

The Experts „Live“ Workshop 2012

September 21-22, 2012
London,

Grange Tower Bridge Hotel

Course Director

Carlo Di Mario
London, UK

Co-Directors

Anthony Gershlick
Leicester, UK

David Hildick-Smith
Brighton, UK

Scientific Board

Gerald S. Werner
Darmstadt, Germany

Nicolaus Reifart
Bad Soden, Germany

Alfredo R. Galassi
Catania, Italy

Hans Bonnier
Brussels, Belgium

George Sianos
Thessaloniki, Greece

Javier Escaned
Madrid, Spain



Final Programme

Endorsed by:

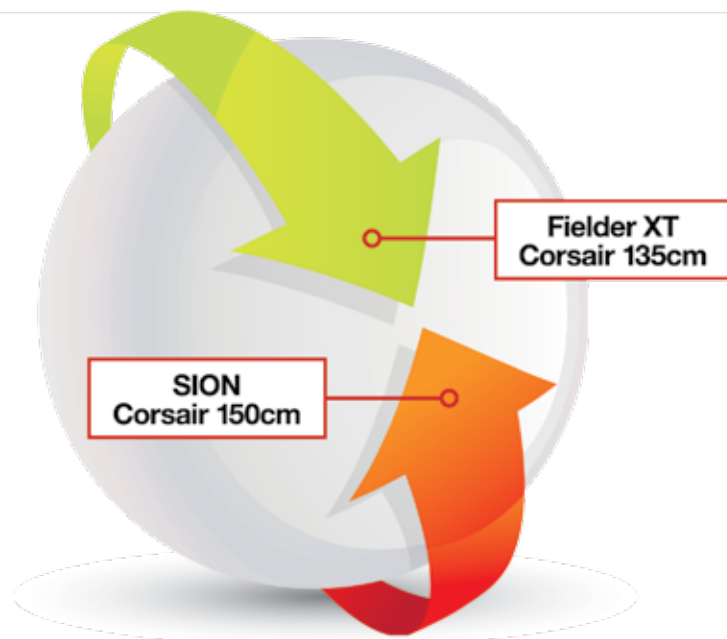


European Association of
Percutaneous Cardiovascular
Interventions (EAPCI)



British Cardiovascular
Society (BCS)

Proven Antegrade & Retrograde Success



→ ASAHI PTCA Guide Wires

SION	ULTIMATEbros 3
SION blue	Miracle / MIRACLEbros Family
Fielder XT	Conquest / CONFIANZA Family
Fielder FC	RG3
Grand Slam	

→ Microcatheters

Tornus, Corsair

Asahi Intecc Co., Ltd.

European Office
Strawinskylaan 967 (WTC Tower D,
9th floor) 1077 XX Amsterdam,
The Netherlands
Tel. +31-20-794-0640
Fax +31-20-794-0641
www.asahi-intecc.com

SION, *Corsair* and *Fielder* are trademarks or registered trademarks of ASAHI INTECC CO., LTD. in Japan and other countries.



INDEX

Programme:

Friday, September 21, 2012 7

Programme:

Saturday, September 22, 2012 11

Social Programme 14

Euro CTO Club 17

General Information 25

Sponsors 26



Welcome

Course Director



Carlo Di Mario
National Heart and Lung Institute
Imperial College,
Royal Brompton Hospital
London, UK

ECC-President



Gerald S. Werner
Medizinische Klinik
Klinikum Darmstadt
Darmstadt, Germany

**Dear colleagues,
Dear friends,**

On behalf of the Euro CTO Club we would like to invite you to the 2012 meeting which will take place in London on Sept. 21st - 22nd.

Why should I attend? Chronic total occlusions are present in 10-15% of your patients and successful recanalization has been shown in a number of registries to improve medium and longer term prognosis, and effectively relieve symptoms of angina in patients resistant to medical therapy. With the dramatic increases in success rates CTO PCI is a viable option in most patients available to those practitioners trained in and exposed to contemporary techniques. Given that CTO patients are in general undertreated in Europe the main goal of the Euro CTO Club, the organising body of this congress, is to promote awareness of the need for CTO PCI, to educate operators of all skills and in particular to support operators who wish to improve their skills.

What is the format of the course? Experts "Live" is not a live course. Experienced operators from the Club will show appropriately selected pre-recorded cases of CTOs highlighting a wide range of technical challenges, from the relatively easy to the most complex. Interaction with the course delegates will allow the steps in the procedure to be discussed and alternatives to be presented. Special attention is given to characteristics of dedicated guidewires or microcatheters. While the course will drive an ethos of education towards success some failures will also be presented, the reasons for failure will be explored, thus advancing possible future techniques to enhance subsequent success. We always show complications to help you recognise them early as they start to occur and thus be better prepared with potential solutions.

4th Experts "Live" Workshop 2012

Co-Directors



Anthony Gershlick
University of Leicester
Leicester, UK



David Hildick-Smith
Sussex Cardiac Centre
Brighton, UK

What can I expect from this course? The course is designed to suit all grades of operators from the most basic to the most skilled - setup of shots, equipment choice, upcoming technologies, complex retrograde cases and much more will be covered. The course is the annual forum focusing discussion of the 41 members of Euro CTO Club but its success depends on the active participation of every interventionist genuinely interested to spend time and effort on improving outcomes in CTO patients.

Carlo Di Mario, Course Director

Gerald S. Werner, ECC-President

Anthony Gershlick, Co-Director

David Hildick-Smith, Co-Director

All the solutions, whenever you need them

Ultra low entry profile 0.40 mm

Tazuna® is a high performance PTCA dilatation catheter designed with ultra low entry profile for improved crossability.

Tazuna® provides the highest level of performance for CTO lesions.

Tazuna®
GO THROUGH CTO



Scientific Programme

Friday, September 21, 2012

09:00 **Welcome**
Carlo Di Mario, London, UK

INTRODUCTION TO CTO TREATMENT

Chairmen: Guy Heyndrickx, Aalst, Belgium;
David Hildick-Smith, Brighton, UK

09:05 **A Dictionary CTO Slang/English**
Anthony Gershlick, Leicester, UK

09:20 **How to acquire and read a CTO angiogram?**
Masahiko Ochiai, Tokyo, Japan

09:35 **Dedicated CTO kit: wires**
Gerald Werner, Darmstadt, Germany

09:55 **Dedicated CTO kit: microcatheters and balloons**
Antonio Serra, Barcelona, Spain

10:10 **Dedicated CTO kit: adjunctive devices**
Craig Thompson, Yale, USA

10:30 Coffee break

RECORDED LIVE CASES 1-2

Chairmen: Gerald Werner, Darmstadt, Germany;
Georgios Sianos, Thessaloniki, Greece
Panelists: Jacques Koolen, Eindhoven, Netherlands;
Thierry Lefevre, Massy-Paris, France;
Keith Oldroyd, Glasgow, UK

11:00 **Two “Easy” anterograde cases**
CASE 1 – Presenter: Nick Palmer, Carlo Di Mario, London, UK
CASE 2 – Presenter: Claus Reifart, Bad Soden, Germany

12:30 **The European CTO Registry**
Alfredo Galassi, Catania, Italy



12:45 Lunch

CTO DEBATE 2012

Chairmen: Javier Escaned, Madrid, Spain;
Masahiko Ochiai, Tokyo, Japan
Panelists: Didier Tchetché, Toulouse, France;
Yves Louvard, Massy-Paris, France;
Angela Hoye, Hull, UK

13:30 **6 Fr (and therefore radial) can be used in most cases**
George Sianos, Thessaloniki, Greece

13:40 **Femoral 7-8 Fr is the Gold Standard**
Yasushi Asakura, Toyohashi, Japan

13:50 **The Jury is out: Panel**

RECORDED LIVE CASES 3-4

14:00 **Two “Difficult” CTO cases**
CASE 3 – Presenter: George Sianos, Thessaloniki, Greece
CASE 4 – Presenter: Roberto Garbo, Rivoli-Turin, Italy

IMAGING IN CTO RECANALISATION

15:30 **MSCT before CTO: when to do, what to look for**
Thierry Lefevre, Massy, France

15:45 **IVUS during CTO: when to do, what to look for**
Osamu Katoh, Kyoto, Japan

16:00 Coffee break

CTO COMPLICATIONS AND FAILURES

Chairmen: Hans Bonnier, Eindhoven, Netherlands;
Claus Reifart, Bad Soden, Germany
Panelists: Imad Sheiban, Turin, Italy;
David Hildick-Smith, Brighton, UK;
Colm Hanratty, Belfast, UK

16:15 **What did I do wrong?**
(15 mins each)
Joachim Buettner, Bad Krotzingen, Germany
Laszek Bryniarski, Krakow, Poland
Claus Reifart, Bad Soden, Germany
Aigars Lismanis, Riga, Latvia
Carlo Di Mario, London, UK
Marcus Meyer-Gessner, Duesseldorf, Germany
Alexander Bufe, Wuppertal, Germany
Gerald Werner, Darmstadt, Germany
Elliot Smith, London, UK

CTO MASTER LECTURE 2012

18:15 Presentation: Carlo Di Mario, London, UK

18:30 End of day 1

19:30 **GET TOGETHER AT OLD ROYAL NAVAL COLLEGE, GREENWICH**



Emerge™ PTCA Dilatation Catheter



Reduced Shaft Profile for Simultaneous Use

Shaft profile allows for simultaneous use of two Monorail™ catheters in a 2 mm (8 F) guide catheter and two Over-the-Wire catheters in a 2.67 mm (8 F) guide catheter¹



Small 1.2 mm Size

Exceptional deliverability² and low profiles designed to cross tight lesions



Lead the way.

Emerge combines the best of Boston Scientific balloon technologies to offer exceptional deliverability with an ultra-low tip profile, for a pre-dilatation balloon catheter designed to navigate and cross even the most difficult lesions with unprecedented ease.

Defining tomorrow, today.™



To find out more
about Emerge™, use
your smartphone to
scan this code.

Scientific Programme

Saturday, September 22, 2012

INDUSTRY SPONSORED BREAKFAST SYMPOSIUM

Chairmen: Sudhir Rathore, Frimley Park, UK;
Thierry Lefevre, Massy-Paris, France

07:00 **Breakfast**

07:30 **Bridgepoint**

The hybrid approach & The Bridgepoint technology
Craig Thompson, Yale, USA

07:50 **Abbott Vascular**

A complex CTO
James Spratt, Edinburgh, UK

08:10 **Volcano**

The challenge of appropriate interpretation of FFR and IVUS in CTOs
Gerald S. Werner, Darmstadt, Germany

08:30 **Biosensors**

DES for CTOs: Are they all created equal?
Carlo Di Mario, London, UK

INTRODUCTION TO RETROGRADE RECANALIZATION

Chairmen: Anthony Gershlick, Leicester, UK;
Osamu Katoh, Kyoto, Japan

Panelists: Jaroslaw Wojcik, Lublin, Poland;
Mauro Carlino, Milan, Italy;
Jonathan Hill, London, UK

09:00 **When a retrograde approach should be started first**

Masahisa Yamane, Tokyo, Japan

09:15 **Collateral morphology and success: what's possible
(and safe) in 2012**

James Spratt, Edinburgh, UK



RECORDED LIVE CASES 5-6

- 9:30 **Two “Easy” retrograde cases**
CASE 5 – Presenter: Javier Escaned, Madrid, Spain
CASE 6 – Presenter: Gerald S. Werner, Darmstadt, Germany
- 10:30 Coffee break

RECORDED LIVE CASES 7-8

Chairmen: Javier Escaned, Madrid, Spain;
Masahisa Yamane, Tokyo, Japan
Panelists: Omer Goktekin, Istanbul, Turkey;
Mauro De Benedictis, Turin, Italy;
Julian Strange, Bristol, UK

- 10:45 **Two “Difficult” retrograde cases**
CASE 7 – Presenter: Aigars Lismanis, Riga, Latvia
CASE 8 – Presenter: Andrea Gagnor, Turin, Italy
- 12:40 **How to train to become a CTO operator**
Craig Thompson, Yale, USA
- 12:50 **The position of the Euro CTO Club – An invited comment from the Past President of the Euro CTO Club**
Nicolaus Reifart, Bad Soden, Germany
- 13:00 Lunch

RETROGRADE DEBATE 2012

Chairmen: Alfredo Galassi, Catania, Italy;
Craig Thompson, Yale, USA
Panelists: Alexander Bufe, Wuppertal, Germany;
Evald Christensen, Aarhus, Denmark;
James Cotton, Wolverhampton, UK

- 13:45 **Selective injection is safer**
Masahisa Yamane, Tokyo, Japan
- 13:55 **Collateral “surfing” is better**
Sudhir Rathore, Frimley Park, UK
- 14:00 **The Jury is out: Panel**

RECORDED LIVE CASES 9-10

- 14:10 **Two Cases using New Approaches**
CASE 9 – Presenter: James Spratt, Edinburgh, UK
CASE 10 – Presenter: Alfredo Galassi, Catania, Italy

MORTALITY AND QUALITY OF LIFE IMPROVEMENT IN CTO RECANALIZATION

- 15:40 **Current evidence**
Nick Palmer, Liverpool, UK
- 15:50 **Evidence needed**
David Hildick-Smith, Brighton, UK
- 16:00 **Final Remarks**
Gerald Werner, Darmstadt, Germany

Euro CTO CLUB GENERAL ASSEMBLY

BioMATRIX
DRUG ELUTING CORONARY STENT SYSTEM **FLEX™**



LESS RISK... MORE CONFIDENCE* LEADERS

4-YEAR RESULTS

4-year results from the LEADERS study, a head-to-head randomized trial between BioMatrix Flex™ and a durable polymer sirolimus-eluting stent in an "all comers" patient population, were published in *The Lancet* in December 2011¹:

1

**BioMatrix Flex™ -
cutting the MACE rate out to 4 years**

MACE defined as cardiac death, MI, clinically initiated TVE

2

**80% relative risk reduction
in definite VLST with BioMatrix Flex™**

VLST=Very late stent thrombosis

3

**Reduction in definite VLST
associated with fewer cardiac events**



See presentation
on-line²


BIOSENSORS
INTERNATIONAL™

* Based on LEADERS results on MACE, definite VLST and cardiac events associated with definite stent thrombosis out to 4 years.
1. Stefanini GG et al. Long-term clinical outcomes of biodegradable polymer sirolimus-eluting stents versus durable polymer sirolimus-eluting stents in patients with coronary artery disease (LEADERS): A year follow-up of a randomised non-inferiority trial. *The Lancet*. 2011; 378(9807): 1242-9.
2. Hachinger T et al. Long-term Clinical Results from the All comers LEADERS Trial: A year follow-up data and abstract presentation, ESC 2012.
Biosensors Flex, Biosensors 99 and BA9 are trademarks or registered trademarks of Biosensors International Group, Ltd. All other trademarks are the property of their respective owners.
Not available for sale in the United States and certain other countries. © 2012 Biosensors International Group, Ltd. All rights reserved.

www.biosensors.com

**The Experts „Live“
Workshop 2012**



EURO CTO CLUB

BOARD PRESIDENT

Gerald S. Werner
Medizinische Klinik
Klinikum Darmstadt
Darmstadt, Germany

PRESIDENT ELECT

Alfredo R. Galassi
Cannizzaro Hospital
University of Catania
Catania, Italy

PAST-PRESIDENT

Nicolaus Reifart
Main Taunus Kliniken
Bad Soden, Germany

BOARD

George Sianos
AHEPA University Hospital
Thessaloniki, Greece

BOARD

Javier Escaned
San Carlo Hospital
Madrid, Spain

TREASURER

Hans Bonnier
University Hospital Brussels
Brussels, Belgium

BOARD

Carlo Di Mario
National Heart and Lung Institute
Imperial College London
London, UK

COURSE DIRECTOR 2012

Carlo Di Mario
National Heart and Lung Institute
Imperial College London
London, UK

CO-DIRECTORS 2012

Anthony Gershlick
University of Leicester
Leicester, UK

David Hildick-Smith
University of Brighton
Brighton, UK

CLUB MEMBERS

Hans Bonnier, Belgium
Alexander Bufe, Germany
Heinz Joachim Büttner, Germany
Mauro Carlino, Italy
Bernard Chevalier, France
Antonio Colombo, Italy
Mauro De Benedictis, Italy
Leszek Bryniarski, Poland
Carlo Di Mario, UK
Simon El Hadad, France
Javier Escaned, Spain
Andrejs Erglis, Latvia
Dariusz Dudek, Poland
Jean Fajadet, France
Alfredo R. Galassi, Italy
Andrea Gagnor, Italy
Roberto Garbo, Italy
Anthony Gershlick, UK
Omer Goktekin, Turkey
Tevfik Gürmen, Turkey
Karl-Eugen Hauptmann, Germany

Jan Harnek, Sweden
Guy Heyndrickx, Belgium
David Hildick-Smith, UK
Evald Høj Christiansen, Denmark
Jacques Koolen, Netherlands
Thierry Lefevre, France
Yves Louvard, France
Göran Olivecrona, Sweden
Gerald S. Werner, Germany
Nicolaus Reifart, Germany
Bernhard Reimers, Italy
Joachim Schofer, Germany
Ralph Schulze, Germany
Antonio Serra, Spain
Imhad Sheiban, Italy
George Sianos, Greece
Horst Sievert, Germany
James C. Spratt, UK
Didier Tchetché, France
Leif Thuesen, Denmark
Jarosław Wójcik, Poland

The Euro CTO Club cordially thanks the invited speakers for supporting the Workshop 2012 with their knowledge and expertise:

Asakura, Yasushi, Dr., Japan
Katoh, Osamu, Dr., Japan
Ochiai, Masahiko, Prof., Japan
Palmer, Nick, Dr., UK
Rathore, Sudhir, Dr., UK
Thompson, Craig, Prof., USA
Yamane, Masahisa, Dr., Japan

The Euro CTO Club gratefully acknowledges the contribution to the preparation of the factoids of:

Albert Alahmar, Dr., UK
Matteo Ghione, Dr., Italy
Kadriye Kılıçkesmez, Dr., Turkey



Medtronic

Resolute Integrity

ZOTAROLIMUS-ELUTING CORONARY STENT SYSTEM



SIMPLIFY THE CHALLENGE.

- Most deliverable DES*
- Powerful clinical performance across the patient spectrum†
- First and only DES FDA-approved for patients with diabetes

Simplify the challenge at medtronicstents.com

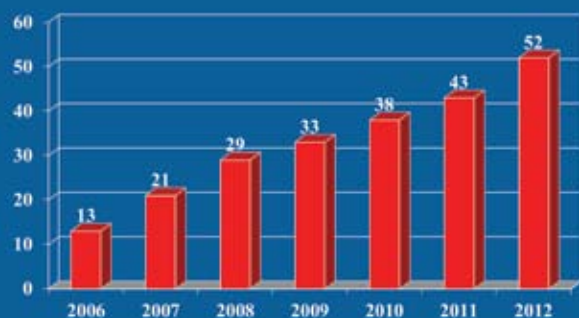
*Based on bench test data on file at Medtronic, Inc.
†Per the Resolute Integrity Indications for Use.

Innovating for life.



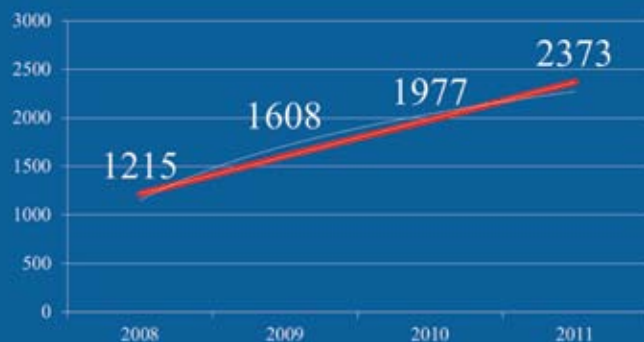
EURO CTO CLUB - STATISTICS

Euro CTO Club membership



Requirements: experience of 300 CTO and 50 / year

Online Registry n = 7673

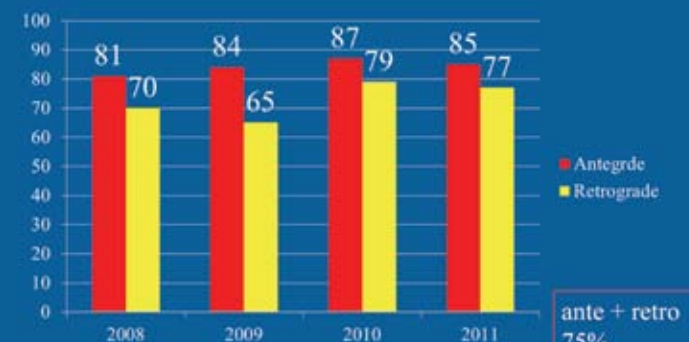


EURO CTO CLUB - STATISTICS

Retrograde Approach/all CTO (all operators – 50% at < 10%)



Success Antegrade vs Retrograde

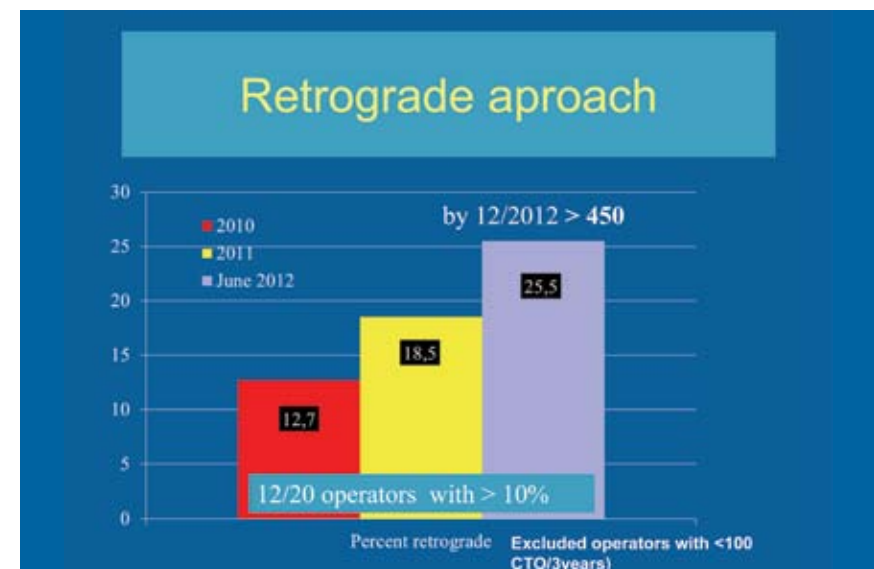
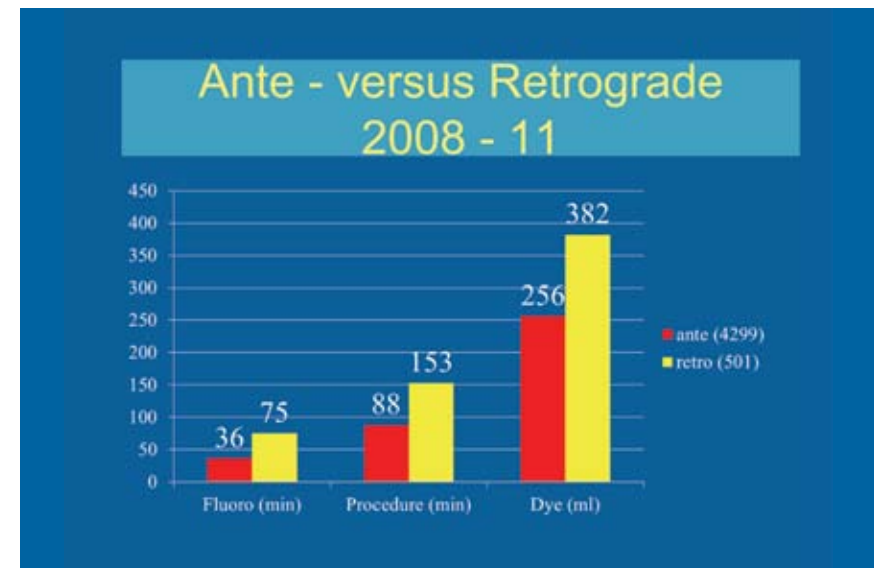




EURO CTO CLUB - STATISTICS



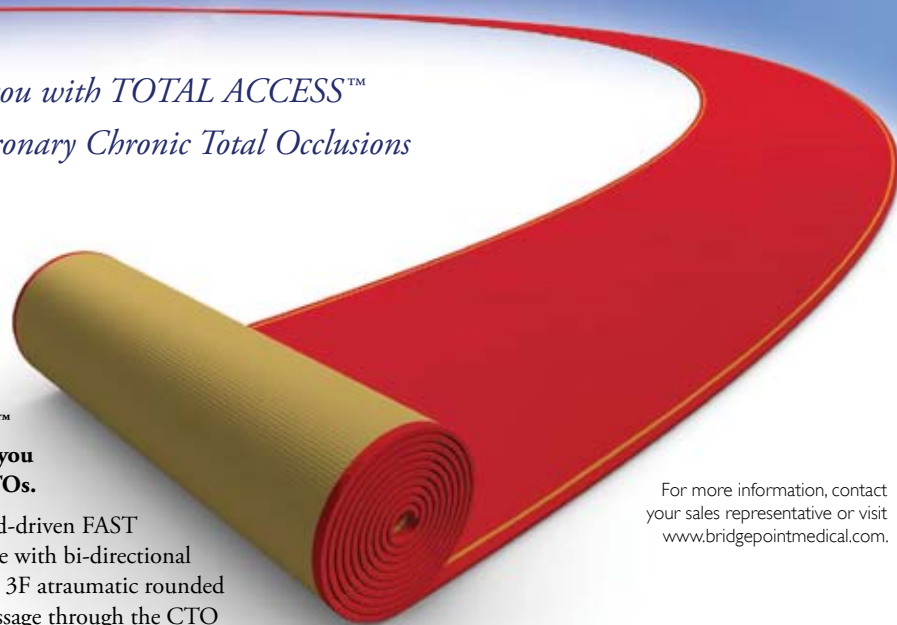
EURO CTO CLUB - STATISTICS



CrossBoss™ Catheter
Stingray™ Catheter
Stingray™ Guidewire

TOTAL ACCESS™

*Providing you with TOTAL ACCESS™
to coronary Chronic Total Occlusions*



The CrossBoss™ Catheter gives you ACCESS to CTOs.

- A unique hand-driven FAST Spin technique with bi-directional rotation and a 3F atraumatic rounded tip enables passage through the CTO

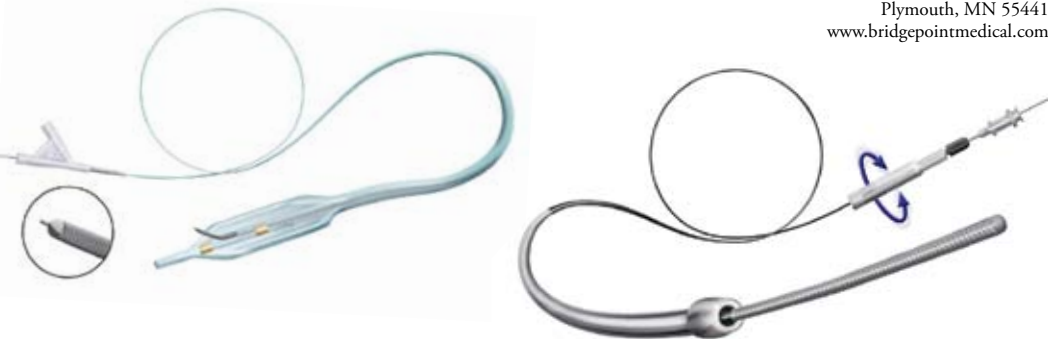
Stingray™ System's unique design facilitates guidewire ACCESS to the true lumen.

- The flat balloon shape automatically orients itself within the Subintima while the guidewire's distal probe efficiently re-enters true lumen

For more information, contact
your sales representative or visit
www.bridgepointmedical.com



13355 10th Ave N., #110
Plymouth, MN 55441
www.bridgepointmedical.com



Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device.
CrossBoss and Stingray are trademarks of BridgePoint Medical. © Copyright 2012. All rights reserved.

The Experts „Live“ Workshop 2012

General Information

4th Experts "Live" Workshop 2012
September 21 - 22, 2012
London, United Kingdom

Venue

Grange Tower Bridge Hotel
45 Prescott Street | London E1 8GP | United Kingdom

Language

The official language of the congress is English. No simultaneous translation is available.

Certificate of Attendance

The Certificate of Attendance will be available on-site at the conference desk.
The meeting is accredited by the European Board of Accreditation in Cardiology (EBAC).

Registration

750,00 € incl. VAT
350,00 € incl. VAT discounted rate for fellows*

The Registration for the Conference includes:

- Receipt of the badge of the conference bag
- Attendance of the conference proceedings
- Catering during the conference
- Receipt of the participation certificate

* Letter from supervisor needed at the time of registration

Online registration: www.eurocto2012.eu

Scientific Organisation



Carlo Di Mario, United Kingdom
Gerald S. Werner, Germany
Anthony Gershlick, United Kingdom
David Hildick-Smith, United Kingdom

Congress Organisation



wikonect GmbH
Hagenauer Strasse 53 | 65203 Wiesbaden, Germany
Tel.: +49 (0) 611 204 809 0 | Fax: +49 (0) 611 204 809 10
eMail: info@wikonect.de | www.wikonect.de



We thank the following companies for their support!

Platinum Sponsor



Gold Sponsor



Silver Sponsor



Sponsor

ACIST Medical Systems
Lilly UK
Vascular Perspectives

INNOVATION DESIGNED FOR COMPLEX STENOSES

SUPPORT

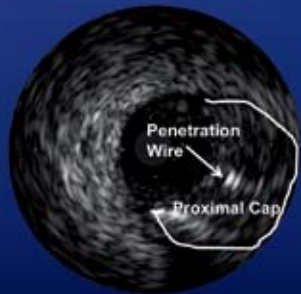
Introducing
the **Valet™** Microcatheter

Seamless transitions to help
reduce risk of shaft kinking

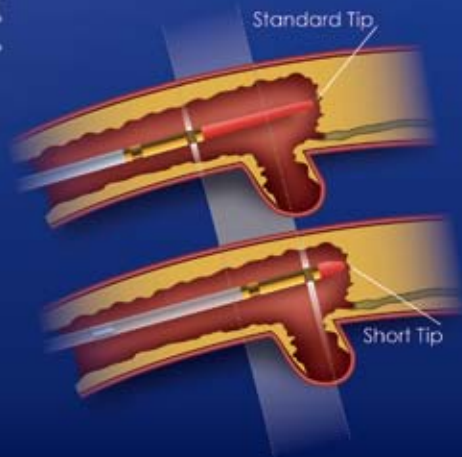
Microwire core designed
for optimal torque transmission

GUIDANCE

Eagle Eye® Platinum ST
Digital IVUS Catheter



Successful penetration of proximal
cap viewed from a side branch



Short tip design helps assess
more of the vessel and branch

Available now.

Ask your Volcano representative for a trial.

Visit us at www.volcanocorp.com

 **VOLCANO**
PRECISION GUIDED THERAPY



Imprint

EURO CTO CLUB

Course Director

Carlo Di Mario
London, UK

Co-Directors

Anthony Gershlick
Leicester, UK

David Hildick-Smith
Brighton, UK

Scientific Board

Gerald S. Werner
Darmstadt, Germany

Nicolaus Reifart
Bad Soden, Germany

Alfredo R. Galassi
Catania, Italy

Hans Bonnier
Brussels, Belgium

George Sianos
Thessaloniki, Greece

Javier Escaned
Madrid, Spain

CONGRESS AGENCY / ORGANIZER

wikonect GmbH

Hagenauer Str. 53
65203 Wiesbaden, Germany

"having wings again"*

Physicians using the medical devices developed and manufactured by Alvimedica have the ability to offer their patients a brilliant second chance at life. Patients start this second life feeling like having wings again.



*Mustafa Özdemir
First comment after
a percutaneous coronary
artery intervention.

CORACTO™

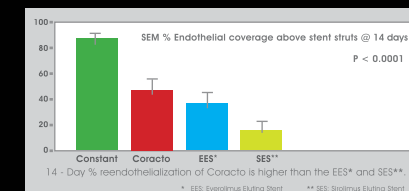
RAPAMYCIN-ELUTING CORONARY STENT DELIVERY SYSTEM

Bioabsorbable polymer drug carrier completely absorbed in 10 – 12 weeks in the body.
Well proven efficacy in coronary chronic total occlusion. | 1
Improved reendothelialization. | 2
Reduced time of dual antiplatelet therapy. | 1 | 3
Reduced risk of restenosis and TVR. | 1

- 1) Reifart N., et al. Short and longterm randomised comparison (24 months) of an alternative rapamycin-coated stent with bioabsorbable polymer and a bare metal stent of similar design in chronic coronary occlusions. Eurointervention. 2010;6:356-360
- 2) Virmani R., et al. A Newly Developed Rapamycin-Eluting stent with a biodegradable Polymer Reduces Neointimal Formation While Allowing Greater Endothelialization. JACC March 9, 2010, V55, I10A.
- 3) Reifart N. Registry of a Rapamycin coated stent with biodegradable polymer in all comers. Internal Report. 2009



A New Era in DES Therapy





Driving Innovation Delivering Solutions

TREK & MINI TREK

Coronary Occlusion Catheter

No environment too challenging.

Experience a smooth transitionless design for maximum control even when accessing complex lesions.

MINI TREK built for Complex Lesions

77 sizes.

including 1.20 mm diameters

PROGRESS

Family of Chronic Occlusion Guide Wires

Know where you're going,
not where you've been.

- 1 Tapered, exposed coil tip
- 2 Intermediate Polymer Sheath with Hydrophilic Coating
- 3 Hydrophobic Coating

All products here in are trademarks of the Abbott Group of Companies.

Contact your sales representative for more information.

Photo(s) on file at Abbott Vascular. All drawings are artist's representations only and should not be considered as an engineering drawing or photograph.

Products intended for use by or under the direction of a physician. Prior to use, it is important to read the package insert thoroughly for instructions for use, warnings and potential complications associated with use of this device. Information contained herein is for distribution for Europe, Middle East and Africa ONLY. Please check the regulatory status of the device before distribution in areas where CE marking is not the regulatory in force. For more information, visit our website at abbottvascular.com

© 2011 Abbott. All rights reserved. 1-EH-2-1187-01 07/2011

Abbott
Vascular