarski** (*Krakow - PL*)

From Glasgow - Golden Jubilee Hospital

Operators: **Margaret McEntegart** (*Glasgow - UK*), **Anja Oksnes** (*Bones - N*)

From Milan - Humanitas Reaserch Hospital

Operators: **Alexandre Avran** (*Nice - F*), **Gabriele Gasparini** (*Milan - I*)

16.30

*Coffee break*

17.00

FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

## AUDITORIUM

## 17.00 PLENARY EDITORS' SESSION

## 18.15 BEST CTO STUDIES 2020-21 (selected by the Editors of the Cardiology Interventional journals)

Chairpersons: **Javier Escaned** (*Deputy Editor EHJ Interventional Cardiology*),  
**Giuseppe Tarantini** (*GISE President*)

Discussants: **Carlo Di Mario** (*Florence - I*), **Giovanni Esposito** (*Naples - I*),  
**Kambis Mashayekhi** (*Bad Krozingen - D*),  
**Maksymilian Opolski** (*Warsaw - PL*)

## 17.00 Introduction

**Javier Escaned** (*Madrid - E*)

17.03 CTO ARC Definitions: a common language for research and clinical reporting  
**Stephane Rinfret** (*Atlanta - USA*)

## 17.13 Article selected for JACC Cardiovasc Interv "Intravascular Healing Is Not Affected by Approaches in Contemporary CTO PCI. The CONSISTENT CTO Study JACC Interv 2020"

Presenter: **James C. Spratt** (*London - UK*)

## 17.20 Comments, questions and criticisms from panelists and audience

## 17.25 Article selected by Cathet Cardiovascular Interventions "iFR uncovers profound but mostly reversible ischemia in CTOs and helps to optimize PCI results Cathet Cardiovasc Interv 2020"

Presenter: **Peter Kayaert** (*Gent - B*)

17.32 Comments, questions and criticisms from panelists and audience coordinated by **Steve Bailey** (*San Antonio - USA*) Editor *Catheterization Cardiovascular Interventions*

## 17.37 Article selected by Circulation Interventions "Retrograde recanalisation: a multicenter report Circulation Interv April 2020"

**Michael Megaly**, **Iosif Xenogiannis**, **Nidal Abi Rafeh**, **Dimitri Karpaliotis**,  
**Stephane Rinfret**, **Masahisa Yamane**, **M. Nicholas Burke**, **Emmanouil S. Brilakis**

17.44 Comments, questions and criticisms from panelists and audience coordinated by **Sunil Rao** (*Durham - USA*) Editor *Circulation Interventions*

## FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

### AUDITORIUM

**17.00** **PLENARY EDITORS' SESSION** *(cont.)*  
**18.15**

- 17.49** Article selected by EuroIntervention "Ischaemic burden and changes in absolute myocardial perfusion after chronic total occlusion percutaneous coronary intervention EuroIntervention 2020"  
Presenter: **Stefan Schumacher** (*Amsterdam - NL*)
- 17.56** Comments, questions and criticisms from panelists and audience coordinated by **Davide Capodanno** (*Catania - I*) Editor EuroIntervention
- 18.01** How to run the ultimate CTO trial and achieve Class IA in the Guidelines?  
**Gregg Stone** (*New York - USA*)
- 18.11** Closing Remarks  
**Giuseppe Tarantini** (*Padua - I*)

**18.15** **GENERAL ASSEMBLY - EUROCTO CLUB**  
**19.30**

- 18.15** The EuroCTO Club after COVID-19  
**Carlo Di Mario** (*Florence - I*) EuroCTO Club President
- 18.25** Finance handover  
**Hans Bonnier** (*Eindhoven - NL*), **Gerald Werner** (*Darmstadt - D*)
- 18.35** The new EuroCTO Club Database  
**Gerald Werner** (*Darmstadt - D*)
- 18.45** Next year's congress planning  
**Kambis Mashayekhi** (*Bad Krozingen - D*)
- 18.55** General discussion

**FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021****GREEN ROOM**

- 09.10** PARALLEL SESSION - SESSION 1: THE ABC OF CTO PCI  
**10.30** **Entry Level CTO Course organized by GISE**  
Chairpersons: **Carlo Di Mario** (*Florence - I*), **Dariusz Dudek** (*Krakow - PL*),  
**Giuseppe Tarantini** (*Padua - I*)  
Discussants: **Cristian Di Russo** (*Rome - I*), **Daniele Forlani** (*Pescara - I*),  
**Luca Grancini** (*Milan - I*), **Massimo Napodano** (*Padua - I*),  
**Andrea Picchi** (*Grosseto - I*), **Andrea Rognoni** (*Novara - I*),  
**Rocco Edoardo Stio** (*Rome - I*)
- 09.10** Introduction and Welcome to participants  
**Giuseppe Tarantini** (*Padua - I*)
- 09.25** Vascular approach  
**Andrew Ladwinieic** (*Leicester - UK*)
- 09.40** CTO recanalization: when, why, how? -  
**Carlo Di Mario** (*Florence - I*)
- 09.55** Optimal angiographic views for CTO PCI  
**Jacopo Oreglia** (*Milan - I*)
- 10.10** Optimal planning for a successful CTO recanalization: new algorithms  
**Sudhir Rathore** (*London - UK*)
- 10.25** Discussion
- 10.30** *Coffee break*  
**11.00**

## FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

### GREEN ROOM

- 11.00** PARALLEL SESSION - SESSION 2: DEDICATED TOOL  
**12.00** FOR CTO PCI  
Entry Level CTO Course organized by GISE  
Chairpersons: **Mauro Carlino** (Milan - I), **Giovanni Esposito** (Naples - I),  
**Gerald Werner** (Darmstadt - D)  
Discussants: **Giuseppe Andò** (Messina - I), **Alberto Chisari** (Pietra Ligure - I),  
**Salvatore Colangelo** (Turin - I), **Giuseppe De Luca** (Novara - I)  
**Andrea Demarchi** (Vercelli - I), **Alessio Mattesini** (Florence - I)
- 11.00** Guidewires: how to choose the correct one  
**Masahiko Ochiai** (Yokohama - J)
- 11.15** Microcatheters: how to choose the correct one  
**Gioel Gabrio Secco** (Alessandria - I)
- 11.30** Guide extensions and new dedicated devices: how to choose the correct one  
**Nicolas Boudou** (Bordeaux - F)
- 11.45** Discussion
- 12.00** PARALLEL SESSION - SESSION 3: ANTEGRADE APPROACH  
**13.00** Entry Level CTO Course organized by GISE  
Chairpersons: **Yves Louvard** (Massy - F), **Andrea Pavei** (Rome - I),  
**Gioel Gabrio Secco** (Alessandria - I)  
Discussants: **Massimo Di Marco** (Pescara - I), **Antonio Micari** (Messina - I),  
**Rosario Parisi** (Pesaro - I), **Vito Ramazzotti** (Rome - I),  
**David Rutigliano** (Bari) - I, **Carlo Tumscitz** (Ferrara - I),  
**Fabrizio Ugo** (Turin - I)
- 12.00** Live in the box 1 from Genoa - Ospedale San Martino  
Operators: **Gabriele Crimi**, **Matteo Vercellino**, **Manrico Balbi**, **Italo Porto** (Genoa - I)
- 12.25** Discussion
- 12.35** Live in the box 2 from Latina, Ospedale Santa Maria Goretti  
Operator: **Antonino Stipo**, **Antonio Di Matteo**, **Armando Del Prete** (Latina - I)
- 13.00** Discussion
- 13.10** The antegrade approach: my best tip & tricks  
**Dimitrios Karpaliotis** (New York - USA)

FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

## GREEN ROOM

**13.30** Switch time  
**13.45**

**13.45** INDUSTRY LUNCH SYMPOSIUM  
**14.45** ASAHI INTECC (see page 20)

**14.45** Switch time  
**15.00**

**15.00** PARALLEL SESSION - SESSION 4: RETROGRADE APPROACH  
**16.30** Entry Level CTO Course organized by GISE

Chairpersons: **Alessio La Manna** (Catania - I), **Pietro Mazzarotto** (Lodi - I),  
**Markus Meyer Gessner** (Dusseldorf - D)

Discussants: **Lucia Barbieri** (Milan - I), **Dionigi Fischetti** (Lecce - I),  
**Alfredo Marchese** (Bari - I), **Giulia Masiero** (Padua - I),  
**Tommaso Piva** (Ancona - I), **Francesco Tomassini** (Rivoli - I),  
**Alessandra Truffa Giachet** (Asti - I)

**15.00** Live in the box 3 from Pistoia, Ospedale San Jacopo  
Operators: **Marco Comeglio**, **Roberto Becherini** (Pistoia - I)

**15.25** Discussion

**15.35** Live in the box 4 from Pesaro, Ospedali Riuniti Marche Nord  
Operators: **Rosario Parisi**, **Lucia Marinucci**, **Francesca Mirabella** (Pesaro - I)

**16.00** Discussion

**16.10** The retrograde approach: my best tip & tricks  
**Kambis Mashayekhi** (Bad Krozingen - D)

**16.30** Coffee break  
**17.00**

**18.15** INDUSTRY COCKTAIL SYMPOSIUM  
**19.15** ORBUSNEICH (see page 21)

## LIMONAIA ROOM

**13.45** INDUSTRY LUNCH SYMPOSIUM  
**14.45** TELEFLEX (see page 22)

## SATURDAY, SEPTEMBER 18<sup>th</sup>, 2021

### AUDITORIUM

**08.30** **PLENARY SESSION**

**10.00** **LIVE CASES FROM FLORENCE AND MILAN**

Chairpersons: **Heinz Joachim Buettner** (*Freiburg - D*),  
**Mauro De Benedictis** (*Genoa - I*)

Discussants: **Requeiro Ander** (*Barcelona - E*), **Salvatore Colangelo** (*Turin - I*),  
**Tito Kabir** (*London - UK*), **Prathap Kumar** (*Kerala - IND*)

Webmoderator: **Tania Chechi** (*Florence - I*)

From Florence - Careggi University Hospital

Operators: **Carlo Di Mario** (*Florence - I*), **Masahisa Yamane** (*Saitama - J*)

From Milan - Humanitas Reaserch Hospital

Operators: **Georgios Sianos** (*Thessaloniki - GR*), **Jarosław Wójcik** (*Lublin - PL*)

**10.00** **PARALLEL SESSION LECTURE**

**11.00** **RESEARCH AND GUIDANCE FOR THE INTERVENTIONAL COMMUNITY**

Chairpersons: **Pierfrancesco Agostoni** (*Antwerps - B*),  
**Andrew Ladwiniec** (*Leicester - UK*)

Discussants: **Lesnek Bryniarski** (*Krakow - PL*), **Francesco Caprioglio** (*Vicenza - I*),  
**Pietro Mazzarotto** (*Lodi - I*), **Victoria Martin-Yuste** (*Barcelona - E*),

Webmoderator: **Paul Knaapen** (*Amsterdam - NL*)

**10.00** Consensus document on specific use of guide extension catheters in CTO procedures  
**Roberto Garbo** (*Turin - I*)

**10.15** Discussion

**10.20** Consensus document of treatment of calcium within CTO recanalization  
**Stylianios Pyxaras** (*Fuerth - D*)

**10.35** Discussion

**10.40** CTO case of the month: winner of the competition  
Presented by **Pierfrancesco Agostoni** (*Antwerps - B*)

**10.55** Discussion



SATURDAY, SEPTEMBER 18<sup>th</sup>, 2021

AUDITORIUM

**11.00** *Coffee break***11.30****11.30** **PLENARY SESSION****13.00** **LIVE CASES FROM FLORENCE AND MILAN**Chairpersons: **Alexander Bufe** (*Krefeld - D*), **Omer Goktekin** (*Istanbul - TR*)Discussants: **Andrea Gagnor** (*Turin - I*), **Robert Gerber** (*Hastings - UK*),  
**Aigar Lismanis** (*Riga - LT*), **Andrea Picchi** (*Grosseto - I*),  
**Gorgulu Sevket** (*Istanbul - TR*)Webmoderator: **Nicolaus Reifart** (*Frankfurt - D*)

From Florence - Careggi University Hospital

Operators: **Nicolas Boudou** (*Bordeaux - F*), **Gerald Werner** (*Darmstadt - D*)

From Milan - Humanitas Reaserch Hospital

Operators: **Alfredo Ruggero Galassi** (*Palermo - I*),  
**Damiano Regazzoli** (*Milan - I*)**13.00** *Lunch break***14.30****14.30** **PLENARY SESSION****16.30** **LIVE CASES FROM ROTTERDAM, FLORENCE AND MINNEAPOLIS**Chairpersons: **Andrea Gagnor** (*Turin - I*), **Roberto Garbo** (*Turin - I*)Discussants: **Lorenzo Azzalini** (*Richmond - USA*), **Wójcik Jarosław** (*Lublin - PL*),  
**Risto Jussila** (*Helsinki - FIN*), **Degertekin Muzaffer** (*Istanbul - TR*),  
**Jacopo Oreglia** (*Milan - I*)Webmoderator: **Gerald Werner** (*Darmstadt - D*)

From Rotterdam

Operators: **Roberto Diletti** (*Rotterdam - NL*), **Alex Nap** (*Amsterdam - NL*)

From Florence - Careggi University Hospital

Operators: **Kambis Mashayekhi** (*Bad Kronzingen - D*), **Alessio Mattesini** (*Florence - I*)

From Minneapolis

Operator: **Emmanouil Brilakis** (*Minneapolis - USA*)

## SATURDAY, SEPTEMBER 18<sup>th</sup>, 2021

### AUDITORIUM

- 16.30** **PLENARY SESSION**  
**17.00** **WRAP UP OF LIVE CASES AND TAKE HOME MESSAGES**  
Chairpersons: **Roberto Garbo** (*Turin - I*), **Giuseppe Tarantini** (*Padua - I*)
- 16.30** Debriefing from Milan  
**Gabriele Gasparini** (*Milan - I*)
- 16.40** Discussion
- 16.45** Debriefing from Florence  
**Carlo Di Mario** (*Florence - I*)
- 16.55** Discussion and Take-home message

### GREEN ROOM

- 10.00** **PARALLEL SESSION - SESSION 5: FINAL SESSION**  
**11.30** **Entry Level CTO Course organized by GISE**  
Chairpersons: **Giovanni Esposito** (*Naples - I*), **Giuseppe Tarantini** (*Padua - I*)  
Discussants: **Chiara Cavallino** (*Vercelli - I*), **Roberto Diletti** (*Rotterdam - NL*),  
**Chiara Fraccaro** (*Padua - I*), **Stefano Galli** (*Milan - I*),  
**Cinzia Moncalvo** (*Alessandria - I*), **Italo Porto** (*Genoa - I*),  
**Francesco Saia** (*Bologna - I*)
- 10.00** Live in the box 5 from Pescara, Ospedale Civile Spirito Santo  
Operators: **Leonardo Paloscia**, **Massimo Di Marco**, **Daniele Forlani** (*Pescara - I*)
- 10.25** Discussion
- 10.35** Live in the box 6 from Ragusa, Ospedale Giovanni Paolo II  
Operator: **Guido Piersanti D'Agosta** (*Ragusa - I*)
- 11.00** Discussion
- 11.10** Complication management during CTO PCI  
**Roberto Garbo** (*Turin - I*)
- 11.25** Closing remarks  
**Giovanni Esposito** (*Naples - I*)
- 13.15** **INDUSTRY LUNCH SYMPOSIUM**  
**14.15** **TERUMO** (*see page 23*)

### LIMONAIA ROOM

- 13.15** **INDUSTRY LUNCH SYMPOSIUM**  
**14.15** **EUKON/APT MEDICAL** (*see page 24*)

# INDUSTRY SYMPOSIA

THURSDAY, SEPTEMBER 16<sup>th</sup>, 2021

LIMONAIA ROOM

- 18.00** PRE-CONGRESS INDUSTRY COCKTAIL SYMPOSIUM **SHOCKWAVE | IVL**  
**19.30** THE ROLE OF IVL IN CTOS AND CHALLENGING CALCIFIED LESIONS  
Chairperson: **Carlo Di Mario** (*Florence - I*)  
Panelists: **Nicolas Boudou** (*Bordeaux - I*), **Beatriz Vaquerizo** (*Barcelona - E*),  
**Gerard Werner** (*Darmstadt - D*)
- 18.00** Welcome and Objectives  
**Carlo Di Mario** (*Florence - I*)
- 18.03** Back to basics: principles of intravascular lithotripsy for calcific plaque modification  
**Michael Joner** (*Munich - D*)
- 18.13** The chronicles of IVL: from the basics to CTOS  
**Julian Strange** (*Bristol - UK*)
- 18.23** Intravascular lithotripsy: not an eccentric option for eccentric calcium  
**Carlo Di Mario** (*Florence - I*)
- 18.33** Cases in a box - The use of IVL in CTOS  
Case 1: Reverse CART intraplaque  
Case 2: Proximal cap calcified  
**Kambis Mashayekhi** (*Bad Krozingen - D*)
- 18.53** Q&A and panel discussion
- 19.30** *Light welcome cocktail*

## INDUSTRY SYMPOSIA

FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

GREEN ROOM

**13.45** **INDUSTRY LUNCH SYMPOSIUM**  
**14.45** **ROAD TO CTO EXPERT**  
Chairperson: **Gerard Werner** (*Darmstadt - D*)

 Your dreams. Woven together.  
**ASAHI INTECC**

**13.45** **DLC MASTERCLASS**  
Role of DLC: when and how  
**Gerald Werner** (*Darmstadt - D*)

**13.55** **SASUKE features and benefits for bifurcations**  
**Alessio La Manna** (*Catania - I*)

**14.05** **DLC techniques for CTO crossing**  
**Gabriele Gasparini** (*Milan - I*)

**14.15** **Tips & tricks for DLC in complex CTO cases**  
**Kambis Mashayekhi** (*Bad Krozingen - D*)

**14.25** **Final discussion and closing remarks**  
**All**

**14.30** **NEXT Generation CTO guide wire**  
**Masahisa Yamane** (*Saitama - J*)

## INDUSTRY SYMPOSIA

FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

GREEN ROOM

OrbusNeich®

**18.15** INDUSTRY COCKTAIL SYMPOSIUM  
**19.15** SIMPLIFY YOUR MOST COMPLEX AND  
CALCIFIED PCI  
Chairperson: **Zisis Dimitriadis** (*Mainz - D*)  
Moderator: **Tommaso Piva** (*Ancona - I*)

**18.15** Session objectives & introduction  
**Zisis Dimitriadis** (*Mainz - D*)

**18.19** Optimizing CTO devices & OAS to simplify complex cases in your daily  
management  
**Andi Mucaj** (*Ancona - I*)

**18.35** Discussion  
**All**

**18.45** CTO mindset & techniques: how to improve non-CTO CHIP cases  
**Krzysztof Pujdak** (*Herford - D*)

**19.01** Discussion  
**All**

**19.05** Key learning & take home  
**Tommaso Piva** (*Ancona - I*)

*At the beginning of the session a light cocktail will be served*

## INDUSTRY SYMPOSIA

FRIDAY, SEPTEMBER 17<sup>th</sup>, 2021

LIMONAIA ROOM



- 13.45** INDUSTRY LUNCH SYMPOSIUM  
**14.45** MICROCATHETER AND GUIDEWIRE INTERACTION  
IN COMPLEX PCI  
Moderator: **Andrew Ladwiniec** (*Leicester - UK*)
- 13.45** Introduction  
**Andrew Ladwiniec** (*Leicester - UK*)
- 13.50** Torque response in microcatheters  
**Fabrizio Ugo** (*Turin - I*)
- 14.05** Teleflex Guidewires performance in microcatheters  
**Jo Dens** (*Genk - B*)
- 14.20** Real world experience with the new Teleflex Guidewires  
**Roberto Garbo** (*Turin - I*)
- 14.35** Q&A

## INDUSTRY SYMPOSIA

SATURDAY, SEPTEMBER 18<sup>th</sup>, 2021

GREEN ROOM

**13.15** INDUSTRY LUNCH SYMPOSIUM  
**14.15** A DEEP DIVE IN CTO-BIFURCATIONS  
Chairperson: **Thierry Lefevre** (*Massy - F*)



**13.15** Where do bifurcations stand in CTOs?  
**Thierry Lefevre** (*Massy - F*)

**13.30** Panel discussion

Case based tips&tricks sharing:

**13.35** Subintimal shift and post CABG-bifurcation  
**Kambis Mashayekhi** (*Bad Krozingen - D*)

**13.45** When and how to avoid the bifurcation troubles in CTO-PCI  
**Masahisa Yamane** (*Saitama - J*)

**13.55** Panel discussion on presented cases

**14.00** Relevance of Imaging in CTO & BIF  
**Stephane Carlier** (*Mons - B*)

**14.10** Panel discussion

## INDUSTRY SYMPOSIA

**SATURDAY, SEPTEMBER 18<sup>th</sup>, 2021**

**LIMONAIA ROOM**

**13.15** **INDUSTRY LUNCH SYMPOSIUM**  
**14.15** **BEYOND EXTREME TORTUOSITY TO**  
**REDUCE ISCHEMIC BURDEN**  
Chairperson: **Roberto Garbo** (*Turin - I*)

**13.15** A CTO case sharing from China  
**Junqing Yang** (*China*)

**13.30** Role of a novel spheric-tip balloon for postdilation  
**Carlo Di Mario** (*Florence - I*)

**13.45** Micro-catheters' application in CTO & side holes in extension catheter  
**Carlo Tumscitz** (*Ferrara - I*)

**14.00** Final Discussion



## HANDS-ON SESSIONS

### TERUMO



**FRIDAY, SEPTEMBER 17<sup>th</sup> - 13.30-15.00**

#### **BUILDING A CTO STRATEGY**

Enjoy yourself building a full CTO planning together starting from a critical analysis of the anatomy to the architecture of an effective procedural strategy

**FRIDAY, SEPTEMBER 17<sup>th</sup> - 18.15-19.30**

#### **CORONARY PERFORATION ON THE STAGE. CAN YOU MANAGE?**

Let's solve one of the most fearful cathlab nightmare.... get ready to manage a coronary complication in a fast, effective and safe way

**SATURDAY, SEPTEMBER 18<sup>th</sup> - 13.00-14.30**

#### **DIG INTO CTO TIPS: LET'S GET YOUR HANDS DIRTY**

Play with your skills to get confidence with some useful cto procedural steps. Can you do it?

### ABBOTT



**FRIDAY, SEPTEMBER 17<sup>th</sup> - 13.30-15.00**

#### **TAKE THE FUTURE IN YOUR HANDS! PROTOTYPE TESTING SESSION (WITH R&D)**

**FRIDAY, SEPTEMBER 17<sup>th</sup> - 18.15-19.30**

#### **TAKE THE FUTURE IN YOUR HANDS! PROTOTYPE TESTING SESSION (WITH R&D)**

**SATURDAY, SEPTEMBER 18<sup>th</sup> - 13.00-14.30**

#### **TAKE THE FUTURE IN YOUR HANDS! PROTOTYPE TESTING SESSION (WITH R&D)**

## OTHER SPONSORED SESSIONS

### ASAHI INTECC



**FRIDAY, SEPTEMBER 17<sup>th</sup> - FULL DAY**

#### **CTO HISTORY MOVIE**

**SATURDAY, SEPTEMBER 18<sup>th</sup> - FULL DAY**

#### **CTO HISTORY MOVIE**

## FACULTY

EURO CTO Club and GISE cordially thank the invited speakers, chairs, discussants and operators for supporting the congress with their knowledge and expertise:

Youssef Abdelwahed (Berlin - D)	Andrea Demarchi (Vercelli - I)
Pierfrancesco Agostoni (Antwerps - B)	Pierluigi Demola (Florence - I)
Regueiro Ander (Barcelona - E)	Jo Dens (Genk - B)
Giuseppe Andò (Messina - I)	Massimo Di Marco (Pescara - I)
Jürgen Arenz (Essen - D)	Carlo Di Mario (Florence - I)
Alexandre Avran (Nice - F)	Antonio Di Matteo (Latina - I)
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Steven R. Bailey (San Antonio - USA)	Roberto Diletti (Rotterdam - NL)
Manrico Balbi (Genoa - I)	Zisis Dimitriadis (Mainz - D)
Emanuele Barbato (Naples - I)	Laurent Drogoul (Nice - F; Monaco - MC)
Lucia Barbieri (Milan - I)	Dariusz Dudek (Krakow - PL)
Cristina Basso (Padua - I)	Mohaned Egred (Newcastle - UK)
Roberto Becherini (Pistoia - I)	Javier Escaned (Madrid - E)
Michael Behnes (Mannheim - D)	Giovanni Esposito (Naples - I)
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Nenad Bozinovic (Nis - SR)	Andrea Gagnor (Turin - I)
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Leszek Bryniarski (Krakow - PL)	Stefano Galli (Milan - I)
Alexander Bufe (Krefeld - D)	Roberto Garbo (Turin - I)
Heinz Joachim Büttner (Freiburg - D)	Gabriele Gasparini (Milan - I)
Davide Francesco Capodanno (Catania - I)	Robert Gerber (Hastings - UK)
Francesco Caprioglio (Vicenza - I)	Omer Goktekin (Istanbul - TR)
Stephane Carlier (Mons - B)	Luca Grancini (Milan - I)
Mauro Carlino (Milan - I)	Juan Luis Gutiérrez-Chico (Marbella - E)
Chiara Cavallino (Vercelli - I)	Jonathan Hill (London - UK)
Tania Chechi (Florence - I)	Michael Joner (Munich - D)
Alberto Chisari (Pietra Ligure - I)	Risto Jussila (Helsinki - FIN)
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Guido Piersanti D'Agosta (Ragusa - I)	Prathap Kumar (Kerala - IND)
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Maciej Lesiak (Poznan - PL)  
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 Jaroslaw Wójcik (Lublin - PL)  
 Masahisa Yamane (Saitama - J)  
 Junqing Yang (China)

## GENERAL INFORMATION

### CONGRESS VENUE

PALAZZO DEI CONGRESSI

Piazza Adua 1, Florence (Italy) | Tel. +39 055 49721

### REGISTRATION DESK

The Organizing Secretariat Desk will be open according to the following time schedule:

Thursday, 16 September 2021 from 16:00 to 19:00

Friday, 17 September 2021 from 07:30 to 19:30

Saturday, 18 September 2021 from 08:00 to 17.00

### REGISTRATION FEES

The EUROCTO CLUB Congress & GISE CTO Meeting 2021 will be a hybrid event, so it takes place at the Palazzo dei Congressi in Florence, but it's also available online via live streaming.

### ONSITE REGISTRATION FEES (All fees include Italian VAT 22%)

Fellow \* € 400,00

Regular € 700,00

Company Representative € 244,00

*\*proof of status will be required upon registration*

For new registrations, onsite payment will be accepted only by credit card.

FELLOW / REGULAR registration fee includes:

- Access to all the on-site scientific sessions
- Access to the on-site exhibition area
- Certificate of attendance
- Online access to live streaming and virtual contents
- Catering services according to the program

COMPANY REPRESENTATIVE registration fee includes:

- Possible access to all the on-site scientific sessions.  
IMPORTANT: Please note that due to Covid restrictions meeting rooms have a limited number of seats and priority will be given to the congress delegates
- Online access to live streaming and virtual contents
- Catering services according to the program

## GENERAL INFORMATION

### VIRTUAL REGISTRATION

Virtual registration is free of charge and can be made directly on the Congress digital platform:

<https://eurogisecto2021.shareevent.it>

For more info about DIGITAL PLATFORM CONTENTS please see pag. 30

Congress will be also available live streaming on WONDR MEDICAL. You can join the new platform dedicated to the medical community and follow the scientific sessions at: <https://wondrmedical.net/ch/euroctoclub>

### CATERING FACILITIES

Light welcome cocktail on 16 September, coffee breaks and lunch boxes on 17 and 18 September are included in the registration fees.

### CERTIFICATE OF ATTENDANCE

The certificate of attendance will be sent via email after the congress to all the onsite participants.

Virtual participants can require the certificate of attendance by writing to: [eccgisecto2021@oic.it](mailto:eccgisecto2021@oic.it)

### OFFICIAL LANGUAGE

English is the official language for all the scientific sessions and no simultaneous translation will be available.

### ORGANIZING SECRETARIAT

OIC srl



Viale Matteotti 7, 50121 Florence (Italy)

Info: [ECCGISECTO2021@oic.it](mailto:ECCGISECTO2021@oic.it)

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## CONGRESS DIGITAL PLATFORM

To discover the official congress virtual platform please register on <https://eurogsecto2021.sharevent.it> and you will find:

**LIVE SESSIONS** – all the scientific sessions and the industry symposia will be live streaming on the platform with interactive tools as Q&A and POLLS.

**VIRTUAL EXHIBITION** - Visit our Virtual Exhibit Hall to see the latest technology and research in chronic total occlusions (CTOs), complex coronary interventions and learn about a wide range of products and services displayed by the following companies:

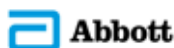
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## CONGRESS DIGITAL PLATFORM

### INDUSTRY ON STAGE

This section will host on demand contents created by the Industries to share insights about specific practices, products and innovations. Online participants will be able to watch:

- Complex calcified CTO supported by a new microcatheter – video realized with the support of  therapies for living
- Complex RCA CTO: from antegrade to retrograde approach achieved with Navitian - video realized with the support of  therapies for living
- CTO HISTORY MOVIE - video realized with the support of  Your dreams. Woven together.

### WONDR MEDICAL

Eurocto Club and GISE thank Wondr Medical to give them the opportunity to stream all the congress also live on:

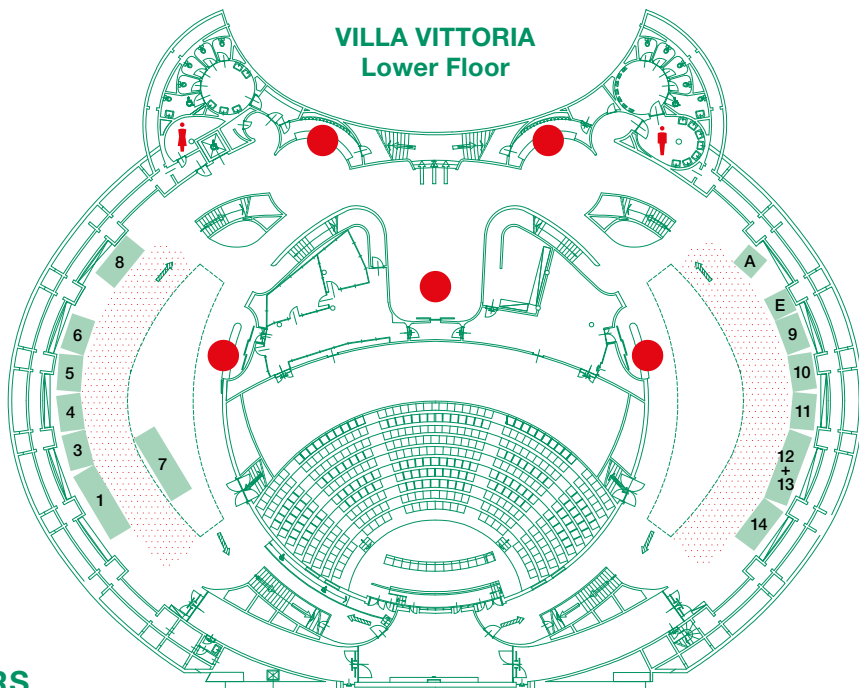
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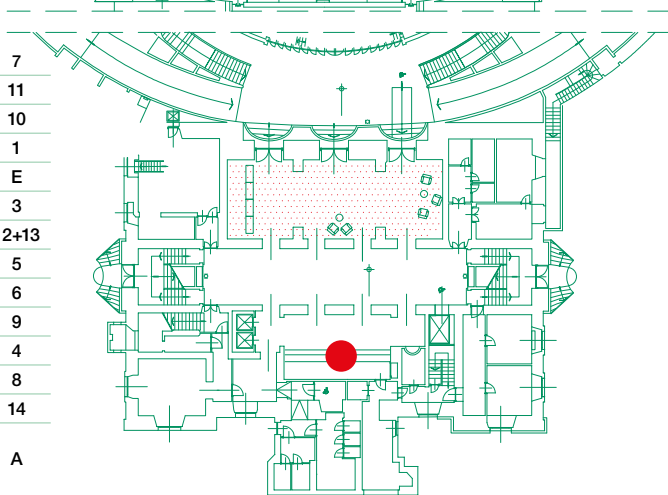
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ASAHI INTECC	7
BOSTON SCIENTIFIC	11
CORDIS	10
EUKON	1
GE HEALTHCARE	E
IMDS	3
INNOVA HTS - SHOCKWAVE	12+13
MEDTRONIC	5
ORBUSNEICH	6
PHILIPS	9
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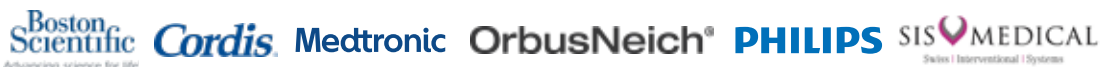
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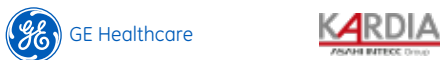
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A special thanks to our local live case centers



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Resident operators: **Carlo Di Mario, Francesco Meucci, Miroslava Stolcova, Francesca Ristalli, Pierluigi Demola**



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# THE ROLE OF IVL IN CTOs AND CHALLENGING CALCIFIED LESIONS

EURO CTO FLORENCE 2021

SHOCKWAVE MEDICAL SYMPOSIUM

JOIN US at EURO CTO where we will  
be sharing our insights

16<sup>th</sup>  
September  
2021

18:00 - 17:30  
LIMONAIA  
Room



**CHAIRMAN**  
Prof. Carlo Di Mario



**PANELIST**  
Dr. Nicolas Boudou



**PANELIST**  
Dr. Beatriz Vaquerizo



**PANELIST**  
Prof. Gerard Werner

## AGENDA

### Welcome and Objectives

Prof. Carlo Di Mario, IT

### Back to basics: Principles of Intravascular Lithotripsy for Calcific Plaque Modification

Prof. Michael Joner, DE

### The Chronicles of IVL: From the Basics to CTOs

Dr. Julian Strange, UK

### Intravascular Lithotripsy: Not an eccentric option for eccentric calcium

Prof. Carlo Di Mario, IT

### Q&A and panel discussion

### Cases in a box - The use of IVL in CTOs

- Case 1: Reverse CART intraplaque
- Case 2: Proximal cap calcified

Dr. Kambis Mashayekhi, GE

### Q&A and panel discussion

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## **Be Mindful!**

- Workers performing fluoroscopically guided cardiovascular procedures are at a significantly higher risk of a diverse array of health disorders compared to the non-exposed subjects.

## **Save Time, every minute counts!**


- The OPN NC reduces the overall procedure time. Thus, saving long hours of standing at the patient table.

## **Reduce Radiation**

- A shorter procedural time will further reduce the level of radiation exposure.

## **Reduce Contrast Media**

- A reduction of fluoro time leads to a lower use of contrast media
- Contrast media in excess causes nephrotoxicity and AKI.



Become and remain  
OP(E)N minded.



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