

ELIKAR Hellenic Heart Foundation

CARDIO - CATH

JULY, 7-9 2016 Ioannina-Greece

Course Directors: Lampros K. Michalis Konstantinos P. Toutouzas

www.cardio-cath.gr

Final Program



Το πιο συχνά συνταγογραφούμενο νεότερο από του στόματος αντιπηκτικό παγκοσμίως¹





Κάτοχος της άδειας κυνοφορίας: Bayer Pharma AG, 13342 Berlin, Γερμανία Τοτικός αντιπρόσωπος του κατόχου αδείας κυκόοφορίας στην Ελλάδα: Bayer Ελλάς ABEE, Σορού 18-20, 151 25 Μαρούοι, Τοπικός αντιπρόσωπος του κατόχου αδείας κυκόοφορίας στην Κύπρο: Novagem Ltd, Τη:\c0057 2243855

Τμήμα Επιστημονικής Ενημέρωσης Τηλ: +30 210 6187742, Fax: +30 210 6187522 Email: medinfo.gr.cy@bayer.com Εταιρεία συμπροώθησης για τα 15 & 20mg



ELPEN A.E. 6APMAKEYTIKH BIOMIKANIA Aswap. Mopdebiolog 95, 19009 Tilköpjai Attivelje, Thy. 210 6038326 - 9, Fax: 210 6038300 FPA0EIA ETIIZTHMONIKHZ ENHMEPOZHZ Zegloratios (11, 115 28 APHyo, Thy. 210 7489711, Fax: 210 7489731 Edb. Anuroticos (114, 651 48 decoachavier, Thy. 2310 459920 - 1, Fax: 2310 459269

Βιβλιογραφικές αναφορές

 Βάση Δεδομένων IMS Health MIDAS: Μηνιαίες Πωλήσεις από Οκτώβριο 2008 ως Ιούνιο 2015

Πριν τη συνταγογράφηση για κάθε ένδειξη συμβουλευθείτε την αντίστοιχη Περίληψη των Χαρακτηριστικών του Προϊόντος που διατίθεται στο εκθετήριο Βοηθήστε να γίνουν τα φάρμακα πιο ασφαλή και Αναφέρετε ΟΛΕΣ τις ανεπιθύμητες ενέργειες για ΟΛΑ τα φάρμακα Συμπληρώνοντας την «(ΩΤΡΙΝΗ ΚΑΡΤΑ»



ELIKAR Hellenic Heart Foundation

Welcome Message

Dear colleagues, dear friends,

It is our great pleasure to welcome you to the Cardio- Cath Course, organized by the Hellenic Heart Foundation, that will be held from Thursday, July 7th to Saturday July 9th, 2016 in Ioannina, Greece, at Grand Serai Hotel.

Cardio Cath Course 2016, is formed to be attractive giving participants the opportunity to learn and keep updated. The program incorporates Live Interventional Cardiology cases, using all the up-to-date techniques transmitted by the Hippocration and Ioannina University Hospitals. The program will further include workshops, lectures from invited renowned experts and discussions on case studies.

We would like to express our sincere thanks to all invited speakers, sponsors, the Hellenic Heart Foundation and to all those who worked with dedication for the organization of the course.

Thank you for being here with us in loannina. Enjoy your stay!

On behalf of the Course Directors, Lampros K. Michalis, Konstantinos P. Toutouzas

Organization

Hellenic Heart Foundation

Vas. Sofias 133, 11521 Athens, Tel: (210) 6401477, Fax: (210) 6401478, email: elikar@elikar.gr



Course Directors

Lampros K. Michalis

Professor of Cardiology, Faculty of Medicine, School of Health Sciences of University of Ioannina, Ioannina, Greece

Konstantinos P. Toutouzas

Associate Professor of Cardiology, University of Athens, 1st Department of Cardiology, "Hippokration" Hospital, University of Athens, Athens, Greece

JULY, 7-9 2016 Grand Serai Hotel Ioannina-Greece

Scientific Program

Thursday, July 7th, 2016

Registrations	12:00
Introduction	12.30-13.00
Course Directors: L. Michalis, K. Toutouzas	

Welcome Addresses

M. Paschopoulos

Head of the Faculty of Medicine, School of Health Sciences, University of Ioannina, Greece

F. Vavvas

Manager of the University Hospital of Ioannina, Greece

G. Bompotis

President of the Haemodynamic and Interventional Cardiology Working Group, Hellenic Cardiological Society, Greece

D. Karmpaliotis

Assistant Professor of Cardiology, Columbia University Medical Center, New York, USA

E. Skalidis

Vice President of the Haemodynamic and Interventional Cardiology Working Group, Hellenic Cardiological Society, Greece



ELIKAR Hellenic Heart Foundation

Session 1

13.00-17.00

TAVI - Live Cases from Hippocration Hospital, Athens Moderator: L. K. Michalis

Panel: Ch. Alexiou, G. Bompotis, G. Karavolias, G. Katsimagklis, D. Nikas, S. Siminelakis, M. Skalidis, V. Voudris, Ch. Liakos, Ch. Olympios

<u>Case 1</u> <u>Operators</u>: K. Aggeli, G. Latsios, A. Synetos, K. Toutouzas

Case 2 Operators: G. Latsios, A. Synetos, K. Toutouzas

Lectures

Which aortic stenosis patients are definitely not TAVI candidates?

E. Vavouranakis

New TAVI indications: bicuspid AoV disease, AoS +CAD, AoS+ MR, Low flow AoS, predominant AoR **V. Voudris**

V. Voudris

Different types of valves: Advantages and disadvantages. How can we decide, which valve suits to our patient?

K. Spargias

Session 2

Cardio- Anesthesiology Session Chairmen: M. Gouliami, K. Spanopoulos

Panel: D. Mpliamplias

Lectures

Choices in anaesthetic management in TAVI patients E. Melidi

General anaesthesia in TAVI patient? To whom it may concern **M. Bousoula**

17.00-18.00

JULY, 7=9 2016 Grand Serai Hotel Ioannina-Greece www.cardio-cath.gr

Parallel Sessions

18.00-20.00

Hall "Evergeton"

Session 3: CTO Session

CTO - Live Cases from University Hospital of Ioannina Moderator: I. Ungi

Panel: S. Hadjimiltiades, P. Karanikis, Ch. Papadopoulos, V. Tzifos, I. Zarifis

Operators: D. Karmpaliotis, C. Katsouras, L. Michalis

CTO - Case presentations (video)

Case 1 Presenter: D. Zioutas

Case 2 Presenter: A. Angelis

<u>Case 3</u> <u>Presenter</u>: **P. Dardas**

Lectures

Novel tools for optimizing a CTO attempt I. Unghi

CTO PCI **D. Karmpaliotis**

Workshop

Hall "Lord Byron"

Measuring CT for TAVI (Part I) Trainer: V. Martzaklis



ELIKAR Hellenic Heart Foundation

Friday, July 8th, 2016

09.30-10.30

Transeptal puncture from A to Z Chairmen: K. Stratos, D. Tsiachris

<u>Cases</u> <u>Presenters</u>: K. Aggeli, V. Thanopoulos

Session 5

Session 4

10.30-11.45

LAA closure Case presentation (video) Chairmen: K. Toutouzas, A. Tzikas

Lecture

LAA update **A. Tzikas**

<u>Case 1</u> <u>Presenters</u>: G. lakovou, A. Tzikas, V. Voudris

<u>Case 2</u>

Presenters: K. Aggeli, O. Kaitozis, G. Katsimaglis

Parallel Sessions

Session 6

Bifurcations and LM (cases) From A to Z Chairman: **G. Stankovic**

<u>Cases</u> <u>Presenters</u>: G. lakovou, V. Spanos

Workshop

Measuring CT for TAVI (Part II) Trainer: V. Martzaklis

Lunch time

11.45-13.45

Hall "Evergeton"

Hall "Lord Byron"

13.45-14.45

JULY, 7=9 2016 Grand Serai Hotel Ioannina-Greece www.cardio-cath.gr

Session 7

Live Cases from University Hospital of Ioannina Moderator: K. Toutouzas

Panel: E. Eleftheriadis, G. Triantis, E. Lazaris, , N. Manginas, D. Oikonomou, G. Pavlakis, D. Pentousis, M. Peroulis, K. Skalidis, A. Ziakas

<u>Cases</u>

Operators: A. Arampatzis, C. Katsouras, D. Karmpaliotis, L. Michalis, D. Nikas, M. Papafaklis, D. Sionis, K Spargias

Lectures

OCT L. Lakkas

FFR **M. Hamilos**

Next generation's stents A. Arampatzis

Lectures

18.45-19.45

Coronary angiography: indications, limitations, artifacts <u>Chairman</u>: **S. Foussas** <u>Speaker</u>: **G. Goudevenos**

P2Y12 inhibitors: Drug-drug interactions with morphine and PPIs <u>Chairman</u>: **K. Tsioufis** <u>Speaker</u>: **D. Alexopoulos**

Embedding physiology into the DNA of revascularisation: iFR Scout Chairman: **S. Hadjimiltiades** Speaker: **S. Sen**

Dinner



ELIKAR Hellenic Heart Foundation

Saturday, July 9th, 2016

Session 8

09.30-11.00

Echo in the Cath Lab Chairmen: K. Aggeli, P. Nihoyannopoulos

Lectures

Tips and tricks during TAVI implantation **D. Tsiapras**

Guidance for ASD closure **V. Ninios**

Paravalvular leaks G. Trantalis

Mitral interventions **M. Chrissocheris**

LAA closure **M. Drakopoulou**

JULY, 7=9 2016 Grand Serai Hotel Ioannina-Greece

Technology parade Chairmen: L. Michalis, K. Toutouzas Invited Speaker: Y. lesse Image fusion techniques in a modern Cath lab in a Hybrid room Sponsored by Philips Invited Speaker: J. Harnek

11.00-12.30

Sponsored by Boston

Session 9

- Invited Speaker/Instructor: T. Passalis Sponsored by St Jude Medical
- Invited Speaker/Instructor: F. Grispen Medtronic Interventional Technologies: "Looking Ahead" Sponsored by Medtronic

Invited Speaker/Instructor: I. Mackevica Medtronic TAVI Educational Program Sponsored by Medtronic

Invited Speaker: D. Fotiadis Computational Models for diagnosis and prognosis of atherosclerosis



ELIKAR Hellenic Heart Foundation



12.30-14.30

Interesting cases of the year!!!

<u>Chairmen</u>: **G. Bompotis, J. Kanakakis, D. Karmpaliotis, C. Kotoulas,** L. Michalis, K. Toutouzas

Case 1 K. Lampropoulos

Case 2 M. Koutouzis

Case 3 P. Kloufetos

Case 4 G. Zarifis

Case 5 A. Zacharoulis

Case 6

E. Pappa

Case 7 P. Hatzigiannis

Case 8 Ch. Arampatzis

Case 9 M. Bourboulis

Closing Remarks

L. Michalis, D. Karmpaliotis, K. Toutouzas

JULY, 7-9 2016 Grand Serai Hotel Ioannina-Greece

Invited Faculty

Aggeli Konstantina

Assistant Professor of Cardiology, University of Athens, 1st Department of Cardiology, "Hippokration" Hospital, University of Athens, Athens, Greece

Angelis Athanasios

Interventional Cardiology Fellow, 1st Department of Cardiology, "Hippokration" Hospital, University of Athens, Athens, Greece

Alexopoulos Dimitrios

Professor of Cardiology, Faculty of Medicine, School of Health Sciences, University of Patras, Patras, Greece

Alexiou Christos

Cardiothoracic Surgeon, Interbalkan Medical center, Thessaloniki, Greece

Arampatzis Chourmouzios

Interventional Cardiologist, Interbalkan Medical center, Thessaloniki, Greece

Bompotis George

Director, Department of Interventional Cardiology, "Papageorgiou" General Hospital of Thessaloniki, President of the Haemodynamic and Interventional Cardiology Working Group, Hellenic Cardiological Society, Thessaloniki, Greece

Bourboulis Nikos

Interventional Cardiologist, Director, Cardiology Department, Hellenic Red Cross Hospital, Athens, Greece

Bousoula Maria

Associate Director, Department of Anaesthesiology, "Errikos Ntinan" Hospital of Athens, Athens, Greece

Chrissoheris Michael

Cardiologist, Consultant, Transcatheter Heart Valves Department, HYGEIA, Athens, Greece

Dardas Petros

Interventional Cardiologist, Director, Cardiovascular Laboratory, St. Luke's General Clinic, Thessaloniki, Greece

Drakopoulou Maria

Cardiologist, 1st Cardiology University Department, "Hippokration" General Hospital of Athens, Athens, Greece

Eleutheriadis Elias

Associate Professor of Medicine and Physiology, Loyola University, Chicago, IL, USA, Director, 1st Department of Cardiology Iaso General Hospital, Athens, Greece

Fotiadis Dimitris

Prof. of Biomedical Engineering, Unit of Medical Technology and Intelligent Information Systems, Dept. of Materials Science and Engineering, University of Ioannina, Greece

Foussas Stefanos

Assistant Professor & Director of Cardiology Department, Tzaneio State Hospital, Piraeus, Athens, Greece



ELIKAR Hellenic Heart Foundation

Gouliami Maria

Director of Anesthesiology, Anesthesiology Department, General Hospital of Athens "Hippokration", Athens, Greece

Goudevenos John

Professor of Cardiology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece

Grispen Femke

Marketing Manager Medtronic, Structural Heart

Hamilos Michalis

Consultant of Cardiology, University Hospital of Heraklion, Heraklion, Greece

Harnek Jan

Professor of Cardiology, Department of Coronary Heart Disease, Skane, University Hospital, Lund, Sweden

Hadjimiltiades Stavros

Associate Professor of Cardiology, AHEPA Hospital, Aristotle University of Thessaloniki, Thessaloniki, Greece

Hatziyiannis Periandros

Resident of Cardiology, Cardiology Department, "Thriassio", Elefsina General Hospital, Elefsina, Greece

lakovou loannis

Associate Director, Department of Hemodynamic Studies & Interventional Cardiology, "Onassis" Cardiac Surgery Center of Athens, Athens, Greece

lesse Yiannis Key Account Manager, Philips Company

Kaitozis Odysseas

Cardiologist, Clinical Fellow, Department of Cardiology, "Hippokration" Hospital, University of Athens, Athens, Greece

Kanakakis John

Director of Catheteriazon Laboratory, Department of Clinical Therapeutics, "Alexandra" General Hospital of Athens, Athens, Greece

Karanikis Pavlos

Consultant, Cardiology Department, "Hatzikosta" General Hospital of Ioannina, Ioannina, Greece

Karavolias George

Associate Director, 2nd Department of Hemodynamic Studies & Interventional Cardiology, "Onassis" Cardiac Surgery Center of Athens, Athens, Greece

Karmpaliotis Dimitrios

Assistant Professor of Cardiology, Columbia University Medical Center, New York, USA

Katsimagklis George

Director of Cardiology Department & Cath Lab of Naval Hospital of Athens, Athens, Greece

Katsouras Christos

Assistant Professor of Cardiology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece

Kloufetos Pericles

Consultant, Cardiology Department, General Hospital of Kalamata, Messinia, Greece

Kotoulas Christophoros

Cardiac Surgeon, Deputy Director, Cardiac Surgery Deptartment of Hellenic Armed Forces, 401 Army General Hospital, Athens, Greece

JULY, 7=9 2016 Grand Serai Hotel Ioannina-Greece

Koutouzis Michael

Interventional Cardiologist, Red Cross Hospital, Athens, Greece

Lakkas Lampros

Cardiologist, Cardiology Department, University General Hospital of Ioannina, Ioannina, Greece

Lampropoulos Konstantinos

Interventional Cardiologist, Consultant, Cardiology Department, Evangelismos General Hospital, Athens, Greece

Latsios George

Interventional Cardiologist, Consultant, Cardiology Department, General Hospital of Athens "Hippokration", Athens, Greece

Lazaris Efstathios

Director, 2nd Department of Cardiology, General Hospital of Athens "Korgialeneio-Benakio", Athens, Greece

Liakos Charalampos

MD, MSc, PhD, Athens Faculty of Medicine Scholar in Interventional Cardiology "Hippokration" Hospital, 1st University Cardiology Department, Athens, Greece

Mackevica Indra

Marketing Manager Medtronic, TAVI, Europe

Manginas Athanasios

Director, Interventional Cardiology & Cardiology Department, Mediterraneo General Hospital, Athens, Greece

Martzaklis Vassilios

Sr. Global Clinical Trainer, Medtronic Transcather Valves Therapiest

Mpliamplias Dimitrios

Consultant of Anesthesiology Department, General Hospital of Thessaloniki "Papageorgiou", Thessaloniki, Greece

Melidi Eleni

Consultant of Anesthesiology, Anesthesiology Department, General Hospital of Athens "Hippokration", Athens, Greece

Michalis Lampros

Professor of Cardiology, Faculty of Medicine, School of Health Sciences of University of Ioannina, Ioannina, Greece

Nihoyannopoulos Petros

Professor of Cardiology, Imperial College London, NHLI, Hammersmith Hospital, London, UK

Nikas Dimitrios

Consultant Interventional Cardiologist, Cardiology Department, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece

Ninios Vlassios

Interventional Cardiologist, Department of Cardiology, "St. Loukas" General Hospital of Thessaloniki, Thessaloniki, Greece

Oikonomou Dimitrios

Consultant of Cardiology, Faculty of Medicine, School of Health Sciences, University of Thessaly, Larissa, Greece

Olympios Christoforos

Director, Cardiology Department, "Thriassio", Elefsina General Hospital, Elefsina, Greece



ELIKAR Hellenic Heart Foundation

Papadopoulos Christodoulos

Assistant Professor of Cardiology, 3rd Cardiology Department "Hippokrateion" University Hospital Aristotle University of Thessaloniki, Thessaloniki, Greece

Papafaklis Michail

Clinical Fellow, Michaelideion Cardiac Centre Ioannina, School of Medicine, University of Ioannina, Ioannina Greece

Pappa Eugenia

Director, Cardiology Department, "Hatzikosta" General Hospital of Ioannina, Ioannina, Greece

Passalis Themis

Sales Manager Vascular South Greece, St Jude Medical Company

Pavlakis George

Consultant, Cardiology Department, General Hospital of Attica "KAT", Athens, Greece

Pentousis Dimitrios

Interventional Cardiologist,European Interbalkan Medical Center of Thessaloniki, Thessaloniki, Greece

Peroulis Michail

Assistant Consultant of Vascular Surgery, School of Medicine, University of Ioannina, Ioannina, Greece

Sen Sayan

Cardiologist & Honorary Senior Lecturer, Imperial College London, UK

Siminelakis Stavros

Associate Professor of Cardiac Surgery, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece

Sionis Dimitris

Director, Catheterization Unit of Interventional Cardiology, Sismanoglio - A. Fleming General Hospital of Athens, Athens, Greece

Skalidis Emmanouil

Assistant Professor of Cardiology, Faculty of Medicine, School of Health Sciences, University of Heraklion, Heraklion, Greece, Vice President of the Haemodynamic and Interventional Cardiology Working Group, Hellenic Cardiological Society, Greece

Spanopoulos Konstantinos

Consultant of Anesthesiology Department, General Hospital of Thessaloniki "Papageorgiou", Thessaloniki, Greece

Spanos Vassilios

Interventional Cardiologist, Director of Catheterization Laboratory, Heart Center, Athens Medical Center, Athens, Greece

Spargias Konstantinos

Director, Transcatheter Heart Valves Deptartment, HYGEIA, Athens, Greece

Stankovic Goran

Associate Professor of Internal Medicine, Belgrade University Medical School, Head of Department for Invasive Diagnostics of Division of Cardiology, Clinical Centre of Serbia, Belgrade, Serbia

Stratos Konstantinos

Director, 1st Department of Cardiology Mitera, Group of Hygeia Hospital, Athens, Greece

Synetos Andreas

Interventional Cardiologist, Consultant, Cardiology Department, General Hospital of Athens "Hippokration", Athens, Greece

JULY, 7-9 2016 Grand Serai Hotel Ioannina-Greece www.cardlio-cath.gr

Thanopoulos Vassilios

Associate Professor, Agios Loukas Clinic, Thessaloniki, Greece

Toutouzas Konstantinos

Associate Professor of Cardiology, University of Athens, 1st Department of Cardiology, "Hippokration" Hospital, Athens, Greece

Trantalis George

Cardiologist, Clinical Fellow, Cardiology Department, Faculty of Medicine, School of Health Sciences, National & Kapodistrian University of Athens, Athens, Greece

Triantis George

Interventional Cardiologist, Director, Catheterization Laboratatory, Sismanoglio - A. Fleming, General Hospital of Athens, Athens, Greece

Tsiachris Dimitrios

EP Lab Director Athens Medical Center, Athens, Greece

Tsiapras Dimitrios

Cardiologist, Deputy Director, Cardiology Deptartment, Onassis CSC, Athens, Greece

Tsioufis Konstantinos

Associate Professor of Cardiology, Faculty of Medicine, School of Health Sciences, National & Kapodistrian University of Athens, Athens, Greece

Tzifos Vaios

Interventional Cardiologist, Department of Cardiology, "Henry Dunant" Hospital of Athens, Athens, Greece

Tzikas Apostolos

Interventional Cardiologist, AHEPA University Hospital, Thessaloniki, Greece

Ungi Imre

Cardiologist, Director, Invasive Cardiology Divisionr, Faculty of Medicine, University of Szeged, Szeged, Hungary

Vavouranakis Emmanouil

Assistant Professor of Cardiology, Faculty of Medicine, School of Health Sciences, University of Athens, Athens, Greece

Voudris Vassilios

Director, 2nd Division of Interventional Cardiology, Chairman, Department of Cardiology, "Onassis" Cardiac Surgery Center of Athens, Athens, Greece

Zacharoulis Achilleas

Cardiologist, Consultant, 2nd University Cardiology Deptartment, Attikon University General Hospital, Athens, Greece

Zarifis loannis

Interventional Cardiologist, Director, Department Of Cardiology, "G. Papanikolaou" General Hospital, Thessaloniki, Greece

Ziakas Antonios

Associate Professor of Cardiology, Faculty of Medicine, School of Health Sciences of Aristotle University of Thessaloniki, Thessaloniki, Greece

Zioutas Dimitrios

Interventional Cardiologist, St Luke's Private Hospital, Thessaloniki, Greece



ELIKAR Hellenic Heart Foundation

General Information

Dates

<u>Opening Date</u>: Thursday, July 7th, 2016 <u>Closing Date</u>: Saturday, July 9th, 2016

Venue

The Course will be held at

GRAND SERAI CONGRESS Dodonis 33, 45332, Ioannina, Greece, Tel.: +30 26510 90550 E-mail: info@mitsis-grandserai.com, Facebook: Grand Serai Congress & Spa Website: http://grandserai.mitsishotels.com/

Official Language

The official language of the Course is English. Simultaneous translation will not be provided.

Registration

Registration for the Course and the workshops is free of charge.

Registration includes:

- Admittance to the Scientific Program of the Course
- Course Material
- Certificate of Attendance

Certificate of Attendance

All registered participants are entitled to receive a **Certificate of Attendance**. The Certificate will be issued only upon return of the name badge at the Secretariat desk onsite by the end of the Course.

Administrative-Organizing Bureau/Secretariat:



Conferre Ltd: "The Art of Bringing People Together" Stavrou Niarchou Avenue, GR 451 10 Ioannina, Greece Tel.: +30-2651 0 68610, Fax: +30-2651 0 68611, e-mail: info@conferre.gr, Website: www. conferre.gr



JULY, 7=9 2016 Grand Serai Hotel Ioannina-Greece

Sponsors

PRINCIPAL SPONSORS

Medtronic St. Jude Medical

SPONSORS



SCientific

PHILIPS



M.S. Jacovides Hellas S.A. Medtech Value for Life







THINK BIGGER: PORTICO[™] 27 AND 29 MM VALVE SIZES FOR CONTROL, EASE OF USE AND PEACE OF MIND—NOW IN LARGER SIZES!



The Next Big Thing is Here.

We're pleased to offer you a complete portfolio of Portico[™] valve sizes.

With the addition of the CE Mark approved 27 and 29 mm valves, the Portico valve portfolio offers you four valve sizes—23, 25, 27 and 29 mm—with the ability to treat an annulus range of 19-27 mm.

All four sizes are compatible with the delivery system that provides controlled deployment and full repositionability* so you can treat your patients with confidence.



SJM.com/Portico

*Until fully deployed.

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

Unless otherwise noted, [™] indicates that the name is a trademark of, or licensed to, St. Jude Medical or one of its subsidiaries. ST. JUDE MEDICAL and the nine-squares symbol are trademarks and service marks of St. Jude Medical, Inc. and its related companies. © 2015 St. Jude Medical, Inc. All Rights Reserved.

SJM-PTC-0715-0050b | Item approved for international use only.