Andrea Natale

WORK EXPERIENCE

Texas Cardiac Arrhythmia Institute – Austin, United States

City: Austin | **Country:** United States

Executive Medical Director

[Apr 2008 – Current]

Università degli Studi di Roma, Tor Vergata – Roma, Italy

City: Roma | **Country:** Italy

Full Professor of Cardiology

[Apr 2024 – Current]

HCA – United States

Country: United States

HCA National Medical Director

[2015 – Current]

Scripps Green Hospital – United States

Country: United States

Director, Interventional Electrophysiology

[2010 – Current]

Case Western Reserve University – United States

Country: United States

Clinical Associate Professor of Medicine

[2008 – Current]

Dell Medical School - The University of Texas (Austin) – United States

Country: United States

Professor of Medicine

[2015 – 2018]

Al-Sabah Arrhythmia Institute – United States

Country: United States

Executive Director

[2012 – 2013]

Cockrell School of Engineering - The University of Texas (Austin) – United States

Country: United States

Adjunct Professor

[2009 – 2018]

California Pacific Medical Center – United States

Country: United States

Senior Medical Director

[2005 – 2018]

Stanford University – United States

Country: United States

Consulting Professor

[2005 – 2017]

Cleveland Clinic Foundation – United States

Country: United States

Section Head - Electrophysiology and Pacing Department

[2005 – 2007]

Cleveland Clinic Foundation – United States

Country: United States

Program Director - EP fellowship Program

[2003 – 2005]

Cleveland Clinic Foundation – United States

Country: United States

Co-Section Head - Electrophysiology and Pacing Department

[2001 – 2005]

Cleveland Clinic Foundation - Center for Atrial Fibrillation -Department of Cardiovascular Medicine – United States

Country: United States

Medical Director

[2002 – 2007]

University of Kentucky – United States

Country: United States

Associate Professor of Medicine

[1997 – 1999]

Duke University Medical Center – United States

Country: United States

Assistant Professor of Medicine

[1994 – 1997]

Cleveland Clinic Foundation – United States

Country: United States

Director of Electrophysiology laboratories - Section of Electrophysiology and Pacing

[1999 – 2007]

Italian Air Force - Aerospace Research Centre – Italy

Country: Italy

Director of Electrophysiology laboratory - Head of the Cardiovascular Physiopathology Section

[1986 – 1991]

EDUCATION AND TRAINING

Clinical Fellow in Cardiology (Electrophysiology)

University of Wisconsin, Sinai Samaritan Medical Center [Jul 1992 – Dec 1993]

City: Milwaukee | **Country:** United States

Clinical Fellow in Cardiology (Electrophysiology)

University of Western Ontario [Jul 1991 – Jun 1992]

City: London | **Country:** Canada

Research Fellow in Cardiology

University of Western Ontario [Jul 1989 – Aug 1990]

City: London | **Country:** Canada

Research Fellow in Cardiology

The Methodist Hospital System, Baylor College of Medicine [1989 – 1989]

City: Huston | **Country:** United States

Resident in Cardiology

Università Cattolica del Sacro Cuore [Jul 1985 – Jun 1989]

City: Roma | **Country:** Italy | **Final grade:** 50/50 con lode

Degree in Medicine and Surgery

Università degli Studi di Firenze [Jul 1979 – Jul 1985]

City: Firenze | **Country:** Italy | **Final grade:** 110/110 con lode

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Microsoft Office / Microsoft Word / Microsoft Excel

NETWORKS & MEMBERSHIPS

[2023 – Current]
FAPHRS with the Asia Pacific Heart Rhythm Society

[2010 – Current]
FESC with the European Society of Cardiology

[2006 – Current]
FACC with the American College of Cardiology

[2003 – Current]
FAHA American Heart Association

[2006 – Current]
FHRS with the Heart Rhythm Society

[2005 – Current]
American Medical Association

[2008 – Current]
Texas Medical Association

Italian College of Physicians

Italian Society of Cardiology

[1991 – 2006]
Ontario College of Physicians and Surgeons

EDITORIAL BOARD

[2023 – Current]
Deputy Editor - Europace

[2022 – Current]
Editor in chief - Journal of Atrial Fibrillation

[2002 – Current]
Member of the Editorial Board of the Journal of Cardiovascular Electrophysiology

[2021 – Current]
Editorial/Reviewer Board Member - Int'l Journal of Anesthesiology Research

[2020 – Current]
Editorial Board - Journal of Cardiovascular Electrophysiology

[2011 – Current]
International Associate Editor of Journal of Arrhythmia, the Official Journal of the Japanese Heart Rhythm Society (JHRS) and Asia Pacific Heart Rhythm Society (APHRS)

[2010 – Current]
Founding Editorial Board Member – The Journal of Innovations in Cardiac Rhythm Management

[2009 – Current]
Editorial Board Member of World Journal of Cardiology

[2007 – Current]
Member of the Editorial Board of Advances in Arrhythmias

[2005 – Current]
Associate Editor of the Journal of Interventional Cardiac Electrophysiology

[2005 – Current]
Member of the Editorial Board and Advisory Committee of the Japanese Journal of Cardiac Arrhythmia

[2005 – Current]
Member of the Editorial Board of the EP Lab Digest

[2005 – Current]
Member of the Editorial Board of the Journal of the American College of Cardiology

[2019 – 2021]
Editor in chief - Journal of Interventional Cardiac Electrophysiology

[2013 – 2018]
Editor - Journal of Atrial Fibrillation

[2010 – 2011]
Heart Rhythm Society Editorial Board

[Current]
Editorial Consultant - JACC EP

[Current]
Consulting Editor - Cardiac Electrophysiology Clinic

[Current]
Editor, Medical Clinics of North America

Guest Associate Editor, JACC

Member of the Editorial Board of Arrhythmia & Electrophysiology Review (AER)

Member of the Editorial Board of the Austin Journal of Clinical Cardiology

Member of the Scientific Committee of the International Magazine of Health Emergencies "OPLITAI"

Reviewer – Texas Heart Institute Journal

Reviewer – Journal of the American College of Cardiology

Reviewer – American Journal of Cardiology

Reviewer – Journal of Cardiovascular Electrophysiology

Reviewer – American Heart Journal

Reviewer – Circulation

Reviewer– British Medical Journal

Reviewer– New England Journal of Medicine

Reviewer– Heart Rhythm Journal

Reviewer– Europace

Reviewer– International Heart Journal

Reviewer– International Journal of Cardiology

Reviewer– Lancet

Reviewer– Journal of the American Heart Association

LICENSURE AND CERTIFICATION:

2009	Georgia Medical License (#63378) 10/2/09 Active expires 10/31/2024
2009	New York Medical License (#255537) 12/03/09 expires 09/30/2025
2009	Colorado Medical License (#DR.0048224) 9/17/09 Active expires 4/30/2025
2008	Texas Medical License (#M9533) 5/13/08 expires 8/31/2025
2001	California Medical License (# C 50726) 12/07/01 Current expires 10/31/2025
2001	Board Certification: American Board of Electrophysiology (#181118) Exp. 2012
2012	Board Certification: American Board of Electrophysiology (#181118) Exp. 2022
2023	Board Certification: American Board of Electrophysiology (#181118) Exp. 2033
2000	Board Certification: American Board of Cardiology (#181118)
1999	Board Certification: American Board of Internal Medicine (#181118)
1999	Ohio State Medical License (#35–07–6775–N) 9/1/99 expires 04/01/24
2010	Florida Medical License (#ME 108024) 08/18/2010 Inactive Status 01/31/23
1997	Kentucky Medical License (# 33305) 8/20/97 Inactive Status 2/29/04
1993	North Carolina Medical License (#9300774) 11/20/1993 Inactive Status 10/15/04
1993	Wisconsin Medical License (#34255–20) 04/28/1993 Inactive Status 10/31/03
1992	FLEX Exam (Dec. 1, 1992)
1991	ECFMG Certificate (#0–454–173–6)
1991	Ontario Medical License (Registration #64557)
1989	Italian Board of Cardiology (Registration #3032/90/91)
1986	Italian Medical License (Registration #37804)
1985	Italian Board of Medicine (Certificate #1560)

AWARDS and HONORS:

2024	Wilton Wells Webster Lectureship Award, Heart Rhythm Society
2024	Guest Speaker at the Prix Galien International Awards Ceremony in Rome, Italy June 20, 2024
2023	International Fellow of APHRS (FAPHRS) at the 16th Edition of the APHRS 2023 Hong Kong.
2023	SKHF Humanitarian Award given at the Sheila Kar Health Foundation Annual Event – The 16th Annual Valentine's Health Seminar. Beverly Hills, CA. February 11, 2023.
2021	Pioneer in EP Award from EHRA to be given the 2020 Annual Meeting postponed to 2021 due to COVID 19 Pandemic.
2020	2020 Gold Reviewer Recognition Award. Awarded by the journal Circulation: Arrhythmia and Electrophysiology.
2019	Pioneer in EP Award. Awarded by Kansas City Heart Rhythm Society in August, 2019.
2018	PTV Star of Texas Healthcare Award
2018	Latin American Heart Rhythm Society (LAHRS) Member of Honor Appointment.
2017	The **2017 Eric N. Prystowsky Advocate for Patients Award**. Presented at the Annual StopAfib.org Patient Conference 2017.
2015–20	Dr. Andrea Natale on the 'Best Doctors" list in Austin Monthly Magazine. Austin, Texas.
2014	Simon Dack Award for Outstanding Scholarship 2014 Journal of the American College of Cardiology.
2012	Dr. Andrea Natale awarded the **Frist Humanitarian Award.** This award is given in recognition of the humanitarian efforts and achievements of one physician who demonstrates remarkable concern for the welfare and happiness of patients and has performed extraordinary acts of kindness, commitment to community service and whose contributions may be overshadowed due to personal modesty and genuine humility. March 6, 2012.
2011	Dr. Andrea Natale nominated among "The 50 best Cleveland Clinic Doctors. Ever." MedCity News December 21, 2011.
2011	Dr. Andrea Natale Inaugurates the International Arrhythmia Center at Fundación CardioInfantil in Bogota, Colombia July 7–10, 2011.
2011	**Fundación Cardioinfantil Instituto De Cardiologia Award** in Grateful Appreciation of His Contribution to the Consolidation of the International Arrhythmia Center "**Andrea Natale**" and His Scientific Work for Patient Health. Colombia, Bogota July 9, 2011.

2011–12	Dr. Andrea Natale elected to the Heart Rhythm Society Board of Trustees. May 6, 2011.
2011	University of Kansas. Heart Rhythm Symposium Abstract Competition, Kansas City 2011.
2011	Dr. Andrea Natale's name put forth to represent ACCF on 2012 revision of HRS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation. April 21, 2011.
2010–20	Dr. Andrea Natale selected among "The Best Doctors in America 2010–2020".
2009	Texas Cardiac Arrhythmia Institute at St. Davids Medical Center received The Bury + Partners Innovation Award 2009. Austin, Texas.
2009	Dr. Andrea Natale on the 'Best Doctors" list in January 2009 issue of Austin Monthly Magazine. Austin, Texas.
2003–08	Dr. Andrea Natale nominated among the "Best Doctors in America".
2007	Dr. Andrea Natale named "Cleveland Top Doc" in June 2007 issue of Northern Ohio Live. Cleveland, Ohio.
2006	Dr. Andrea Natale named "Best Doctors in America" featured in Cleveland Magazine. Cleveland, Ohio.
2005	Bakken Heart–Brain Institute Research Project "Cardiac Consequences of Subarachnoid Hemorrhage" – The Cleveland Clinic Bakken Heart–Brain Institute. Cleveland, Ohio.
2005	Dr. Andrea Natale named "Cleveland Top Doc" featured in Northern Ohio Live. Cleveland, Ohio.
2005	Dr. Andrea Natale named "Best Doctors in America" featured in Cleveland Magazine. Cleveland, Ohio.
2005	Innovator Award for Innovation in the Development of Direct Pericardial Delivery of Biological Therapeutic Agents – The Cleveland Clinic Foundation. Cleveland, Ohio.
2004	Dr. Andrea Natale named "Cleveland Top Doc" featured in Northern Ohio Live. Cleveland, Ohio.
2004	Dr. Andrea Natale named "Best Doctors in America" featured in Cleveland Magazine. Cleveland, Ohio
2004	Innovator Award for Innovation in the Development of Antibody–directed Specific Delivery of Antiarrhythmic Drugs – The Cleveland Clinic Foundation. Cleveland, Ohio.
1989	School of Cardiology, *Summa Cum Laude* (Catholic University, Rome, Italy).
1985	M.D. *Summa Cum Laude* (University of Florence, Italy).

Abstract and Research Awards:

2021	HRS Abstract received the highest scoring abstract award by peer reviewers in the category of Digital Health: "Impact of digital monitoring on compliance and outcome of lifestyle-change measures in patients with coexistent atrial fibrillation and obesity".
2020	EHRA Abstract selected to be presented as **Congress Highlight**: Association of thromboembolic risk with left atrial scars from extensive ablation in atrial fibrillation patients.
2020	ACC Abstract selected to be published as a 'topic of great interest' in European Medical Journal (Cardiology): Long-term ablation outcome in patients with coexistent diabetes and atrial fibrillation treated with insulin or oral antidiabetic agents or diet control.
2018	Best Oral Abstract, ECAS
2012	Best Abstract Award ECAS 2012 (European Cardiac Arrhythmia Society), Munich, Germany, April 20–22, 2012.
2011	Best Oral Abstract Award – CardioRhythm, Hong Kong, 2011.
2011	Best Poster Award – CardioRhythm, Hong Kong, 2011.
2011	Italian Society for Cardiovascular Research: Valsalva Award 2011.
2011	William Harvey Award 2011: Italian Society of Cardiology.
2011	Best Abstract Award – 4th WSA/ICPES Congress (World EP Conference), December 11–14, 2011, Athens, Greece.
2010	University of Kansas. Heart Rhythm Symposium Abstract Competition, Kansas City 2010.
2008	ACC 2008 (57th Annual Scientific Session) Best Poster Award Competition, Chicago, IL.
2008	Best International Publication in 2008. Manuscript published in a Journal with high impact factor. Italian Society Cardiology (SIC). Di Biase L., Gasparini M, Lunati M, Santini M, Landolina M, Boriani G, Curnis A, Bocchiardo M, Vincenti A, Denaro A, Valsecchi S, **Natale A**, Padeletti L; InSync/InSync ICD Italian Registry Investigators. Antiarrhythmic effect of reverse ventricular remodeling induced by cardiac resynchronization therapy: the InSync ICD (Implantable Cardioverter–Defibrillator) Italian Registry. ***J Am Coll Cardiol.*** 2008;52(18):1442–9.
2008	ESC 2008 State of the Art Featured Research, Abstract Session, Munich, Germany.

Mentorship:

2019	AF VT VF Symposium Research Award (Domenico Della Rocca, MD). Chicago, IL December 2019.
2019	Manohar Sai Gowda Memorial Young Investigator Cardiovascular Award (Domenico Della Rocca, MD) Kansas City Heart Rhythm Symposium. Kansas City, MO. August 2019.
2019	Heart Rhythm Society Travel Grant (Domenico Della Rocca, MD) San Francisco, CA. May 2019.
2009	Young Investigator Award (Luigi Di Biase, MD) – Italian Society of Cardiology (SIC) Rome, Italy. December 2009.
2005	Supervisor for Jennifer E. Cummings, M.D. – Recipient of the Cleveland Clinic Advanced Fellowship Award. Cleveland, Ohio.
2004	Supervisor for Oussama M. Wazni, M.D., Recipient of the Cleveland Clinic Foundation Cardiology Fellowship Award. Cleveland, Ohio.
2004	Supervisor for Atul Verma, M.D., Recipient of the Cleveland Clinic Foundation Advanced Fellowship Award. Cleveland, Ohio.
2004	Supervisor for Oussama M. Wazni, M.D., American College of Cardiology Finalist Young Investigator Award. Cleveland, Ohio.
2003	Supervisor for Atul Verma, M.D., Recipient of the Heart and Stroke Foundation of Canada Research Fellowship Award.
2003	Supervisor for Oussama M. Wazni, M.D. Recipient NASPE Clinical Fellow Young Scientist Award.
2003	Supervisor for Eduardo Saad, M.D., Recipient of the Cleveland Clinic Foundation Advanced Fellow Award. Cleveland, Ohio.
1994	American College of Cardiology Travel Award.
1993	North American Society of Pacing and Electrophysiology Travel Award.

ACC COMMITTEE ACTIVITIES:

- Member of the ACC Cardiovascular Management Section Leadership Council (Apr 1, 2020 – Apr 1, 2023)
- ACC Cardiovascular Management Section Leadership Council (April 1, 2020 – April 1 – 2023)
- Editorial Board, ACCEL Audio Journal (July 2020 to present)
- NCDR AF Ablation Steering Subcommittee Member (4/1/18 to 3/31/21)
- NCDR EP Registry Steering Subcommittee Member (4/1/18 to 3/31/21)
- Editorial Consultant JACC Journal of the American College of Cardiology (7/1/2005 – 6/30/2014)

AHA COMMITTEE ACTIVITIES:

- Council on Clinical Cardiology (CLCD)
- Council on Epidemiology and Prevention (EPI)

HRS COMMITTEE ACTIVITIES:

- HRS COMPASS Project – HRS Atrial Fibrillation Center of Excellence Task Force (2022 – present)
- HRS Atrial Fibrillation Webinar Education Series for Practitioners (2022 – present)
- Lead author for HRS white paper on "Integrated Care and AF Centers of Excellence: How Do We Promote Quality in the Care of Patients with AF?" (July 2019)
- HRS Board Liaison to the CME Compliance Subcommittee (Education Committee). (May 2013 – 2014)
- HRS/EHRA/ECAS/APHRS/SOLAECE Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation Writing Group (2017)
- HRS Board of Trustees Priority Planning Session Sept. 28 – 30th, 2012 Washington, DC
- HRS Board Liaison to the CME Compliance Subcommittee (Education Committee) (May 10, 2013 – 2014)
- Dr. Andrea Natale Nominated to the Heart Rhythm Society Board of Trustees. (May 2011 – May 2014)
- HRS Board of Trustees Priority Planning Session June 30 – July 1st, 2012 Washington, DC
- HRS Board of Trustees Priority Planning Session Jan. 20 – 22nd, 2012 Washington, DC
- HRS Leadership Retreat March 19–20, 2011 Washington, DC
- HRS Ablation Code Workgroup (2011)
- HRS Revise 2007 HRS Consensus Statement Writing Group (2011)
- HRS Member of Relationships with Industry Task Force (Sept. 2010 – April 2011)
- HRS AF Technical Advisory Panel (2010 – 2011)
- HRS Relationships w/Industry Task Force (2010 – 2011)

- HRS Member of the Reimbursement and Regulatory Affairs Subcommittee (May 2009 – May 2011)
- HRS Atrial Fibrillation Consensus Statement Committee (2006 – 2007)
- HRS FDA Task Force on Atrial Fibrillation (2006)
- HRS Founders Member – Chairman Level (2005)
- HRS Annual Meeting Program Committee Member (2005, 2007–08)
- HRS Founders Member (2004)

OTHER PROFESSIONAL AND ACADEMIC APPOINTMENTS:

- Invited to serve as Abstract Grader for the AHA Annual Scientific Sessions Chicago, IL 2024.
- Invited to serve as Abstract Grader for the ACC.24 Annual Scientific Sessions Atlanta, GA.
- Invited to serve as Abstract Grader for the EHRA Congress Berlin, GER 2024.
- Invited to serve as Abstract Grader for the HRS Annual Scientific Sessions Boston, MA 2024.
- Invited to serve as Abstract Grader for the ACC's 72nd Annual Scientific Sessions New Orleans, LA 2023.
- Invited to serve as Abstract Grader for the EHRA Congress 2023.
- Invited to serve as Abstract Grader and Faculty Member for Heart Rhythm Society's Annual Scientific Sessions New Orleans, LA 2023.
- Invited to serve as Abstract Grader and Faculty Member for Heart Rhythm Society's Annual Scientific Sessions San Francisco, CA 2022.
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions 2022.
- Invited to serve as Abstract Grader for the EHRA Congress 2022.
- Invited to serve as Abstract Grader for the ESC Congress 2022.
- Invited to serve as Abstract Grader for the ESC Congress 2021.
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions 2021.
- Invited to serve as Abstract Grader and Faculty Member for HRS Heart Rhythm Society's Annual Scientific Sessions. Boston, MA – 2021.
- Invited to serve as Abstract Grader for the EHRA European Heart Rhythm Association Congress. – Barcelona, Spain 2021.
- Invited to serve as Abstract Grader for the ESC Congress 2020. Amsterdam, Netherlands – 2020.
- Invited to serve as Abstract Grader for the ACC.20/WCC American College of Cardiology/World Cardiology Congress. Chicago, Illinois – 2020.
- Invited to serve as Abstract Grader for the LAHRS Latin American Heart Rhythm Society Congress. Guadalajara, Mexico - 2019.
- Invited to serve as Abstract Grader and Faculty Member for HRS Heart Rhythm Society's 40th Annual Scientific Sessions. San Francisco, CA – 2019
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions.

Philadelphia, Pennsylvania – 2019.

- Invited to serve as Abstract Grader for the ESC Congress 2019. Paris, France – 2019.
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions. Chicago, Illinois – 2018.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology Congress. Munich, Germany – 2018.
- Invited to serve as Abstract Grader for the EHRA European Heart Rhythm Association Congress. Barcelona, Spain – 2018.
- Invited to serve as Abstract Grader and Faculty Member for HRS Heart Rhythm Society's 39th Annual Scientific Sessions. Boston, MA – 2018
- Invited to serve as Abstract Grader for the International Academy of Cardiology Annual Scientific Sessions. Boston, Massachusetts - 2018.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology Congress. Barcelona, Spain – 2017.
- Invited to serve as Abstract Grader and Faculty Member for HRS Heart Rhythm Society's 38th Annual Scientific Sessions. Chicago, IL – 2017.
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions New Orleans, LA – 2016.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology (ESC) Congress. Rome, Italy – 2016.
- Invited to serve as Abstract Grader and Faculty Member for the Heart Rhythm Society's 37th Annual Scientific Sessions. San Francisco, CA – 2016.
- Invited to serve as Abstract Grader for ACC.16 American College of Cardiology. Chicago, IL – 2016.
- Invited to serve as Abstract Grader for the International Academy of Cardiology, Annual Scientific Sessions 2015, 20th World Congress on Heart Disease, Boston, MA – 2015.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology (ESC) Congress. London, England – 2015.
- Invited to serve as Abstract Grader and Faculty Member for the Heart Rhythm Society's 36th Annual Scientific Sessions. Boston, MA – 2015.
- Invited to serve as Abstract Grader for ACC.15 American College of Cardiology. San Diego, CA – 2015.
- Invited to serve as Abstract Grader for the AHA American Heart Association Scientific Sessions Chicago, IL – 2014
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology (ESC) Congress. Barcelona, Spain – 2014.
- Invited to serve as Abstract Grader for ACC.14 American College of Cardiology. Washington, DC – 2014.
- Invited to serve as Abstract Grader and Faculty Member for the Heart Rhythm Society's 35th Annual Scientific Sessions. San Francisco, CA – 2014.
- Invited to serve as Abstract Grader for ACC.13 American College of Cardiology. Dallas, Texas 2013
- Invited to serve as Abstract Grader for the European Society of Cardiology (ESC) Congress Amsterdam, Netherlands – 2013.
- Invited to join the International Scientific Advisory Board of 6th APHRS & CardioRhythm – 2013.
- Invited to serve as Abstract Grader and Faculty Member for Heart Rhythm Society's 34th Annual Scientific Sessions Denver, CO – 2013.

- Invited to serve as Abstract Grader for ACC.12 American College of Cardiology – 2012
- Invited to serve as Abstract Grader for the AHA Scientific Sessions, Los Angeles, CA – 2012.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology Meeting. Munich, Germany – 2012.
- Invited to serve as Abstract Grader and Faculty Member for Heart Rhythm Society's 33rd Annual Scientific Sessions, Boston, MA – 2012.
- Invited to serve as Co–President, Faculty Program Committee Member and Chairman for the VeniceArrhythmias, Venice, IT – 2011.
- Invited to serve as Abstract Grader for the AHA Scientific Sessions, Orlando, Florida – 2011.
- Invited as Chairperson of The Program Development Committee on "Atrial Fibrillation (Ablation) for CardioRhythm, Hong Kong – 2011.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology Meeting. Paris, France – 2011.
- Invited to serve as Abstract Grader and Faculty Member for Heart Rhythm Society's 32nd Annual Scientific Sessions San Francisco, CA – 2011.
- Invited to serve as Abstract Grader for ACC.11 American College of Cardiology – 2011
- Invited to serve as Abstract Grader and Faculty Member for the Heart Rhythm Society's 31st Annual Scientific Sessions. Denver, CO – 2010.
- Invited to serve as Abstract Grader for ACC.10 American College of Cardiology – 2010
- Invited to serve as Abstract Grader for the American Heart Association Scientific Sessions, Chicago IL – 2010.
- Invited to serve as Abstract Grader for the ESC European Society of Cardiology Meeting – 2010.
- Invited to serve as Abstract Reviewer for The American Heart Association Scientific Sessions, Orlando, FL – 2009.
- Invited to serve as Co–President, Faculty Program Committee Member and Chairman for the Venice Arrhythmias, Venice, IT – 2009.
- Invited to serve as Abstract Reviewer for European Society of Cardiology Congress, Barcelona, Spain – 2009.
- Invited to serve as Abstract Reviewer for The Heart Rhythm Society's 30th Annual Scientific Sessions. Boston, MA – 2009.
- Invited to serve as Abstract Grader for ACC.09 American College of Cardiology – 2009
- Invited to serve as Program Committee Member for the 29th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (Heart Rhythm Society) – 2008
- Invited to serve as Abstract Grader and Faculty Member for the 29th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (Heart Rhythm Society) – 2008.
- Invited to serve as Abstract Reviewer for the ACC.08, 57th Annual Scientific Session, Orlando, FL – 2008.
- Invited to serve as Co–President, Faculty Program Committee Member and Chairman for the Venice Arrhythmias, Venice – 2007.
- Member: Safety Committee for the FDA for the Optimizer System Study DSMB Meeting July 20th, 2007.
- Invited to serve as Program Chairman, Co–Moderator, and Speaker: Heart Rhythm 28th Annual Scientific Sessions. Denver, Colorado – 2007.
- Invited to serve as Abstract Reviewer for the ACC.07, 56th Annual Scientific Session, New Orleans, LA – 2007.

- Invited to serve as Course Director EP Fellows Winter Symposium Miami, Florida – February 2007.
- Invited to serve as Abstract Grader and Faculty Member of the American College of North Carolina – 2006.
- Invited to serve as Abstract Grader and Faculty Member for the 27th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (Heart Rhythm Society), Boston, Massachusetts – 2006.
- Invited to serve as Guest Editor for the *Journal of Interventional Cardiac Electrophysiology*: Special Issue Novel Technologies in the Interventional Electrophysiology Laboratory: Volume 13, Supplement 1 – 2005.
- Invited to serve as Abstract Grader of the American Heart Association (AHA) annual meeting in Dallas, Texas – 2005.
- Invited to serve as Program Committee Member for the 26th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (Heart Rhythm Society) – New Orleans, LA – 2005.
- Invited to serve as a Faculty Program Committee Member for the EP in Aspen III, Southern Colorado – 2005.
- Invited to serve as a Faculty Program Committee Member and Chairman for the Venice Arrhythmias, Venice – 2005.
- Invited to serve as a Faculty Committee Member for the Atrial Fibrillation and Ventricular Arrhythmia Management, Aspen, Colorado – 2005.
- Invited to serve as a Faculty Committee Member for the International Meeting on Atrial Fibrillation, Bologna – 2005.
- Invited to serve as a Faculty Committee Member for the 10th Atrial Fibrillation Symposium, Boston, Massachusetts – 2005.
- Invited to serve as a Faculty Committee Member for Physician Advisory Board (PAB), Boston, Massachusetts – 2005.
- Invited to serve as Program Committee Member for the Biosense Webster Focus Group, Boston, and Massachusetts – 2005.
- Invited to serve as Abstract Grader and Faculty Member for the 26th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (Heart Rhythm Society), New Orleans, Los Angeles – 2005.
- Invited to serve as Abstract Grader and Faculty Member for the European Cardiac Arrhythmia Society annual meeting in Marseille, France – 2005.
- Invited to serve as Abstract Grader of the American Heart Association (AHA) annual meeting in New Orleans, Los Angeles – 2004.
- Invited to serve as Abstract Grader and Faculty Member for the 25th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (NASPE), San Francisco, California – 2004.
- Invited to serve as Program Committee Member for the 25th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (NASPE), San Francisco, California – 2004.
- Invited to Co–Chair the "Meet the Experts" Session for the 53rd Annual American College of Cardiology (ACC) Scientific Session in New Orleans, Los Angeles – 2004.
- Invited to serve as Abstract Grader of the American Heart Association (AHA) annual meeting in Orlando, Florida – 2003.
- Organizer and Co–Program Director, Atrial Fibrillation Summit, sponsored by The Cleveland Clinic Foundation, Cleveland, Ohio – 2003.

- Invited to serve as Abstract Grader and Faculty Member for the 24th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology (NASPE), Washington, District of Columbia – 2003.
- Invited to Co–Chair the "Meet the Experts" Session for the 52nd Annual American College of Cardiology (ACC) Scientific Session in Chicago, Illinois – 2003.
- Invited to serve as Committee Member/Abstract Grader for the XII World Congress on Cardiac Pacing and Electrophysiology in Hong Kong, China – 2003.
- Invited to serve as Abstract Grader of the American Heart Association (AHA) annual meeting in Chicago, Illinois – 2002.
- Invited to Co–chair the Free Paper Session "Catheter Ablation of Supraventricular and Ventricular Tachyarrhythmias" at the X International Symposium on Progress in Clinical Pacing in Rome, Italy – 2002.
- Invited to Co–chair Scope Session "Mapping and Ablation of Complex Arrhythmias" at XXIV Congress of the European Society of Cardiology Meeting in Berlin, Germany – 2002.
- Invited to Co–chair Atrial Fibrillation (Part II), "Safety and Long–Term Efficacy of Techniques for PV Isolation" at Cardiostim, Nice, France – 2002.
- Invited to Chair Abstract Session "Catheter Ablation I: Technical Advances" at the North American Society of Pacing and Electrophysiology Meeting (NASPE), San Diego, California – 2002.
- Invited to serve as Abstract Grader for the North American Society of Pacing and Electrophysiology (NASPE) meeting in San Diego, California – 2002.
- Invited to serve as Program Presenter for the American College of Cardiology (ACC) meeting in Atlanta, Georgia – 2002.
- Organizer and Program Director, "Electrophysiology 2001: New Technologies in the Diagnosis and Treatment of Complex Arrhythmias" (AHA) meeting, Anaheim, California – 2001.
- Invited to serve as Abstract Grader for the American Heart Association (AHA) meeting in Anaheim, California – 2001.
- Invited to serve as Abstract Grader for the North American Society of Pacing and Electrophysiology (NASPE) meeting in New Orleans, Los Angeles – 2001.
- Invited Chairman for the Symposium "Atrial fibrillation: invasive therapies," Rome, Italy – 2000.
- Invited to serve as Speaker for the Clinical Tutorial Session at NASPE titled, "Troubleshooting in Complex Ablations" with the first live ablation case broadcast done from The Cleveland Clinic Foundation, Washington, District of Columbia – 2000.
- Invited to serve as Abstract Grader at the American Heart Association Meeting – 2000.
- Invited to serve as Abstract Grader at the North American Society of Pacing and Electrophysiology Meeting (NASPE), Washington, District of Columbia – 2000.
- Invited as Speaker at Luncheon Panel. Arrhythmias in Athletes during the Annual American College of Cardiology Meeting. Anaheim, California – 2000.
- Invited to serve as Abstract Grader at the XIth World Symposium on Cardiac Pacing and Electrophysiology, Berlin, Germany – 1999.
- Invited to serve as Chairman of the Symposium "Atrial Fibrillation – State of the Art" at the 11th International Congress Cardiostim. Nice, France – 1998.
- Invited to serve as Chair of Core Curriculum on "Advances in Ventricular Defibrillation" during the annual meeting of the North American Society of Pacing and Electrophysiology (NAPSE) – 1998.
- Invited to serve as Abstract Grader at the North American Society of Pacing and Electrophysiology Meeting (NASPE) San Diego, CA – 1998.
- Invited to serve as Abstract Grader at the American College of Cardiology Meeting (Supraventricular

Arrhythmias – Clinical Electrophysiology) – 1997.

- Invited to serve as Co–Chairman of the Oral Original Contribution Session at the American College of Cardiology 46th Annual Scientific Session (Newer therapy for Atrial Fibrillation) Anaheim, CA – 1997.

Grants and Research Awards:

IDE#G230170 NCT05752487 Natale 12/11/2023 – Current
Safety and Effectiveness Evaluation of the THERMOCOOL SMARTTOUCH SF Catheter with the TRUPULSE Generator for Treatment of Paroxysmal Atrial Fibrillation (PAF)

NCT05809596 Natale 9/25/2023 – Current
HEAL-LAA: Post-Market Real World Outcomes in WATCHMAN FLX™ Pro Left Atrial Appendage Closure (LAAC) Device

IDE#G220166 NCT04577859 Natale (Co-PI) 6/11/2023 - Current
Improving Esophageal Protection During AF Ablation: a Multicentre Double-blind Randomized Clinical Trial

IDE# G220079 NCT05443594 Natale 3/13/2023 – Current
A Prospective Single Arm Open Label Study of the FARAPULSE Pulsed Field Ablation System in Subjects with Persistent Atrial Fibrillation.

IDE#G210339 NCT05252702 Natale 6/13/2022 – Current
Aveir Dual-Chamber Leadless i2i IDE Study

IDE#G220034 NCT05293639 Natale 5/6/2022 - Current
Assessment of Safety and Effectiveness in Treatment Management of Atrial Fibrillation with the BWI IRE Ablation System (AdmIRE)

IDE#G210170 NCT05120193 Natale 12/01/2021 – Current
Treatment of Persistent Atrial Fibrillation with the Sphere-9 Mapping and Ablation Catheter and the Affera Mapping and Ablation System.

N/A Natale 7/30/2021 –
SAMSUNG Watch

N/A Natale 7/23/2021 -
BSC LUX Dx

N/A Natale 7/17/2021 –
Phillips ICE

G180263 Natale 6/14/2021 –
Adagio iCLAS

G200064 Natale 6/2/2021 –
S4 Medical Esophageal Deviation (EASY-AF)

G190171 Natale 4/22/2021 –
Dignity Health Medical PIVOTAL Cryo

N/A Natale (PI) 4/18/2021
Early Ablation Therapy for the Treatment of ISchemic Ventricular Tachycardia in Patients with Implantable CardioverteR DEfibrillators (ASPIRE Study)

NCT04830774 Natale (PI) 4/15/2021 – Current
Natural History and Recurrence Rate of Atrial Fibrillation after the First, COVID-19-Related Atrial Arrhythmic Episode: A Prospective Evaluation Using Continuous Cardiac Rhythm Monitoring.

G180189 Natale 4/9/2021 –
Conformal Medical LAAO

N/A Natale 4/13/2021 -
Stanford BAROS Bariatric Surgery

IDE#G200259 NCT04612244 Natale 3/31/2021 – Current
A Prospective Randomized Pivotal Trial of the FARAPULSE Pulsed Field Ablation System Compared with Standard of Care Ablation in Patients with Paroxysmal Atrial Fibrillation.

G190234 Natale 2/10/2021 –
Ultra HFIB Mt. Sinai

NCT04736524 Natale (PI) 1/15/2021 – 3/2022
Immune Response Following COVID-19 Vaccination (IFVAC)

N/A Natale 11/28/2020 -
Acutus Discover

N/A Natale 10/24/2020 -
Kansas City DASH

G200106 Natale 10/2/2020 -
BSC Champion

G190272 Natale 9/29/2020 –
MDT Pulsed

NCT04502017 Natale 8/5/2020 – 12/31/2023
Efficacy of Different Anti-Thrombotic Strategies on Device-Related Thrombosis Prevention after Percutaneous Left Atrial Appendage Occlusion.

G190293 Natale 8/3/2020 –
Abbott TactiFlex

NCT04160000 Natale (Study Director) 7/26/2020 – Current
A Phase 4, Randomized, Open Label, Multicenter Prospective Comparative Study to Evaluate the Treatment of Atrial Fibrillation in Preserved Cardiac Function Heart Failure

IND#149491 Natale 6/2/2020 -
ViralClear MMPD

NCT04216667 Natale (Co-PI) 1/16/2020 – 6/30/2023
Posterior Wall and Left Atrial Appendage Empiric Isolation for Non-Paroxysmal Atrial Fibrillation (The Plea Trial)

NCT04506229 Natale (PI) 8/10/2020 – 9/2021
Genetic Mechanisms Underlying SARS-CoV-2 Infection and the Impact of COVID-19 on Cognitive Function (GenCov)

G180270 Natale 12/18/2019
BSC Option

K180805 Natale 11/8/2019
BioSig PURE

NCT04037397 Natale (PI) 9/24/2019 - Current
First Line Radiofrequency Ablation Versus Antiarrhythmic Drugs for Persistent Atrial Fibrillation Treatment: the RAAFT–3 Trial, 1.65 million

G110030 Natale (PI) 6/12/2019 -
THERMOCOOL® SMARTTOUCH™ Catheter for the Treatment of Symptomatic Paroxysmal Atrial Fibrillation (PAF).

N/A Natale 5/21/2019 -
MARVEN

G180176 Natale 2/6/2019 -
Biosense QDOT

Natale (Co–PI) 2019
Low Voltage–Directed Catheter Ablation for Atrial Fibrillation (LD–CAF), Biosense–Webster, $75,000

NCT03775512 Natale (Co-PI) 1/30/2019 – 2/17/2022
Evaluation of QDOT MICRO™ Catheter for Pulmonary Vein Isolation (PVI) in Subjects with PAF

NCT04520347 Natale (Study Chair) 12/1/18 - Current
An International VT Ablation Center Collaborative Group (IVTCC): A Multicenter Ventricular Tachycardia Catheter Ablation Registry

NCT03643224 Natale (Co-PI) 9/20/18 – Current
A Prospective Clinical Evaluation of the DiamondTemp™ System for the Treatment of Persistent Atrial Fibrillation.

NCT03503253 Natale (PI) 4/9/2018
Transcatheter Leak Closure with Detachable Coils Following Incomplete Left Atrial Appendage Closure Procedures

IDE# 170215 Natale (PI) 12/28/2018
Unpinning Termination Therapy for VT/VF

IDE# G180149 Natale (PI) 10/16/2018
Safety and Effectiveness of TactiCath Contact Force, Sensor Enabled (TactiCath SE) Catheter for Ablation of Drug Refractory, Symptomatic, Persistent Atrial Fibrillation

IDE# P030031 Natale (PI) 9/7/2018
Evaluation of The VISITAG SURPOINT™ Module with External Processing Unit (EPU) when used with the THERMOCOOL SMARTTOUCH® SF and the THERMOCOOL SMARTTOUCH® Catheters for Pulmonary Vein Isolation (PVI) (SURPOINT COA)

IDE#G150210 Natale (PI) 6/12/2018
Reduce LAP – HF Randomized Trial II: A Study to Evaluate the Corvia Medical, Inc. IASD® System II to REDUCE Elevated Left Atrial Pressure in Patients with Heart Failure.

IDE# G170245 Natale (PI) 2/10/2018
Multi-Center Acute Safety Trial of TactiCath™ Contact Force Ablation Catheter, Sensor Enabled™ (TactiCath SE) for the Treatment of Drug Refractory Recurrent Symptomatic Paroxysmal Atrial Fibrillation.

NCT03683030 Natale (Co-PI) 10/22/18 – 2/18/2022
Safety and Effectiveness Evaluation of the Multi-Electrode Radiofrequency Balloon Catheter for the Treatment of Symptomatic Paroxysmal Atrial Fibrillation (STELLAR)

NCT03498586 Natale (PI) 5/2/2018-5/2/2020
Half-normal Saline vs Normal Saline for Irrigation of Open-irrigated Radiofrequency Catheters in Atrial Fibrillation Ablation

IDE# G170277 Natale (Co PI) 11/28/2017
A Randomized Controlled Clinical Evaluation of the DiamondTemp™ Ablation System for the Treatment of Paroxysmal Atrial Fibrillation

IDE# G170144 Natale (PI) 9/1/2017
Multi-Center, Single Arm Continuing Access Protocol to Evaluate the Cardiva Mid-Bore Venous Vascular Closure System (VVCS) for the Management of the Femoral Venotomy after Catheter-Based Interventions Performed via 6-12 FR Procedural Sheaths with Single or Multiple Access Sites per Limb.

N/A Natale (PI) 3/24/2017
Catheter Ablation of Arrhythmias to Improve CRT Response: The ABLATE-CRT Study.

IDE# N/A Natale (PI) 2/19/2016
The AEIOU Trial: Apixaban Evaluation of Interrupted or Uninterrupted Anticoagulation for Ablation of Atrial Fibrillation

NCT02637947 Natale (PI) 1/2016 – 2/15/2022
A Prospective, Multi-center, Post Market Randomized Controlled Trial Comparing VT Ablation Outcomes Using Remote MAGNETIC Navigation Guided Substrate Mapping and Ablation Versus Manual Approach in a Low LVEF Population.

NCT02817776 Natale (Co-PI) 6/1/16 – 6/5/2019
Prospective Review of the Safety and Effectiveness of the THERMOCOOL SMARTTOUCH® SF (STSF) Catheter Evaluated for Treating Symptomatic PersistenT AF (PRECEPT)

N/A Natale (PI) 11/3/2015
Bristol Meyers Squibb CV204006. Study title: A Study of the Effects of BMS-919373 on Atrial Effective Refractory Period in Subjects with a Dual Chamber Pacemaker

N/A Natale (PI) 8/17/2015
Bristol Meyers Squibb CV205005. Study title: A Randomized, Double-Blind, Placebo-Controlled Parallel Arm Study to Evaluate the Safety, Tolerability, and Effect on Atrial Fibrillation Burden of BMS-919373 in Patients with Paroxysmal Atrial Fibrillation

Natale (PI) 6/29/2015
Bipolar Catheter Ablation for the Treatment of Refractory Scar–Related Ventricular Arrhythmia $5,500

N/A Natale (PI) 6/9/2015
EASYER (EpiAccess SYstEm Registry) A Post Market Observational Registry

N/A Natale (PI) 6/5/2015
Anticoagulation Using the Direct Factor Xa Inhibitor Apixaban during Atrial Fibrillation Catheter Ablation: Comparison to Vitamin K Antagonist Therapy (AXAFA)

Natale (PI) 4/17/2015
"EASYER" Registry (EpiAccess SYstEm Registry Study) EpiEP $1,500

Natale (PI) 1/19/2015
Multi–Center, Placebo–Controlled, Dose–Ranging Phase 2 Electrophysiological Study of Intranasal Administration of MSP–2017 for the Conversion of Induced Paroxysmal Supraventricular Tachycardia to Sinus Rhythm–MILESTONE – $19,926.

Natale (PI) 1/10/2015
Prospective Safety Assessment of the THERMOCOOL®SMARTTOUCH® SF Family of Contact Force Sensing Catheters for the Radiofrequency Ablation Treatment of Drug Refractory Symptomatic PAF (SMART–SF)–1/10/15 Biosense Webster – $64,400.

Natale (PI) 12/29/2014
Anticoagulation using the direct factor Xa inhibitor apixaban during Atrial Fibrillation catheter Ablation: Comparison to vitamin K antagonist therapy–AXAFA, Bristol–Myers Squibb / Pfizer $6,200.

Natale (PI) 9/10/2014
Accurate Detection of Changes In Hemodynamic Markers Using Admittance Method–RECHARGE

Natale (PI) 5/21/2014
Is Endothelial Function a predictor of Successful Ablation Therapy Provided to patients with Atrial Fibrillation?–EndoPAT, Itamar–Medical – $12,300.

Natale (PI) 7/16/2014
Substrate Targeted Ablation using the Cool Flex™ Irrigated Catheter Ablation System for the Reduction of Ventricular Tachycardia (STAR–VT), St. Jude Medical – $4,250.

NCT02208102 Natale (PI) 7/1/2014 – 5/2016
The role of Cardiac Biomarkers in Prediction of Outcome in Atrial Fibrillation Patients Undergoing Catheter Ablation IMPACT II– St. David's Medical Center: $90,000.

NCT02533843 Natale (PI) 4/2014 – 7/2017
Outcome of different Ablation Strategies In long–Standing persistent atrial fibrillation (OASIS)

Natale (PI) 6/6/2014
Impact of life–Style modification On abLATion outcomE in atrial fibrillation (ISOLATE) –Lifestyle and AF, Partially funded by St. David's Medical Center: Cardiac Rehab charges waived.

Natale (PI) 4/30/2014
GENETIC–AF – A Genotype–Directed Comparative Effectiveness Trial of Bucindolol and Toprol–XL for Prevention of Symptomatic Atrial Fibrillation/Atrial Flutter in Patients with Heart Failure, ARCA Biopharma – $13,930.

Natale (PI) 4/9/2014
Evaluation of ACUITY™ X4 Quadripolar Coronary Venous Leads and RELIANCE™ 4–FRONT Defibrillation Leads – NAVIGATE X4

IDE# G140102 Natale (PI) 7/12/2014
Study Name: Biosense Precept

NCT01672346 Natale (PI) 5/2013 – 12/2020
Pulmonary Vein (PV) Reconnection after Pulmonary Vein Antrum Isolation (PVAI) at Different Power Settings and Adenosine Provocation

Natale (PI) 11/11/2013
INcrease Of VAgal TonE in chronic Heart Failure – INOVATE–HF

NCT01997736 Natale (PI) 11/2013
A Pilot Study Evaluating the Safety and Effectiveness of the Toray Satake Balloon Thermal Ablation System for the Treatment of Paroxysmal Atrial Fibrillation, Toray Industries – $74,375.

NCT01898221 Natale (PI) 09/2013
Vein of Marshall Ethanol Infusion for Persistent Atrial Fibrillation, NIH $34,725.

Natale (PI) 5/12/2013
Mild cognitive impairment (MCI) in patients with atrial fibrillation (AF), trajectories of the progression of MCI and factors associated with the progression – COGNITION. Partially funded by St. David's Medical Center: Brain MRI charges waived.

NCT01672346 Natale (PI) 05/13 – 12/2020
Pulmonary Vein (PV) Reconnection after Pulmonary Vein Antrum Isolation (PVAI) at Different Power Settings Adenosine Provocation.

NCT01013714 Natale (PI) 05/2013
Prophylactic Cervicothoracic Sympathectomy for Prevention of Ventricular Tachycardia (PREVENT VT Trial)

IDE#G120189 Natale (Co PI) 2/18/2013
Study Name: Biosense nMARQ

NCT01751607 Natale (Study Director) 12/2012 – 8/2014
Determining the Association of chromosomal variants with non–PV triggers and ablation–outcome in AF–DECAF. St. David's Medical Center: $10,000.

NCT01729871 Natale (PI) 11/2012
A Randomized, Open–label, Active–controlled Multi–center Study to Evaluate the Safety of Rivaroxaban and Vitamin K Antagonists in Subjects Undergoing Catheter Ablation for Atrial Fibrillation–VENTURE AF. Janssen Scientific Affairs – $50,065.

Natale (PI) 07/2012
Arrhythmogenic Substrate Evaluation and Ablation in Brugada Syndrome

NCT01660100 Natale (Co-PI) 7/2012-12/2016
Freedom from Atrial Arrhythmia in Atrial Fibrillation Patients after Permanent Pulmonary Vein Antrum Isolation with or Without Proven Left Atrial Posterior Wall Isolation

IDE# N/A Natale (PI) 6/25/2012
ERAF

IDE# N/A Natale (PI) 6/19/2012
Biosense Oat pilot

NCT01959425 Natale (PI) 06/2012
Safety of Oral Anticoagulation Therapy withdrawal after successful Cardiac Ablation in Patients with Atrial Fibrillation and Associated High Risk Factors for Embolic Events (OAT Pilot Study)

NCT01546168 Natale (PI) 06/2012
Deviating the Esophagus in Atrial Fibrillation Ablation DEVIATE–AF. Boston Scientific Corporation – $22,500.

Natale (PI) 06/2012
Immediate vs. Deferred Cardioversion Strategy for Early Recurrence of Atrial Fibrillation after Ablation (ERAF)

IDE# G110030 Natale (PI) 02/18/2011
SMARTTouch

NCT01456000 Natale (PI) 01/2012–01/2014
Pivotal Clinical Study of the CardioFocus Endoscopic Ablation System – Adaptive Contact (EAS–AC) (HeartLight) in Patients With Paroxysmal Atrial Fibrillation (PAF).

NCT01557842 Natale (PI) 06/2012–09/2017
Early Ablation Therapy for the Treatment of Ischemic Ventricular Tachycardia in Patients With Implantable Cardioverter Defibrillators (ASPIRE). Biosense Webster – $12,600.

NCT01439386 Natale (PI) 9/2011 – 7/2016
Impact of Different Ablation Approaches on Outcome in Coexistent Atrial Fibrillation and Flutter.

NCT01385202 Natale (PI) 06/2011–01/2014
THERMOCOOL SMARTTOUCH™ Catheter for the Treatment of Symptomatic Paroxysmal Atrial Fibrillation. Biosense Webster – $96,100.

NCT01215253 Natale (PI) 09/2011–10/2015
Ranolazine Implantable3 Cardioverter–Defibrillator Trial (RAID) University of Rochester – $86,400.

NCT01122173 IDE# G090274 Natale (PI) 03/05/2010–12/2013
Use of the Hansen Medical System in Patients With Atrial Fibrillation (ARTISAN AF).

NCT01206452 Natale (PI) 12/2010
Use of Oral Steroids before Circumferential Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation to Improve Outcomes

NCT01278953 IDE# G100230 Natele (PI) 7/2010
TactiCath® Contact Force Ablation Catheter Study for Atrial Fibrillation TOCCASTAR (Endosense)

NCT01148914 Natale (PI) 06/2010–04/2012
The Role of Cardiac Biomarkers in Prediction of Outcome in Atrial Fibrillation Patients Undergoing Catheter Ablation (IMPACT). Partially funded by St. David's Medical Center

NCT01391091 Natale (PI) 12/2010–12/2013
Effect of Catheter Ablation on Clinical Course of Migraine in AF Patients With or Without Previous History of Migraine (CONFIRM). Partially funded by St. David's Medical Center: Brain MRI charges waived.

NCT01006876 Natale (PI) 01/2010–07/2014
Role of Coumadin in Preventing Thromboembolism in Atrial Fibrillation (AF) Patients Undergoing Catheter Ablation (COMPARE)

NCT01056328 Natale (PI) 02/2010–03/2013
Irrigated Ablation System Evaluation for AF (IRASE–AF). St. Jude Medical – $104,200.

Natale (PI) 2010
CABANA –Catheter Ablation Versus Antiarrhythmic Drug Therapy for Atrial Fibrillation Trial.
Mayo Clinic $3,750.

Natale (PI) 2010
Incidence of Moderate to Severe Cephalgia following Catheter Ablation for Atrial Fibrillation.

IDE# P030031 Natale (Co PI) 9/15/2009
Biosense Navistar PAS

IDE# G090080 Natale (Co PI) 8/24/2009
CardioFocus 2009 Feasability

Date: 2009
Transoma – IMAGINE – Implantable Monitoring for AF ablation Generating Insight & New Evidence.
Role: Natale (PI)

Date: 2009
Impact of Pulmonary Vein Isolation on Exercise Capacity in Patients with Chronic Atrial Fibrillation Effect of PVI on Neurocognitive Function.
Role: Natale (PI)

Date: 2009
St. Jude – CONFIRM – Implantable Loop Recorder
Role: Natale (PI)

Date: 2008
Insertion of LV Pacing Leads utilizing Intracardiac Ultrasound & Velocity Vector Imaging.
Role: Natale (PI)

Date: 2008
First Line Rf Ablation versus Antiarrhythmic Drugs for AFib Treatment: A Multi–center Randomized Trial Ablation vs. Amiodarone for Treatment of AFib in Patients with CHF & an ICD/CRTD (AATAC–AF in HF).
Role: Natale PI

Saint Jude – "VT Ablation vs Amiodarone in ICD"
[Co–Principal Investigator: Andrea Natale] $2 million
2008 – present

IDE# G010325 Natale (Co-PI) 8/16/2007
CardioFocus Endoscopic Laser

Atrial Fibrillation Innovation Center, $25 million grant from the State of Ohio
2006 – 2008

American Heart Association Established Investigator Award 0440157N – "A Molecular Basis of Atrial Fibrillation" [Principal Investigator: Qing Wang] $500,000
2006 – 2008

Medtronic
[Co–Principal Investigator: Andrea Natale] $1.5 million
– present

American Society of Echocardiography Outcomes Research Grant – "The Role of Transesophageal Echocardiography in Pulmonary Vein Ablation: Comparison with Computed Tomography: The ROTEA Study" [Principal Investigator: Gardar Sigurdsson] $75,000
2006 – 2007

Biosense/Webster – RAAFTS 2
[Principal Investigator: Andrea Natale] $4 million
2006 – present

Board of the George F. and Ann Harris Bellows Foundation Grant in the amount of $75,000.

PATENTS:

- NO. EP 1 356 780 for Ablation Device, June 14, 2006

Invited Lectures:

- Invited Faculty: Cardiology Rhythm Interventions Podcast episode "PFA Mapping: Essential or Overrated?" Virtual. August 12, 2024.

- Invited Chairman: Academy of Medical Education's Webinar – "Catheter Ablation at Crossroads: Treading the Known versus the New Path!". Virtual. August 6, 2024.

- Invited Faculty: University of Tennessee Grand Rounds. “Current Updates on Pulsed Field Ablation” Virtual. July 29, 2024.

- Invited Chairman: Academy of Medical Education’s Webinar –“Oral Anticoagulation for Stroke Prophylaxis in Atrial Fibrillation”. Virtual. June 27, 2024.

- Invited Faculty: Rome Prix Galien International. Panelist – Session Advances in Cardiology: A New Paradigm is coming. Lecture: “New Perspective in Electrophysiology (Including PFA)”. Rome, Italy. June 19-21, 2024

- Invited Faculty: Scripps General Cardiology Fellow Lecture. Lecture: “Atrial Fibrillation Diagnosis and Management” Virtual. June 13, 2024.

- Invited Faculty: CONGRESSO: "IL CUORE: UN MARE DI ONDE DIFFICILI DA CAVALCARE 2024”. Virtual. June 7, 2024.

- Invited Faculty: Arrhythmias and Heart Failure: New Insights and Technological Advances Congress. Lectures: 1) “Twenty-Five Years of Catheter Ablation of Ventricular Tachycardia: a Look Back and a Look Forward”; 2) “PFA for VT Ablation”; Moderator Session - AF Ablation Randomized Clinical Trials in Practice PART I. Chairman - Volta Industry Symposium. Marseille, France May 29 – June 1, 2024

- Invited Faculty: Heart Rhythm Society (HRS). 1) Panelist HRS Session – Business of EP Session I – Healthcare Landscape, Payment and Revenue in Cardiac EP. 2) Panelist – Case-based Session: Recorded Case: “Challenges in the Atrium and Appendage: Leading to Solutions Through an Interactive Recorded Case-Based Approach”; 3) Roundtable - Heart Rhythm 2024 “Fellows-In-Training Meet-the-Mentors Roundtable Key EP Opinion Leader Invitation. Discussion Topic: “Ablations, devices or lead extractions, which one is the best EP track for me?” 4) Panelist Session - AF Ablation Indications, Strategies and Controversies in Clinical Practice: Learn from the Experts. Program Director Symposium: EP Cases for the Real World 2024. Boston, MA. May 15-19, 2024.

- Program Director: EP LIVE Austin. Friday Session: Lecture and Live Cases “PFA (FARAPULSE/CARTO)”. Lecture: “Recorded Case: Volt Ablation”; Saturday Session: Lecture and Live Cases. “WATCHMAN PRO Nuvision ICE.” Austin, Texas. April 18-19, 2024.

- Invited Faculty: European Heart Rhythm Association (EHRA) Lecture: Live-in-the-box: “Non-PV Trigger Mapping”. Chairman – Session: Atrial Fibrillation: Ablation 2. Berlin, GE. April 6-7, 2024.

- Invited Faculty: Abbott’s Best Practice Workshop. “Ensite^{TM} Software Version 3.0.2 and PFA Visualization”. Virtual. April 2, 2024.

- Invited Faculty: Abbott MAPPING Complex Arrhythmias. Dr. Natale 1) Faculty Moderator Session 1 – Live Case: Workflow Techniques for Efficiency in AF Ablation; 2) Session II Hands-On Breakouts: “Mentice simulation and Heartroid Models for EnSite Simulation.”; 3) Lecture: “My Approach to Persistent AF”; 4) Debate: “Vein of Marshall Mapping” (Con). Orlando, FL. March 15-16, 2024.

- Invited Faculty: BWI Prague AF 22nd Symposium. 1) ‘Meet the Expert’ session – “each Expert will interact w/a maximum of 20 delegates. Participants who selected their preferred Expert

during the registration phase, can pose any questions related to AF treatment without a pre-assigned agenda." 2) Dr. Natale, "one of five world-renowned experts in the field of electrophysiology invited to offer their insights on the unresolved and highly contentious "grey areas" within the management of AF on topics chosen by the audience during the registration phase". Prague, Czech. March 5-6, 2024.

- Invited Faculty: Int'l Symposium on Left Atrial Appendage (ISLAA). 1) Debate: "Endocardial LAA Isolation with RFA Followed by an Occluder Placement is a Better Strategy for Persistent Patients?"; 2) Lecture: "Closing PDLs and Long-Term Outcomes"; 3) Dr. Natale Moderator Keynote Lecture; 4) Lecture: "Device Compression Rate to Minimize Leaks"; New York. March 1-2, 2024.

- Invited Faculty: Western Atrial Fibrillation Symposium (WAFIB). 1) Lecture: "Pulsed Field Ablation beyond the Pulmonary Veins: impact on AF Ablation Outcomes"; 2) Dr Natale – Discussant: Session 8 – Roundtable and Live Case Review: Recent Advances in Stroke Prevention". Volta Innovation Theater Breakfast during WAFIB – Dr. Natale Moderator and Lecture – Session: Volta AI Based Dispersion EGM Guided Strategies for the Complex Substrate Patient Population Lecture: "Introduction to Volta and Clinical Evidence Roadmap". Dr. Natale discussant - Innovation Theater Lunch: QDOT MICRO™ Catheter Early Experience & Best Practice Sharing with Key Opinion Leaders. Park City, Utah. February 23-24, 2024.

- Invited Faculty: Penn Presbyterian Medical Center Grand Rounds. Lecture: "Left Atrial Appendage Closure vs. Anticoagulation". Virtual. February 21, 2024.

- Invited Faculty: Haemonetics Houston Program. Fellows Baylor College of Medicine lecture title "VASCADE MVP". Houston, TX. February 19, 2024.

- Invited Faculty: 28th Annual Int'l AF Symposium. Dr. Natale 1) Panelist – "Case Transmissions"; Session I. 2) Moderator – Session: Improving Tecnologies and Workflows for Efficiency and Outcomes. Speaker: 3) Late Breaking Clinical Science Session – Lecture "Acute Kidney Injury Resulting from Hemoglobinuria following Pulsed-Field Ablation in Atrial Fibrillation: Is it Preventable?" 4) Panelist – "Case Transmissions"; Session 4; 5) Lecture: "Role of Posterior Wall Isolation in AF Ablation – Impact of Pulsed Field Ablation"; 6) Lecture: "First in Human Experience with Novel Pulsed Field Ablation Technologies"; 7) Lecture: "Practical Considerations for Optimizing the Efficacy of AF Ablation in the Era of Pulsed Field Ablation". Boston, MA. January 30 – Feb. 4, 2023.

- Invited Faculty: TCA Comprehensive Arrhythmia Management Symposium. Session: The Paradigm Shift & The Niche. Lecture: "Paradigm Shift in AFib Management". Dallas, Texas. Jan. 27, 2024.

- Invited Faculty: The 18th Shanghai Int'l Summit on Atrial Fibrillation. Lectures: 1) "New Technology of PsAF"; 2) "AF and Heart Failure". Shanghai, China. Dec. 13-17, 2023.

- Invited Faculty: BSCI 4th edition of NewHorizons in AF (NHAF). Lecture: "MANIFEST-PF Registry and the ADVENT Randomized Clinical Trial: PFA vs. Standard of Care Ablation". Milan, IT. Nov. 14-15, 2023.

- Invited Faculty: American Heart Association's Annual Scientific Sessions 2023. Lecture: "Learning While Burning: Advances and Outcomes of AF Ablation in 2023". Philadelphia, PA. Nov. 12, 2023.

- Invited Planning Committee, Faculty: ACC Middle East & Eastern Mediterranean 2023. Dr. Natale Chairman Session: Campfire Discussions: Challenging Clinical Cases in Electrophysiology; Co-Chair Session: Electrophysiology – Devices in Arrhythmia Management; Co-Chair Session: Electrophysiology – Arrhythmias in COVID Infection. Lectures: 1) "The Importance of Early Intervention and Rhythm Control"; 2) "NOAH-AFNET 6"; "Atrial Fibrillation Case". Athens, Greece. Nov. 3-6, 2023.

- Invited Faculty: 15th Annual Conf. of Indian Heart Rhythm Society HRSCON. Lecture: "AF in Grown-up congenital heart (GUCH) disease: Is it Mandate a Different Approach then Adult". Virtual. Oct. 27, 2023.

- Invited Faculty: BSCI Education Program Lecture: "A New Era of AF Ablation Featuring the ADVENT Clinical Trial". Thousand Oaks, CA. Oct. 25, 2023.

- Invited Faculty: Latin American Heart Rhythm Society. Lectures: 1) "Is PVI Enough for all the Early AF Patients Undergoing Catheter Ablation?"; 2) "Ablation Strategies for Ischemic Cardiomyopathy"; BWI "QDot Case" Presentation, Roundtable setting. Mexico City, Mexico. Oct. 19-20, 2023.

- Invited Faculty: 18th Annual International VT Symposium. Lecture: "Endocardial and Epicardial Ablation in All Post MI VT Patients?" Philadelphia, PA. Oct. 12-13, 2023.

- Course Director: EP LIVE Milan. Live Cases and Recorded Cases: Ventricular Arrhythmias: Cases: 1) "VT ablation Ischemic" - Monzino/Austin team; 2) "VT ablation non-ischemic (endo/epi approach)" – Monzino/Austin team"; "RVOT-VT/PVC ablation" – Monzino/Austin/Montefiore teams; 3) "ICE/TEE and LAA occlusion (Amulet)" – Monzino/Austin team. Live and Recorded Cases – Atrial Arrhythmias: Cases: 1) "PFA For AF Ablation (PFA Technology)" – Monzino/Austin team; 2) "Novel designed device for PFA" – Austin/Montefiore team; 3) "How to approach persistent AF with PFA" – Monzino & Austin & Montefiore teams; 4) "How to approach persistent AF with VOLTA system" – Monzino/Austin team. Milan, IT. Oct. 5-6, 2023.

- Invited Speaker: Cleveland Clinic Fifth Annual Global EP Summit. Lecture: "Future of AF Ablation: PFA and Beyond" and Discussion w/Q&A. Cleveland, OH. Sep. 30, 2023.

- Invited Speaker: La Cardio 50 Años. Lectures: 1) "When and How to Pursue Percutaneous Scar Ablation in Arrhythmogenic Mitral Valve Prolapse?"; 2) "Percutaneous Ablation: My Treatment of Choice for Selected Patients with Atrial Fibrillation". Bogota, COL. Sep. 28, 2023.

- Invited Faculty: The 12th Annual London Ventricular Tachyarrhythmia Symposium 2023. Lecture: "Ablation of VF Substrate in the Absence of PVCs" and Panel Discussion. London, ENG. Sep. 22, 2023.

- Invited Speaker: The 19th National Congress of the Italian Society AIAC "PRESENTE E FUTURO DELLA PFA NEL TRATTAMENTO DELLE ARITMIE SIMPOSIO: Lecture: "Il futuro della PFA" and Discussione. Virtual. Sep. 22, 2023.

- Invited Faculty: Biotronik 2023 Capstone Program. Lecture: 1) "Advances in Technology and the Future of AF Ablation." Cases: 1) "LAA Closure Device – Indications, Clinical Data, Techology Designs – Advantages and Drawbacks"; 2) "New Technology to Approach to VT Ablation"; 3) "Challenging VT: Novel Technologies and Strategies". Debate: "Do the Benefits Outweigh the Risks for LAA Closure Devices?" Dr. Natale – CONS. Panel Discussions: 1) "Atrial Fibrillation

Management"; 2) "VT Ablation Technology"; 3) "VT Ablation Techniques". New York, NY. Sep. 16-17, 2023.

- Invited Faculty: Boston Scientific China Roadshow **-** Seminar at Shanghai Xinhua Hospital w/live stream lecture: "Latest Data of FLX and FLX PRO". Seminar w/Live Case at Jiangsu Provincial Hospital – lecture: "AF-Related Stroke & Anticoagulation"; Live case - Dr. Natale "on-site Guidance on FLX Procedure". Central Fuwai Hospital FLX LAAO Experience. Dr. Natale "Guidance on FLX LAAC Procedure". LAAO Symposium in Zhengzhou "NOAC vs. LAAO. FLX case discussion". Beijing Anzhen Hospital Seminar. Lecture: LAAO LAAC topic – "AF-Related Stroke & Anticoagulation". "PFA Lecture"; "FARAPULSE latest data". Beijing Fuwai Hospital lecture "AF-Related Stroke & Anticoagulation". Shanghai, Nanjing, Zhengzhou & Beijing, China. Sep. 3 – 6, 2023.

- Invited Faculty: Asia Pacific Heart Rhythm Society (APHRS) BSC Program during APHRS EP Lunch Symposium: <u>An Update on Single-Shot Technologies</u> Dr. Natale Chair & Co-Moderator. Abbott Program during APHRS Main Session title: MS01 - Atrial Fibrillation (Ablation) 1.2 Strategy (Non-Paroxysmal AF) lecture title "Redo AF Ablations: The Next Frontier". BSC Program during APHRS EP Lunch Symposium: <u>An Update on Single-Shot Technologies.</u> Chair & Co-Moderator. BSC Program during APHRS <u>Japan Night AF Total Mgmt. Symposium</u>. Dr. Natale - Special Commentator "Expert Commentator". . The moderator will ask you to share some thoughts after each presentation. The session includes both PFA and WATCHMAN. **APHRS** Role: Main Session title: MS01 - Atrial Fibrillation (Ablation) 1.7 Single Procedure Success DEBATE: "Marshall Vein Ablation as a Matter of Routine for all Persistent AF Ablation." *Dr. Natale – Antagonist.* Hong Kong, JP. Sep. 1 – 3, 2023.

- Invited Faculty: Kansas City Heart Rhythm Symposium 2023. Presenter Session III - EP Pioneer Award Celebration. Session VI – What is New with Pulse Field Ablation in 2023. Lecture - "Current Data on PFA for AF Therapy?"; Chairman of Session VII – Improving the Efficiency of Ablation. Section XII Managing Ventricular Arrhythmias. Lecture - "What is the Most Practical Approach to Performing VT Ablation?"; Chairman of Session XIII - Electrophysiology Practice Concepts. Kansas City, KS. August 19 – 20, 2023.

- Invited Faculty: Get in Rhythm. Stay in Rhythm. Atrial Fibrillation Patient Conference. Session: Catheter Ablation Innovations Lecture: "What Patients Need to Know About Pulsed Field Ablation" August 5, 2023

- Invited Faculty: AF Symposium Webinar - Session V**:** LAA Closure - Techniques, Technology, and Antithrombotic Management live 1-hour CME roundtable webinar. This roundtable discussion will focus on key topics and controversies during the two sessions on "Stroke Risk Management in Atrial Fibrillation" at the 2023 AF Symposium. Virtual. July 19, 2023.

- Invited Faculty: JHRS-IS/ICE Session title: <u>Modifications of Catheter Ablation Procedures in AF patients</u>. Lecture: "Alternate Ablation Strategy in Patients with Persistent AF". JHRS Seminar Chairman JHRS-IS/ICE Session title: <u>Nonpharmacological Treatment to Ventricular Tachyarrhythmias.</u> Sapporo, JP July 6-8, 2023

- Invited Faculty: Boston Sci co-sponsored luncheon session seminar @ JHRS. Session title: <u>AF Total Management: How to Utilize WATCHMAN FLX l</u>ecture title: "Comprehensive Management of AF in the US - Role of WATCHMAN Therapy in Optimizing Results". Boston Sci sponsored Seminar outside of JHRS Program <u>Meet the Expert at JHRS</u> lecture – "Current Management of AF in the US - Impact of WATCHMAN FLX in Daily Practice". Sapporo, JP July 6-8, 2023.

- Invited Faculty: EP Connect Webinar: HRS Scientific Sessions 2023 Highlights. Dr. Natale Panelist. Virtual. May 26. 2023.

- Invited Faculty: HCA Cardiovascular Training Grand Rounds. Atrial Fibrillation. Lecture: "Atrial fibrillation: A Snapshot". Virtual. May 25, 2023.

- Invited Faculty: Heart Rhythm Society (HRS) 2023: Session: What is the Best Ablation Strategy for Paroxysmal AF Patients With AF Recurrence and Isolated Pulmonary Veins. Dr. Natale lecture: "Left Atrial Appendage Isolation"; Session: Nightmares in EP Happen Everywhere Dr. Natale lecture: "Worst Nightmare in Ablation, North American perspective". Haemonetics Rhythm Theatre during HRS. Speaker - Session: Improving Workflow and Patient Satisfaction Post EP Procedure Using VASCADE MVP. New Orleans, LA. May 19-21, 2023.

- Invited Speaker: NUVISION breakfast event during HRS. Dr. Natale to share initial clinical experience
- with the NUVISION NAV & CARTO V7.4. New Orleans, LA. May 20, 2023.

- Invited Faculty: BWI HRS China Night. Dr. Natale lecture: "PFA – Safety and Efficacy" and discussion. New Orleans, LA. May 20, 2023.

- Course Director: EP Cases for the Real World 2023 CME Dinner Symposium during HRS 2023. Dr. Natale Welcome and Introduction; Case: Atrial Fibrillation Case#1 "Ablation of AF with AF Triggers"; Closing Remarks. New Orleans, LA. May 19, 2023.

- Program Chair/Moderator: Atricure Symposium during HRS, Optimal Strategies to Improve the Care of the Undiagnosed and Untreated Arrhythmia Patient Population. New Orleans, LA. May 19, 2023.

- Invited Faculty: Symposium on Stroke Prevention in Atrial Fibrillation (SPAF). Session III – Post-LAAC Management: The Challenges. Debate Proposition: Dr. Natale Pro - "Peri-Device Leaks Should be Closed". Session V – Reception w/Live LAAC Cases from Live Case Sites. Dr. Natale – Panelist. New Orleans, LA. May 18, 2023.

- Invited Faculty/Course Director: Biosense Webster (BWI) Fellows Program Austin. Welcome and Introductions; Morning Case Observation; Afternoon Case Observation; Lecture: "My Approach to AF Ablation". Austin, TX. May 5-6, 2023.

- Invited Faculty: European Heart Rhythm A (EHRA) – 1) Session: 20 Years of Pioneering in EP Dr. Natale Lecture: "Atrial Fibrillation Ablation: Past, Present, and Future"; 2) Dr. Natale Speaker - Haemonetics Roundtable; 3) Dr. Natale Hosting Implicitly dinner; 4) Dr. Natale Discussant - Topic: Imaging Guidance for Transeptal & Left Appendage Occlusion 1 hr. workshop on practical training through simulation; 5) Dr. Natale Discussant - EHRA Session: Live-in-the-Box: Old and New Ablation Energy Sources; 6) Dr. Natale Session: Live-in-the-Box: Atrial Tachycardia after AF Ablation. Lecture: "My Approach". 7) Dr. Natale Discussant Topic: Imaging Guidance for Transeptal & left Appendage Occlusion 1 hr. workshop on practical training through simulation. 8) Session: My Worst Nightmare in EP Procedures - Dr. Natale Discussant: "Disaster Management". Barcelona, Spain. April 15-17, 2023.

- Invited Faculty: International Symposium for Left Atrial Appendage, ISLAA. Dr. Natale Discussant: 1) Session 3 – Innovations, Tools and Techniques; 2) Session 9: Novel LAAO Technologies; Lectures: 1) Endocardial L'AA Isolation with RFA Followed by an Occluder

Placement is a Better Strategy for Persistent AF Patients. 2) "Half Dose NOAC's after LAAO – The TCAI Approach." 3) "Trigger Mapping for Persistent AF". 4) "Closing PDLs and Long-term Outcomes". Moderator – Session 14: My Most Challenging Cases. Overland Park, Kansas. March 31 – April 1, 2023.

- Invited Speaker: ICAS Indian Complex Arrhythmia Summit. Lecture: "Trigger Mapping for Persistent AF". Virtual. March 31, 2023.

- Invited Faculty: HRS COMPASS Webinar "Early Rhythm Control: The New Paradigm in Atrial Fibrillation". Virtual Webinar. March 23, 2023.

- Invited Faculty: Prague Rhythm 2023. Lecture: "Endocardial Scar-homogenization with or without Epicardial Ablation in VT Patients with Ischemic Cardiomyopathy." Live case from Austin, TX. Virtual. March 19-21, 2023.

- Invited Faculty: Biosense Webster PFA Research Session. Dr. Natale Welcome, Discussion Moderator: "Research Advancements on Safety." Madrid, Spain. March 9, 2023.

- Invited Speaker: American College of Cardiology, ACC 2023. Lecture: "Can LAAC Be Considered a True Alternative to OAC?" Panelist: Session - LAAO: Cardioversion, Anticoagulation, Leaks, Clots, and other Tribulations. New Orleans. March 4-5, 2023.

- Invited Faculty: HRS COMPASS AF Webinar. Episode 1: "Different Facets of Atrial Fibrillation Management". Virtual Webinar. March 1, 2023.

- Invited Speaker: The 16th Annual Western Atrial Fibrillation Symposium. Lecture: "How is My AF Ablation Procedure Different in Year 2023 Compared to 20 Years Ago. Park City, Utah. February 24-25, 2023.

- Invited Speaker: AHA Int'l Stroke Conference. Debate: Session 127, Controversies in Secondary Stroke Prevention in Patients with Atrial Fibrillation. Dr. Natale (PRO) "Atrial Fibrillation Ablation Should be used to Prevent Stroke". Dallas, Texas. February 9, 2023.

- Invited Speaker: The 28th Annual Int'l Atrial Fibrillation Symposium. Panelist: Real-Time and Pre-Recorded Case Transmissions – Session 1; Lecture: 1) "Half Dose DOAC and Aspirin for Patients with LAA Closure Devices"; 2) "Clinical Value and Safety of Early Ambulation and Same Day Discharge in AF Ablation using VASCADE MVP (Haemonetics)"; 3) "Clinical Outcomes with Focal Pulsed Field Ablation Systems"; Debate: PVI is Sufficient for Catheter Ablation of Persistent AF: Implications of CAPLA vs. ERASE AF; Panelist: Real-Time and Pre-Recorded Case Transmissions – Session III; Boston, MA. February 2-4, 2023.

- Invited Speaker: EP Mapping, Abbott. Co-moderator of Session: Lab Efficiency through Live Case
- Observation: PVI; Lecture: "Non-PV Triggers & Substrate – How Should we Approach AF beyond
- PVI?"; Breakout Sessions. Orlando, FL. January 6-7, 2023.

- Invited Speaker: Shanghai Hospital Chest AFib Forum. Opening Ceremony and Lecture: "Experience with Different PFA Devices". Virtual. December 15-16, 2022.

- Meeting Director/Moderator: EP LIVE Finishing School. Virtual. December 10, 2022.

- Heart Rhythm Society – The Beat Episode 3: Pulsed Field Ablation in Cardiac Electrophysiology - Shift in Technology? Lecture: "Types of PFA, Clinical experience, Nuances - Benefits and Pitfalls/Limitations." Webinar. December 8, 2022.

- Invited Speaker: Medtronic Ablation Treatments for Complex Arrhythmia Patients. Lecture: "Persistent AF: Beyond the Pulmonary Veins"; Breakout Session topic title: "Epicardial Ablation: When and How"? Chicago, IL. December 3-4, 2022.

- Invited Speaker: The Annual Signals Summit. Session IV: Emerging Technologies in Signal Recording and Mapping. Lecture: "A New Mapping Approach for Improved Scar Detection". (Description of a new technology (NeuTrace) and related clinical experience). Chicago, IL. December 2, 2022.

- Invited Speaker: Asia Pacific Heart Rhythm Society (APHRS). Symposium 1: Atrial Fibrillation 1 –
- Persistent AFib Ablation. Lecture: "The Changing Landscape of Persistent Atrial Fibrillation (AF)
- Management: Where are we now?" Chairman - Symposium 7: Atrial Fibrillation 2 – New Ablation
- Technologies. Symposium 23: Atrial Fibrillation 4 – Managing Undesired Outcomes. Lecture: "Mapping and Ablation of Atrial Flutter Post-Pulmonary Vein Isolation (PVI)." Singapore. November 18-20, 2022.

- Invited Speaker: BWI Lunch Symposium during APHRS. New Era in AFib Ablation Lecture: "Evolution of Treatment: RF to PFA: Facts So Far". Singapore. November 19, 2022.

- Invited Panelist/Q&A: EP Connect Broadcast Session XXXVIII: PROGRESSIVE-AF: Impact of "First-
- Line" Ablation vs AADs on AF Progression. Virtual. November 19, 2022.

- Invited Speaker: BWI China Day Event during APHRS. Part 2: BWI New Ablation Catheter Session. Lecture: "What we know about VARIPULSE e.g. Case Sharing, Workflow, Statistics Related Evidence, Next-gen Improvement"; Discussion / Panelist - Dr. Natale. Singapore. November 18, 2022.

- Invited Speaker: American Heart Association 2022. Session: Adjunct Interventional Strategies for AF Management Lecture: "When PVI is not enough: What is next?" Chicago, IL. November 5, 2022.

- Invited Speaker: Great Wall International Congress of Cardiology 2022. Mapping and Ablating Persistent and Longstanding Persistent AF: Lessons from the Past and Future Directions. Lecture: "My Approach to Mapping and Ablating Persistent and Longstanding Persistent AF". Virtual. October 29, 2022.

- Co-President/Chairman/Speaker/Moderator: Venice Arrhythmias 2022. Case: "AF Ablation" during Session: EP Live Session from Dell'Angelo Hosp., Venice- Mestre, IT; Commentator during lecture "Ablation of iatrogenic atypical atrial flutter" – Dr. Zhang. Chairman: Featured Symposium: Pulsed Field Ablation: From the theory to the practice: Ongoing Clinical Trials and Live in the Box. Lecture: 1) "Pulsed AF Trial". Chairman: Featured Symposia Innovative Technologies and Approaches for Atrial Fibrillation Ablation. Chairman: Symposium - Ongoing Clinical Trials in Cardiac Arrhythmias – How will They Impact Clinical Practice?" Lecture: 2) "Less VT". Venice, Italy. October 13 -15, 2022.

- Invited Speaker: Biotronik International Fellows Program during Venice Arrhythmias 2022.

Lecture: “Emerging & Innovative Approaches in AF Ablation”. Panelist: “Approaching Complex Ablations”. Venice, Italy. October 14, 2022.

- Invited Speaker: VT Symposium 2022. Dr. Natale Lecture: “Advances in Signal Processing to Improve Myocardial Scar Recognition”. Panel and Q&A. Panelist and Operator 2nd Case from TCAI during Session XXI – Live Cases #2 and Working Lunch. New York, NY. October 7-8, 2022.

- Invited Speaker/Moderator: Global EP Summit 2022. Dr. Natale Moderator: Session 1: Hot Topics on AF Ablation – Round Table Discussion. Lecture: “AF Ablation Journey”; Panel and Q&A. Cleveland, Ohio. September 23-24, 2022.

- Invited Speaker: Biotronik 2022 Capstone Program. Lecture title: “Target for AF Ablation: The Natale Experience”; Q&A; Dr. Natale - Case #1 during Session: Left Atrial Appendage Closure; Debate: Stroke Prevention Post-AF Ablation - Dr. Natale “Pro: LAAO”; Q&A; Case #1 during Session: VT Ablation in Ischemic Cardiomyopathy: When and How?; Q&A. New York, New York. September 17-18, 2022.

- Invited Speaker: 11th Annual London Ventricular Tachyarrhythmia Symposium. Lecture title: “Endocardial vs. Epi-Endocardial Approach to VT Ablation: Is Less No Longer More?” London, UK. September 16, 2022.

- Invited Speaker: The California Heart Rhythm Symposium. Lecture title: “Keynote II – Thirty Years of VT Ablation – Where Do We Go from Here?” CA. Los Angeles, CA. September 10, 2022.

- Invited Speaker: Kansas City Heart Rhythm Symposium 2022. Lectures: 1) “Current Data on PFA for AF Therapy” & Panel Discussion; 2) “Tackling Difficult Anatomic Substrates in VT/PVC Ablation – Etoh, Bipolar Ablation and More” & Panel Discussion. Kansas City, KS. August 20-21, 2022.

- Invited Speaker: 2022 Get In Rhythm. Stay in Rhythm. ® Atrial Fibrillation Patient Conf. Lecture: “How to Decide on a Catheter Ablation” & Panel Discussion. Dallas, Texas. August 5-7, 2022.

- Invited Speaker: 5th Shanghai Chest Hospital Int’l AFIB Rotor Ablation Forum. “Rotor Ablation in Atrial Fibrillation: Results from Randomized Trials and Large Consecutive Series.” Virtual. July 29, 2022

- Meeting Director/Faculty: EP LIVE Austin. Live Cases. Austin, Texas. June 2-3, 2022.

- Invited Faculty/Planning Committee: ISLAA Int’l Symposium on Left Atrial Appendage. Lecture: “3D and 4D ICE – Added Value or a Mere Scientific Exploration?”; “Data Behind PDL Closure Techniques”; Session 5 – Dr. Natale Panelist. Dr. Natale Live Cases, Los Robles. Session: My Most Challenging Cases w/Discussion – Dr. Natale Panelist. Los Angeles, CA March 18-19 2022.

- Grand Rounds Invitation: University of Tennessee Health Science Center, Division of Cardiovascular Diseases, Electrophysiology Fellowship Program. Lecture: “Interventional Therapies for Atrial Fibrillation”. Virtual. March 3, 2022.

- Invited Faculty: 15th Annual WESTERN A-FIB SYMPOSIUM. Lecture: “How Electroporation will Help Eliminate Subjectivity of AF Ablation”. Park City, Utah. February 25-26, 2022.

- Invited Faculty: Advanced EP Summit. Lecture: “VT Ablation”. Virtual. February 12, 2022.

- Invited Faculty: Virtual EP Connect. Session XVII: Live Broadcast. AF Symposium 2022 Highlights: What’s New in AF Diagnosis & Management, AF+CHF, AF Ablation Technology & LAA Closure? Panel Discussion and Q&A. January 28th, 2022. 11:00 – 1:00 p.m. CST.

- Invited Speaker/Moderator/Panelist: 27th Annual International AF Symposium. Panelist – AF Symposium – Session 1 – Real Time and Prerecorded Case Transmissions. Lectures: 1) “Impact of Left Atrial Appendage Isolation on Stroke Risk after AF Ablation”; 2) “First Experience with an A1-based System for Invasive AF Therapy (NeuTrace)”; 3) “Update on Pulsed-Field Ablation for Ablation for AF”; 4) “Impact of PFA on the Efficiency of AF Ablation – Are We on the Verge of 10-minute PVI Procedures?” 5) “Maximizing the Success Rate of AF Ablation”. Dr. Natale Moderator – AF Symposium - Session 3 – Real Time and Prerecorded Case Transmissions. New York, New York. January 13-15, 2022.

- Program Director/Speaker/Facilitator: Medtronic Advanced Ablation Course. Facilitator Section 2 – Atrial Fib. Flutter; Lectures: 1) “Persistent AF: Beyond the Pulmonary Veins”; 2) “Epicardial Ablation: When and How?” Phoenix, Arizona. December 11-12, 2021.

- Invited Speaker: Abbott MAP EP: Complex Atrial Arrhythmias. Lecture: EP SCIENCE: “Non-PV Triggers and Substrate – How Should We Approach AF Beyond PVI”. Orlando, Florida. December 10, 2021.

- Invited Speaker: 4th Scientific Session Latin American Heart Rhythm Society (LAHRS). Session: Percutaneous LAA Closure. Lecture: **“**LAA closure: Indications, Techniques and Outcomes”. Virtual, Pre-recorded. Mtg. online November 19-24, 2021.

- Invited Speaker: BioSig Technologies Live Roundtable Webinar. PURE EP 2.0 Study Results from Clinical Data to Clinical Applications. Dr. Natale Facilitator and Panelist. Virtual. November 18, 2021.

- Invited Speaker: American Heart Association AHA 2021. Session: Atrial Fibrillation in 2021: Prepare for New Directions. Dr. Natale Lecture: “Lifestyle and Risk Factor Modification for AF: Mainstream or Pie in the Sky?” Virtual. November 13, 2021.

- Invited Speaker: 14th APHRS Scientific Sessions 2021. 1) Session - Left Atrial Appendage Closure in Atrial Fibrillation Lecture: “Transcatheter leak occlusion following left atrial appendage closure: when and how?” 2) Moderator of Session - Ventricular Arrhythmias 7 - Challenge VT Ablation-1 Unmappable and Inaccessible. 3) Session: Ventricular Arrhythmias 8 - Challenge VT Ablation-2 Management of VT Storm Lecture: “Role of catheter ablation in VT storm”. Virtual. November 11-13, 2021.

- Invited Speaker: 10th Argentine Congress of Arrhythmias. Debate. Session: Controversy on Energy Source Selection for AF Ablation. Dr. Natale debate - "I Will Move to Pulse Field Ablation all My Cases". Virtual. November 12, 2021.

- Invited Speaker: Moscow Int’l VT Summit. 1) Moderator/Chair: Session - Mapping and Ablation; 2) Lecture: “Radiation Therapy for Refractory VT”; 3) Debate: Topic: Substrate homogenization or electrical imaging of the diastolic pathway of VT. Dr. Natale – “Pro Homogenization”. Moscow, Russia. October 29th, 2021.

- Invited Faculty: 16th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy.
- Lecture: "Use of ECG-based Neural Networks for Risk Prediction"; Live Panel Discussion w/Q&A. Virtual. October 15, 2021.

- Invited Faculty: Latin America Advanced Ablation Summit (LATAM). Session: Advances in AF Ablation. Lecture: "Esophageal Injury in Ablation of Atrial Fibrillation Using a High-Power Short-Duration: Characterization, Data and Protection". Virtual. October 7, 2021

- Invited Faculty: EP Live Milan. Session: Live and Recorded Cases – Atrial Arrhythmias. 1) Live Case 2: "How to Approach Persistent AF with HPSD RF"; 2) Recorded/Broadcast Case 3: "Why I Prefer RF for Persistent AF Ablation". Milan, Italy. September 30 – October 2, 2021.

- Invited Faculty: Biotronik 2021 Capstone Program. Dr. Natale 1) Lecture: "New Technologies in AF Ablation". 2) Cases: Dr. Natale has 4 cases during symposium. NY, NY. September 25-26, 2021

- Invited Faculty: Global EP CCF. Lecture: "Ablation of AF: Guidance by Mapping or Anatomy?" 2) Panel discussion Q&A. Virtual. September 24, 2021

- Invited Faculty: Boston Scientific Watchman Strategic Advisory Board. Session: Future LAAC Patient Populations Dr. Natale Lecture: "Moderate to low stroke risk patients: Additional post implant drug regimens for patients seeking an alternative to OAC - ½ Dose NOAC". Virtual. September 11, 2021

- Invited Faculty: Ancona Aritmie Dr. Natale – 1) Lettura magistrale: "Ruolo dell'ICE nelle procedure
- Raggi Zero"; 2) Sum-up e discussione. 3) Live Case: "Ablazione in paziente con FA persistente".
- 4) Lecture: "Stato dell'arte dell'ablazione della FA". Ancona, Italy. September 9-12, 2021.

- Invited Faculty: Stroke Prevention AF Part II Agenda · Live Streaming Broadcast. Lecture: "Post-LAAC Antithrombotic: A Novel Low-Dose NOAC Approach" Panel Discussion with Q&A. Virtual. August 24, 2021.

- Invited Faculty: Kansas City Heart Rhythm Symposium 2021. Dr. Natale 1) Moderator - Session V - Innovations in AF Management; 2) Lecture: "What is the Best Mapping & Ablation Approach for Long Standing Persistent AF? Cooking the Atrium in 3 Different Ways". 3) Panelist. 4) Lecture: "Catheter Tip Modification and Impact on Procedural Outcomes – QDOT and Flexibility"; 5) Panelist. Virtual. August 21, 2021.

- Invited Faculty: Virtual EP Connect. Session VIII: Pulsed Field *vs* Thermal (RF or Cryo) Ablation: Insights from Cardiac Imaging. Dr. Natale – Live Panel Discussion and Q&A Session. Virtual. August 20, 2021.

- Invited Faculty: Get in Rhythm Stay in Rhythm. Dr. Natale – Live Panel Discussion: "How to Choose the Right Procedure?". Virtual. August 8, 2021.

- Invited Faculty: Acutus National Meeting. Dr. Natale guest speaker "Lunch with an EP Expert Segment" 1) Lecture: "The Natale Approach to paroxysmal and persistent AF and AF triggers outside of the pulmonary veins." Austin, Texas. August 7, 2021.

- Invited Faculty: 2021 Heart Rhythm Society Scientific Sessions. 1) Session III Live LAAC Procedures; 2) HRS Abstract Presentation: "Cerebral microembolic signal burden during pulsed filed ablation: Preliminary results from robotically assisted transcranial Doppler". 3) HRS Lecture: "How much is too much before AV node ablation: Is a 6th redo AF ablation reasonable & safe?"; 4) Acutus Console Users meeting. Tips/Tricks/Theory – Round table discussion with current Acutus Console users. 5) EP Cases for the Real World - Dr. Natale - Welcome and Intro, Dr. Natale Chair Session: Atrial Fibrillation Cases, Presenter: Case 1: "Ablation of Atypical Flutter and AF Triggers"; Session: LAA Closure Case – Dr. Natale Presenter: Case 1: "LAA Closure"; Closing Remarks and Adjourn. 6) ZOLL HRS Fellows-In-Training Meet-the-Mentors Roundtable Life after Fellowship – Dr. Natale Key opinion leader. 7) Acutus Peer to Peer Roundtable - Lecture: "Developmental status of the St David's Enhanced Trigger Mapping Approach". 8) Dr. Natale Chair Session I: Current concepts in HF w/Preserved Ejection Fraction
- Dr. Natale – Introductory talk: "The Emerging Role of the Interventional EP in HFpEF".
- 9) BioSig Lecture: "Why are Signals Important for the Future of EP". 10) Acutus Rhythm Theater - Management of Persistent AF and the Role of Pulse Field Ablation": a peer-to-peer event consisting of presentations, panel discussions, and Q&A. Dr. Natale lecture: "Acutus and PFA"; Panelist for both Mapping and PFA. Boston, MA. July 28 – 31, 2021.

- Invited Faculty: AtriCure Cardiology Symposium: Long-Standing Persistent Atrial Fibrillation and Importance of Multidisciplinary Team. Panelist. Austin, TX. June 19, 2021

- Invited Faculty: BWI PsAF WW Webinar. Brief Review of PRECEPT Quality of Life Outcomes; Lecture: Presentation of Workflows/Decision Tree for PsAF; Discussion. June 17, 2021

- Program Director/Invited Faculty: Abbott Program "EP in 360: Atrial and Ventricular Arrhythmias". Welcome and Intro to AFib Case; Panel Discussion. Virtual June 12, 2021.

- Invited Faculty: Heart Rhythm Focus San Antonio. Lecture: "The Persistent Atrial Fibrillation: Is it ever too late to ablate"; Panelist. Virtual, June 12, 2021.

- Invited Faculty: LAA and Hybrid Therapies Webcast. Moderator, Panelist, Welcome and Introduction. June 5, 2021.

- Invited Faculty: Baylis Nat'l EP Fellows Virtual Event. Lecture: "Epicardial Access: Strategy, Tools, and Techniques". Virtual, May 23, 2021.

- Invited Faculty: Galaxy Med. Think Transseptal Virtual Mtg. May 22, 2021.

- Invited Faculty: Congresso Regionale ANMCO. Lecture: "Nuove frontiere nell'ablazione della fibrillazione atriale". Virtual, May 15, 2021.

- Invited Faculty: ACC Biosense Webster China. High Efficiency Pulmonary Vein Isolation Using Radiofrequency Energy in Patients with Paroxysmal Atrial Fibrillation". US-China high efficency PAF consensus. Moderator and opening remarks. Webinar, May 15, 2021.

- Invited Faculty: 2nd Annual IASI Arrhythmia Forum 2021. Lecture: "What is New in Ablation of Persistent and Long-Standing Persistent AF". Virtual, April 2nd, 2021.

- Invited Faculty: L'Imaging Nelle Aritmie. Lecture: "New Imaging Technologies to Characterize Arrhythmic Substrate." Webinar, March 29, 2021.

- Invited Faculty: 14th Annual Western AF Symposium 2021. Lecture: "Choosing the Best AF Ablation Strategy for Each Patient: My Approach". Park City, Utah. February 26-27, 2021.

- Invited Faculty: 26th Annual Int'l AF Symposium 2021. Lectures: 1) "Management of Anticoagulation after AF Ablation"; 2) "Impact of Catheter Ablation on Quality of Life and Health Care Utilization."; 3) "Challenging Cases in AF Management"; LIVE CASE "Ablation of Persistent AF – PVI Plus Adjunctive Ablation"; "RFMx Spotlight Session" presentation during Session: Emerging Technologies (Spotlight) Sessions. Virtual, January 29 – 31, 2021.

- Invited Faculty: Progress 2020: Meeting on Pacing and Electrophysiology. Session Chair - AF Ablation Challenging Cases; Lecture – "AF Ablation 2020: State of the Art and Perspective". Virtual, December 5, 2020.

- Director/Faculty: EP LIVE 2020. Dr. Andrea Natale Meeting Director; Moderator Session - Atrial Fibrillation Cases; Live Case Presentations: 1) "Ablation of Long-Standing Persistent AF" (Live); 2) "Ablation Using ACUTUS Non-Contact Mapping – Persistent AF" (Live); 3) "WATCHMAN Leak Radiofrequency Ablation Closure" (Live); Faculty Panel Case – 1) "Hybrid Ablation of Inappropriate Sinus Tachycardia" (Recorded); 2) "Amulet Device Implant" (Recorded); 3) "Lambre Device" (Recorded). Virtual, December 3-4, 2020.

- Invited Faculty: Latin American HRS (LAHRS). Co-Chair Session – AF/AFL Ablation – How to Perform; Lecture – "Isolation of LAA and Coronary Sinus"; Panel Discussion. Live Webinar/Virtual. November 14, 2020.

- Invited Faculty: XXXVII Congresso Brasileiro De Arritmias Cardiacas SOBRAC 2020 - Abbott Symposium. Lecture – "High Density Mapping using HD Grid Technology for Complex Arrhythmias"; Discussion, Q&A Panel and Audience. Virtual. November 8, 2020.

- Invited Faculty: Get in Rhythm. Stay in Rhythm. Atrial Fibrillation Patient Conference. Dr. Natale Panel Discussion – "How to Choose the Right Procedures". Virtual. October 31, 2020.

- Invited Faculty: XIX National Congress of Cardiology. Session - Current Management of Complex Arrhythmias. Lecture – "High-Power, Short-Duration Ablation for the Treatment of AF". Virtual. October 31, 2020.

- Invited Faculty: Transcatheter Cardiovascular Therapeutics 2020. Session - TCT North America Connect II: Controversies in Left Atrial Appendage Closure. Lecture – "Epicardial LAA Closure (Lariat): Combining Rhythm Control & Stroke Prevention?"; Lecturer - LAA Debate – "Should LAA Closure be Widely Adopted? - Epicardial LAA Closure (Lariat): Combining Rhythm Control & Stroke Prevention?" Virtual. October 10 & October 14, 2020.

- Invited Faculty: VT Symposium 2020. Debate – "Inducing VT is a Waste of Time-Just Paint it Red! And Panel Discussion; Faculty Panel – Session III: Live Cases 1. Virtual. October 8, 2020.

- Program Director/Faculty: EP Cases for the Real World. Dr. Natale Moderator, Live Case presentation "LAA Leak Closure with Ablation" and panel discussions. Virtual. September 12, 2020.

- Invited Faculty: Cleveland Clinic 2nd Annual Global EP Summit. Lecture: "Point-by-Point vs. Continuous Ablation: Pros and Cons" and discussion. Virtual. September 11, 2020.

- Invited Faculty: Leadership Discussion Watchman FLX, HCA/Boston Scientific. Clinical and case based discussion. Lecture: "Champion AF". Virtual, August 26, 2020.

- Invited Faculty: 2nd Annual Catheter and Surgical Therapies for Atrial Fibrillation (CAST-AF) Summit.
- Plenary Lecture: "AF Catheter Ablation Technologies Beyond PFA and Cryoablation"; Enduring Presentation: "AF Ablation Technologies Beyond Electroporation and Ultra-Low Cryothermia"; Panel Discussion. Virtual, August 22, 2020.

- Invited Co-Director/Faculty: Kansas City Heart Rhythm Symposium. Moderator - Session III – Atrial Fibrillation & Heart Failure; Lecture: "What Ablation Strategy Makes the Most Sense for the Treatment of Non-Paroxysmal AF." Panel Discussion. Virtual, August 14, 2020.

- Invited Faculty: Advancements in LAA Closure: New Data/New Devices. Lecture: "What is th Best Post-LAAC Antithrombotic Strategy?" Pre-recorded live streaming lectures, Live Roundtable Panel Discussion w/Q&A Session. Virtual, August 11, 2020.

- Invited Faculty: Pittsburgh Heart Team Summit 2020. Presentation Topic: Initial AF Therapy – "Case 1: 45 yo with LA=5.2cm; paroxysmal AF for 5 years now becoming symptomatic; no previous therapy"; Live Q&A. Virtual, July 31, 2020.

- Invited Faculty: American College of Cardiology Meet the AF Expert. Lecture: "Indication and Techniques for LA Appendage Closure" Virtual, March 24, 2020.

- Invited Faculty: Expert Approach to Complex Electrophysiology Cases. Medtronic. Faculty Rotation throughout. Sessions 1: Arrhythmias 1; Session 2: Arrhythmias II; Session 3: Arrhythmias III; Session 4: Quiz on Difficult Intracardiacs, Part I; Session 5: Clinical Syndromes; Session 6: Quiz on Difficult Intracardiacs Part II. Chicago, IL. March 7 – 8, 2020.

- Invited Faculty: 2020 Western AFib Symposium. Debate: Role-Con "Do We Need a Sham Trail to Prove the Efficacy of AF Ablation?" Park City, UT. February 28 – 29, 2020.
- Invited Faculty: AHA Annual International Stroke Conference. Session. Brain and Heart – Found in
- Translation – From Bench to Clinical Trial in Stroke Prevention. Lecture: "Newly Emerging Issues and
- Management Strategies Pertaining to LAAO". Los Angeles, CA. February 20, 2020.
- Invited Faculty: 19th Atrial Fibrillation Symposium. Lecture: "Outcomes with Ultra-Fast, Very High-Power Ablation". Madrid, Spain. February 13-14, 2020.
- Invited Faculty: The 8th Annual International Symposium for Left Atrial Appendage (ISLAA). Debate: "Endocardial LAA Isolation with RFA Followed by an Occluder Placement is a Better Strategy for Persistent AF Patients? Epicardial LAA Exclusion and RFA is a Better Strategy for Persistent AF Patients?" Chairman: Session 5 - Live Case 4. Session 6: Lecture - "Dementia in AF – Impact of Ablation, LAAO and More"; Session 7 Presenter: WaveCrest Recorded Case; Session 9: Lecture – "Managing AF Patient with PFO Closure/ASD-Role of Ablation, LAAO and PFO Closure Devices." Discussant: Session 11 – "My Most Challenging Cases". New York, NY. February 6 – 9, 2020.
- Invited Faculty: 25th Annual AF Symposium. Spotlight Session Early Stage and Emerging
- New Technologies and Drugs in Cardiac EP: Lecture: "BioSig Technologies"; Session: Stroke Prevention
- in AF: Session II – Left Atrial Appendage Closure and Carotid Protection. Lecture: "Anticoagulation and

- Antiplatelet Therapy After LAA Closure: What, When & How Long?" Dr. Natale Panelist: Session: Real-
- Time Case Transmissions: New Directions in Imaging, Mapping and Ablation."; Dr. Natale Case: "High
- Power Temp Controlled RF Ablation for Non-PV Triggers". Session: Advances in Pulmonary Vein
- Isolation (Session 1) Energy Sources, Delivery Strategies and New Technologies for AF Ablation.
- Lecture: "High-Power Short Duration Ablation Using Currently Available RF Catheters". Dr. Natale
- Panelist Session: Advances in Pulmonary Vein Isolation (Session II) Cardiac Pulsed Field
- Ablation/Irreversible Electroporation". Session: Beyond PVI – Anatomical vs Electrophysiological
- Targets for AF Ablation (Session II). Lecture: "Left Atrial Appendage Isolation – Impact on Long-Term
- Arrhythmia Recurrence and Systemic Thromboembolism". Session: Outcomes Trials in Atrial Fibrillation
- Ablation Results, Implications for Clinical Practice and Future Studies. Lecture - "Recurrence of AF 10
- Years after Index PVI and Proven PV Isolation: Is This a New Disease?" Washington, DC.
- January 23– 25, 2020.
- Invited Faculty: AF Symposium Fellows Program 2020 Lecture: 1) Personal Tips and Tricks in Left
- Atrial Appendage Closure". Washington DC. January 22nd, 2020.
- Invited Speaker: Muscat Arrhythmia Symposium. Muscat – Sultanate of Oman. Lectures: 1) "AFib Ablation"; 2) "Valvular AF: The Forgotten Evil!"; 3) "When to send a patient for Atrial Fibrillation Ablation"; 4) "CASTLE-AF". Opening Ceremony: Dr. Natale Keynote Address: "Providing Education for the Profession". Muscat, Oman. January 17 – 18, 2020.

- Invited Speaker: Session Facilitator – Section 2: Atrial Fib/Flutter; Lectures: 1) "Paroxysmal AF: Beyond the Pulmonary Veins" 2) "Epicardial Ablation: When and How?". Phoenix, AZ, Dec. 13-15, 2019.
- Invited Speaker/Course Director: AF VT VF Summit. Chairman and Faculty – Session: AF Mapping and Ablation Case Presentations. 2) Faculty – Session: ECG's and Intracardiac Recordings in Complex Arrhythmias". Chicago, IL. December 6 – 7, 2019.
- Invited Faculty: American Heart Association (AHA)'s Annual Scientific Sessions. Philadelphia, PA. November 16 – 18, 2019.
- Invited Faculty: Europe AF 2019. London, United Kingdom. November 5 – 6, 2019.
- Invited Speaker: 16th World Congress of Arrhythmias. Buenos Aires, Argentina. November 2 – 4, 2019.
- Invited Faculty: CARDIO 2019 Conference – The Moscow International Summit on Treatment of Ventricular Rhythm Disorders Sudden Cardiac Death, and Heart Failure. Moscow, Russia. October 30 – 31, 2019.
- Invited Faculty: Asia Pacific Heart Rhythm Society (APHRS). Lectures: 1) "Is there a Role for Epicardial Mapping and Ablation of AF?" 2) "Role of non–PV triggers in persistent AF". Panelist: "Controversies in AF Ablation (TEE, ablation strategy, eso protection, anesthesia, OAC discont, AFL PVI, and etc.)". Bangkok, Thailand. October 24 – 27, 2019.
- Invited Speaker: VT Symposium 2019. Lecture: "Less VT Study – Goals and Enrollment". Philadelphia, PA. October 11 – 12, 2019.
- Co–President, Faculty, Chair: Venice Arrhythmias 2019. Venice, Italy. October 3 – 5, 2019.

- Invited Faculty: Global EP Summit. Lecture: 1) "Persistent AF Ablation: It's All About The Triggers". Cleveland, OH. September 27 – 28, 2019.
- Invited Speaker: Latin American Heart Rhythm Society (LAHRS) 2nd Scientific Sessions. Guadalajara, Mexico. September 26 – 27, 2019.
- Invited Speaker: Colorado Arrhythmia Symposium. Lectures: 1) "Importance of Non–PV Triggers for Ablation of Atrial Fibrillation" 2) "RF Alternatives for AF Ablation (Lattice, RF electrode balloon, etc.)". Panelist: 1) "Case Presentations from the Front Lines: Ablation of Persistent Atrial Fibrillation"; 2) "Challenging Device and Ablation Cases". Boulder, CO. September 13 – 15, 2019.
- Invited Faculty: Advanced Catheter Ablation: New Tips, Techniques and Technologies for Complex Arrhythmias. Lectures: 1) "Scar homogenization for VTs: Who and How"; 2) "Identifying and Ablating Non PV Triggers: A Case Based Approach". Panelist: 1) "Interactive Case Based Discussions of Persistent AF: What is the Best Approach in 2019?"; 2) "Managing Anticoagulation in Patients Undergoing Ablation". 3) "Putting It All Together: Complex Atrial Arrhythmias – Post AF Ablation and Otherwise". Chicago, IL. September 7–10, 2019.
- Invited Faculty: EP Live. Live Cases: 1) Persistent AF; 2) Post–Maze AFL Ablation; 3) Ischemic VT Ablation. Recorded Cases: 1) Diamond Tip; 2) Cryoablation. Bengaluru, India. August 30 – 31, 2019.
- Invited Faculty: EP Fellows Hands–On Transseptal Workshop. Houston, TX. August 24, 2019.
- Invited Speaker: Kansas City Heart Rhythm Symposium (KCHRS). Keynote Lecture: "Pioneer in Cardiovascular Electrophysiology Award". Kansas City, MO. August 16 – 17, 2019.
- Invited Speaker: Inaugural Pittsburg Heart Team Summit Topic. Lecture: "The Importance of Posterior Wall Isolation". Pittsburgh, PA. August 15 – 16, 2019.
- Invited Speaker: Catheter and Surgical Therapies for Atrial Fibrillation (CAST–AF). Lecture: "Posterior Wall Ablation plus Triggers". Chicago, IL. August 16–17, 2019.
- Invited Speaker: Get in Rhythm, Stay in Rhythm, StopAfib Atrial Fibrillation Patient Conference. Lecture: "Evolution of Afib and How to Ablate It". Dallas, TX, August 9–11, 2019.
- Invited Faculty: Watchman Summit, Chicago, IL. August 8, 2019.
- Invited Speaker: Chinese Heart Rhythm Society's 19th Scientific Sessions of the Chinese Heart Rhythm Society (CHRS 2019). Lectures: 1) "Ablation Beyond the Pulmonary Veins in persistent AF"; 2) "Mapping During Ablation of Atrial Fibrillation"; 3) "Substrate Ablation in Patients with Ventricular Tachycardia and Scar". Beijing, China. June 20 – 23, 2019.
- Invited Faculty: EP Live. Live Case: AF Ablation. Panelist: "Live and Recorded VT Cases". Lectures: 1) "How to Approach Septal VT". Milan, Italy. June 17 – 19, 2019.
- Invited Faculty: BIOTRONIK iBIO–Capstone Lectures: 1) "Emerging Techniques and Technology for AF Ablation" 2) "Current State of LAAC for AF patients – Is LAAC a Better Alternative than Oral Anticoagulation Medication?". New York, NY. June 7–8, 2019.
- Invited Program Committee and Faculty: Heart Rhythm Society's 40th Annual Scientific Sessions. Lectures: 1) "Best Practices for Minimizing Risk of Atrio–Esophageal Fistula"; 2) "Where We Have Come from in Mapping AF"; 3) "Emerging New Catheter Ablation Technologies"; 4) "Localizing and Ablating Triggers in Persistent AF: Role and Impact on Outcomes"; 5) "Is There a Role for Epicardial Mapping and Ablation of AF?". San Francisco, CA. May 8 – 11, 2019.
- Invited Faculty: Stroke Prevention in Atrial Fibrillation: Advancements in Oral Anticoagulation Therapy and LAA Closure. CME Symposium at Heart Rhythm 2019. Lecture: "Catheter Ablation to Close Peri–Device Leaks: Technique & Early Observations". Panelist: "Closing a Peri–Device Leak with Coils – Live Case Presentation". San Francisco, CA. May 7, 2019.
- Invited Faculty/Director: ARCH, Advanced Revascularization. Lecture: "How to Perform Scar Homogenization for VT". Keynote Lecture: "Innovation in AF Ablation: Better Methods/Techniques for Successful Ablation". St. Louis, MO. April 9 – 13, 2019.
- Invited Faculty: Advanced Electrophysiology Conference. Lecture: "VT Ablation Update." Washington, DC. April 6, 2019.

- Invited Faculty: American College of Cardiology (ACC) Annual Scientific Sessions. Topic: "Afib Highlights" (Arrhythmias and Clinical EP Highlights Session). New Orleans, LA. March 16 –18, 2019.
- Course Director/Faculty: 7th International Left Atrial Appendage Symposium (ISLAA). Chair: Session VII. Lectures: 1) "In Non–Paroxysmal AF Patient LAA Endocardial Isolation with LAAO is a Better Strategy than LAA Epicardial Exclusion"; 2) "WaveCrest Device Recorded Case". Kansas City, MO. March 9–10, 2019.
- Invited Faculty: 12th Annual Western Atrial Fibrillation Symposium. Lecture: "The Non–PV Trigger: How to Find and Ablate". Park City, UT. February 22–23, 2019.
- Invited Faculty: Oklahoma Research and Education Foundation 18th Annual EP Symposium, Lectures: 1) "Ablation of Persistent AF: Becoming a Top Gun"; 2) "Rate vs Rhythm Post–CABANA: Living on a Prayer?" Tulsa, OK. February 8, 2019.
- Invited Faculty: 24th Annual International Symposium on Atrial Fibrillation. Lecture: "High Power Short Duration Ablation for AF: Unmet Needs and Potential Solutions". Boston, MA. January 24 – 26, 2019.
- Invited Faculty: 18th International Symposium on Progress in Clinical Pacing. Panelist: "Emerging Therapies in AF Ablation". Lectures: 1) "Paroxysmal AF: A Comparison of RF & Cryo Approaches"; 2) "Why the New Pulsed Field Ablation Could Be the Future Winner?"; 3) "How to Ablate Paroxysmal AF?" (Debate) 4) "Point–By–Point Ablation" 5) "Magistral Lecture". Rome, Italy. December 2–5, 2018.
- Program Director/Faculty: Ablation Treatments for Complex Arrhythmia Patients: An Advanced Course for EP Fellows. Transseptal Workshop. Session Facilitator: "Atrial Fibrillation/Flutter". Lectures: 1) "Paroxysmal AF: Beyond the Pulmonary Veins"; 2) "Epicardial Ablation: When and How?". Phoenix, AZ. December 7–9, 2018.
- Invited Faculty: AF/VT/VF Summit. Session Chair: AF Mapping and Ablation–Case Presentations; 2) Case Presentation; 3) Interactive discussion: "Normal and abnormal ECGs, Accessory pathways, complex AVNRTs, VT, AT/AFLs post AF ablation, and channelopathies". Chicago IL. December 1, 2018.
- Invited Faculty: American Heart Association. 1) Presentation: New Trials in Cardiovascular Care: "Venous Vascular Closure System (VVCS) vs. Manual Compression (MC) for EP Catheter Ablation: The AMBULATE Randomized Trial. Panel Participant – Session EA.CVS.1537 – New Technology and Approaches to Arrhythmias: Ablation. Chicago, IL. November 10 – 14, 2018.
- Invited Faculty: Abbott Arrhythmia Management Trends Symposium. Session title: High Density Mapping of Complex Arrhythmias – Map More Burn Less Strategies in Ablating Complex Arrhythmias. Lecture title: "Atrial Fibrillation". Cartagena, Colombia. November 28, 2018.
- Invited Faculty: First Scientific Sessions of the Latin American Heart Rhythm Society (LAHRS). Lectures: 1) "Isolation of LAA: Anatomy, Techniques and Results"; 2) "Esophageal Ulcerations and Fistula: Incidence, Prevention Measures and Treatment Options"; 3) "Homogenization and LAVA Approaches: Similarities, Differences and Results"; LAHRS Member of Honor Appointment. Cartagena, Colombia. November 27–30, 2018.
- Invited Faculty: Women & Heart Failure Summit, Boston Scientific Medical Education. Lecture: "Contemporary EP Considerations in Heart Failure". Austin, TX. October 27, 2018.
- Invited Faculty: Annual VT Symposium. 1) Live Cases with Working Lunch; 2) Lecture: "Stereotactic Body Radiation Therapy for Refractory VT: How–To Guide"; 2) Debate: CON "VT Non–inducibility is the Best Endpoint for Ablation of Post–MI VT"; 3) Moderator Session: Idiopathic VT and VF. New York, NY. October 11–14, 2018.
- Invited Faculty: Bari Life Rhythm 2018. Lecture: "Lettura Magistrale Terapia elettrica della fibrillazione atriale"; Discussione sulla Lettura Magistrale. Rome, Italy. September 20–22, 2018.
- Invited Faculty: Canadian Heart Rhythm Society (CHRS) 6th Annual Meeting: Complex Mapping and Innovation in Cardiac Arrhythmias. Lecture: "Management of Persistent Atrial Fibrillation: Elimination of Triggers". Ottawa, Canada. September 14–15, 2018.

- Invited Faculty: Mayo Clinic's Advanced Catheter Ablation Conference. 1) Lecture: "Identifying and Ablating Non PV Triggers: A Case Based Approach"; 2) Faculty Panel: Case Based Discussion: Interactive Cases w/Panel Members – "Persistent AF: What is the Best Approach in 2018"? 3) Faculty Panel: Managing Anticoagulation in Patients Undergoing Ablation. 4) Case #2: Title: "Putting It All Together: Case Presentations of AF and Related Arrhythmias". San Francisco, CA. September 14–17, 2018.
- Invited Faculty/Co–Director: Kansas City Heart Rhythm Society (KCHRS) Lecture: "AF Ablation and LAA Closure – Same Procedure or Sequential?" Debate: Dr. Natale – Protagonist "Routine Prophylactic AF Ablation Should be Performed While Ablating CTI Dependent AFL and Vice Versa". Kansas City, MO. August 18–19, 2018.
- Invited Faculty: 2018 Get in Rhythm, Stay in Rhythm Atrial Fibrillation Patient Conference. Lectures: 1) Evolution of Afib and How to Ablate It to include Evolution of afib, Ablation of complicated afib, including non–PV triggers, Role of left atrial appendage – shape/anatomy/velocity, to electrically isolate or not? What will the aMaze Trial tell us? 2) How to Choose the Right Procedures – Panel Discussion: Surgeons and Electrophysiologist – Case studies using patient–provided scenarios for doctors to assess/discuss. Dallas, TX. August 4, 2018.
- HCA CVSL Leadership Mtg. – Market Governance Operations Council, Market Governance (Physician only). Nashville, TN. June 21–22, 2018.
- BSCI Advisory Bd. Mtg. Watchman. Clinical Research, Product Development and Commercial Initiatives NY, NY. June 8 – 9, 2018.
- Grand Rounds Presentation: Cleveland Clinic Foundation Grand Rounds Cardiac Pacing & Electrophysiology. Lecture: "Persistent AF Ablation". Cleveland, OH. June 5 –6, 2018.
- Invited Faculty: iBIO 2018 Capstone Program. 1) Panel Member Session: Is Current Technology Sufficient in Improving CRT Response? (Quadripolar lead. Multipoint/Multipole Pacing. His bundling pacing, epicardial/transseptal LV Leads, others); 2) Panel Member Session: Biophysics of Available Ablation Tools – Tips and Tricks to Improve Lesion Depths; 3) Lecturer and Panel Member Session: How to Identify AF Patients Not Responding to PVI – Evidence from the Literature in Different Population Subsets (HF, mechanical valve, sleep apnea, diabetes and more); 4) Panel Member Session: Post AF Ablation Monitoring and OAC Management – How to Use Available Tools to Achieve Optimal Outcomes (remote monitoring, event recorder, ICM, DX technology, Apple watch, patches, etc. 5) Panel Member Session: LAAC vs. NOACs – Do We Really Know the Answer? 6) Case Study and Panel Member Session: VT Ablation in Ischemic/Non–ischemic Cardiomyopathy Patient Population – What Have We Learned in Recent Years? New York, NY. June 1–2, 2018.
- Invited Faculty: Asian Pacific Society of Cardiology Congress 2018 (APSC Congress 2018) 1) Debate Topic: (Antagonist) "Ablation of Rotors Should be Performed in Rhythm Control of Atrial Fibrillation".
- 2) Lecture topic: "Use of Traditional 3D Mapping System in Ablation of Atrial Tachyarrhythmias after Interventional Therapy."; 3) Keynote Speaker topic: "Multiple Ablation Strategies for Paroxysmal and Persistent AF with PV and non–PV Foci." Taipei, Taiwan. May 16 – 20, 2018.
- Invited Faculty: Heart Rhythm Society's 39th Annual Scientific Sessions. Lectures: 1) "Is Pulmonary Vein Isolation Sufficient for Ablating Persistent AF: What is not in the Stars?"; 2) "Catheter Ablation of AF Drivers"; 3) "Role of LAA in Arrhythmogenesis and LA Function Modulation"; 4) "Idiopathic VF"; 5) "Do I Need to Map?" Chairman Session: Meet the Trialists: The Latest in Atrial Fibrillation Ablation. HRS Fellows–In–Training Roundtable Key Opinion Leader – Dr. Natale's topic: "Ablations, Devices or Lead Extractions, which one is the best EP track for me?" HRS Meet–the–Experts Session – AF Ablation Consensus Unlocked. Dr. Natale Panelist. Boston, MA. May 8–13, 2018.
- Program Chair: Cardiva Course – Early Ambulation for AF Ablation Patients: Opportunities, Challenges and Economics. Lecture: "Ambulate Impact Study". Dinner Symposium at Heart Rhythm 2018, Boston MA. May 10, 2018.

- Course Director: EP Cases for the Real World CME Dinner Symposium at Heart Rhythm 2018.Chairman: Session–Atrial Fibrillation Cases. Commentary for Case#1: "Ablation of AF Triggers". Session–VT Ablation Cases. Presenter of Case#1: "Ablation of VT in Non–Ischemic Cardiomyopathy". Boston, MA. May 9, 2018.
- Invited Faculty: Stroke Prevention in Atrial Fibrillation: Advancements in Oral Anticoagulation Therapy and LAA Closure. CME Symposium at Heart Rhythm 2018. Lecture: "LAAC Device Potpourri (Wavecrest / Lambre): What Would the Ideal Device Look Like?" and Panel Discussion. Moderator, Session 6 – LAA Closure: Avoiding & Managing Complications. Boston, MA. May 8, 2018.
- Invited Faculty: Hoag Memorial Hosp. Presbyterian Advances in Arrhythmia Management Symposium. Keynote Lecture: "Update in Ablation Management of Atrial Fibrillation"; Panel Session: "You Ask, We Answer". Newport Beach, CA. April 12 – 13, 2018.
- Invited Faculty: EHRA 2018. Discussant: Expert Opinion Needed: Management of Sustained Ventricular Tachycardia in LVEF above 35% and Panel Discussion. Barcelona, Spain. March 15 – 18, 2018.
- Course Director: EP Live 2018. Moderator Sessions: Live and Recorded Cases (VT); Live and Recorded Cases (LAA Closure and Closure of Leak). Austin, TX. March 1 – 2, 2018.
- Invited Faculty: 11th Annual Western AF Symposium. Lecture: "Ablation of AF: 10 years of follow–up". Park City, UT. February 23–24, 2018.
- Course Director/Faculty: 6th Int'l Left Atrial Appendage Symposium (ISLAA). Lecture: "Impact on ANP, RAAS, Reservoir Function and All"; Session 5 Panelist; Chairman Session 9: Miscellaneous LAA Occlusion Devices. Presentation Recorded Case title: "Wave Crest Device"; Panel Discussion. Long Beach, CA. February 9–11, 2018.
- Invited Faculty: Non–Pulmonary Vein Targets in Ablation of Long Standing Persistent Atrial Fibrillation. Lecture: "Value of Adjunctive Ablation Strategies beyond Pulmonary Vein Isolation"; Panel Discussion. Prague, Czechoslovakia. February 6 – 9, 2018.
- Invited Faculty: Ali Massumi 19th Symposium on Cardiac Arrhythmia, Baylor College of Medicine/ Texas Heart Institute. Lecture: "Pathophysiology of AF: Aging, Inflammation and Fibrosis". Houston, TX. February 3, 2018.
- Grand Rounds: Baylor College of Medicine Cardiology Fellowship Programs, Cardiology Grand Rounds. Lecture: "Evolution of Ventricular Arrhythmia Management with Ablative Therapy". Houston, TX. February 2, 2018.

- Invited Faculty: 23rd Annual Int'l AF Symposium. Lecture: 1) "In What Types of AF Should LA Appendage Ablation Be Considered? Evidence and Patient Selection"; 2) "What to Do After Three Failed AF Ablations?"; Case Transmission: "Techniques for Left Atrial Appendage Electrical Isolation as Adjunctive Therapy to PV Isolation in Persistent AF"; Session Panel Member: Challenging Cases in AF Management II: Catheter Ablation and Left Atrial Appendage Closure." Orlando, FL. January 11–14, 2018.

- Clear Lake Regional Medical Center Grand Rounds. Lecture: "Management of Atrial Fibrillation: From Medical Management to Catheter Ablation." Houston, TX. January 4, 2018.

- Invited Faculty: Medanta Hospital, VT/VF Symposium. Chairman Session Int'l Roundtable on Surgical Approach to Bilateral Cardiac Sympathetic Denervation. Lecture: "Approach to Substrate Homogenization". Roundtable Discussion & Questions. New Delhi, India. December 15–18, 2017.

- Program Director/Faculty: Ablation Treatments for Complex Arrhythmia Patients: An Advanced Course for EP Fellows. Dr. Natale Facilitator of Session 2: Atrial Fibrillation/Flutter. Lecture: 1) "Paroxysmal AF: Beyond the Pulmonary Veins"; 2) "Epicardial Ablation: When and How?" New York, NY. December 9–10, 2017.

- Course Director/Faculty: AF VT VF Summit 2017. Co–Chair and Faculty Session: AF Mapping and Ablation–Interactive Case Discussion Case Presentations: ”Mapping, Persistent AF, Paroxysmal AF, Atypical Flutter Post AF Ablation”. Interactive Discussion: “Complex ECG’s and Intracardiac Recordings in Complex Arrhythmias.” Chicago, IL. December 1–3, 2017.

- Invited Faculty. Advances in Cardiac Electrophysiology. Lecture: 1) “Ablazione Delle Aritmie Ventricolari: La “Nuova” Sfida”; 2) “Le “Fibrillazioni Atriali”: Dalla Clinica Alla Cardiologia Interventistica”; Esperto: Luncheon Panel – The Ablation Theater: The Masters Unplugged; Moderatore Session: Aritmologia Interventistica Per Il Cardiologo Clinico Ed Aritmologia Clinica Per Il Cardiologo Interventista: The Venice Corner. Rome, Italy. November 22–24, 2017.

- Invited Faculty: UCLA Heart Rhythm Symposium. Lecture: “Current RF Ablation Strategies for AF”. Los Angeles, CA. November 17–18, 2017.

- Invited Faculty: American Heart Association 2018. Lecture: 1) Ablation of Persistent AF: Beyond the PVI”. Anaheim, CA. November 12–13, 2017.

- Invited Faculty: Biotronik Advanced Concepts in Electrophysiology. Lecture: “Personalized AF Ablation: Substrate, Rotational Sources, or Triggers? New York, NY. November 9–11, 2017.

- Co–President, Faculty, Chair: Venice Arrhythmia 2017. Lecture: 1) “Strategies, Techniques and Endpoints”’; Round Table: Practical Interactive Session – Editors–in–Chief in the Spotlight; Chairman: Session: Core Curriculum – Evidence Based Decision Making: Controversial Issues.; Debate: PRO–“Should LAA Isolation be Performed Routinely in Long Lasting Persistent AF Ablation?”. Venice, Italy. October 24 – 28, 2017.

- Invited Speaker: 12th Int’l Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy. Lecture: “Antiarrhythmic Drugs Should be Discontinued After Ablation”. Philadelphia, PA. October 13–14, 2017.

- Invited Faculty: Advanced Catheter Ablation: New Tips, Techniques and Technologies for Complex Arrhythmias. Lecture: 1) “Identifying and Ablating Non PV Triggers: A Case Based Approach”. Illustrative Cases: “How I Approach Persistent AF Ablation”. Case Based Discussion: “Interactive Cases with Panel Members – Persistent AF: What is the Best Approach in 2017?” Breakfast Panel: “Managing Anticoagulation in Patients Undergoing Ablation”. “Putting It All Together: Case Presentations of AF and Related Arrhythmias.” Boston, MA. September 23–26, 2017.

- Invited Faculty: APHRS/JHRS 2017. Keynote Lectures: 1) “Role of the LA appendage in ablation of AF”; 2) “Reduction in the radiation exposure in non–pharmacotherapy of cardiac arrhythmias”; 3) “Scar homogenization versus limited–substrate ablation in patients with ventricular tachycardia”. Lectures: 1) “RF ablation of paroxysmal atrial fibrillation with open–irrigated catheters: Results of the Zero AF Clinical Trial”; 2) “Heart failure diagnostic sensor measurements in patients from United States versus other countries”. Yokohama, Japan. September 14 – 17, 2017.

- Invited Speaker: Zurich LAA Symposium Lecture 1) “Should We Target More Than Just the PV’s When Ablating AF?”; 2) “Should Surgeons Ablate Also or Just LAA Closure When the Chest is Open? Zurich, Switzerland. September 1 – 3, 2017.

- Invited Faculty: Napa Valley Afib Symposium. Lecture: “Where is That Trigger Hiding? Value

of Ablating LAA". Napa Valley, CA. August 24–26, 2017.

- Invited Faculty/Planning Committee: Kansas City Heart Rhythm Society & Fellows Program. Lecture: 1) "So Many Options – Practical Pointers for Understanding how to Effectively Use a 3D Mapping System"; 2) "Prevention of Esophageal Injury During AF Ablation – Deviators, Temp Monitors and More". Workshop: "Device Interrogation and Clinical Problem Solving, Case Based Learning – SVT, VT and More, Career Plan Discussions – Jobs, Contracts, etc." Debate: "PVI and CTI is All You Need for Non–Paroxysmal AF Ablation". Chairperson: Session X. Kansas City, KS. August 10–13, 2017.

- Invited Faculty: 2017 Get in Rhythm, Stay in Rhythm Atrial Fibrillation Patient Conference. Lecture: "Ablation of Complicated Afib" lecture to include Ablation of persistent/complicated AF, Non–PV triggers, Impact of ablation on those with heart failure & other complications, what to expect before/during/after (including anticoagulation), panel discussion; Panel: Topic: "How to Choose the Right Procedures – Case studies using patient–provided scenarios for doctors to assess/discuss. Dallas, TX. August 4–5, 2017.

- Invited Faculty: LATAM EP Live 2017 Live Case: 1) "Persistent AFib PVAI, PW, CS, LAA Isolation"; 2) Live Case: "Amulet LAA Closure"; 3) Core Concepts for Mapping and Ablation of PVCs Part 1 – Live Case: "PVC 1 (Cusps)". New anatomic and ICE correlates in PVC mapping/ablation. Panelist – Work lunch and Talk Session Title: "How to build a successful EP program: advice that can be applied everywhere". (Interactive pre-recorded cases) Case 2: Andrea Natale (VF triggered by PVC: how to map and ablate). Moderator Session – Core Concepts for Mapping and Ablation of PVCs Part 2 –Latest Developments in PVC Mapping and Ablation. Bogota, Colombia. July 13–15, 2017.

- Invited Faculty: 18th Annual Scientific Sessions of the Chinese Heart Rhythm Society. Lectures: 1) "Ablation on Non–Paroxysmal AF"; 2) "Approach to Ablation of Non PV Triggers". Beijing, China. June 28 – July 2, 2017.

- Invited Faculty: EHRA, Europace, Cardiostim 2017. Chairman Session: Sinus Rhythm is Better than Atrial Fibrillation: The "Rate vs. Rhythm" Studies Revisited in the Era of Ablation; Lectures: 1)
- "Anticoagulant should NOT be prescribed for Atrial Fibrillation in Stage IV–V Kidney Disease"; 2) "Is There Any Role for Typical Isthmus Flutter Ablation Without PVI?" Vienna, Austria. June 18–20, 2017.

- Invited Faculty/Panelist: iBio 2017 Capstone Program (Biotronik). Lecture: "Targets for AF Ablation – PVI Versus PVI Plus: Is the Definition of AF the Key Factor in Determining the Target? How to Choose Energy Source? Case Study #1 – "Substrate–Based Ablation vs. Conventional Ablation in VT." Case Study #2 – "Left Atrial Appendage Closure (LAAC) Devices – Should We Consider LAAC as an Alternative for Oral Anticoagulation Medication? Clinical Considerations." New York, NY. June 2 – 3, 2017.

- Invited Faculty: 3rd Annual BronxHeart Symposium: Innovations in Heart Failure, Transplantation and Mechanical Circulatory Support. Lecture: Atrial Fibrillation in HF – The Case for Rhythm Control with Ablation. Workshops: Group 1 – "Ablation in AF". Bronx, NY. May 18 – 19, 2017.

- Invited Faculty: Heart Rhythm Society's 38th Annual Scientific Sessions. Lecture: 1) Homogenization Strategy for VT Ablation: How to Avoid Collateral Damage"; 2) "Contact Force: An Advancement for the Clinical Community"; 3) "AF Ablation in Patient with a

Mechanical Mitral Valve"; Key Opinion Leader: HRS Fellows–In–Training Roundtable; Chicago, IL. May 10–13, 2017.

- Invited Faculty: HEARTLIGHT: Endoscopically Guided Laser Balloon Ablation for the Treatment of Atrial Fibrillation: Insights, Outcomes and the Future. Debate: CON – "PVI: Balloons are Better". Chicago, IL. May 12, 2017.
- Course Director: EP Cases for the Real World *Complimentary CME Dinner Symposium at Heart Rhythm 2017*. Chair/Presenter Case#1 "Ablation of Atrial Fibrillation Triggers"; Chair/Commentary Case#2 "Ablation of Atypical Atrial Flutter". Chicago, IL. May 10, 2017.
- Invited Faculty: Symposium on Stroke Prevention in Atrial Fibrillation Advancements LAA Closure & Oral Anticoagulation. Lecture: "Pericardial Ligation with the Lariat Device: Tips and Tricks"; Moderator: Session IV: LAA Closure Clinical Outcomes. Chicago, IL. May 9, 2017.
- Invited Speaker: University of Illinois College of Medicine EP Symposium 2017. Lecture: "Atrial Fibrillation". Champaign, IL. April 13–15, 2017.

- Invited Faculty: Milan, Italy Training Course. Live and Recorded Cases. Live Case: "Persistent AF Ablation (Austin Approach)"; Recorded Case: "PVC from Aortic Cusp". Milan, Italy. April 6–7, 2017.

- Invited Speaker/Chairman/Live Case: 20th Prague Workshop on Catheter Ablation. Chairman Session: Catheter Ablation of Atrial Fibrillation; Lecture: "Strategy of Mapping and Ablation of Extrapulmonary Foci in Atrial Fibrillation"; Live Demonstration: Case 16 – "Ablation of Extrapulmonary Foci in Persistent Atrial Fibrillation". Prague, Czech Republic. April 4, 2017.

- Invited Faculty: 12th Conference of Italian Researchers in the World. Chairman of the Session Clinical Medicine. Houston, TX. March 25th, 2017.

- Invited Faculty: Organized Approach to Complex Cases. This program allows for small group interactions with faculty members who rotate tables in between the sessions. A series of hand–picked complex cases are presented that will walk a fellow through a comprehensive set of different arrhythmias and clinical syndromes. Through discussions at the small tables and through debate among faculty, every case receives a complete analysis. In addition, each faculty member presents a "Signature Case" and there are "Self–Test" portions to help a fellow assess readiness. Chicago, IL. March 10–12, 2017.

- Co–Director/Moderator/Speaker: 5th International Symposium on Left Atrial Appendage (ISLAA) Moderator Session 3 – Lariat Case 1; Lecture: "Physiologic Impact of LAA Exclusion – ANP, RAAS, Reservoir Function and All"; Moderator Session 6: Interesting Cases; Moderator Session 9 – Miscellaneous LAA Occlusion Devices; Lecture: "Transitioning LAA Exclusion Technology from Clinical Trials to Market Place – Lessons from the Lariat, WATCHMAN and ACP Experience". Austin, TX. March 2–4, 2017.

- Invited Faculty: Tenth Annual Western Atrial Fibrillation Symposium. Lecture: "How Many Re–do Procedures to Suppress AF? When to Stop?" Park City, Utah. February 23 – 26, 2017.

- Invited Speaker: 13th Gulf Heart Association Conference. Dr. Natale 1) Supervision of the ECG Workshop. 2) Lecture: "Atrial Fibrillation: Common Problem, Difficult Management Sometimes". Muscat – Sultanate of Oman. February 8–11, 2017

- Grand Rounds: University of Colorado Cardiology Grand Rounds. Lecture: "Treatment of Persistent AF". Denver, Colorado. February 2–3, 2017

- Invited Representative: Dr. Natale HCA National Medical Director, Cardiac Electrophysiology

represents at CVSL Nashville semi–Annual mtg. January 29–31, 2017. Nashville, TN.

- Invited Speaker: AF Symposium 2017. Lecture: 1) "Single Center Experience with Catheter Ablation for Non–Paroxysmal AF"; Panel & 2 Cases each member – Session: Challenging Cases in AF Management II: Catheter Ablation for AF and Left Atrial Appendage Closure. 2) Panel – Session: Case Transmissions: Advances in Catheter Ablation for AF and LAA Closure. Orlando, FL. January 12–14, 2017.

- Program Director/Speaker: St. Jude Medical Electrophysiology Leadership Meeting. Lecture: "Ablation Strategies for Persistent and Long–standing AF." New York, NY. December 9, 2016.

- Program Director/Facilitator/Speaker: Ablation Treatments for Complex Arrhythmia Patients: An Advanced Course for EP Fellows. Facilitator Section 2: Atrial Fib/Flutter; Lecture: "Paroxysmal AF: Beyond the Pulmonary Veins"; Breakout Session d. "Epicardial Ablation: When and How?". New York, NY. December 9–11, 2016.

- Invited Speaker: Biosense Webster Fellows Course. Inspiration to Application Symposium Event in Conjunction with the AF/VT/VT Summit. Lecture: "Ablation of Complex AF and VT Cases". Chicago, IL. December 4, 2016.

- Course Director/Faculty/Chair: AF/VT/VF Summit. Chairman Session: AF Ablation. Lecture: "Non PV Site Ablation in PAF"; Faculty: "Interactive Discussion w/Case Presentation in Complex AF Ablation", Chicago IL. December 3, 2016.

- Invited Speaker/Chair: International Symposium on Progress in Clinical Pacing. Lecture: "Atrial Fibrillation Ablation"; Debate: "Atrial Flutter Ablation Should Always be Completed by an Adjunctive AF Ablation" Dr. Natale CONS. Rome, Italy Nov. 29 – Dec. 2nd.

- Invited Speaker: Biotronik International Fellows Course. Lecture: "Paroxysmal AF: When to Use RF Energy? When to Use Cryo? Rome Italy. November 28, 2016.

- Invited Speaker: 6th Arrhythmia Argentine Congress. Lecture: "TV Ablation in Different Substracts Post AMI, Dilated Cardiomyopathy, Sarcoidosis. Lecture & Debate: "Ablation of Paroxysmal AF and Non–paroxysmal. RF and Contact Force with Cryo Energy" (Dr. Natale Agonist). Buenos Aires. Nov. 4–5, 2016.

- Invited Speaker: Asia Pacific Heart Rhythm Society Scientific Sessions (APHRS). 1) Lecture: "Lesson Learned from More than 10 Years Follow–up After AF Ablation"; 2) Lecture: "Role of the LA Appendage in Ablation of Atrial Fibrillation". Seoul, Korea. October 11–15, 2016.

- Invited Speaker: Stereotaxis Symposium – Magnetic Navigation for Complex Arrhythmias: Latest Insights from Experts With Proven Results. Lecture: "Value and Potential of Remote Magnetic Navigation". Seoul, Korea. October 13, 2016.

- Invited Speaker: Texas ACC Annual Meeting. 1) Lecture: "Atrial Fibrillation – Rhythm Control
- Strategies"; Lecture: "Stroke Prevention in AF: Pharmacologic Therapy and Non–Pharmacologic
- Therapy"; 3) Panel Discussion/Case Presentation: "Arrhythmias and Congenital Heart Disease".
- San Antonio, TX. October 7–8, 2016.

- Invited Speaker: Life Rhythm 2016. 1) Lecture: "Ablazione della fibrillazione atriale parossistica: a chi,

- quando e come"; 2) Lecture: "Fibrillazione atriale persistente: il trattamento ideale nel singolo paziente."
- Bari, Italy. September 30 – October 1, 2016.

- Invited Speaker: Advanced Catheter Ablation: New Tips, Techniques, and Technologies for Complex
- Arrhythmias. 1) Lecture: "Illustrative Case: Ablation for Persistent AF/PVI or MORE"; 2) Lecture:
- "Managing Risks of AF Ablation: Protecting the Brain, Esophagus, and Phrenic Nerve." 3) Panel: "Case
- Based Discussion: Interactive Cases with Panel Members – Persistent AF: What is the Best Approach in
- 2016?" 4) Faculty Panel and Case #2 – "Putting It All together: Case Presentations of AF and Related
- Arrhythmias." Chicago, IL. September 10–13, 2016.

- Invited Speaker: A Practical Approach to Electrophysiology 3rd Edition. Lecture: "Catheter Ablation of Atrial Fibrillation: What I Have Learned in These 20 Years." White Plains, NY. September 10, 2016.

- Invited Speaker: 2016 Kansas City Heart Rhythm Symposium. Dr. Natale Con – Debate: "Hemodynamic Support is Very Important During Ventricular Tachycardia (VT) Ablation"; Panel Discussion; Lecture: "Management of Obstructive Sleep Apnea for Improving Outcomes of AF Therapy"; Panel Discussion. Kansas City, MO. August 28, 2016.

- Invited Speaker: University of North Carolina Heart Team Summit: A Symposium on Arrhythmia, Appendage and Lead Management Alliances. Lectures: 1) "The Role of Posterior Wall Ablation for Persistent AF"; 2) "How Can We Better Support Innovations? The EP Perspective". Chapel Hill, NC. August 26–27, 2016.

- Invited Chairman/Speaker. China Innovations in Cardiology 2016. Chairman Session: Afib Therapy and Stroke Prevention: Session 1: Radiofrequency Catheter Ablation; Lecture: "Interpretation of OASIS Clinical Study". Nanjing, China. July 22–24.

- Invited Speaker: JHRS Toray Program – New Balloon Technologies for Cure of Atrial Fibrillation; Hot Balloon and Others. Lecture: "Present and Future of Catheter Balloon Procedures". Hokkaido, Japan. July 17, 2016.

- EP Live Latinoamérica 2016. Cases – 1) "Long Standing Persistent AF"; 2) "VT Ablation"; 3) "PVC Ablation" 4) "Lariat Device for Closing the LAA". Bogota, Colombia. June 29 – July 2, 2016.

- Program Chair/Invited Chair/Speaker: CardioStim 2016. Lecture: "How to Ablate Paroxysmal AF With RF Energy"; Co–Chair Session: Around AF Ablation; Dr. Natale Con – Debate: "Rotor Ablation Enhances Results of Ablation for Persistent AF". Co–Chair Session: New Clinical Trials for Novel Anticoagulants – Current Status. Program Chairman – St Jude Medical Program – Optimally Managing AF and VT Using Latest Tools and Techniques. Nice, France. June 8–12.

- Invited Chair/Speaker: 2nd Zurich LAA Management Course: Surgical & Interventional Strategies. Session Chairman; Lecture: "Evolution of Substrate from PVs to non–PVs?"; Dr. Natale Con – Debate: "TAV/Mitraclip/LAA Closure – In All?; Dr. Natale Pro – Debate: "Aggressive Rhythm Control vs. LAA Occlusion Alone". Zurich, Switzerland. June 3–4, 2016.

- Invited Speaker: Texas Heart Institute Cardiac Society, Eight Symposium. 1) Lecture: State of the Art Left Atrial Appendage Closure for Atrial Fibrillation"; 2) Lecture: "Current and Future Directions in the Management of Atrial Fibrillation". Houston, TX. May 20, 2016.

- Invited HCA National EP Director Cardiovascular Service Line (CVSL) Annual Forum. Dr. Natale lecture during Session: Accelerating Growth – Program Development & Practice Growth. Lecture Focus Area – "EP"; Workshops 1 and 2 "Cardiac EP". Orlando, FL. May 11–13.

- Invited Speaker: 2016 Heart Rhythm 37th Annual Scientific Sessions. 1) Lecture: "The Left Atrial Appendage as a Cause for Atrial Fibrillation: Impact of Ligation". 2) Lecture: "Periprocedural Medications to Optimize LAA Closure"; 3) Late–Breaking Clinical Trials II: "Impact of rotor ablation in non–paroxysmal AF patients: results from a randomized trial (OASIS)". San Francisco, CA. May 3–7, 2016.

- Invited Moderator: Itamar Symposium at Heart Rhythm 2016. "Improving Afib Success Rates via OSA Management". 1) Moderator. San Francisco, CA. May 6, 2016.

- Invited Panel Member: LifeWatch Program at Heart Rhythm 2016. "New Technologies for Remote Monitoring". 1) Panel member. San Francisco, CA. May 5, 2016.

- Invited Speaker: BWI Carto System 20th Year Anniversary at Heart Rhythm 2016. 1) Lecture: "How it contributed to your practice and knowledge, how you believe it will be integral to the future of EP". San Francisco, CA. May 5, 2016.

- Course Director/Chair/Speaker: EP Cases for the Real World Symposium at Heart Rhythm 2016. 1) Welcome and Introduction; 2) Session Chair: "Atrial Fibrillation Cases"; 3) Case #1: "Ablation of AF (Non–PV Triggers)"; 4) Closing Remarks. San Francisco, CA. May 4, 2016.

- Invited Speaker: 3rd Annual Advances in Arrhythmias and Cardiovascular Disease. 1) Lecture: "Interventional Therapies for Managing Arrhythmias" and Panel Discussion. Coronado, CA. April 15–17, 2016.

- Invited Speaker/Moderator: 15th Atrial Fibrillation Symposium. 1) Lecture: "Amiodarone and Outcomes of Persistent AF"; 2) Moderator: Session 8: The AFIB Toolbox. Rome, Italy. March 17–18, 2016.

- Course Director/Invited Speaker/Moderator: 4th International Symposium on Left Atrial Appendage and Fellows Summit 2016. 1) Lecture: "Management of VT: Ablation and Device Programming" 2) Moderator Session title: "Case Studies"; 3) Lecture: "LAA Role in Atrial Arrhythmias Origin and Maintenance" and Panel Discussion; 4) "Moderator Session title: Watchman Case 2". 5) Lecture: "Is LAA Exclusion a Substitute for Warfarin Ineligible Patients?" and Panel Discussion; 6) Lecture: "How to Learn From your Mistakes. Case Studies from Experts". New York, NY. March 10–13, 2016.

- Course Director/Moderator/Speaker: EP Live 2016 and BWI Fellows and Recent Grad Case–based Education. 1) Moderator: "Live and Recorded Cases (AF)"; 2) Moderator: "Live and Recorded Cases (VT)"; 3) Moderator: "Live and Recorded Cases (New Technology)"; 4) Lecture: "Atrial Fibrillation and Post AF AT". Austin, Texas. March 3–5, 2016.

- Invited Speaker: 9th Western Atrial Fibrillation Symposium 2016. 1) Lecture: "Anticoagulation During AF Ablation: Multicenter Experience". Park City, UT. February 26, 2016.

- Invited Speaker: Congreso Anual de Cardiología Internacional (CADECI). Lecture: "Mechanical LA Appendage Closure for Stroke Prevention"; 2) Joint Session with the Mexican Society of Cardiac Electrophysiology "Ablation of Ventricular PVC's: When and How?" 3) Lecture: "Ablation of Atrial Fibrillation: Current State". Guadalajara, Mexico. February 19, 2016.

- Invited Chair/Moderator/Speaker: Gulf Arrhythmia Congress. 1) Lecture: "NOACs in the EP Lab: Evidence Based Practice". 2) Chair/Moderator/Speaker Session: "EP Cases for the Real World". 3) Case: "LSAF Ablation". 3) Lecture: "Avoiding Complications with Catheter Ablation of AF". Dubai, United Arab Emirates. January 21–24, 2016.

- Invited Speaker: AF Symposium 2016. 1) Lecture "Anticoagulation Management Per–LAA Closure Including Patients with Major Bleeding"; 2) Panel: "Lightening Round Panel and Faculty and Audience Discussion; 3) Panel – Session: "Case Presentations: Catheter Ablation for Atrial Fibrillation"; 4) Case Presentation: "Catheter Ablation for Persistent Atrial Fibrillation"; 5) Lecture: "AF Ablation in Patients with Persistent AF and Congestive Heart Failure: Benefit Beyond Symptom Relief"; 6) Panel – Session: "Challenging Cases in Catheter Ablation and LAA Closure for AF". Orlando, FL. January 14–16, 2016.

- Invited Speaker: Itamar Medical Meeting "Improving Ablation Outcomes via OSA Management". Lecture "AF and OSA". Orlando, FL. January 14, 2016.

- Invited Moderator: Stereotaxis Symposium "Remote Magnetic Navigation: Latest Clinical Research and Novel Techniques". Orlando, FL. January 14, 2016.

- Invited Program Director/Speaker: Medtronic Course – Ablation Treatments for Complex Arrhythmia Patients: Advanced Course for EP Fellows. 1) Lecture: "Paroxysmal AF: Beyond the Pulmonary Veins".2) Breakout Sessions Lecture: "Epicardial Ablation: When and How?" New York, NY. December 12–13, 2015.

- Invited Speaker: St. Jude Medical Arrhythmia Therapies Roundtable. Lecture: "Solving Complex Ventricular Tachycardias." New York, NY. December 11, 2015.

- Invited Speaker: Biosense Webster Fellows Program: 1) Breakout Session Rotation Cases: "Ablation of Complex Atrial Fibrillation and VT". Chicago, IL. December 6, 2015.

- Invited Speaker/Course Director/Chair: AF, VT, VF Summit 2015. 1) Chairman: Session title – Mapping and Ablation; 2) Lecture: "Homogenization of Scar in Nonischemic VT"; 3) Case Presentation and Interactive Discussion: Mapping and Ablation; 4) Chairman: Session title – Ablation; 4) Lecture: "Identifying and Ablation of Non–PV Site Targets in AF"; 5) Case Presentation and Interactive Discussion: "Approach to AF Ablation in 2015". Chicago, IL. December 3–6, 2015.

- Invited Speaker/Chair: Europe AF, 8th Annual Conference. 1) Chair Session: Current Concepts and Questions in AF Ablation; 2) Lecture: "Persistent AF: What sub–Categories Predict Better Outcomes"? 3) Lecture: "Cardioversion and Ablation on NOACs". London, England. November 23–24, 2015.

- Invited Speaker: 8th Asia Pacific Heart Rhythm Society Scientific Sessions. 1) Lecture: "AF Ablation: in Challenging Substrates: LA Enlargement. MV Replacement and ASD Occlusion Devices"; 2) Lecture: "Radiofrequency Ablation as First Line Therapy – What Are the Limits?" 3) Debate: "AF After Maze Procedure: Track or Treat: Treat: Antiarrhythmics or Catheter

Ablation." 4) Lecture: "Ablation Versus Amiodarone for the Treatment of Persistent AF in Heart Failure." Melbourne, Australia. November 19–22, 2015.

- Invited Speaker: American Heart Association Scientific Sessions 2015. 1) Lecture: "Other Novel Ablation Technologies"; 2) Lecture: "Ablation for Atrial Fibrillation: When and How? Orlando, FL. November 9–10, 2015.

- Invited Speaker: Current Topics in Cardiovascular Medicine: The Interface Between Primary and Specialty Care. 1) Lecture: "Atrial Fibrillation Ablation: History and Current State". Monterey, CA. November 7–8, 2015.

- Invited Faculty: Case Presentations for Emerging Leaders in EP. 1) Faculty Panelist for the 1.5 days of this program "providing input and perspective on the clinical cases presented by the early care EPs". New York, NY. October 24–25, 2015.

- Co–President/Program Chairmen/Chairman/Speaker/Discussant: Venice Arrhythmia 2015. 1) Speaker: Opening Ceremony; 2) Chairman: Brazilian Corner Session – Epicardial Ablation Around the World: What Have We Learned After 20 Years Performing Epicardial Mapping and Ablation of Cardiac Arrhythmias? 3) Discussant During Case Presentation: "A Difficult Case of VA in Ischemic Cardiomyopathy"; Lecture: "Ablation of AF and Left Sided Atrial Arrhythmias"; 4) Lecture: "Mechanisms and Ablation of AF". Venice, Italy. October 16–18, 2015.

- Invited Speaker: Instituto Cardiovascular de Buenos Aires (ICBA) Congress. 1) Lecture: "AF Ablation: The Cornerstone Treatment in PAF"; 2) Lecture: "AF Ablation: A Solution for Healthy Hearts"; 3) Panel Discussion. Buenos Aires. October 12–15, 2015.

- Co–Course Director/Invited Speaker: Biotronik Symposium Advanced Concepts in Cardiovascular and Arrhythmia Management. 1) Co–Director of meeting sessions; 2) Keynote Lecture: "Modern Management of AF"; 3) Case Presentation: "Management of Complex Arrhythmias". San Francisco. October 9–11, 2015.

- Invited Speaker: Abbott Symposium Advanced Catheter Ablation: New Tips, Techniques, and Technologies for Complex Arrhythmias. 1) Presenter: "Persistent AF: What is the Best Approach in 2015?"; 2) Lecture: "Managing Risks of AF Ablation: Protecting the Brain, Esophagus and Phrenic Nerve". Washington DC. October 2–5, 2015

- Invited Speaker: Boston Left Atrial Appendage Management Symposium (LAAM). Lecture: "The Left Atrial Appendage: A Electrophysiologist Perspective". Boston MA. September 30, 2015

- Invited Speaker: Kansas City Atrial Fibrillation World Awareness Day (GAFA). GAFA Program Dinner Symposium 1) Lecture: The Evolution of AF Therapies"; 2) Lecture: "The Importance of a Public Awareness Campaign". Kansas City, MO. September 11–12, 2015.

- Invited Speaker: UNC/ISMICS Heart Team Summit. A Symposium on Arrhythmia and Lead Management Alliances. 1) Panel Discussion: Challenging Persistent AF Cases; 2) Debate: "Ablation of Persistent AF Should be Done as an Endocardial / Catheter–Based Procedure Alone; and 3) Panel Discussion. Chapel Hill, North Carolina. August 27 – 29, 2015.

- Invited Speaker: EP 301: Advanced Ablation Course for EP Fellows and Early Career EPs". Lectures: 1) "Ablation for Paroxysmal AF: A Decade of Lessons Learned"; 2) Ablation of Atrial Tachycardias after AF Ablation". Workshop #5: "Case Studies in Complex Ablations with ARS".

Chicago, IL. August 15 – 16, 2015.

- Invited Speaker: China Heart Rhythm Society Annual Scientific Meeting. Lectures: 1) Plenary Session (2): "Strategies to Improve Outcomes of Atrial Fibrillation Ablation"; Session: The Topics of Clinical Application of Pressure Sensing Catheter. 2) "Clinical Evidence of Contact Force Technology". Beijing, China. August 1 – 2, 2015.

- Invited Speaker: Japan Heart Rhythm Society Annual Scientific Meeting. Lecture: "Improving Catheter Ablation Outcomes with New and Innovative Technologies". Kyoto, Japan. July 29 – 31, 2015.

- Invited Faculty: EP Live Latin America (LATAM). 1) Live Case – "Afib Ablation Non–Paroxysmal (Smart Touch)"; 2) Debate – "Which is the Best Ablation Strategy for Persistent Afib?"; 3) Live Case – "VT Ablation (Scar Homogenization)"; 4) Lecture: "Scar Homogenization"; 5) Chairman – Session Title: Neuromodulation in the Management of Ventricular Arrhythmia; 6) Live Case – "PVC Ablation"; 7) Moderator – Session Title: Strategies for Mapping and Ablation of PVCs II: Pre–Recorded Cases. Bogota, Colombia. July 2 – 4, 2015.

- Invited Speaker: Complex Cardiovascular Catheter Therapeutics. 1) Lecture: "Transseptal and Epicardial Technique Optimized for LAA Exclusion"; 2) Lecture: Post LAA Occlusion Management: What to Do with Leaks and Anticoagulants?". Orlando, FL. June 17, 2015.

- Invited Speaker: Joint Annual Meeting of the Swiss Society of Cardiology (SSC) and the Swiss Society of Cardiac and Thoracic Vascular Surgery (SSCS). 1) Lecture: "Approaches in VT Catheter Ablation and Predictors of Success." 2) Lecture: "Ablation Techniques in VT and Results". Zurich, Switzerland. June 10 – 12, 2015.

- Invited Faculty: Summer Arrhythmia Summit 2015. 1) Chairman: Session Title – "The Way I do It: What Changed in the Past 2 Years"; 2) Lecture: "Evolution of VT Ablation"; 3) Chairman: Session Repeated Title – The Way I do It: What Changed in the Past 2 Years. Vilamoura, Portugal. June 6 – 7, 2015.

- Invited Speaker: Florida Hospital Advances in Cardiology Symposium 2015. Lecture: "Advanced Treatment of Ventricular Tachycardia". Daytona, Beach, FL. May 19 – 21, 2015.

- Invited Faculty: Heart Rhythm Society 2015 – the Society's 36th Annual Scientific Sessions. 1) Lecture: "My Approach to AF Ablation Today vs. 2005"; 2) Dr. Natale Panelist: HRS Special Session SP08 Live Cases; 3) Presenting Author Session Late–Breaking Clinical Trials I. Title: "VENTURE AF: A Randomized Global Trial Evaluating Uninterrupted Rivaroxaban and Vitamin K Antagonists in Patients Undergoing Catheter Ablation for Nonvalvular Atrial Fibrillation"; 4) Poster Session III Poster Title: "Acute Isolation Testing Using Adenosine and Isoproterenol Following Pulmonary Vein Isolation Predicts Chronic Treatment Success"; 5) Session: AF/SVT Ablation Lecture: Complicated AF Case; 6) Dr. Natale Chairman Session – Have We Been Treating the Wrong Organ? Critical Appraisal of Extracardiac AF Therapy. Boston, MA. May 12 – 16, 2015.

- Invited Speaker: St. Jude Medical Symposium. Outcomes Data Defining Strategies for AF and VT Ablations. Dr. Natale lecture: "Substrate Targeted Ablation for the Reduction of VT: Landmark Clinical Trial Enrollment Update and Initial Experience". Boston, MA. May 15, 2015.

- Invited Speaker: Biosense Webster Symposium during Heart Rhythm 2015. Title: Driving Faster Procedure Times and Optimizing Patient Outcomes. Lecture: "The Current State of

Electrophysiology: How Did We Get Here?" Boston, MA. May 14, 2015.

- Course Director: EP Cases for the Real World, CME Symposium at Heart Rhythm 2015 – Dr. Natale – Case#2 "Long–Standing Persistent Atrial Fibrillation Ablation". Boston, MA. May 13, 2015.

- Invited Speaker/Co–Chair: SPAF Symposium on Advancements in LAA Closure & Novel Oral Anticoagulation Therapy. 1) Dr. Natale Co–Chair Session VI: Other LAAC Technologies; 2) Lecture: "Atriclip: Introduction & Recorded Case"; 3) Dr. Natale Co–Chair Session VII: Putting it All Together.
- Boston, MA. May 12, 2015.

- Invited Speaker: University of California Irvine Essentials & Advances in Electrophysiology – 2015.
- Lecture: "Atrial Fibrillation Ablation: Radiofrequency"; 2) Workshop: Cardiology EP Breakout Sessions/Laboratory with Fellows. Orange, CA. May 2, 2015.

- Invited Speaker: 1) Workshop: "Challenging Atrial Fibrillation Cases". Coronado, CA. April 15–19, 2015.

- Invited Speaker: StopAfib 2nd National AF Patient Conference. Lecture: "Catheter Ablation". Dallas, TX. March 28–29, 2015.

- Invited Speaker: Organized Approach to Complex Cases. Session 1 – Arrhythmias I – Faculty Case Discussions; Session II – Arrhythmias II, Faculty Case Discussions; Session III – Arrhythmias III – Faculty Case Discussions; Session V – Clinical Syndromes. Las Vegas, NV. March 20–22, 2015.

- Invited Faculty: American College of Cardiology 64th Annual Scientific Sessions 2015. 1) Debate: PRO "AF Ablation Eliminates the Need for Anticoagulation". San Diego, CA. March 14 – 16, 2015.

- Invited Speaker: A Practical Approach to Electrophysiology 2nd Edition. Albert Einstein College of Medicine and Montefiore Medical Center. Lectures: 1) "Atrial Fibrillation and Isthmus Dependent Atrial Flutter: What is the Best Approach?" 2) "The Homogenization Approach". White Plains, NY. March 6–8, 2015.

- Invited Speaker: The University of Utah's 8th Annual Western Afib Symposium. Lecture: "RAAFT I and II: Lessons Learned." Park City, UT. February 27–29.

- Invited Speaker: Grand Rounds Baylor College of Medicine Cardiology Fellowships Programs. Lecture: "The Evolution of Catheter Ablation for Ventricular Arrhythmias in the Last Decade". Houston, Texas. February 27, 2015.

- Course Director/Speaker: Int'l Symposium on Left Atrial Appendage 2015. Lectures: 1) "Role of LAA in Atrial Arrhythmias Origin and Maintenance"; 2) "Cost Effectiveness of LAA Exclusion Compared to Long–term Oral Anticoagulation in Risk Reduction for AF Patients"; 3) Panelist Session 10 –"My Most Interesting Cases of LAA Exclusion; 4) Dr. Natale – Session V – Live Case Moderator; 5) Dr. Natale – Session VII – Moderator. Los Angeles, CA. February 5–8, 2015.

- Invited Speaker: The Seventh Ventricular Arrhythmia Symposium of China (VAS–China). Lecture: "Catheter Ablation of VA from Papillary Muscle". Nanjing, China. January 28–31,

2015.

- Invited Speaker: Gulf EP Live Dubai 2015. Live in a Box Cases: "Endo Epicardial VT". Dubai. January 22–25, 2015.

- Invited Speaker: Topera's Rotor Round Table: Dr. Natale participates in an expert physician panel discussion on the needs for clinical research and technology innovation on the subject of substrate–based arrhythmia diagnosis and treatment. Orlando, FL. January 10, 2015.

- Invited Speaker: 20th Annual Int'l AF Symposium 2015. 1) Moderator: Satellite Case Presentations; 2) Case Presentation: "Pulmonary Vein Antral Isolation Without the Use of Fluoroscopy"; 3) Lecture: "Epicardial LAA Closure: Is There Sufficient Evidence for This Technique?"; 4) Lecture: "Ablation for Paroxysmal AF: What Have We Learned from More Than Ten Years of Follow–Up?" 5) Lecture: "What is the Best Strategy for Ablation of Persistent AF? and Results of Ablation On vs. Off Amiodarone in Long–standing Persistent AF"; 6) Lecture: "The Role of the LAA as an Arrhythmogenic Site, and the Potential Benefits of LAA Exclusion on Rhythm Control". Orlando, FL. January 8 – 10, 2015.

- Invited Speaker: Stereotaxis Lunch Symposium Learn from the Experts: Dr. Natale Moderator. Orlando, FL. January 8, 2015.

- Invited Speaker: Biosense Webster Fellows Course. Lecture: "Atrial Fibrillation Ablation Strategies and Techniques to Improve Outcomes". Chicago, IL. December 7, 2014.

- Course Director/Speaker/Chairman: AF, VT, VF Summit. 1) Chairman Session – Device Based Therapy; 2) Chairman Session – Ablation Strategies; 3) Lecture: "PAF: Non–PV Site Identification and Treatment"; 4) Panel: Interactive discussion with audience participation – mechanistic–based approach to AF ablation. Chicago, IL. December 4–7, 2014.

- Invited Speaker: XXXI Brazilian Congress of Cardiac Arrhythmias. Lecture: "Left Atrial Appendage: Role for the Pathophysiology of AF, Catheter Ablation and its Relation to the Thromboembolic Risk". Debate: Agonist – "Endo–Epicardial Scar Homogenization is the Most Effective Strategy for VT Ablation". Rio de Janeiro, Brazil. December 1–4, 2014.

- Invited Speaker: American Heart Association Scientific Sessions 2014: Lecture: 1) "Stiff Left Atrial Syndrome"; 2) "VT Ablation: Why I Homogenize the Substrate". Chicago, IL. November 16 – 17, 2014.

- Course Director/Speaker/Live Case: New Techniques in Ablation. St. Jude Medical. 1) Welcome and Opening Remarks; 2) Lecture: "AF Ablation Using Novel Contact Force Catheter (Technology and Clinical Data Overview)"; 3) Live Case: Live AF Ablation Case Using TactiCath Contact Force Ablation Catheter. Austin, TX. November 14, 2014.

- Invited Speaker/Chair: Europe AF 2014. Chairman: Session: Has the Proper Role of Catheter Ablation for Treating AF Been Defined? 2) Lecture: "Catheter Anblation of AF in the NOAC Era". London, England. November 8–9, 2014.

- Invited Speaker: Asia Pacific Heart Rhythm Society (APHRS) & Indian Heart Rhythm Society (IHRS). Lectures: 1) "Hypertrophic Cardiomyopathy and AF: Is Ablation an Option"; 2) "Ablation as First Line Treatment of AF". Debate: Session 3, Debate 1: Cavo–Tricuspid Isthmus Ablation Should Always be Performed During an AF Ablation Procedure: "Talk on Debate as Con and Rebuttal". New Delhi, India. October 28 – November 1st, 2014.

- Invited Speaker: 9th Int'l Symposium on Ventricular Arrhythmias: Pathophysiology and Therapy. 1) Panel: "Live and Recorded Cases – Live Cases from Mount Sinai Hospital"; 2) Session: Rapid Fire: Active VT Trials – Lecture: "STAR VT Trial"; 3) Lecture: "Support is Not Needed: Tissue Homogenization is the Key!" October 24–25, 2014. New York, NY.

- Invited Speaker: Mayo Clinic's Advanced Catheter Ablation: New Tips, Techniques, and Technologies for Complex Arrhythmias. Dr. Natale – Live Case Demonstration from St. David's Medical Center in Austin, Texas. San Francisco, CA. Oct. 21, 2014.

- Invited Speaker: Kentucky Chapter, ACC – 10th Annual Meeting and Scientific Session. Valvular Summit 2014 with Emphasis on the Left Heart. Lectures: 1) Dr. Natale Distinguished Lecturer: Title: "Atrial Fibrillation 2014". 2) "Epicardial Ablation for Supraventricular Tachycardia"; 3) Epicardial Ablation for Ventricular Tachycardia"; 4) "Ablation Tips for Difficult Supraventricular Tachycardia". Louisville, KY. October 11, 2014.

- Invited Speaker: Congresso Life Rhythm 2014. Lettura Magistrale 1) "Nuove tecnologie in Aritmologia"; 2) "Ablazione delle aritmie ventricolari". Bari, Italy. September 22 – 23, 2014.

- Invited Speaker: Controversies in Cardiac Arrhythmias. Lecture: 1) "Catheter Ablation of Atrial Fibrillation: Its Role Today". Lecture: 2) "Catheter Ablation of Ventricular Arrhythmias in 2014". Dr. Natale Panelist. Washington DC. September 18–20, 2014.

- Invited Speaker: The California Heart Rhythm Symposium – UCLA. Lecture: "Ablation of Persistent Atrial Fibrillation". Beverly Hills, CA. September 5–6th, 2014.

- Invited Speaker: Kansas City Heart Rhythm Symposium. Lectures: 1) "Understanding Bleeding Risks and Reversal of Warfarin and Novel Oral Anticoagulants in EP Procedures"; 2) "Techniques in VT Ablation: Focal Ablation, Scar Isolation, Homogenization and More". Kansas City, KS. August 15–17, 2014.

- Invited Speaker: 29th Annual Japanese Heart Rhythm Society Meeting and 31st Annual Scientific Meeting of the Japanese Society of Electrocardiology. Lectures: 1) "What to do if PVs are isolated at repeat procedures?" 2) "How to Deal with a Challenging Transseptal"; 3) "AF Ablation and Contact Force". Tokyo, Japan. July 22–26, 2014.

- Invited Speaker: LATAM EP Live Latin America. 1) Live Case "Ablation of Post Maze AFL"; 2) Live Case – "Endo–epi VT Ablation (Scar Homogenization)"; 3) Lecture: "Use of Contact Force for Mapping and Ablation"; 4) Pre–recorded Case – "LV Summit"; 5) Lecture: "Preventing LV Perforation During RF Application." Bogota, Colombia. July 2nd – 6th, 2014.

- Invited Speaker: C3 – 10th Annual Complex Cardiovascular Catheter Therapeutics Advanced Endovascular and Coronary Intervention Global Summit. Lecture: 1) "Periprocedural Management with Procedures: Cardioversion, Ablation, Catheterization"; 2) "Case Selection: Which LAA Exclusion Device and for Whom?" Orlando, FL. June 25–27, 2014.

- Invited Speaker: Special Lecture at Cardiology Grand Rounds Montefiore Einstein Center for Heart and Vascular Care. Lecture: "Catheter Ablation of Ventricular Tachycardia: The Past, The Present, and The Future." New York, NY. June 13, 2014.

- Invited Speaker/Chairman: 35th Annual Scientific Sessions Heart Rhythm Society. Lecture 1) "Anatomic Endpoints for Substrate Ablation"; 2) Poster: "Correlation of CF and One–Year

Effectiveness for PAF"; 3) Indian HRS Symposium: Debate Topic Opposing: "Contact Force Ablation Catheters are Preferable to Conventional Ablation Catheters"; 4) Debate Topic Pro: "Battle of the Titans: Ablation Should be Offered as first line Treatment of Paroxysmal AF"; 5) Lecture: Featured Symposium: "Physioanatomic Correlates of the LAA & Systemic Thromboembolization"; 6) Debate Topic Pro: "In the AF Ablation Era – AV Node Ablation can be Consigned to History; 7) Chair and Discussant: Session title: A Case–based Symposium of Cardiovascular Arrhythmology". San Francisco, CA. May 7–10, 2014.

- Invited Chairman/Speaker: BWI China Innovation Symposium: 1) Chairman commenting on Speaker presentations focusing on SmartTouch, UniVu and ULS; 2) Lecture: "SmartTouch". San Francisco, CA. May 9, 2014.

- Invited Speaker: BWI Symposium: Fully Integrating Contact Force and 3D Mapping. Lecture: "SMART AF Clinical Study and Clinical Experience". San Francisco, CA. May 8, 2014.

- Invited Speaker: SJM Symposium: Pioneering Techniques and Technologies for the EP Lab. Lecture: "Should Contact Force Technology be the Standard of Care in Ablations". San Francisco, CA. May 8, 2014.

- Invited Speaker: India VT Conference. Lectures: 1) Live in the Box Case – "Ablation of Paroxysmal AF"; 2) "Mapping & Ablation of Macrorentrant AT after AF Ablation". New Delhi, India. April 18–20, 2014.

- Invited Speaker: Dream Team at Work: Live Cases by Elite International Interventional Electrophysiologists, Maria Cecilia Hospital – Cotignola (RA), Italy. Dr. Natale – AF Ablation – Persistent Atrial Fibrillation Live Case from St. David's Medical Center, Austin, TX. April 10, 2014.

- Invited Speaker: VII Congreso Nacional ANCISSSTE 2014. Lecture: 1) "The Art of Atrial Fibrillation Ablation"; 2) "Atrial Fibrillation Ablation. Pearls and Pitfalls". Mexico City, Mexico. April 4–6, 2014

- Invited Speaker: Grand Rounds, University of Cincinnati Medical Center. Lecture: "Interventional Treatment of Atrial Fibrillation". Cincinnati, OH. April 1, 2014.

- Invited Co–Director and Speaker: University of Kansas, 2nd Annual Int'l Symposium on Left Atrial Appendage (ISLAA 2014). Lecture: "The Role of LAA in Atrial Arrhythmias Origin and Maintenance" and panel discussion; Expert Panel: Session V–Live Case Demonstration; Lecture: "Post Procedural LAA Exclusion Leak–Mechanisms, Implications and Treatment"; Expert Panel: "Session XIII – "My Most Interesting Cases of LAA Exclusion"; Moderator: Poster Session – working breakfast. Orlando, FL. March 14–16, 2014.

- Invited Participant: HCA Clinical Srvcs Group Cardiovascular (C3) Summit. Meeting goal: Obtaining expertise and guidance on the strategic development of the 2014 C3 agenda. Tampa, FL. March 12–13, 2014.

- Invited Speaker: Gulf EP Live 2014. Cardiac Ctr. Al Qassimi Hosp. 1) Chairperson: "UAE Live Case"; 2) Moderator: Session 5–"New Technology, Less Burden"; 3) Lecture: "Live in a Box Case – RF in Long Standing AF". Dubai, United Arab Emirates. March 6–9, 2014.

- Invited Speaker: Advanced Electrophysiology Summit. Lecture: "VT Ablation: Patient Selection, Treatment Strategies & Outcome". Washington, DC. February 22, 2014.

- Invited Speaker: Biosense Webster Research Program. Lecture: "SmartTouch Results from IDE". Ft. Lauderdale, FL. January 25, 2014.

- Invited Speaker: A Practical Approach to Electrophysiology Montefiore, the University Hospital for Albert Einstein College of Medicine. Lecture: "Antiarrhythmic Therapy vs. Ablation vs. Rate Control". White Plains, NY. January 25, 2014.

- Invited Speaker: AF Symposium 2014. Advancements in Catheter Ablation: Improving Clinical Outcomes, Efficiency, and Patient Care with Emerging Technologies. Panelist: Satellite Case Presentations. Lectures: 1) "Peri–Procedural Stroke and Silent Cerebral Ischemia – Strategies for Prevention"; 2) "Ablation of Atrial Fibrillation Using Novel Contact Force Catheter". Panelist: Challenging Cases in AF Ablation. Orlando, FL. January 9–12, 2014.

- Invited Speaker: Shanghai Chest Hospital. 1) Live Case Demo: Chronic Afib Ablation. 2) Lecture: "Catheter Ablation of Chronic Atrial Fibrillation: Experience from Texas Cardiac Arrhythmia Institute"; 3) Lecture: "Ablation of Symptomatic Paroxysmal Atrial Fibrillation Using Novel Contact Force Catheter: SMART–AF Trial". Shanghai, China. December 11–15, 2013.

- Invited Chairman and Speaker: AF, VT, VF Summit Aurora Health Care. Chairman: Session – Device–based Therapy. Lectures: 1) "Approach to Identifying and Treating Post AF Atrial Arrhythmias"; 2) "Interesting CARTO 3 System Case Presentation". Chicago, IL. December 6–7, 2013.

- Invited Chairman and Speaker: Europe AF 2013. Chairman: Session: The Evolving Role of Catheter Ablation. Lecture: "Catheter Ablation in the Era of New Oral Anticoagulants: What is the Experience? " London, England. November 23–24, 2013.

- Invited Speaker: Advances in Cardiac Electrophysiology 5th Edition. Lectures: 1) "Long–lasting Persistent Atrial Fibrillation Ablation: A Comparison of Two Different Approaches Included in the Session: Atrial Fibrillation Treatment: 2013 Highlights"; 2) "Tachicardie ventricolari non mappabili e fibrillazione ventricolare; ablazione". Rome, Italy. November 20–23, 2013.

- Invited Speaker: Medical Grand Rounds, Stamford Hospital's 6th Annual Keith A. Landesman Memorial Lecture. Lecture: "Interventional Treatment of Atrial Fibrillation". Stamford, Connecticut. November 6th, 2014.

- Invited Speaker: Grand Rounds St. Luke's – Roosevelt Hospital: "Ablation of Atrial Fibrillation as First Line Therapy: Are We There Yet?" New York, NY. October 23rd, 2013.

- Invited Speaker: Grand Rounds Beth Israel Medical Center, Division of Cardiology. Lecture: "Ablation of Atrial Fibrillation as First Line Therapy: Are We There Yet?" New York, NY. October 21st, 2013.

- Invited Speaker: 8th International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy. Lecture: "Endo–epicardial Scar Homogenization"; Panel discussion: "Focused question – "What techniques are still limited and what studies should be done?" Philadelphia, PA. October 18–19, 2013.

- Invited Speaker: First Annual Arrhythmia Institute SymposiumAtrial Fibrillation: Management and Treatment Update 2013. Continuum Cardiovascular Centers of New York. Lecture: "Recent

Updates in Ablation of Atrial Fibrillation: What is the Likelihood for Cure?" Panel: Case Studies and Panel Discussion. New York, NY. October 17, 2013.

- President: 13th Edition, Venice Arrhythmias 2013. 1) Closing Remarks: Allied Professionals Program – Atrial Fibrillation Today. 2) Session Indian Corner – Lecture: "Does the Anatomy of Left Atrial Appendage Correlate with the Risk of Stroke?" 3) Debate: Session: AF Ablation Controversies: 3 Clinical Issues Dr. Natale PRO – 2nd Clinical Issue – "Ablation Should be First–Line Therapy in All Patients with Paroxysmal AF". Venice, Italy. October 2014.

- Invited Speaker: Biosense Webster Luncheon Symposium – "Smart Touch" during 6th APHRS & CardioRhythm 2013. Lecture: "The Importance of Contact Pressure". Hong Kong. October 3, 2013.

- Invited Chair and Speaker: 6th APHRS & CardioRhythm 2013. Lecture: 1) "Multi–electrode Ablation"; 2) Lecture and Debate: "The Left Atrial Appendage Should Never be Isolated (Cons); 3) AF Ablation Workshop–and Tools for AF Ablation: Where do we Stand in 2013: Lecture: "Future Perspectives". Hong Kong. October 3–6, 2013.

- Invited Speaker: Grand Rounds UC Davis Medical Center. Sacramento, CA. September 26, 2013.

- Invited Speaker: 13th Annual Advanced Ablation Course. Lectures: 1) "Epicardial Mapping and Ablation Techniques"; 2) "Ablative Homogenization for Scar – VTs"; 3) "Catheter Ablation for Polymorphic VT/VF"; 4) "A Case of Ablation for Persistent AF: The Austin Approach"; 5) "Robotic Navigation for Ablation: What Does it Add?". Panel: "Live Cases from Brigham and Women's Hospital; Putting it all Together". Boston, MA. September 8–10, 2013.

- Invited Co–Director and Speaker: Scripps 4th Annual Percutaneous Catheter Ablation of Atrial Fibrillation. Lecture: "Ablation of Paroxysmal Atrial Fibrillation"; Pre–Recorded Case Presentation. La Jolla, CA. August 24–25, 2013.

- Invited Speaker: Annual Kansas City Heart Rhythm Symposium. KU Medical Center. Lectures: 1) "Left Atrial Appendage Exclusion for Stroke Prophylaxis – State of the Art Field; 2) "Adjunctive Strategies in Improving the Outcomes of Non–paroxysmal AF Ablation"; and Panel Discussion. Kansas City, KS. August 17–18, 2013.

- Invited Speaker: Fundación Cardio Infantil–Instituto de Cardiología Program. Bogota, Colombia. July 4–7, 2013.

- Invited Speaker & Chairman: Summer Arrhythmia Summit 2013. 1) Lecture: "New/Future Energy Sources/Ablation Techniques. 2) Chairman: Session 3 – SAS 5. Faro, Portugal. May 30 – June 2, 2013.

- Invited Speaker: Heart Rhythm Society 2013. 1) Lecture: "Hemodynamic Support During VT Ablation: When is it Useful and Does it Lower Risk?" 2) Lecture: Late–Breaking Clinical Trials II – "Ablation of Symptomatic Paroxysmal AFIB Using Novel Contact Force Catheter: SMART–AF Trial". 3) Lecture: "Idiopathic Dilated Cardiomyopathy". Denver, CO. May 8–11, 2013.

- Invited Moderator & Program Director: St. Jude Medical Innovations in VT Symposium. Welcome and Introductions. Denver, CO. May 9, 2013.

- Invited Host: Cardiofocus HeartLight Pivotal Clinical Study Investigators Symposium. Denver, CO. May 7, 2013.

- Invited Speaker: Stanford Biodesign New Arrhythmia Technologies Retreat. Moderator: Session – Advances in Mapping and Ablation (Part II). Denver, CO. May 7, 2013.

- Invited Speaker: Biosense Webster Fellows Course – "One Day of Case–based Presentations and Hands–on Training". Moderator: Case Presentations. Chicago, IL. April 27, 2013.

- Invited Speaker: Grand Rounds Stony Brook Medical Center. 1) Fellows Case Presentation evaluation. 2) Lecture: "Innovations in Management of AF". New York, NY. April 24, 2013.

- Invited Speaker/Chairman: 12th Afib Symposium Barcelona. Lecture: "Complications in Fully Anti–coagulated Patients"; Chairman: Session Title: Update on Clinical Trials. Barcelona, Spain. March 20–24, 2013.

- Invited Speaker: American College of Cardiology 2013. 1) Lecture: "Improvement in Left Ventricular Dysfunction with Rate Versus Rhythm Control of Atrial Fibrillation". San Francisco, CA. March 9–11, 2013.

- Invited Course Director/Speaker/Moderator: 1st International Symposium for Left Atrial Appendage. 1) Introduction & Welcome; 2) Lecture: "Role of LAA in Atrial Arrhythmias Origin and Maintenance/Role of LAA Isolation in AF Rx"; 3) Expert Panel for the "How to Lectures and Live Case Demonstrations with Discussion Along with Expert Panel; 4) Moderator: Session VIII; 5) Lecture: "LAA Ligation and Occlusion Technology in the Incubator"; 6) Case Presentation: "My Most Interesting Cases and Panel Discussions". Kansas City, KS. March 1–2, 2013.

- Invited Speaker: Medtronic's Course – Basic Concepts of Device Management for Cardiology Fellows & Cardiologists. Lecture: "When to Treat/Refer Following the Guidelines". Austin, TX. February 23–24, 2013.

- Invited Speaker: 22nd Annual Cardiovascular Conference. 1) Lecture: "What is the Contribution of AF to Cryptogenic Stroke and Dementia?" 2) "New Approaches in Ablation for VT". Beaver Creek, CO. February 9–12, 2013.

- Invited Speaker: Advanced EP Summit. 1) Lecture: VT Ablation: Patient Selection, Methods & Outcomes"; 2) Panel Discussions: Module II: Device Controversies. Chicago, IL. February 8–9, 2013.

- Invited Speaker/Moderator/Chairman: 18th Annual Boston Atrial Fibrillation Symposium. 1) Satellite Case Presentation; 2) Chairman: CardioFocus Heartlight Endoscopic Ablation System: Perspective after 1000 Clinical Procedures"; 3) Moderator: Session – Left Atrial Appendage Closure: Devices, Techniques and Outcomes. 4) Lecture: What do you Ablate in Patients with Late Recurrence and Complete Isolation of the Pulmonary Veins?"; 5) Lecture: "Relevance of Termination of Longstanding Persistent AF: Evidence from a Randomized Study"; 6) Case Presentations, Panel and Audience Discussion: Dr. Natale First Round – "AF Ablation in a Patient with a Persistent Left Superior Vena Cava and an Absent Right Superior Vena Cava". Dr. Natale Second Round – "Approach to AF Ablation in a Patient with Prior Atrial Septal Closure Device". Boston, MA. January 16–20, 2013.

- Invited Speaker: Biosense Webster Fellows Course. Lecture: "Interesting CARTO® 3 System Case Presentation". Chicago, IL. December 9, 2012.

- Invited Speaker/Chairman: AF, VT, VF Summit. 1) Chairman: Session – Device–based Therapy;

2) Case Presentation & Faculty Discussion: "Newer Anticoagulants and AF Ablation"; 3) Chairman: Session – AF Ablation; Lecture: "PAF: Non PV Ablation in PAF". Chicago, IL. December 7–8, 2012.

- Invited Speaker/Moderator: AF Innovations: Insights from the Experts. 1) Panelist: "Live Case Demonstration – Massachusetts General Hospital; 2) Lecture: "Is it Time for a Change? Adding Additional Linear and Atrial Ablation for Repeat Procedures to Improve Outcomes"; 3) Lecture: "Atrial Anatomy and Function After Ablation: Does it Play a Role in My Decision of Post Ablation Anticoagulation"; 4) Moderator: Session What Tools Are Ready For My Practice?; 5) Case Presentation: "My Worst AF Complication: Complex Case Review"; Panelist: "AF Ablation in 2020: What will the Future Hold?". New York, NY. November 30–December 2, 2012.

- Invited Speaker: Europe AF. Lecture: "The Asymptomatic AF Patient: When to Ablate and How to Follow–up?". London, England. November 18–19, 2012.

- Invited Speaker: American Heart Association Scientific Sessions 2012. CT05 "Case Theater Presentation for Atrial Fibrillation Ablation in Late 2012 – State of the Art"; CT06 "Case Theater Presentation for Atrial Fibrillation Ablation in Late 2012. Los Angeles, CA. November 3–7, 2012.

- Invited Speaker: The 9th Annual Innovations & Trends in Cardiovascular Care 2012. Lecture: "Results with Remote Navigation for Ablation of AF: Did We Meet the Expectation?" Somerset, NJ. October 26–27, 2012.

- Invited Speaker: The 7th Annual International Symposium on Ventricular Arrhythmias: Pathophysiology and Therapy. Panelist: Session – Live Case Presentations; Lecture: "Endo–Epicardial Homogenization of the Scar" and Panel Discussion. New York, NY. October 19, 2012.

- Invited Speaker: Advanced Ablation Course, New Tips, Techniques & Technologies for Complex Arrhythmias. Lectures – 1) "Video Based–Technical Aspects of Epicardial Ablation"; 2) "Post–Ablation Triggers and Tachycardias: The Downside of AF Ablation"; 3) "Remote Navigation: What Does It Add?"; 4) "Our Best Taped AF Ablation Cases"; 5) Working Lunch – Panel Discussion – "Patient Selection, Anticoagulation, and Post–Ablation Management"; 6) Live Cases: Putting It All Together AF, Post AF Ablation Flutter, VT/VF Ablation". Chicago, IL. September 8–11, 2012.

- Invited Speaker: Fundación Cardio Infantil–Instituto de Cardiología Program. Bogota, Colombia. August 30 – September 2, 2012.

- Invited Speaker: University of Minnesota EP Grand Rounds. Lecture – 1) Special EP Rounds: "The Evolving Fields of Ablation of Atrial Fibrillation"; Lecture – 2) Friday EP Rounds: "Evolution of Epicardial Ablation". Minneapolis, MN. August 2–3, 2012.

- Invited Speaker/Chair: 27th Annual Scientific Session of the Japanese Heart Rhythm Society (JHRS). 1) Special Lecture: "Evolution of Epicardial Ablation"; 2) Chairman: Session: Unsolved Issues of Catheter and Surgical Ablation of Atrial Fibrillation; 3) Lecture: "Ablation of Longstanding Persistent AF". Yokohama, Japan. July 4–8, 2012.

- Invited Speaker: CARDIA: Cardiac Arrhythmia, Sudden Death, Inherited Disease, Athletes. Dr. Natale
- Track 1 – EPs – "How to Perform AF Ablation"; 2) "Track 1 – EPs "How to Ablate VT". Monterey,

- CA. June 22–24, 2012.

- Course Director/Faculty: Biotronik International Fellows Program EP Anatomical Concepts. Dr. Natale 1) Course Objectives; 2) Lecture: "EP Anatomical Ablation Techniques for the Ablationist". 3) "EP Cardiac Anatomy – Hands on Skills Enhancement and Dissection Lab". Nice, France. June 9–13, 2012.

- Invited Speaker: 8th Annual HeartCaring Conference. Lecture: "The Atrial Fibrillation Epidemic: The Modern, Cutting Edge Management". San Antonio, TX. May 17, 2012.

- Invited Speaker: Heart Rhythm 2012 – 33rd Annual Scientific Sessions. Lecture: "Magnetic and Robotic Navigation Systems: Have Our Dreams Been Realized?"; Panelist: HRS Special Session (SP08) Live Case Presentations; Lecture: "Techniques and Outcomes of AF Ablation Using the Hansen System"; Lecture: "How to Isolate the CS and the Left Atrial Appendage". Boston, MA. May 8–12, 2012.

- Invited Program Director/Co–Chair/Moderator: Innovations in VT Dinner Symposium. Boston, MA. May 9, 2012.

- Invited Speaker: Stanford Biodesign New Arrhythmia Technologies Retreat. Lecture: "Advances in Catheter Control Devices". Boston, MA. May 8, 2012.

- Invited Speaker/Program Committee/Scientific Advisory Board. ECAS 8th Annual Congress of the European Cardiac Arrhythmia Society. Dr. Andrea Natale's lecture Presented by Dr. Luigi Di Biase "When Epicardial Ablation is Needed for Supraventricular Tachycardias?" Munich, Germany. April 20–22, 2012.

- Invited Speaker: American College of Cardiology 61st Annual Scientific Session. Panelist: Session "Management of Difficult AF: When to Change Drugs, When to Give Up"; Lecture: "Management of AF Patients Referred for CRT Implant: Ablation of Atrial Fibrillation Versus AV Node Ablation". Chicago, IL. March 24–26, 2012.

- Invited Speaker: The Future of Catheter–Based Electrophysiological Interventions: Arrhythmias and Beyond. UCLA Cardiac Arrhythmia Center. Session: Science of Mapping and Application to Therapy of AF. Lecture: "AF as an Ablatable Rhythm – Advances"; Roundtable Discussion and Questions. Los Angeles, CA. March 9, 2012.

- Program Director/Invited Speaker: Presidential EP Debates. Dr. Natale – Debate #4 (Con): "Do We Ablate Too Many AFib Patients? March 3, 2012. Austin, TX.

- Director/Organizer/Faculty: EP LIVE 2012. St. David's Medical Center. Dr. Natale directed and organized this 2 day intensive educational symposium. EP Live sessions consisted entirely of live and taped cases broadcast or recorded focusing on techniques and challenges facing the practicing electrophysiologist. Dr. Natale Live Case #2: "Contact Force Sensing, Needle Access Catheter". March 1–2, 2012. Austin, TX.

- Invited Speaker: Boston Scientific Senior Electrophysiology Fellows Conference. "Lecture: "Ablation of Ventricular Tachycardia"; Session I: Case Presentations: "Challenging Clinical Cases"; Session II: Case Presentations: "Challenging Clinical Cases". Chicago, IL. February 24–26, 2012.

- Invited Speaker: ACC Puerto Rico Updated on the Management of Atrial Fibrillation. "Focused

Electrophysiology Session: Case Presentations/Debates"; Lecture: "How Do I Ablate AF: The Natale Approach"; Lecture: "Periprocedural Anticoagulation, Procedural Complications and More". Rio Grande, Puerto Rico. February 10–11, 2012.

- Invited Speaker: Pioneering the Full Picture: New Options in Atrial Arrhythmia Management. Dr. Natale – Introduction/Welcome; Lecture: "Assess AF Results"; Lecture: "Putting it All Together". Miami, FL. February 3–4, 2012.

- Invited Speaker: Advanced Electrophysiology Summit. Lecture: "VT Ablation: Patient Selection, Methods and Outcomes"; Panel: Session: Module II: Device Controversies. Scottsdale, AZ. January 28–29, 2012.

- Invited Speaker: 17th Annual Boston Atrial Fibrillation Symposium 2012. Lecture: "Management of Anticoagulation for AF Ablation". Lecture: "Catheter Ablation in Patients with Prosthetic Heart Valves"; Panel and Audience Discussion: "Challenging Cases in AF Ablation – Case Presentations". Daichi Sankyo Lecture: "Hemorrhagic and Thromboembolic Complications of Ablation". Boston, MA. January 11–15, 2012.

- Invited Chairman/Speaker: AF, VT, VF Summit 2011. Lecture: Chairman Session: "AF Therapy"; "PAF: Targeting Non–PV Sites – When and How?" Chicago, IL. December 1–4, 2011.

- Invited Speaker: Advances in Cardiac Electrophysiology. Lecture: "Terapia della fibrillazione atriale: update 2011"; Debate: (PRO) "Ablazione della fibrillazione atriale: indicazione allargata". Rome, Italy. November 25–26, 2011.

- Invited Speaker: Europe AF. Lecture: "Catheter Ablation – Could I be a Suitable Candidate?" Debate: (CON) "This House Believes that Ablation Should Not Be Offered to Patients with Asymptomatic AF". London, England. November 21–22, 2011.

- Invited Speaker: American Heart Association Scientific Sessions 2011. Presentation: (PRO) "Patients With AF Should Have Ablation as First–Line Therapy"; Lecture: "Atrial Fibrillation Ablation: Alternatives to PVI". Orlando, FL. November 12–14, 2011.

- Invited Speaker: Biotronik NYC Lecture. "Advances of AF Therapy in the Last 10 Years". New York, NY. October 22, 2011.

- Invited Speaker: 6th Annual Int'l Symposium on Ventricular Arrhythmias: Pathophysiology and Therapy. Lecture: "Catheter Ablation in Hypertrophic Cardiomyopathy"; Dr. Natale Case Presentation Panel; BWI Fellows Training and Case Based Education. Lecture: "Interesting Accessory Pathway with Focus on CARTO 3 System Mapping". Philadelphia PA. October 21–23, 2011.

- Invited Speaker: Osher Lifelong Learning Institute on behalf of UT Quest at the University of Texas, Austin. Lecture: "Atrial Fibrillation: An Epidemic of the Aging Heart". Austin, TX. October 18, 2011.

- Co–President, Chairman, Faculty: Venice Arrhythmias 2011. Debate: (PRO) "AF Ablation Should Be the First Line Therapy in Patients with Paroxysmal Atrial Fibrillation"; Lecture: "New Catheters with Contact Sensor: Will they Really Improve the Clinical Outcome?"; Live Session: Dr. Natale Surgeon: "Trans–Catheter Laser and Cryoballoon Ablation of AF – A Case of Laser Balloon AF Ablation"; Dr. Natale Chairman: Session – (JHRS) Corner – "Unsolved Issues of Catheter and Surgical Ablation of AFib". Venice, Italy. October 9–12, 2011.

- Program Director, Speaker: Advanced EP Concepts, St. Jude Medical Advanced Technology Center. Dr. Natale – Opening Remarks and Introductions; Lecture: "Evidence –Based Approach to Atrial Arrhythmia Ablation". Austin, TX. Sept. 8–10, 2011.

- Invited Speaker: California Heart Rhythm Symposium. Lecture: "Ablation of Persistent AF: How Much Substrate Modification is Needed?" San Diego, CA. Sept. 1– 3, 2011.

- Invited Speaker: 3rd Annual Percutaneous Catheter Ablation of Atrial Fibrillation: How to Incorporate this Therapeutic Option into Your Practice. Lecture: "Catheter Ablation of Persistent Atrial Fibrillation". San Diego, CA. August 27–28, 2011.

- Invited Discussant: The Medical Roundtable: Cardiovascular Edition. 1) Expert Roundtable – "Should Anticoagulation Be Stopped After Successful Ablation for Atrial Fibrillation?" Fall 2011;Vol. 2(4):235–240. August 11, 2011.

- Invited Speaker: International Arrhythmia Center "Andrea Natale" Launching Meeting. Panel of Experts and Lectures: 1) "Percutaneal Exclusion of the LAA to Prevent Embolism in AFib Patients: How, to Whom and What are the Results." 2) "Contemporary Role of Catheter Ablation for AFib Patients. From the Studies to the New Guidelines"; 3) "My Best Advice to Perform AFib Ablation (Includes Post–Ablation Arrhythmia Recurrence)"; Bogota, Colombia. July 7–10, 2011.

- Invited Faculty: International Workshop: Atrial Fibrillation & Supraventricular Tachycardia. Live Case Discussions (10 Cases). Biotronik Interactive Workshop Villa Maria Cecilia Hospital. Cotignola, Italy. June 8–9, 2011.

- Invited Speaker: Grand Rounds, The Methodist DeBakey Heart & Vascular Center. Lecture: "The Evolution of Ablative Therapy in the Last Decade: Towards Better Understanding, Safety, and Efficacy". Houston, TX. June 2, 2011.

- Invited Faculty: Biosense Webster Atrial Fibrillation Symposium. Lecture: Case Presentation. San Francisco, CA. May 8, 2011.

- Invited Speaker: Heart Rhythm Society 32nd Annual Scientific Sessions. Lecture: "This is How I Ablate AF"; Lecture: "The Austin Approach – Wide Antral Ablation and CFE"; Lecture: "Ablation of Outflow–Tract VT/PVCs: A Systematic Approach". San Francisco, CA. May 2–7, 2011.

- Invited Speaker/Chairman: CardioRhythm 2011. AFIB Ablation Chairman, Preliminary Scientific Advisory Board; Lecture: "Future Status of AFIB Treatment"; Lecture: "What Improvement in Outcome Will Arise from RF Guided Contact Imaging?"; Lecture: "What to do After 2 or 3 Ablations have Failed?"; Lecture: "Roles of Ultrasound in EP" Hong Kong, Feb. 23–27, 2011.

- Invited Speaker: Medtronic's Basic Concepts of Device Management for Cardiology Fellows. Lecture: "Welcome"; Lecture: "The EP Specialty: When Cardiology & EP Partner in Patient Care". Austin, TX. February 19–20, 2011.

- Invited Speaker: The Left Atrial Appendage: A New Surgical Frontier Symposium. Lecture: "Percutaneous LAA Closure Devices: Evidence for Benefit"; Panel: "Integrating Left Atrial Appendage Closure into Surgical Practice". San Diego, CA. Jan. 29, 2011.

- Invited Speaker: Medtronic's Advanced Electrophysiology Summit. Lecture: "AF Ablation Guidelines"; Panel: "Module I Session – Just the Facts – Literature and Guidelines"; Faculty discussion: "Cases for the EP Consultant". Washington, DC. Jan. 21–22, 2011.

- Invited Speaker: 16th Annual Symposium on Atrial Fibrillation. Satellite Case Transmissions: Catheter Ablation for Atrial Fibrillation – Pre–Recorded Case Presentations & Panel; Lecture: "Convergent Procedure"; Lecture: "The Role of Left Atrial Appendage Isolation in AF Ablation"; Lecture: "Role of the Insertable Cardiac Monitor in Pre/Post AF Ablation Monitoring". Boston, MA. Jan. 11–15, 2011.

- Invited Speaker: EP In the West. Panel: "How to Ablate VT's: Tough Ablation Cases–Tips & Tricks"; Lecture: "How I Perform AF Ablation"; Panel: Cases by Panel; Moderator: Track 1 – EP Physicians & Fellows Atrial Fibrillation and Ventricular Tachycardia Ablation. Monterey, CA. Dec. 10–12, 2010.

- Course Director, Invited Speaker: AF VT VF Summit. Lecture: "PAF: Targeting Non PV Sites When and How"; Lecture: "Step by Step Approach to Ablation of Patient with PAF"; Chairman Session entitled: "Delivery Systems, Imaging"; Chairman Session entitled: "Device–Based Therapy". Chicago, IL Dec. 2–5, 2010.

- Invited Speaker: XIV Int'l Symposium Progress in Clinical Pacing. Chairman Session I: "Phased RF Ablation of Paroxysmal Atrial Fibrillation"; Lecture: "Transeptal Radiofrequency"; Chairman Symposium entitled: "Atrial Fibrillation Ablation: Updating". Rome, Italy. Nov. 27th to Dec. 2nd, 2010.

- Invited Speaker: Atlanta Electrophysiology Summit. Moderator: Session: "Ablation"; Debate: Pro– "Atrial Fibrillation: Should RF Ablation Be First Line Therapy?" Case Study Presentations. Atlanta, GA Nov.20–21.

- Invited Speaker: American Heart Association Scientific Sessions 2010. Lecture: "Improving Point–to–Point Ablation: Remote Navigation Technologies." Chicago, IL. Nov. 13–16, 2010.

- Invited Speaker: Brooke Army Medical Center. Lecture: "Advancement in Complex Ablations." San Antonio, TX. November 5, 2010.

- Invited Speaker: University of Texas, Dept. of Biomedical Engineering. Lecture: "Technologies in Catheter Ablation Procedures: How Can We Make it Easier and Safer." Austin, TX. November 4, 2010.

- Invited Speaker: Advanced Concepts in EP Interactive CRT and EP Workshop. Lecture: "Useful Endpoints of Catheter Based Treatments of Atrial Fibrillation". New York, NY. October 21–23, 2010.

- Invited Speaker: 8th International Symposium on Catheter Ablation Techniques. Lecture: "Catheter Ablation in Heart Failure Patients." Dr. Natale Key Speaker during ISCAT Paris Experts Meeting. Paris, France. October 13–14, 2010.

- Invited Speaker: 5th Annual International Symposium on Ventricular Arrhythmias (NACCME). Lecture: "A Combined Epicardial/Endocardial Approach during VT Ablation" and Moderated discussion; Faculty Panel Discussion: "Clinical Trials in VT Ablation: Where are we? Where are we going?" New York, NY. October 8–10, 2010.

- Invited Speaker: UCLA CME The Heart Rhythm Symposium. Lecture: "Ablation of Persistent and Chronic Atrial Fibrillation." Santa Monica, CA. October 1–2, 2010.

- Co–Director/Co–Chair/Speaker: International Symposium on Interventional EP in the Management of Cardiac Arrhythmias. Lecture: "Robotic Navigation in AF"; Co–Chair: Workshop 4: Advanced Catheter Ablation – New Technologies and Intervention Targets; Co–Chair: Session VII: Clinical Trials; Lecture: "Randomized Controlled Trials & Registries for AF: A Look Back and the View Forward." Newport, RI. September 23–26, 2010.

- Invited Speaker: SCRIPPS 2nd Annual Percutaneous Catheter Ablation of Atrial Fibrillation: How to Incorporate this Therapeutic Option into Your Practice Conference. Lecture: "Avoiding and Managing the Complications of Afib Ablation". San Diego, CA. August 21, 2010.

- Invited Speaker: Cardiostim 2010. Debate: "Atrial Fibrillation Should Be Used as Primary Therapy for Patients with Typical Atrial Flutter". Nice, France. June 15–18, 2010.

- Invited Speaker: Heart Rhythm Society 31st Annual Scientific Sessions. NACCME Symposium Lecture: "Derived or Measured? Various Approaches to Assess Contact Force"; HRS Debate: "Cardiac Surgery is Superior to Cath Ablation for Medically Refractory Afib". NACCME Symposium Co–Chairman and Introduction: "Innovative Therapy for the Management of Complex Arrhythmias". NACCME HRS Breakfast Symposium: Lecture: "Hubble, Bubble, Toil and Trouble: Selecting the Tool for an AF Ablation." Denver, CO. May 12–15, 2010.

- Invited Speaker: SCRIPPS 3rd Annual Sudden Cardiac Arrest Conference. Lecture: "Atrial Fibrillation and SCA Risk". San Diego, CA. April 18, 2010.

- Invited Speaker: TriStar Focus on Heart Cardiovascular Symposium. HCA Hospital System Nashville. Lecture and Panel: "Guest Lecture: Future of Ablation Therapies & Current Research Projects" followed by Panel Discussion. Nashville, TN. April 17, 2010.

- Invited Speaker: Navigating the Maze: Techniques and Outcomes for Atrial Fibrillation Ablation. Sponsored by AtriCure. Lecture: 1) HRS/EHRA/ECAS 2007 Consensus Statement: Reality or Fairy Tale"; Lecture: 2) "Hybrid Procedure: EP Perspective". Barcelona, Spain. April 10–13, 2010.

- Invited Speaker: ACC.10 59th Annual Scientific Session. Co–Chair/Debate Panelist: Meet the Experts – Session Title: "Management of Sustained Ventricular Tachycardia". Atlanta, GA. March 13–15, 2010.

- Invited Speaker: 2nd European Cardiac Course 2010. 1) Moderator: Cardiac Course Session 4 – New Approaches to AF Ablation; 2) Lecture: Cardiac Course Session 5 – "State of the Art of Catheter Ablation". Maastricht, Netherlands. February 26, 2010.

- Invited Speaker/Course Director: Dual Endocardial – Epicardial Approach for the Treatment of AF: The Maastricht Experience. AtriCure Satellite and Live–Case. 1) Moderator: Live Case presentation; 2) Lecture: "Key Anatomical and Electrical Considerations for Persistent AF Patients". Maastricht, Netherlands. February 25, 2010.

- Invited Speaker: Role of Surgery for the Treatment of Atrial Fibrillation: Evidence and Perspectives. AtriCure CME Satellite Program. 1) Welcome and Introductions; 2) Lecture: "Catheter Ablation Results & Current Challenges". Fort Lauderdale, FL. January 24, 2010.

- Invited Speaker: Atrial Arrhythmia Summit. NASA, Space Medicine Division. Lecture: "Current Techniques for Treatment of Atrial Arrhythmia". Houston, TX. January 22, 2010.

- Invited Speaker: TCAI Atrial Fibrillation Outreach Seminar. Houston, TX. January 21, 2010.

- Invited Speaker: Fifteenth Annual Boston Symposium on Atrial Fibrillation. 1) Debate: (Against) "Termination of AF is a Useful Procedural Endpoint and Predictor of Outcome for Catheter Ablation of Persistent AF"; 2) Lecture: "Safety of Uninterrupted Warfarin Use in AF Ablation" and 3) Panel and Audience Discussion; 4) Lecture: "Current Status of Remote and Robotic Navigation for AF Ablation". Boston, MA. January 13–17, 2010.

- Invited Speaker, Chairman: Dual Epicardial/Endocardial Ablation for Persistent AF Patients (DEEP AF): FDA Clinical Trial Development and Site Recruitment Meeting. AtriCure Symposium. 1) "Introduction and Meeting Objectives"; 2) Lecture – "Catheter Ablation for Long Standing AF: Techniques and Success Rates". Boston, MA. January 15, 2010.

- Invited Speaker: Boston Scientific EP Fellows Program. 1) Lecture: "AF Ablation: Critical Review of Techniques"; 2) Debate: (Against) "Remote Navigation is Necessary"; 3) Case Presentation. Boston, MA. January 14, 2010.

- Invited Speaker: Safety of Atrial Fibrillation Ablation Registry Initiative (SAFARI) Thinktank. 1) Moderator: Topic 1 – Questions to be addressed to SAFARI; 2) Panelist. Boston, MA. January 13, 2010.

- Invited Speaker: Advanced Concepts in Electrophysiology. 1) Lecture: "Session 3: Arrhythmia Quiz – Are You Ready for the Real World?"; 2) Lecture: "Atrial Fibrillation: General Principles/Paroxysmal"; 3) Lecture: "LA Tachycardia Post–AF Ablation"; 4) Panel: "Open Panel Discussion"; 5) Lecture: "Session 6: Difficult Management Decisions: Gray Hairs for Gray Zones." New York, NY. December 11–12, 2009.

- Invited Course Director, Chairman, Speaker: AF VT VF Summit 2009. 1) Chairman Session Title: "Current and Emerging Technologies in AF Ablation Session"; 2) Lecture: "Pre–Recorded Case of PAF ablation"; 3) Lecture: "Role of Remote Navigation in AF Ablation"; 4) Chairman: VT Ablation Session; 5) Fellows Interactive Session: "ECG's and Intracardiac Tracings". Chicago, IL. December 4–5, 2009.

- Invited Speaker: Manejo de las Arritmias Cardiacas en el Nuevo Milenio IV: y Tercer Simposio Latinoamericano de Insuficiencia Cardiaca. Lecture: "Ablación de la Fibrilación Auricular en los pacientes con Insuficiencia Cardiaca." Buenos Aires, Argentina. November 27–30, 2009.

- Invited Speaker: Advances in Cardiac EP World Congress. Debate: Pro – "Ablazione della fibrillazione atriale: una terapia per casi selezionati?" Rome, Italy. November 21–24, 2009.

- Invited Speaker: Curso Internacional De Arritmias De Caracas (CIAC). 1) Lecture: "Atrial Fibrillation"; 2) Lecture: "Substrate ablation: persistent and permanent atrial fibrillation"; 3) Lecture Arrhythmias post atrial fibrillation ablation". Caracas, Venezuela. November 7, 2009.

- Invited Speaker: Scripps Clinic 2009 20th Annual Coronary Interventions. Lecture: "Afib Ablation Update: What the Busy Cardiologist Needs to Know". San Diego, CA. October 30, 2009.

- Invited Speaker: Asia Pacific Heart Rhythm Society (APHRS). 1) Lecture: "Catheter Ablation of

AF in Patients with Heart Transplantation/Permanent Left Superior Vena Cava"; 2) Lecture: "Role and Prevalence of Non PV Triggers after Posterior Wall Isolation"; 3) Debate: (Cons) "The More Ablation Lesions, the More Proarrhythmic? " Beijing, China. October 22–25, 2009.

- Invited Speaker: 4th Int'l Ventricular Arrhythmias: Pathophysiology and Therapy. Lecture: "CEASE VT". Philadelphia, PA. October 10, 2009.
- Co–President: Venice Arrhythmias 2009, 11th Int'l Workshop on Cardiac Arrhythmias. 1) Plenary Lecture – Opening Ceremony workshop Inauguration; 2) Chairman: Session: Arrhythmia Clinical Trials Update 2009. Prevention of AF Trials: Drugs and Ablation; 3) Lecture: "Mapping and Ablation of Atrial Tachycardia/Flutter in Congenital HD"; Chairman: Venice Chart – Consensus Document on VT/VF Ablation. Ablation of VT/VF Patients without Structural HD: Techniques and Results; 4) Lecture: "Polymorphic VT, Idiopathic VF"; 5) Chairman: St. Jude Medical – Middle East Luncheon Panel: "Rarely–Talked–About Issues in Pacing"; 6) Lecture: "What are the Unsolved Challenges?"; Debate: (Pro)"Catheter Ablation Should be Preferred to Ablate and Pace Therapy in Drug Refractory AF"; Venice, Italy October 2nd – 8, 2009.

- Invited Speaker: South Florida EP Society Electrophysiology Forum. Dr. Natale Guest Speaker: "Atrial Fibrillation Ablation in the Real World – Implications of Private Practice". Fort Lauderdale, FL September 24–25, 2009.

- Invited Speaker: ESC Barcelona. 1) Lecture: "Epicardial Ablation for Ventricular Tachycardia". Boston Scientific's Fellows Program. 1) Moderator: "Patient Live Case: Ablation of Atrial Fibrillation". 2) Debate: "Approaches to AF Ablation: Cryoablation is Superior to Radiofrequency Ablation" (Dr.Natale Contra). 3) Discussion: "AF Ablation Based on Cases from Faculty". Barcelona, Spain. August 26–Sept. 2, 2009.

- Invited Speaker: Kansas City Heart Rhythm Symposium, University of Kansas Medical Center. Lecture: "Technical Challenges in AF Ablation 2009: Percutaneous Catheter Ablation is Superior to Surgical Ablation"; Panelist: Panel Discussion. Kansas City, KS. July 11–12, 2009.

- Invited Speaker/Chairman: EUROPACE. 1) Lecture: "Ablation of a Trigger May Prevent Ventricular Fibrillation"; 2) Lecture: "Re–isolation of the Pulmonary Veins." Controversies in Ablation, St. Jude Med. Satellite Mtg – "Ablation of CFAE Sites in AF and Nest in Sinus Rhythm". Berlin, Germany. June 21–25, 2009.

- Invited Speaker: Heart Rhythm Society AF Summit – Lecture: "Ablation of CFAE Sites in AF and Nests in Sinus Rhythm: Concordance, Discordance, or Total Disconnect?" Panelist: "Panel of Pundits: Are We Better off than Four Years Ago? What is the Best Approach?" Discussant: Integrated Image–Guided AF Ablation: From Extended Linear to Robotically–Guided to Extra–Corporeal Ablation." HRS – Panelist: "AF Live Case Presentation: AF Ablation". Chairman: Core Curriculum Session Title: "Dealing with Post–AF Ablation AT and AFL". Associate Justice: "Robotically Directed Ablation of Atrial Fibrillation". Lecture: "Robotic Sheath Guided Ablation: From AF to VT". Boston, MA. May 11–17, 2009.

- Invited Speaker: Safety Evaluation of Atrial Fibrillation Ablation Using a Collaborative Pan–Stakeholder Critical Path Registry Model: A Cardiac Safety Research Consortium 'Incubator' Thinktank. Lecture Session: Short and Long–Term Safety & Efficacy Outcomes for Afib Ablation: Reaching Consensus on Definition(s) & Data Capture. Lecture Title: "Academic/Professional Society View". FDA Campus, Silver Spring, MD. April 27–28, 2009.

- Invited Speaker/Chairman: Mediterranean Cardiology Meeting. Plenary Lecture by Satellite: "Practice of Interventional Electrophysiology in the 21st Century." Taormina, Italy, April 26,

2009.

- Invited Speaker: American College of Cardiology 2009 58th Annual Session. Session: Atrial Fibrillation and Congestive Heart Failure: Mgmnt Strategies: Lecture: "Role of Afib Ablation in the Congestive Heart Failure Patient". Orlando, FL, March 29–31, 2009.

- Invited Speaker: Percutaneous Catheter Ablation of Atrial Fibrillation: How to Incorporate this Therapeutic Option into your Practice. Lecture: "Afib Ablation Techniques and Outcomes with Video Demonstrations – The "Natale" Approach"; Panelist – 1st Panel Discussion Q/A; Panelist – 2nd Panel Discussion Q/A. San Diego, CA, March 7, 2009.

- Invited Speaker: State of the Art of Ablation of AF Dallas Symposium. Chairman – Session I; Participant Roundtable: "The Consensus Statement suggested indications, patient selection, energy sources, definition of success, and how to report outcomes. What impact has the statement had on the practice of ablation and the reporting of outcomes?"; Participant – Session II; Panelist – Part II – Panel Discussion. Dallas, Texas March 6, 2009.

- Invited Speaker: Electrophysiology 2009: Straight Talk from the Experts. Lecture: "Ablation of Persistent Atrial Fibrillation"; Approach to the Recurrence of AF and Atrial Tachycardia". Snowbird Alta, UT, February 27 – March 2, 2009.

- Invited Speaker: Cardiorhythm 2009. Atrial Fibrillation (Ablation): Session 1 Lecture: "Atrial Fibrillation Ablation Techniques and Outcomes"; AFib (Ablation): Session 3– Case–Based Tutorial. Lecture: "Ablation with Robotic Navigation" Case–Based tutorial. Hong Kong, February 20–22, 2009.

- Invited Speaker: St. David's Medical Center, Texas Cardiac Arrhythmia Institute. CartoSound TCAI Training Program. Lecture: CartoSound – "Complex Left Sided Ablations". St. David's Medical Center, Texas Cardiac Arrhythmia Institute. Austin, TX, January 20, 2009.

- Invited Speaker: Boston Afib Symposium. EP Fellows AF Summit – Lecture: "Warfarin is not needed after successful ablation"; Panel: Case Presentations in AF "Tough Mgmnt Decisions In and Out of the EP Lab"; NACCME Satellite Dinner Mtg – Lecture: "Treatment Options for the AF Patient"; Boston Afib Morning Scientific Session – Satellite Case Transmissions: "Cath Ablation Afib" Panel discussion during the two case transmissions; NACCME Lunch Symposium – Lecture: "The 5 Most Important Steps of an Afib Program Outside of an Academic Setting"; Boston Afib Scientific Session – Panel + audience discussion: "Difficult Cases in AF Management"; Biosense Webster Dinner Symposium: Luminary Circle Mtg – Lecture: "RAAFT Update"; Panel: "AF Clinical Evidence"; Boston Afib Scientific Session – Debate: Magnetic vs. Robotic Navigation for Cath Ablation of AF – Lecture: "Robotic Navigation is Preferable to Magnetic Navigation for Guiding AF Ablation". Boston, MA, January 14–17, 2009.

- Invited Speaker: 5th International Cardiac Congress of Saud Al–Babtain Cardiac Center. Chairman: "Atrial Fibrillation Ablation"; Lecture: "AF Ablation in Patients with Impaired LV Function"; Chairman: "Atrial Fibrillation Ablation"; Lecture: "Strategies for Ablating Chronic Atrial Fibrillation". Dammam, Kingdom of Saudi Arabia, January 10–13, 2009.

- Invited Speaker: NACCME Webarchive. Pre–Recorded Presentation: "The Use of Remote Robotic Navigation in Complex Arrhythmias". Austin, TX, January 5, 2009.

- Invited Speaker: Annual Electrophysiology in the West Summit Conference. Stanford University Medical Center. Panel: "Epicardial Access for Ablation: Cases"; Panel: "Anatomic Mapping

Cases: Tips, Tricks, and Traps"; Lecture: "Atrial Fibrillation – The Toughest Cases"; Lecture: "Creating an Arrhythmia Research and Clinical Program". Monterey, CA, December 5–7, 2008.

- Invited Speaker: XIII International Symposium on Progress in Clinical Pacing. Opening Ceremony Magistral Lecture: "The Evolution of Complex Arrhythmia Ablation in the Last Decade"; Chairman: "In the Heart of Atrial Fibrillation"; Panel: Surgical Treatment of Atrial Fibrillation – "Epicardial Approach". Rome, Italy, December 2–5, 2008.

- Invited Speaker: 1st Asia–Pacific Heart Rhythm Society Scientific Session. Lecture: "Recurrent AF and Incessant Atrial Tachycardia after AF Surgery"; Panelist: "Live Transmission"; Lecture: "3–5th Procedure"; Lecture: "Left atrial size more than 6 cm". Singapore, November 27–30, 2008.

- Invited Speaker: Kaiser Permanente 10th Annual National Cardiovascular Medicine and Surgery (COAST) Conference. Lecture: "What's New with Catheter Ablation Therapy"; Lecture: "Management of Perioperative Atrial Fibrillation". Anaheim, CA, October 10–12, 2008.

- Invited Speaker: 3rd Annual Int'l Symposium on Ventricular Arrhythmias: Pathophysiology and Therapy. Lecture: "Catheter Ablation of PVC – Triggered VF: Technical Considerations and Outcome"; Panel Discussion: "OTVT Ablation"; Panel Discussion: "Clinical Trials in VT Ablation". Miami, FL, October 24–25, 2008.

- Invited Speaker: Clinical Applications & Beyond: Physician Training Seminars, St. Jude Medical. Lecture: "Evolution of AF Ablation Techniques–What's Working & Case Reviews"; Lecture: "Incorporating Remote Robotic Navigation into EP Procedures". Las Vegas, NV, October 23–26, 2008.

- Invited Speaker: Life Rhythm Symposium. Lecture: "Present and Future of the Ablation Transcatheter of Atrial Fibrillation". Bari, Italy, September 16–21, 2008.

- Invited Speaker: 1st Annual Intermountain – HRS Virtual AF Symposium. Lecture: "How Andrea Natale Ablates Atrial Fibrillation: Lessons Learned after Thousands of Cases". Salt Lake City, UT, September 9–10, 2008.

- Invited Speaker: Biosense–Webster, Albert Enstein Arrhythmia Center Symposium. "State of the Art: Catheter Ablation of Afib", Clinical Case Presentation: Debate: "Proper Techniques of Mapping, Intracardiac Echocardiography, Esophageal Thermometry, Epicardial Ablation". Sao Paulo, Brazil, 29–30 August, 2008.

- Invited Faculty: Meet the Masters; A Program for Heart Rhythm Management Fellows, Advances in Heart Rhythm Management. Debate: Contra: "Approaches to AF Ablation: Cryoablation is Superior to Radiofrequency Ablation". Munich, Germany, August 27–29, 2008.

- Invited Speaker: 20th Annual Cardiovascular Invitational, Akron General Medical Center. "Common Arrhythmias, New Therapies", Akron, OH, July 30, 2008.

- Invited Speaker: St. Jude Medical Center, Dallas Atrial Fibrillation Roadshow. "Evolution of AFib". Dallas, TX, July 17, 2008.

- Invited Speaker: Biosense–Webster Board Meeting. "Unmet Needs in Complex Ablations." Diamond Bar, CA, July 14, 2008.

- Invited Speaker: Cardiostim 2008 16th World Congress in Cardiac Electrophysiology and Cardiac

Techniques. Debate: Protagonist: "Left Atrial Ablation Should Be Used as Initial Therapy for Patients with Atrial Fibrillation," "Assessment of Left Ventricular Function and Pathology," "Re–Isolation of PVs," Co–Chair: "Setting Up an Atrial Fibrillation Clinic." Nice, France, June 18–21, 2008.

- Invited Speaker: First Annual Conference Europe AF 2008. "How to Get the Most Out of ICE". London, England, June 15–16, 2008.

- Faculty: First International Atrial Fibrillation Symposium. "Radiofrequency Ablation of Permanent and Persistent AF," "New Methods of Transcatheter Ablation of AF," "The Future of Curative Therapy of AF." Santiago, Chile, June 12–13, 2008.

- Invited Speaker: World Congress of Cardiology. "Strategies and Results of Catheter Ablation of Atrial Fibrillation," "Atrial Fibrillation: Catheter Ablation as First Line Treatment?" Buenos Aires, Argentina, May 18–21, 2008.

- Program Committee Member, Invited Speaker: Heart Rhythm 2008 29th Annual Scientific Sessions. Discussant: "Ablation for recurrent Ventricular Fibrillation (pre–recorded case presentation)," "Sinus Rhythm Nests vs Complex Fractionated and High Frequency EGM: What Do They Mean?," Panelist: "The Most Important Developments of the Past 6 Months; Most Important Trends for the Next Year," Antagonist: "Robotic Guided AF Ablation is Preferrable to Point By Point Human Catheter Manipulation." San Francisco, CA, May 14–17, 2008.

- Keynote Lecturer: 3rd Annual Canadian Atrial Fibrillation and Complex Ablation Alliance (CAFCAA) Meeting. "AF Ablation in 2008: Which Lesion Se for Which Patient and Why." Vancouver, British Columbia, April 25–26, 2008.

- Invited Speaker: Emerging Leaders in Electrophysiology. "AF therapies, AF ablation, techniques, risks and benefits," Participant: "Case studies of difficult management problems." Atlanta, GA, April 11–13, 2008.

- Co–chair and Invited Speaker: 57th Annual Scientific Session of the American College of Cardiology. "Live Case Session: Remote Navigation Technology for Electrophysiology Procedures," "Future Technologies and Techniques for Atrial Fibrillation Catheter Ablation." Chicago, IL, March 29–April 1, 2008.

- Invited Speaker: Ventricular Arrhythmia and Sudden Death Symposium. "Ablation of ventricular fibrillation," "Ventricular tachycardia ablation and surgery," "How to perform epicardial VT ablation." San Francisco, CA, March 14–16, 2008.

- Invited Speaker: Denver Clinical Leader Summit. "How to safely and successfully treat atrial fibrillation." Denver, CO, March 1–2, 2008.

- Invited Speaker: 35th International Congress of the Egyptian Society of Cardiology. "How to select ablation strategies and endpoints," "Should AF ablation be the first strategy for symptomatic AF," "Ablation of VF storm in patients with structural heart disease," Cairo, Egypt, February 27–28, 2008.

- Cardiology Grand Rounds, Columbia University. "The evolution of catheter ablation for atrial fibrillation" New York, NY, February 26, 2008.

- Cardiology Grand Rounds, Mount Sinai Hospital. "Catheter ablation of atrial fibrillation and case

presentations." New York, NY, February 25, 2008.

- Invited Speaker: Rome Cardiology Forum. "Recent advances in cardiac defibrillators." Rome, Italy, January 23–25, 2008.

- Invited Speaker: Biosense–Webster Advisory Council Meeting. Boston, MA, January 20, 2008.

- Invited Speaker: 13th Annual Boston Atrial Fibrillation Symposium. Moderator: "Live Case Demonstrations: Catheter Ablation for Atrial Fibrillation," Panelist: "Improving the Safety of Catheter Ablation," Panelist: "Difficult Cases in AF Ablations." Boston, Massachusetts, January 17–19, 2008.

- Invited Speaker: Today's Tools: Impact on Safety and Efficacy of Ablation. "Case presentation on the Value of ICE." Biosense–Webster, Stereotaxis and Medtronic Evening Symposium. Boston, MA, January 17, 2008.

- Invited Speaker and Moderator: Siemens Syngo, Dyna CT Symposium. Boston, MA, January 17, 2008.

- Invited Speaker: RAAFT Study Investigator's Meeting. Boston, MA, January 17, 2008.

- Invited Speaker: Co–Chair: Insights into the Optimal Treatment of Atrial Fibrillation. St. Jude Medical evening Symposium, Boston, MA, January 17, 2008.

- Invited Speaker: Endosense Scientific Advisory Board Panel Meeting. Boston, MA, January 17, 2008.

- Invited Speaker: Biosense–Webster and Medtronic Afib Advisory Panel Meeting. Boston, MA, January 16, 2008.

- Invited Speaker: World Congress on Cardiac Pacing and Electrophysiology 2007. "Imaging in Electrophysiologic Procedures: A Novelty or Necessity (Chair), "Debates on Ablation of Atrial Fibrillation" (Chair), "Future Technologies; Stents, Cell Technology", "Future Indications of Ablation and Anti–Arrhythmics in the Management of Atrial Fibrillation", "Pulmonary Vein Disconnection: Relationship to Recurrent Atrial Fibrillation", "Cryoablation for Ventricular Tachycardia's: What are the Advantages". Rome, Italy, December 2–6, 2007.

- Invited Speaker: The New York Clinical EP Symposium 2007. Boston Scientific; "The Great Holiday Debate: Afib Ablation Requires Linear Lesions and Elimination of Fractionated Electrograms for Long Term Success", "Interactive Case Studies on VT Ablation Techniques for Idiopathic VT". "How the Cleveland Clinic Avoids Complications and Anticoagulates During AF Ablation". New York, NY, November 30–December 2, 2007.

- Invited Speaker: American Heart Association Scientific Sessions 2007. "Clinical Practice 2007: Catheter Ablation of Atrial Fibrillation – State of the Art from Five Different Laboratories: The Antral Ablation Approach." Orlando, FL, Nov 2–5, 2007.

- Invited Speaker: Fifth International Symposium on Interventional Electrophysiology in the Management of Cardiac Arrhythmias. "VT Ablation in Right Ventricular Dysplasia and Epicardial Approaches to Ventricular Tachycardia Ablation"; "Catheter Ablation of Persistent and Permanent AF"; Chairman – Workshop 3 – Advanced Catheter Ablation – New Technologies and Intervention Targets". Bonn, Germany, October 25–27, 2007.

- Invited Speaker: 3rd Asia Pacific Atrial Fibrillation Symposium. Lectures: "New Technology of AF Ablation I; "New Technology of AF Ablation II; "Meet the Expert–5: Chronic AF Ablation Endpoint"; Luncheon Symposium V. Stereotaxis; "How to Find, Prevent, and Treat the Complications of AF Ablation?"; Evening Symposium I, St. Jude Medical. Taipei, China, October 18–20, 2007.

- Co–President: Venice Arrhythmias 2007 10th International Workshop on Cardiac Arrhythmias. Program Chairman – "Atrial Fibrillation Ablation"; Program Chairman – "A Case of Complex Mapping and Ablation Performed with Stereotaxis Remote Magnetic Technology"; Lecture – "Challenges to Adopt Recommendations on AF Ablation"; Lecture – "Comparing Different Approaches". Venice, Italy, October 7–10, 2007.

- Invited Speaker: Atrial Fibrillation and Ventricular Arrhythmia Management. "Identification and Ablation of Non–PV Foci in Paroxysmal AF"; "Early and Late Recurrence of AF Post AF Ablation: Mechanisms, Electrophysiologic Findings and Therapeutic Considerations"; "Magnetic and Robotic Navigation in AF Ablation". Milwaukee, WI, September 7–8, 2007.

- Invited Speaker: European Society of Cardiology. "Point/Counterpoint: Management Decisions in AF: Rate or Rhythm? Antiarrhythmics or Ablation?; "Antral Ablation Using the Circular Mapping Catheter". Vienna, Austria, August 31 – September 2, 2007.

- Invited Speaker: Advances in Heart Rhythm Management. Debate: "The Preferred Approach to AF Ablation is Circumferential PV Isolation". Vienna, Austria, August 30–31, 2007.

- Invited Speaker: Congreso Tópicos Selectos 2007 En Enfermedades Cardíacas Y Vasculares "Atrial Flutter: Typical, Atypical and Left Atrial Flutter"; "Paroxysmal and Chronic Atrial Fibrillation". Medellín, Colombia, August 22–25, 2007.

- Invited Speaker: Clinical Applications and Beyond: Physician Training Seminar. St. Jude Medical. "Advanced Mapping / Navigation in Catheter Based Management of AF." San Francisco, CA, August 2–5, 2007.

- Invited Speaker: 5th China Atrial Fibrillation Symposium (CAFS) 2007. "The Impact of Different Catheter Based Treatments for Permanent Longstanding Afib"; "Live Demo, Case 2 Paroxysmal AF". Beijing, China, July 5–8, 2007.

- Invited Speaker: EUROPACE, Meeting of the European Heart Rhythm Association. "How to Prevent Complications of Catheter Ablation of Atrial Fibrillation"; "Thromboembolic Events". Lisbon, Portugal, June 24–26, 2007.

- Invited Speaker: Second All – Russian Congress on Arrhythmology. "The Evolution of Ablation Strategies for Chronic Atrial Fibrillation" Moscow, Russia, June 13–14, 2007.

- Invited Speaker: MEDSCAPE Best Practices – A Case Study Perspective. "Case Study with Audience Participation"; and "Closing Remarks". Cleveland Clinical Foundation. Cleveland, OH, May 18, 2007.

- Invited Program Committee Member, Program Chairman, Co–Moderator, Speaker: Heart Rhythm 2007 28th Annual Scientific Sessions. Afib Ablation Clinical Outcomes: A Tour of the World: "Ultra–Wide Area Circumferential Ablation: The CCF Experience and Future Expectations"; Co–Moderator – Dinner Symposium – New Era for Complex Ablation:

"Controversies in AF Ablation"; Expert Commentator for the Oral Abstract Session: "New Frontiers in Ablation of AF"; Program Chairman – HRS Satellite Dinner Meeting: "AF Symposium: Deciphering the Mystery"; Strategies for Ablation of Chronic Atrial Fibrillation I: "Comparing Different Strategies"; 2008 Program Committee Member: HR 2008 Scientific Sessions Program Committee Meeting; Highlights of Heart Rhythm 2007 – "Catheter Ablation". Denver, CO, May 9–13, 2007.

- Invited Speaker: CardioFocus ENABLE Investigators' Meeting. "EAS Feasibility Results". Denver, CO May 8, 2007.

- Cardiology Grand Rounds, MetroHealth System. "Catheter Based Management of Atrial Fibrillation: When, How, and Who". Cleveland, OH, May 2, 2007.

- Invited Speaker: Ventricular Arrhythmia and Sudden Death Symposium San Francisco. "Ablation of Ventricular Fibrillation" and "Live Cases from Cleveland Clinic". San Francisco, CA April 20–22.

- Cardiology Grand Rounds, Methodist Hospital. "The Evolution of Catheter Based Treatment of Atrial Fibrillation. Houston, TX, April 5, 2007.

- Invited Chairman and Speaker: ACC 20th Scientific Session i2 2007 Summit: Innovation in Intervention. Speaker: "Ablation as First Line Therapy; Session IV Discussion. Symposium Chairman: "Atrial Fibrillation Ablation: Live and Video Case Presentations". New Orleans, LA, March 24–27, 2007.

- Invited Speaker: ABC 20th Annual Scientific Sessions "Ablation as First Line Therapy". New Orleans, LA, March 24, 2007.

- Invited Speaker: Australian Electrophysiology Symposium "Target and Endpoints for Afib Ablations"; "Ablation of Ventricular Fibrillation Storms" Sydney, Australia, March 2–4, 2007.

- Invited Speaker: Primer Simposio Internacional De Fibrilacion Auricular: Epidemia Del Nuevo Milenio. "Live Cases" Bogotá Columbia, February 22–24, 2007

- Course Director: EP Fellows Winter Symposium "Welcome & Course Objectives"; "AF Ablation: Targets & Endpoints"; "Day One Wrap–up"; "Unknown EKG"; "Q&A Session". Miami, FLFebruary 16–18, 2007.

- Invited Speaker: CardioRhythm 2007 Plenary Session I: "Ablation of Atrial Arrhythmia in Congenital Heart Disease" How to Session I: "How to Select Ablation Strategies and Endpoints?" Evening Symposium I: "Antrum Isolation"; Satellite Symposium I: "How to Select Ablation Strategies & Endpoints"; Debate Session I: "Should AF Ablation be the First Strategy for Symptomatic AF?" Hong Kong, February 2–4, 2007.

- Invited Speaker: Cardiology Grand Rounds, University of California. San Diego, CA, January 29, 2007.

- Invited Speaker: 12th Annual Boston Atrial Fibrillation Symposium. "Live Case Demonstrations: Catheter Ablation for Atrial Fibrillation"; "Targeting Sources of AF Based on Electrogram Characteristics During NSR"; "Minisymposium: Update on Clinical Outcomes with Laser Ablation for AF"; Panel: "What Do We Do in Our EP Lab in 2007 – Case Scenarios and Audience Discussion." Boston, MA, January 11–13, 2007

- Faculty Member: 2006 New York Cardiovascular Symposium. "The Catheter Ablation as Compared to the Surgical Cox Maze Procedure in the Treatment of Atrial Fibrillation." Panel discussion with Drs. Valentin Fuster, Eric Prystowsky and Jonathan Halperin. New York, NY, December 8 – 10, 2006.

- Late Breaking Clinical Trial: Khan M, Jais P, Cummings JE, Sanders P, Kautzner J, Hao S, Themistoclakis S, Fanelli R, Potenza D, Belden W, Wazni O, Wang P, Al–Ahmad A, Beheiry S, Pisano E, Santarelli P, Starling R, Dello Russo A, Pelargonio G, Brachmann J, Gunther J, Bonso A, Raviele A, Haissaguerre M, **Natale A**. Randomized Controlled Trial of Pulmonary Vein Antrum Isolation vs. AV Node Ablation with Bi–Ventricular Pacing for Treatment of Atrial Fibrillation in Patients with Congestive Heart Failure (PABA CHF). Presented as a Late–Breaking Clinical Trial at the Scientific Sessions of the American Heart Association, November 2006, Dallas, TX.

- Member of the Editorial Board: Journal of the American College of Cardiology Editorial Board Meeting and Reception, Chicago Hilton, Chicago, IL, November 13, 2006.

- Faculty Member: Atrial Fibrillation: The State of the Art. Division of Cardiology, and the Heart Rhythm Society Mtg. Catheter Ablation of AF (3): "Antrum Isolation." Marina del Rey, CA, October 27 – 29, 2006.

- Invited Speaker: Biosense Webster VT Advisory Panel Meeting. Harborview Ballroom at Seaport World Trade Center, Boston, MA, October 15, 2006.

- Faculty Member: National Physician Education Program. Speaker: "How to Safely and Successfully Ablate A Fib." San Francisco, CA, October 14, 2006.

- Faculty Member: An International Symposium on Ventricular Arrhythmias: Pathophysiology & Therapy. Jointly sponsored by Academy for Health Care Education, Massachusetts General Hospital, and Hospitals of the University of Pennsylvania. "Catheter Ablation of 'Focal' Ventricular Fibrillation." Seaport Hotel & Conference Center at the World Trade Center, Boston, MA, October 13 – 14, 2006.

- Scientific Committee: 6th International Symposium on Catheter Ablation Techniques: "Focus on the Fibrillating Heart." "Optimal therapeutic strategy in heart failure patients." Meridien Montparnasse, Paris, France, October 11 – 13, 2006.

- Invited Speaker: Joint CC–Fundacion Cardioinfantil Symposium. "Percutaneous Pulmonary Vein Isolation – State–of–the–Art." Bogota, Colombia, September 28–29, 2006.

- Faculty Member: Atrial Fibrillation & Ventricular Arrhythmia Management: Including Insights into CT Fluoro Image Integration, Ablation & Device Therapy. Atrial Fibrillation: "Early and Late Recurrence of AF Post AF Ablation: Electrophysiologic Findings and Therapeutic Considerations"; "Energy Sources for AF Ablations: Current and Future Directions." Milwaukee, WI, September 25 – 26, 2006.

- Invited Speaker: Atrial Fibrillation Ablation: Seminario sull'Ablazione della Fibrillazione Atriale 2006. Italian Congress AFA. "Presente e Futuro dell'ablazione della FA: La Prospettiva Americana." Napoli, Italy. September 22 – 23, 2006.

- Invited Speaker/Summit Co–Director: 4th Annual Atrial Fibrillation Summit. Welcome and

Dedication to Antonio Pacifico. Debate: Randomized Controlled Trials are Necessary for AF Ablation to Become First Line (Con). Debate: Asymptomatic AF is a Significant Concern Post PVI (Con). Discussion: Case–Based Discussion/Audience Participation. Discussion: Expert/Panel/Discussion (Chair). Cleveland Clinic Atrial Fibrillation Innovation Center. Aspen, CO, September 14 – 17, 2006.

- Faculty Member: 10th Annual Scientific Meeting of the HFSA. Heart Failure Society of America. Session: Atrial Fibrillation in Heart Failure: "The Evolving Role of Ablation." Washington State Convention & Trade Center, Seattle, WA, September 10 – 13, 2006.

- Invited Speaker: CardioFocus. Venice, Italy, September 2–5, 2006.

- 28th Annual Scientific Sessions Program Committee Specialty Chairs Planning Meeting, Heart Rhythm 2007 Program: Faculty and Topic Conflicts. "Catheter Ablation." Washington, DC, August 18 – 19, 2006.

- Faculty Member: Updates in Cardiac Rhythm Management Summit 2006. Guidant Corporation, Manchester "Updates in Atrial Fibrillation Ablations: When? How? How Good?" San Diego, CA, August 11 – 13, 2006.

- Invited Speaker: XVI Congreso Nacional e Internacional de Cardiología. "Cuando Indicar la Ablación en Pacientes Asintomáticos con SWPW." "Ablación de la Fibrilación Auricular: Selección de Pacientes y Resultados." Riviera Maya, Quintana Roo, Cancun, Mexico, August 2 – 6, 2006.

- Faculty Member: Clinical Applications and Beyond Training Seminar (CAB). St. Jude Medical. "Emerging Trends in Catheter Based Management of AF." San Francisco, CA, July 20 – 23, 2006.

- Faculty Member: 6th Annual Science Innovation Synergy (SIS). Course in Cardiac, Vascular and Neurovascular Therapeutics. Swedish Medical Center. Panel: "Drugs vs. Devices: Which Will Emerge as the Dominant Treatment and What Does It Mean for Clinicians? Lecture: "Rhythm Management" Meydenbauer Conference Center, Bellevue, WA, July 18 – 22, 2006.

- Scientific Advisory Board Member: TAK–442 Global Experts Meeting. Takeda Global Research & Development, The Ritz–Carlton, Chicago, IL, July 12 – 14, 2006.

- Invited Speaker: Cardiology Grand Rounds, University of Pennsylvania Health System, Philadelphia, PA, June 22, 2006.

- Invited Speaker: Congresso Fibrillazione Atriale. Lettura: "Ablazione Della Fibrillazione Atriale: L'evoluzione Nelle Metodiche ha Modificato la Selezione dei Candidati." Lecce, Italy, June 16 – 17, 2006.

- Invited Speaker: Cardiostim 2006. Complex Electrophysiology and Ablation Techniques: 14th World Congress on Catheter Ablation: Atrial Fibrillation – II: "The Clinical Significance of Micro–Bubble Detection During Left Atrial Ablation." Associate Symposia: Asia Pacific Cardiostim Symposium – Controversies in Atrial Fibrillation Management: "Future of Atrial Fibrillation Ablation." Nice, France, June 14 – 17, 2006.

- Faculty Member: Meet the Masters – Current Debates in Heart Rhythm Management: A Program for Heart Rhythm Management Fellows Debate: "The preferred approach to AF ablation is

circumferential PV isolation". Contra: Andrea Natale, M.D. Nice, France, June 11 – 13, 2006.

- Invited Speaker: 2006 Asia Pacific Vascular Leaders' Summit (VLS). Oriental Endovascular Therapeutics (OET). Lecture: "Future Catheter Based Treatments for Atrial Fibrillation"; Live Demo from Zhongshan Hospital, Fudan University, Shanghai Case 1–Operators: **Andrea Natale** and Jianzeng Dong; Panelist: "Catheter Ablation Approaches for AF"; Lectures: "The Importance of Imaging During Interventional EP Procedures"; "Comparing Strategies for Ablation of Chronic Afib"; "Ablation of VF Storms in Patients with Cardiomyopathy"; "Asymptomatic Patient with Pre–Excitation". Shanghai, China, June 9 – 13, 2006.

- Chairman and Faculty Member: Heart Rhythm 2006. the 27th Annual Scientific Sessions of the Heart Rhythm Society. "Ablation of Atrial Fibrillation in Heart Failure: Is this a Curative Approach?"; "Improving Safety and Workflow with Intracardiac Echocardiography in Atrial Fibrillation Ablation"; "Remote Catheter Manipulation and Therapy Delivery"; Mini Courses (Live and Edited Ablations of Atrial Fibrillation). Boston, MA, May 17–20, 2006.

- Invited Speaker: Cleveland Clinic Foundation. Cardiovascular Transcatheter Devices. "Available Devices: Internal Mapping and Ablation". Cleveland, OH, May 4 – 6, 2006.

- Invited Speaker: The Fairview Heart Center 14th Annual Richard W. Watts Cardiology Conf. "Control of Atrial Fibrillation by Pulmonary Vein Isolation." Fairview Hospital, Cleveland, OH, April 29, 2006.

- Invited Speaker: Fundacion Cario–Infantil. (5) Live Cases Bagota, Colombia, April 22, 2006.

- Invited Speaker: Hungarian Institute of Cardiology. The 1st Budapest Symposium on Atrial Fibrillation. "Different Approaches in the Interventional Treatment of Atrial Fibrillation"; Live AFB Cases 1) Ablation Using CARTO Merge Techniques; 2) Intercardiac Echocardiogram Guided PV Antrum Ablation by Using the Mesh High Density Mapping – BARD Catheter; 3) Hybrid approach using Cryo balloon and CARTO Technology. Budapest, Hungary April 6–8, 2006.

- Faculty Member and Section Chairman: Stanford University. Biodesign New Arrhythmia Technologies Retreat. Advances in Catheter and Surgical Ablation. "Atrial Fibrillation Ablation". Stanford, CA March 29 – April 1, 2006.

- Invited Speaker: 2nd European Atrial Fibrillation Summit. "Beyond RF Ablation: The Role of "New" Energies." Barcelona, Spain, March 22–23, 2006.

- Invited Speaker: American College of Cardiology 55th Annual Scientific Session i2 Summit. "Great Debates in Electrophysiology"; "Defibrillation and Implantable Antiarrhythmia Devices"; "Defibrillation and Resynchronization Devices"; Poster: "Is Pulmonary Vein Isolation a Better Therapeutic Option than Atrioventricular Node Ablation and Direct Current Cardioversion?"; "Atrial Fibrillation: Overview of Pathophysiology and Clinical Management"; "Catheter Ablation for Atrial Fibrillation"; "Atrial Fibrillation: Ablative Techniques"; Poster: "Clinical Significance of Early Recurrences of Atrial Fibrillation or Atrial Flutter after Pulmonary Vein Antrum and Superior Vena Cava Isolations". Atlanta, GeorA, March 11–14, 2006.

- Invited Speaker: 9th Prague Workshop on Catheter Ablation. Cases: "AF NavX–Hansen Robotics: (6 cases)"; AF NavX–Hansen Robotics (1 live Case Video Taping)"; Presentation: "Catheter Ablation for Atrial Fibrillation". Prague, Czech Republic, March 2 – 8, 2006.

- Invited Speaker: Electrophysiology Grand Rounds. Sutter Pacific Heart Centers St. Luke's. Greenbrae, CA, February 20, 2006.

- Invited Master Speaker: "Atrial Fibrillation", State–of–the–Art." Catholic University Rome, Italy, February 22–26, 2006.

- Invited Speaker: Cardiology Grand Rounds "Catheter Based Management of Atrial Fibrillation." Duke University. Durham, NC, January 30, 2006.

- Invited Speaker: Cardiac Rhythm Management. "Catheter Ablations." Minneapolis, MN, January 25, 2006.

- Invited Speaker: 11th Annual Boston Atrial Fibrillation Symposium. "Catheter Ablation Should Be First Line Therapy in Selected Patients with Atrial Fibrillation." Boston, Massachusetts, January 13–14, 2006.

- Science Session and Panel Discussion: Shaping the Future of Atrial Fibrillation Management. "Catheter Ablation Using Remote Navigation." Boston, MA, January 12–15, 2006.

- Invited Speaker: UCLA Medical Center. (2) Live Cases and presentation – Grand Rounds Los Angeles, CA January 5–6, 2006.

- Invited Speaker: AF Symposium. "How to Prevent and Treat Complication of AF Ablation." Jeju Island, South Korea, December 2005.

- Invited Speaker: AHA – Scientific Sessions. "How to Session." Dallas, TX, November 2005.

- Invited Speaker: "Echo Guided Approach to Atrial Fibrillation Ablation." San Francisco, CA. November 2005.

- Invited Speaker: 8th Cardiology Congress of Central Greece. "Current Status of Ablation for Atrial Fibrillation." Greece, Athens, October 2005.

- Invited Chairman/Speaker: International Workshop on Cardiac Arrhythmias. Chair Session: "Catheter Ablation of A–Fib: Special Issues." Invited Speaker: "Linear Atrial Lesions Should Be Always Performed in Addition to Circumferential Pulmonary Vein Isolation." Venice, Italy, October 2005.

- Invited Speaker: 2005 Atrial Fibrillation and Ventricular Arrhythmia Management. "Refractory VF Storms with Ischemic Cardiomyopathy–Mechanisms of Initiation and Implications for Catheter Ablation." Milwaukee, WI, September 30, 2005.

- Invited Speaker: EP in Aspen III Southern Colorado Heart Institute & HRS. "Atrial Fibrillation Ablation: The Cleveland Clinic Experience." Panel Discussion: "Is Atrial Fibrillation Ablation Ready for Prime Time?" Aspen, CO, September 23 – 25, 2005.

- Invited Speaker: Atrial Fibrillation 2005. "PV Ablation Revisited After Ten Years Experience: Ablate or Not Ablate." Bologna, September 2005.

- Invited Speaker: Europace 2005 & Institute for Clinical and Experimental Medicine. Live Case Demonstration Telecast to Audience: "Catheter Ablation of Atrial Fibrillation Guided by Intracardiac Echocardiography." Prague, Czech Republic, June 2005.

- Invited Speaker: 5th International Symposium on Advances in Interventional Electrophysiology. "Ablation of Left Freewall Accessory Pathways: Transseptal versus Retrograde Approach." Peoria, IL, June 2005.

- Faculty Member: Rhythm 2005. "Anatomic Approach: Techniques and Results." Cannes, France, June 2005.

- Invited Speaker: Cardiology Grand Rounds, New York University School of Medicine. "Safe and Effective Approach to Ablation of Atrial Fibrillation." New York, NY, May 2005.

- Program Committee Member, Faculty Member/Speaker: Heart Rhythm Society's 26th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology. Mini Course: "Robotic Catheter Manipulation: An Alternative to Magnetic Navigation?" Co–Chair Session I: "New Applications for Echocardiography in the EP Laboratory." Moderator: "Jazzed about Innovation" Symposium. Presenter: Clinical Tutorials Session: "Ablation for AF: Advanced Concepts." Invited Speaker: "Robotic Catheter Manipulation: An Alternative to Magnetic Navigation." Debate (Protagonist): "Controversies in Catheter Ablation: Advanced Anatomic Imaging is required for Adequate Catheter Ablation of Atrial Fibrillation." New Orleans, LA. May 2005.

- Invited Speaker: Cardiology and Vascular Medicine Update and Perspective. "Management of Atrial Fibrillation by Catheter Ablation, Ready for Wide Application?" Rotterdam, Netherlands, April 2005.

- Program Co–Chairman: Current Perspectives on Atrial Fibrillation: A Clinical Management Consultants Forum. "Future Trends of Afib Management." Cleveland, OH, April 2005.

- Invited Speaker: The Rome Teaching Workshop on Interventional Arrhythmology. "Live Procedure – Echo Guided PVS Ablation." (Electrocardiography Diagnosis.) Rome, Italy, March 2005.

- Invited Speaker: 4th Annual Atrial Fibrillation Therapy Symposium. Unsolved Issues: "PV Antrum Approach." New Technologies: "Laser." Vienna, Australia, March 2005.

- Invited Speaker: 54th American College of Cardiology Scientific Session 2005–04–05. Ablation of Atrial Fibrillation: Evolving Techniques and Outcomes Session – "Prevention and Management of Complications." Orlando FL, March 2005.

- Invited Speaker: Gordon Conference. "Mechanisms of Atrial Fibrillation in Man." Buellton, CA, February 2005.

- Invited Speaker: Guidant Clinical Leadership Summit. "Optimal Approaches to Catheter Ablation." Santa Fe, NM, February 2005.

- Invited Speaker: 3rd Annual Practical Electrophysiology Program. "Ablation of Atrial Fibrillation." Las Vegas, NV, January 2005.

- Invited Speaker: 10th Annual Boston Atrial Fibrillation Symposium. "New Insights from Transcranial Doppler and Esophageal Monitoring During AF Ablation Procedure." Boston, MA, January 2005.

- Invited Speaker: 65th Annual Congress of the Italian Society of Cardiology. "Curative Ablation for Atrial Fibrillation. Methods and Outcomes in 2004." Rome, Italy, December 2004.

- Invited Speaker: XXI Brazilian Congress of Cardiac Arrhythmias. "The Ablation of the Pulmonary Vein Antrum and Superior Vena Cava Guided by the ICE: Evidence that Justified its Use"; "Catheter Ablation of Atrial Tachycardias: Focal and Inappropriate Sinus Tachycardia." Belo Horizonte, Brazil, December 2004.

- Invited Speaker: XI International Symposium on Progress in Clinical Pacing. "Pulmonary Vein Stenosis: What to Do?"; "Outflow Tract Ventricular Tachycardia Ablation." Rome, Italy, November 2004.

- Invited Speaker: New Arrhythmia Technologies Retreat. "Epicardial Access." Bloomingdale, IL, October 2004.

- Invited Speaker: 5th International Symposium on Catheter Ablation Techniques. "Importance of Intracardiac Echocardiography during Atrial Fibrillation Ablation Procedures." Paris, France, October 2004.

- Course Co–Director: 2nd Annual Atrial Fibrillation Summit (CCF). Live Case: Pulmonary Vein–Isolation Ablation. Cleveland, OH, October 2004.

- Invited Speaker: The Brazilian Society of Cardiology Annual Scientific Session. "Ablation of Atrial Fibrillation: Importance of Intracardiac Echo." Rio de Janeiro, Brazil, September 2004.

- Invited Speaker: 5th Annual Intensive Review of Cardiology (CCF). "Alternative Therapies for Atrial Fibrillation." Cleveland, OH, September 2004.

- Invited Speaker: ABC and Medtronic National Meeting and Symposium. "Ablating AF: When and How to be Successful." Chicago, IL, September 2004.

- Results of PVI for Patients with Atrial Fibrillation." Interactive Session: "PV Isolation for Treatment of Patients with Atrial Fibrillation." Debate: "Atrial Fibrillation can be cured by Ablating the Trigger." Nice, France, June 2004.

- Invited Speaker: 14th World Congress in Cardiac EP and Techniques Cardiostim. "ICE Ultrasound Guidance of Atrial Fibrillation Ablation: Benefit or Burden"; "Sinus Node Remodeling"; "Long Term
- Results of PVI for Patients with Atrial Fibrillation." Interactive Session: "PV Isolation for Treatment of Patients with Atrial Fibrillation." Debate: "Atrial Fibrillation can be cured by Ablating the Trigger." Nice, France, June 2004.

- Invited Speaker: Biotronik Advanced Physician Education Program. "Advancements in Ablation Technology." Newport, RI. June 2004.

- Invited Speaker: Japanese Society of Cardiac Pacing and Electrophysiology (JASPE). "Management of Ventricular Arrhythmias with Device and Catheter Ablation"; "Catheter Treatment of Atrial Fibrillation." Niigata City, Japan, May 2004.

- Chairman and Invited Speaker: Heart Rhythm Society's 25th Annual Scientific Sessions of the North American Society of Pacing and Electrophysiology. Chairman of Symposium: "Imaging in EP: Present and Future Prospectives." Mini Course: Presenter: "Ablation of Afib: Evolving

Technologies." Transferring 3D Imaging Into the EP Lab: Is It Coming? San Francisco, CA, May 2004.

- Visiting Professor: Medical Conference. Rome, Italy, May 2004.

- Invited Speaker: Great Lakes Fellows Forum. "The Future of Atrial Fibrillation." Cleveland, OH, April 2004.

- Invited Speaker: 5th Congresso Nazionale di Artimologia Associazione Italiana di Artimologia e Cardiostimolazione. "Ablazione Transcatetere Della Fibrillazione Atriale: Selezione Dei Paziente 1 Tecniche." Napoli, Italy, April 2004.

- Invited Speaker: The Japanese Circulation Society 68th Annual Meeting. Plenary Session: "Atrial Fibrillation: From Bench to Bedside." Kyoto, Japan, March 2004.

- Update on Atrial Fibrillation 2004–04–12. Debate: "Catheter–Based Pulmonary Vein Isolation is Ready for Prime Time." Proponent. Coburg, Germany, March 2004.

- Institute for Clinical and Experimental Medicine. Live Case Demonstration Telecast to Audience: Using ICE during PVI/RFA. Prague, Czech Republic, March 2004.

- Grand Rounds, Beth Israel Medical Center. "Atrial Fibrillation." New York City, NY, March 2004.

- Co–Chair: 53rd Scientific Sessions of the American College of Cardiology. Meet the Experts Session: "Epicardial Approach to VT Ablation." New Orleans, LA. March 2004.

- Faculty Member: Venice Cardiac Surgery Congress. Lecture and Live Demonstration: "Catheter Ablation of Atrial Fibrillation." Mestre, Venice, Italy, February 2004.

- Invited Speaker: 4th Annual Conference on Surgical Treatment of Atrial Fibrillation. "Catheter Ablation Techniques for Atrial Fibrillation: Will There Be a Role for Surgery in the Future?" San Antonio, TX, January 2004.

- Faculty Member: 9th Annual Boston Symposium on Atrial Fibrillation. Panel/Debate: "AV Node Ablation Should No Longer Be Practiced in Patients Under 65 Years Old?" Invited Speaker: "First Line Ablation vs. Drug Therapy for Atrial Fibrillation: Preliminary Results of RAAFT." Boston, MA, January 2004.

- Grand Rounds, Saint Joseph Hospital. "New Concepts in Electrophysiology/Electrophysiology in the New Millennium." Laguna Beach, CA, January 2004.

- Invited Speaker: University of Miami School of Medicine. "Atrial Fibrillation: Have We Learned Anything New in its Treatment and Management"; "Treatment Choices in Patients, Reentry VT's, Ischemic and Non–Ischemic: Is There Still a Role for Ablation?" Punta Cana, Dominican Republic, December 2003.

- Invited Speaker: National Congress of Cardiology/SOCIME. "Current Concepts in Atrial Fibrillation." Monterrey, Mexico, November 2003.

- Grand Rounds, Sutter Health Joint Cardiac Program. "Advanced EP Testing Indications." "Non–Pharmacological Therapies for Atrial Arrhythmias." San Rafael, CA, October 2003.

- Invited Speaker: Innovations and Updates on Managing Arrhythmias/Heart Failure, "Atrial Fibrillation – Where are we with Ablation?" Fort Myers, Florida. October 2003.

- Chairman: Venice Arrhythmia 2003. Mini Course: "Value of Echocardiography for the Evaluation and Treatment of Cardiac Arrhythmias"; "North American Experience"; "First Controversy – Intracardiac Echo–Guided is Superior to Angiography–Guided Ablation"; "What is the Best Technique for Atrial Fibrillation?" Venice, Italy, October 2003.

- Invited Speaker: Convegno di Cardiologia. "Il Cuore Oggié Domani." Paestum, Italy, October 2003.

- Invited Speaker: EP Society/Southern Colorado Heart Institute. "Atrial Fibrillation Ablation." Aspen, Colorado, September 2003.

- Invited Speaker: European Society of Cardiology. "Safety and Long–term Efficacy of Techniques for PV Isolation"; "Ablation to Definitely Cure Atrial Fibrillation." Bologna, Italy, September 2003.

- NASPE Ohio Chapter, Heartbeats Fast and Slow: Interventional Strategies for Atrial Fibrillation Management, Cleveland, Ohio, September 2003.

- Atrial Fibrillation Summit. Debate: "Catheter–Based PV Isolation is Ready for Prime–Time." Proponent. Cleveland, Ohio, August 2003.

- Invited Speaker: Rhythm 2003 Congress. Catheter Ablation: Anatomical Approach: "Results of Anatomical Approach for AF Ablation." Debate: Controversy on RFA for AF – Pro Anatomical Approach. Marseille, France, June 2003.

- Invited Speaker: Jewish Hospital Heart & Lung Institute 4th International Symposium on Advances in Interventional Electrophysiology. "Ablation of Left Freewall Accessory Pathways: Transmural vs. Retrograde Approach." Louisville, Kentucky, June 2003.

- Invited Speaker: American Society of Echocardiography. "Role of ICE in Electrophysiology Procedures." Las Vegas, Nevada, June 2003.

- Grand Rounds, Froedtert Hospital/Medical College of Wisconsin. "Radiofrequency Catheter Ablation of Atrial Fibrillation." Milwaukee, Wisconsin, June 2003.

- Grand Rounds, CCF Heart Center. "Interventional Electrophysiology in the 21st Century." Cleveland, Ohio, June 2003.

- Faculty Member: North American Society of Pacing and Electrophysiology 24th Annual Scientific Session. Mini–Course: "Catheter Ablation of Ventricular Tachycardia: Applying Anatomy to Electrophysiologic Mapping"; "Uncommon Forms of Outflow Tract VT." In the Crossfire: Controversies in Cardiac Rhythm Management Program: Debate: "Three Dimensional Mapping is Essential for Catheter Ablation Programs in 2003." Opponent. Invited Speaker: The Fibrillating Heart: Targeting the Triggers Program: "Targeting the Triggers." Washington, District of Columbia, May 2003.

- Invited Speaker: Sutter Heart Institute Arrhythmia Symposium. "Atrial Fibrillation: The Ability to Cure with Transverse Catheters." Sacramento, California, May 2003.

- Invited Speaker: Heart Synergy Teleconferences. “Emerging Technologies and Procedures in Electrophysiology.” Cleveland, Ohio/Italy (International Videoconference), April 2003.

- Co–Chairman and Faculty Member: American College of Cardiology 52nd Annual Scientific Session. Debate Session [Opening Argument; Antagonist]: “Pulmonary Vein Ablation to Treat Atrial Fibrillation Should Be Routinely Offered to Hypertensive Patients Over Age 65.” Atrial Fibrillation Ablation 2003: An Update for Cardiologists. Invited Speaker: “Alternative and Complementary Approaches to Atrial Fibrillation Ablation.” Meet the Experts Session: Co–Chair: “Pertinent Cardiac Anatomy for Ablation and Device Therapy.” Chicago, Illinois, March 2003.

- Invited Speaker: Dade County Medical Association. “Heart Failure/Sudden Cardiac Death: Going Beyond Drugs.” Coral Gables, Florida, March 2003.

- Invited Speaker: XII World Congress on Cardiac Pacing and Electrophysiology. Hybrid Therapy for Atrial Fibrillation. “Clinical Issues and Future Directions”; Endocardial Mapping and Ablation of AF: Indications and Techniques.” Catheter Ablation Scientific Symposium: “New Techniques for Catheter Ablation: Frill or Necessity?” Catheter Ablation Core Session: “New Energy Sources for Ablation.” Hong Kong, China, February 2003.

- Invited Speaker: Electrophysiology Summit. “Mapping and Ablation of Atypical Atrial Tachycardia”; “Atrial Arrhythmia Case Studies.” CardioTech, Inc., Park City, Utah, February 2003.

- Invited Speaker: Symposium on Cardiac Arrhythmias. New Advancement of Catheter Ablation. Taipei, China, February 2003.

- Grand Rounds, California Pacific Medical Center. “Atrial Fibrillation.” San Francisco, California, January 2003.

- Invited Speaker: “The CCF Experience.” Panel/Audience Discussion: “Merits of Lasso–Guided Segmental Ostial PVI vs. CARTO–Guided Extra Ostial Ablation for AF.” Boston, Massachusetts, January 2003.

- Invited Speaker: University of Wisconsin Medical School – Boston Atrial Fibrillation Symposium. 2002

- Grand Rounds, North Texas Electrophysiology Society. “Ablative Procedures for Atrial Fibrillation.” Dallas, Texas, December 2002.

- Invited Chairman: X International Symposium on Progress in Clinical Pacing. “Catheter Ablation of Supraventricular and Ventricular Tachyarrhythmias Physiology of Pulmonary Vein Discharge.” Rome, Italy, December 2002.

- Faculty Member: American Heart Association (AHA) Scientific Sessions. “How to Ablate Pulmonary Vein Triggers”; “Results of Pulmonary Vein Isolation – The North American Experience.” Chicago, Illinois, November 2002.

- Faculty Member with Interactive Sessions: Casa Sollievo Della Sofferenza Instituto Di RicoveroE Cura A Carattere Scientifico Annual Meeting. San Giovanni Rotondo, Italy, November 2002.

- Faculty Member: American Heart Association (AHA) 71st Annual Sampson Physicians Symposium. "Non-Pharmacologic Treatment for Atrial Fibrillation." San Francisco, California, October 2002.

- Faculty Member: Atrial Fibrillation: Drugs, Devices and Beyond. "Curative Catheter Ablative Treatment of Atrial Fibrillation: Current Status and Future Prospective." Innsbruck, Austria, October 2002.

- Faculty Member: Heartbeats Fast and Slow. "Radiofrequency Catheter Ablation Therapy and Surgical Ablation Therapy of Atrial Fibrillation." Cleveland, Ohio, October 2002.

- Faculty Member: An Intensive Review of Cardiology. "Electrophysiology Cutting Edge Therapy – Emerging and Expanding Options." Cleveland, Ohio, September 2002.

- Co–Chair and Invited Speaker: XXIV Congress of the European Society of Cardiology. Co–Chair SCOPE Sessions: "Mapping and Ablation of Complex Arrhythmias"; "Heart Failure: Non–Pharmacologic Therapy"; "Five Years since Defining PVs Triggers of Atrial Fibrillation." Berlin, Germany, September 2002.

- Japanese Scholar Address. "Lecture on Atrial Fibrillation." Cleveland, Ohio, August 2002.

- Invited Co–Chairman and Speaker: Cardiostim 13th Annual Internal Congress. Atrial Fibrillation Part II: "Safety and Long–Term Efficacy of Techniques for PV Isolation." Ventricular Tachycardia Part II: "Ablation of Patients with Idiopathic LVT." Nice, France, June 2002.

- Invited Session Chairman and Faculty Member: North American Society of Pacing and Electrophysiology (NASPE). "Catheter Ablation of Non–Pulmonary Vein Triggers"; "Controversies in Catheter Ablation." Chairman Abstract Session: "Catheter Ablation I: Technical Advances." Faculty: "Debate on Electrical versus Anatomical PV Isolation." San Diego, California, May 2002.

- Grand Rounds, Pacific Medical Center. San Francisco, California, May 2002.

- Invited Speaker: 16th International Symposium. "Electrophysiologic Basis for Diagnosis and Management of Cardiac Arrhythmias." Milwaukee, Wisconsin, April 2002.

- Co–Program Organizer and Co–Chairman: Update on Atrial Fibrillation 2002. "Stroke, Devices, Mapping and Ablation." Coburg, Germany, April 2002.

- Invited Speaker: American College of Cardiology 51st Annual Scientific Session. Faculty for Structured Sessions Meet the Experts. "Management of Nonischemic Ventricular Tachycardia Syndromes"; "Intracardiac Echocardiography in Electrophysiology." Atlanta, Georgia, March 2002.

- Invited Speaker: Cleveland Clinic Third Annual Preceptorship for Advanced Cardiovascular Education. "What's New in Electrophysiology?" Cleveland, Ohio, February 2002.

- Invited Speaker: Cleveland Clinic Health Talk for the Heart Center. "Non–surgical and Surgical Treatments for Arrhythmias." Telemedicine Broadcast Live on Website, Cleveland, Ohio, February 2002.

- Invited Speaker: Cleveland Clinic Turkish Preceptorship Program. “Ablative Therapy for Atrial Fibrillation.” Cleveland, Ohio, February 2002.

- Invited Speaker: Society of Thoracic Surgeons Annual Conference. “Advances in Atrial Fibrillation.” Fort Lauderdale, Florida, January 2002.

- Cardiology Grand Rounds. “Ablative Therapy for Atrial Fibrillation.” Coburg, Germany, January 2002.
- Cardiology Grand Rounds, Medical College of VA. “Catheter Ablation of Ventricular Tachycardia.” Richmond, Virginia, December 2001.

- Invited Speaker: American Heart Association (AHA) Electrophysiology 2001 Symposium. “Diagnosis and Treatment of PV Foci Using a Circumferential Mapping Catheter.” Anaheim, California, November 2001.

- Invited Speaker: XIX Columbian Cardiovascular Society Meeting. “Atrial Fibrillation Ablation: Who, How and When?” Cartagena, Columbia, November 2001.

- Invited Speaker: Japanese Electrophysiology Society Catheter Ablation Symposium. “Advancement of Atrial Fibrillation Ablation Methodology.” Tokyo, Japan, November 2001.

- Invited Speaker: Electrophysiology Associates – Cardiac Arrhythmia Symposium. “Catheter Ablation for Atrial Fibrillation – When, How and in Whom?” Newark, New Jersey, October 2001.

- Invited Session Chairman and Speaker: XIII International Workshop – Cardiac Arrhythmias. Session Chair: “Supraventricular Arrhythmias.” Lecture: “Ablation of Atrial Fibrillation: The Cleveland Clinic Experience.” Venice, Italy, October 2001.

- Invited Speaker: Heart Failure Summit VI. “AICD’s in Heart Failure: How Important Are They?” Cleveland, Ohio, October 2001.

- Invited Speaker: American College of Cardiology Heart House. Advanced Clinical Cardiac Electrophysiology and Catheter Ablation: “The Role of Focal Atrial Tachycardia Ablation for Cure of Atrial Fibrillation”; “Aortic Sinus of Valsalva Tachycardia and Other Left Outflow Tract Ventricular Tachycardia”; “Ablation of Atrial Fibrillation”; “Left Atrial Flutter: Mapping and Ablation.” Bethesda, Maryland, October 2001.

- Invited Speaker: Annual Meeting of the European Cardiology Society. “Ablation of Focal Atrial Fibrillation Assisted by Ultrasound and the Use of Circumferential Ultrasound Ablation in the Pulmonary Veins.” Stockholm, Sweden, September 2001.

- Invited Speaker: XVIII Inter American Congress of Cardiology. “Non–Pharmacologic Treatment of Atrial Fibrillation.” A Cleveland Clinic Symposium, Panama City, Panama, August 2001.

- Invited Speaker: Ablation Symposium. “Radiofrequency Ablation of the Pulmonary Veins: Can it Stop Atrial Fibrillation at its Source?” “Ablation of Left Ventricular Outflow Tract VT”; “The Use of Electroanatomical Mapping System for Catheter Ablation.” Seoul, Korea, July 2001.

- Invited Speaker: 3rd International Symposium on Advances in Interventional Electrophysiology. “Catheter Ablation of Accessory Pathways”; “Techniques for Ablation of Atrial Flutter and Ectopic Atrial Tachycardia”; “Ablation of Left Freewall Accessory Pathways: Transseptal vs.

Retrograde Approach." Louisville, Kentucky, June 2001.

- Faculty Member: XXXVI Middle East Medical Assembly. Electrophysiology – Atrial Fibrillation: "Ablation of Atrial Fibrillation"; Electrophysiology – Ventricular Arrhythmias: "Implantable Defibrillators: Present and Future." Beirut, Lebanon, May 10 – 13, 2001.

- Invited Speaker: Cardiac Pathways Symposium. "Circumferential Mapping to Guide Isolation of the Pulmonary Veins in Patients with Atrial Fibrillation." Boston, Massachusetts, May 2001.

- Invited Speaker: North American Society of Pacing and Electrophysiology (NASPE). Core Curriculum: "Catheter Ablation of Ventricular Tachycardia: New Insights and Techniques"; Clinical Tutorial: "Diagnosis and Treatment of Complex Arrhythmias." Boston, Massachusetts, May 2001.

- Invited Speaker: National Congress of Cardiology. "Catheter Ablation of Atrial Fibrillation Techniques and Patient Selection"; "Supraventricular Arrhythmias: Place for Catheter Ablation"; "Biventricular Pacing in Heart Failure." Cordoba, Argentina, April 2001.

- Invited Speaker: Update on Cardiology 2001. "Non Pharmacological Therapy of Supraventricular Arrhythmias." San Giovenni Rotondo, Italy, April 2001.

- Invited Speaker: North West EP Society Annual Meeting. "Ablation of Complex Arrhythmias." Redmond, Oregon, April 2001.

- Invited Speaker: The Cleveland Clinic Foundation Cardiology Fellowship Program. "New Concepts in Atrial Fibrillation." Cleveland, Ohio, February 2001.

- Invited Speaker: Union Hospital's Cardiovascular Symposium. "Management of Atrial Fibrillation"; "Treatment and Diagnosis of Supraventricular Arrhythmias." Terre Haute, Indiana, February 2001.

- Invited Speaker: EP at Snowbird. "Advances in the Treatment of Atrial Tachyarrhythmias and Mapping – Atrial Fibrillation Ablation Update." Snowbird, Utah, February 2001.

- Cardiology Grand Rounds, UCSF Medical Center. "Update on the Treatment of Atrial Fibrillation." San Francisco, California, January 2001.

- Invited Speaker: American Heart Association Meeting Symposium on Heart Failure. "Heart Failure Treatment: The Pacing Approach." New Orleans, November 2000.

- Invited Speaker: CEPI Progress in Clinical Pacing IX International Symposium. "Ablation in Atrial Fibrillation: Right or Left, Circular or Linear?" Rome, Italy, November 2000.

- Cleveland Clinic Board Reviews. "Other Supraventricular Tachycardias – Observation, Medication or Ablation?" Cleveland, Ohio, September 2000.

- Invited Speaker: 2nd Annual Symposium on Atrial Fibrillation. "Role of Ultrasound in Ablation of Focal AF." Milwaukee, Wisconsin, September 2000.

- Invited Speaker: Heart Failure Society of America Symposium. "Pacing Therapy for Treatment of Heart Failure." Boca Raton, Florida, September 2000.

- Invited Speaker: Sanger Clinic. “Latest Technology for Ablation in the Pulmonary Vein.” Charlotte, North Carolina, August 2000.

- Invited Speaker: “Cardiac Pacing – New and Evolving Indications.” Warren, Ohio, August 2000.

- Invited Speaker: 7th World Congress on Heart Failure – Mechanisms and Management. International Society of Heart Failure, “Treatment of Heart Failure: The Pacing Approach.” Vancouver, British Columbia, Canada, July 9 – 12, 2000.

- Invited Speaker: 2nd Annual Symposium on Arrhythmias in Clinical Practice. “Is Atrial Fibrillation Curable?” North Canton, Ohio, June 2000.

- Invited Speaker: The Cleveland Clinic Symposium in Caracas, XIX South American Conference of Cardiology. “Ablation in Patients with Atrial Fibrillation”; “Implantable Defibrillators: Present and Future.” Caracas, Venezuela, May 2000.

- Invited Speaker: Annual Meeting of the North American Society of Pacing and Electrophysiology (NASPE). “Ultrasound Ablation of the Pulmonary Vein for Atrial Fibrillation.” Washington, DC, May 2000.

- Invited Speaker: 5th Annual Symposium on Arrhythmia and Syncope. “Syncope: Cost Effective Evaluation and Treatment; “Utility of Head up Tilt Testing and Electrophysiology Studies.” Dayton, Ohio, April 2000.

- Invited Speaker: Society of Cardiology of Cordoba, Argentina Medical Update. “What a Clinician Should Know about Sudden Death.” Cordoba, Argentina, April 2000.

- Invited Speaker: IV Meeting on Interventional Electrophysiology. “Clinical Trials with ICD in Ischemic and Non–Ischemic Cardiomyopathy”; “Syncope: Diagnosis and Treatment”; “Old and New Treatments in Atrial Fibrillation.” La Faldoa, Cordoba, Argentina, April 2000.

- Invited Speaker: New Horizons in Arrhythmias. “Catheter Ablation: Present and Future”; “Ablation in the Pulmonary Vein for Atrial Fibrillation.” San Giovanni Rotondo, Italy, April 2000.

- Invited Speaker: Update on Atrial Fibrillation 2000. “Early Experience with Ultrasound Isolation of the Pulmonary Veins: Pitfalls and Results.” Coburg, Germany, March 2000.

- Invited Speaker: Recent Advances in Arrhythmia Management. “Updates on ICD Trials.” Medtronic Inc., Tucson, Arizona, February 2000.

- Grand Rounds, The Cleveland Clinic Foundation, Medical Division Conference. Lecture (CME): “Atrial Fibrillation and use of Radioablation.” Cleveland, Ohio, January 2000.

- Heart Center Grand Rounds, The Cleveland Clinic Foundation. Lecture (CME): “Ablation Treatment of Atrial Fibrillation: New Horizons.” Cleveland, Ohio, December 1999.

- Invited Speaker: Preceptorship for Advanced Cardiovascular Education. “Atrial Fibrillation: Old Problem, New Options.” Bristol–Myers/Squibb Pharmaceuticals Partnership & University Research Associates Rx, Inc., Cleveland, Ohio, December 1999.

- Invited Speaker: Current Modalities for the Treatment of Atrial Fibrillation. Knoll Pharmaceutical

Company, Crawford Auto Aviation Museum, Western Reserve Historical Society, Cleveland, Ohio, October 1999.

- Invited Speaker: 2nd Annual International Symposium on Interventional Electrophysiology. "Catheter Ablation of Left Side Accessory Pathways: The Transseptal versus the Retrograde Aortic Approach"; "Catheter Ablation of Right Side Accessory Pathways and 'Mahaim Fibers." Louisville, Kentucky, September 1999.

- Invited Speaker: Annual Meeting of the North American Society of Pacing and Electrophysiology (NASPE). "Is there a need for Future Prophylactic ICD Trials in Non–Ischemic Cardiomyopathies?" Toronto, Canada, May 1999.

- Invited Speaker: "Supraventricular Tachycardias: Mechanism and Treatment." Dayton, Ohio, April 1999.

- Cardiology Grand Rounds, Jewish Hospital. Lecture (CME): "Catheter Ablation of Wolff–Parkinson–White Syndrome." Louisville, Kentucky, November 1998.

- Invited Chairman of Symposium: 11th International Congress Cardiostim. "Atrial Fibrillation – State of the Art." Nice, France, June 1998.

- Invited Speaker and Chairman of Core Curriculum: Annual Meeting of the North American Society of Pacing and Electrophysiology (NASPE). "Advances in Ventricular Defibrillation." San Diego, California, May 1998.

- Invited Speaker: "Syncope of Unknown Origin: Pathophysiology and Management." Dayton, Ohio, April 1998.

- Invited Speaker: XIII World Congress of Cardiology – Symposium. Update in Catheter Ablation: "Sinus Node Modification"; Atrial Flutter and Atrial Fibrillation: "Catheter Ablation of Atrial Fibrillation"; Neurocardiology: "Neurocardiogenic Syncope – Pathophysiology, diagnosis, and treatment." Rio de Janeiro, Brazil, April 1998.

- Invited Speaker: Physician Seminar. "From Inspiration to Application"; "Defibrillation Lead Technology." Beaver Creek, Colorado, February 1998.

- Invited Speaker: Annual Meeting of the Brazilian Society of Electrophysiology. "Analysis of Multi–Center Trials on Implantable Defibrillators"; "Technical Aspect of Implantable Defibrillators." Sao Paulo, Brazil, November 1997.

- Invited Speaker: Symposium on Non–Pharmacologic Treatment of Arrhythmia. "Radiofrequency Ablation of Atrial Flutter." Foggia, Italy, October 1997.

- Invited Speaker: First Symposium on Implantable Cardioverter Defibrillator. "Mechanisms of Ventricular Fibrillation and Defibrillation"; "Clinical Aspects of ICDs." Seoul, South, Korea, September 1997.

- Invited Speaker: Symposium on Atrial Fibrillation: The New Frontier. "Ablation for Atrial Fibrillation." New Orleans, May 1997.

- Invited Speaker: Clinical Tutorial during Annual Meeting of the North American Society of Pacing and Electrophysiology. "Advances in Ventricular Defibrillation Technology and Clinical

Benefit." New Orleans, May 1997.

- Invited Speaker: Annual Meeting of the International Society for Computerized Electrocardiology. "QT Dispersion in Ischemia." Palm Coast, Florida, April 1997.

- Invited Speaker: International Symposium on State of the Art in Cardiac Arrhythmias. "Ablation of Ventricular Tachycardia with and without Structural Heart Disease"; "Critical Evaluation of the use of AICD in malignant Ventricular Arrhythmias: Worldwide Experience and New Indication"; "Current Use and Future Perspectives in Artificial Stimulation and ICD for Atrial Fibrillation." Rio de Janeiro, Brazil, April 1997.

- Invited Speaker: Meeting of the Paranaense Cardiology Society. "Critical Evaluation of the Use of ICD in Malignant Ventricular Arrhythmias: Worldwide Experience and New Indications"; "Current Use and Future Perspectives in Artificial Stimulation and ICD for Atrial Fibrillation." Londrina, Brazil, April 1997.

- Invited Speaker: Cardiology Institute Dante Pazzanese. "Atrial Fibrillation: Medical Treatment vs. Radiofrequency Ablation"; "Advances, Diagnosis and Treatment of Malignant Ventricular Arrhythmias." Sao Paulo, Brazil, April 1997.

- Invited Speaker: Contemporary Management of Cardiac Arrhythmia and Syncope: Syncope of Unknown Origin, Diagnosis and Management." Dayton, Ohio, April 1997.

- Invited Speaker: Cardiology Grand Rounds "Atrial Fibrillation: New Frontier." Lexington, Kentucky, December 1996.

- Invited Speaker: Cardiology Grand Rounds. "Old and New Treatment for Atrial Fibrillation." Syracuse, New York, December 1996.

- International Meeting on Cardiac Arrhythmias, Porto Alegre, Brazil, October 1996.

- Invited Speaker: Edward S. Orgein Cardiovascular Symposium. "Management of Arrhythmias." Durham, North Carolina, September 1996.

- Invited Speaker: Annual Workshop of South Atlantic Society of Electrophysiology for Allied Professionals. "Tilt Table Studies: Diagnosis and Treatment." Myrtle Beach, South Carolina, September 1996.

- Invited Speaker: 2nd International Symposium on Clinical Diagnosis and Management of Supraventricular and Ventricular Arrhythmias. "Utility of Head–Up Tilt Test in the Treatment of Patients with Neurocardiogenic Syncope"; "Atrial Fibrillation: Conventional vs. New Treatment Modalities"; "Mechanisms and Treatment of Ventricular Tachycardia". Montevideo, Uruguay, August 1996.

- Invited Speaker: Clinical Tutorial during the Annual Meeting of the North American Society of Pacing and Electrophysiology. "AV Mode Modification." Seattle, Washington, May 1996.

- Invited Speaker: Seminar on Contemporary Management on Cardiac Arrhythmias. "Diagnosis and Management of Supraventricular Tachycardia: Role of EP Study and RF Ablation." Dayton, Ohio, April 1996.

- Invited Speaker: "Evaluation and Treatment of Syncope." West Palm Beach, Florida, January

1996.

- Invited Speaker: “Atrial Fibrillation Towards New Approaches.” Jupiter, Florida, January 1996.
- Invited Speaker: “New Strategies for Treatment of Atrial Fibrillation.” Minneapolis, Minnesota, November 1995.
- Invited Speaker: Electrophysiology Workshop for Allied Professionals. “Device Implantation: What You Need To Know.” Wilmington, North Carolina, October 1995.
- Invited Speaker: “How to Improve Ventricular Defibrillation.” Minneapolis, Minnesota, October 1995.
- Invited Speaker: Symposium on New Frontiers in Cardiac Rhythm Management. “Comparison of Different Biphasic Waveforms.” Washington, DC, September 1995.
- Invited Speaker: Fellow Educational Program. “Indications for Permanent Pacing.” Durham, North Carolina, August 1995.
- Invited Speaker: Symposium on Advancement in Defibrillation. “Biphasic Waveforms.” Boston, Massachusetts, May 1995.
- Invited Speaker: First Interactive Symposium on Non–Pharmacologic Treatment of Arrhythmias. Diagnosis and Treatment of Syncope.” Foggia, Italy, December 1994.

PUBLICATIONS

ORIGINAL PEER REVIEWED ARTICLES

1. La Fazia VM, Galea R, Della Rocca DG, Gianni C, Gasys A, Mohanty S, Madhkour R, Pierucci N, Torlapati PG, Chalkou K, Chiricolo G, Chong-Nguyen C, Horton R, Al-Ahmad A, Di Biase L, Räber L, **Natale A**. Impact of Device Compression on Peridevice Leak After Left Atrial Appendage Closure: The Impression LAAC Study. JACC Clin Electrophysiol. 2025 Sep 23:S2405-500X(25)00709-1. doi: 10.1016/j.jacep.2025.08.014. Epub ahead of print. PMID: 41042184.
2. Zito E, La Fazia VM, Gianni C, Macdonald B, Mayedo A, Torlapati P, Mohanty S, Tondo C, **Natale A**. Alternative options to thermal ablation for atrial fibrillation: the role of pulsed field ablation in reducing complications and maintaining efficacy. Expert Rev Cardiovasc Ther. 2025 Oct 5:1-18. doi: 10.1080/14779072.2025.2569402. Epub ahead of print. PMID: 41030073.
3. Embrey PH, Mohanty S, Torlapati PG, La Fazia VM, Gianni C, Eleyan Y, MacDonald B, Mayedo A, Al-Ahmad A, Burkhardt JD, Allison J, Bode W, Gallinghouse GJ, Horton R, **Natale A.** Long-Term Outcome of Radiofrequency Versus Pulsed-Field Ablation in Atrial Fibrillation Patients Aged More Than 60 Years Undergoing Their First Catheter Ablation. J

Cardiovasc Electrophysiol. 2025 Sep 25. doi: 10.1111/jce.70101. Epub ahead of print. PMID: 40994315.

4. Mohanty S, **Natale A**. Isn't It Too Early to Say That HPSD Is the Ideal Ablation Technique for Ablation of Ventricular Fibrillation? JACC Clin Electrophysiol. 2025 Sep;11(9):2077. doi: 10.1016/j.jacep.2025.05.027. PMID: 40992817.
5. Araújo B, Rivera A, de Oliveira Tapioca V, Barbosa LM, Caetano L, Abreu SN, Mohanty S, Ternes CMP, Serpa F, Tamirisa KP, d'Avila A, **Natale A**. Sedation vs. general anaesthesia in patients with atrial fibrillation undergoing catheter ablation: a systematic review and meta-analysis. Europace. 2025 Sep 1;27(9): euaf156. doi: 10.1093/europace/euaf156. PMID: 40966626; PMCID: PMC12448922.
6. Mariani MV, Matteucci A, Pierucci N, Palombi M, Compagnucci P, Bruti R, Cipollone P, Vinciullo S, Trivigno S, Piro A, Fazia VM, Saade W, Chimenti C, Forleo GB, Russo AD, Pandozi C, **Natale A**, Vizza CD, Lavalle C. Reply To: Bayesian Evaluation of Pentaspline Pulsed Field Ablation Compared to High-Power Radiofrequency Ablation in Atrial Fibrillation. J Cardiovasc Electrophysiol. Sep 9. doi: 10.1111/jce.70103. Epub ahead of print. PMID: 40926293.
7. Futyma P, Zarębski Ł, Garg L, Mohanty S, La Fazia VM, Torlapati PG, Marchlinski FE, **Natale A**, Santangeli P. Bipolar radiofrequency ablation for refractory scar-related interatrial septal tachycardias: a multicenter study. J Interv Card Electrophysiol. 2025 Sep 6. doi: 10.1007/s10840-025-02120-w. Epub ahead of print. PMID: 40913696.
8. Al-Ahmad A, Embrey PH, Horton R, Balkovec C, Ebady R, Sukumar A, Al-Dujaili S, **Natale A.** Comparison of a guidewire with an uninsulated tip versus dedicated radiofrequency wire with discrete electrode for energy-based transseptal puncture: a pre-clinical study. J Interv Card Electrophysiol. 2025 Sep 6. doi: 10.1007/s10840-025-02126-4. Epub ahead of print. PMID: 40913695.
9. Zei PC, Newton D, Nair D, Liu CF, Metzl MD, Patel AM, Di Biase L, Osorio J, Mansour M, Calkins H, Wazni O, Reddy VY, **Natale A**, Sauer WH. Outcomes of pulsed-field ablation with low to zero fluoroscopy utilization for atrial fibrillation treatment. Europace. 2025 Sep 1;27(9):euaf197. doi: 10.1093/europace/euaf197. PMID: 40889299; PMCID: PMC12445668.
10. La Fazia VM, **Natale A**. To the Editor-Renal safety in PFA: When the pulse count matters. Heart Rhythm. 2025 Aug 29:S1547-5271(25)02791-2. doi: 10.1016/j.hrthm.2025.07.062. Epub ahead of print. PMID: 40886751.
11. La Fazia VM, Mohanty S, Gianni C, Zito E, Pierucci N, Stifano G, Torlapati PG, Della Rocca DG, Bode WD, Burkhardt JD, Horton R, Al-Ahmad A, Di Biase L, **Natale A**. Feasibility and Safety of Pulsed Field Ablation for Coronary Sinus and Left Atrial Appendage Isolation and Mitral Isthmus Ablation: Acute and Chronic Findings. Circ Arrhythm Electrophysiol. 2025 Sep;18(9):e014026. doi: 10.1161/CIRCEP.125.014026. Epub 2025 Aug 28. PMID: 40874318.
12. Di Biase L, Reddy V, Bahu M, Newton D, Liu CF, Sauer WH, Goyal S, Iyer V, Nair D, Osorio J, Mansour M, Calkins H, Wazni O, Gomez T, Byun E, Tan T, **Natale A**. Contraction sizing versatility of the variable-loop circular catheter for pulmonary vein isolation in atrial fibrillation: A subanalysis from the AdmIRE trial. Heart Rhythm. 2025 Aug 19:S1547-5271(25)02761-4. doi: 10.1016/j.hrthm.2025.08.019. Epub ahead of print. PMID: 40840578.

13. Aryana A, Pujara DK, Allen SL, Ellis ER, Heath RR, Trivedi AD, Lee SW, O'Neill PG, Bowers MR, Patel DA, Tadros TM, Stevens SM, Espinosa Ginic MA, Makati KJ, Manshadi RK, Manshadi KK, Di Biase L, d'Avila A, Ellenbogen KA, **Natale A**, Reddy VY. Concomitant cryoballoon pulmonary vein and posterior wall isolation in persistent atrial fibrillation: Results from the Left Atrial Posterior Wall Isolation in Conjunction With Pulmonary Vein Isolation Using the Cryoballoon for Treatment of Persistent Atrial Fibrillation (PIVoTAL) IDE trial. Heart Rhythm. 2025 Aug 19:S1547-5271(25)02760-2. doi: 10.1016/j.hrthm.2025.08.018. Epub ahead of print. PMID: 40840576.
14. Gianni C, Horton RP, Nair G, La Fazia VM, Mohanty S, Al-Ahmad A, Allison JD, Bassiouny MA, Bode WD, Burkhardt JD, Chiricolo G, Gallinghouse GJ, Hranitzky PM, Sanchez JE, Nair DG, **Natale A**. Percutaneous Aspiration Thrombectomy in Patients With Persistent Left Atrial Appendage Thrombus: A Case Series. JACC Clin Electrophysiol. 2025 Jul 24:S2405-500X(25)00519-5. doi: 10.1016/j.jacep.2025.06.018. Epub ahead of print. PMID: 40801870.
15. **Natale A**, Mohanty S. Cardiovascular benefit of continuous positive airway pressure therapy in obstructive sleep apnoea: what's new? Eur Heart J. 2025 Aug 5:ehaf460. doi: 10.1093/eurheartj/ehaf460. Epub ahead of print. PMID: 40794682.
16. Alhuarrat MAD, Flomenbaum D, Schiavone M, Maliha M, Oudih MA, Hammad M, Freilich M, Zhang X, La Fazia VM, Lin A, Marazzato J, Apple SJ, Ammirati G, Esagian S, Al Zyoud B, Zou F, Minuti A, Guttenplan N, Mohanty S, **Natale A**, Lakkireddy D, Di Biase L. Ablation Index-Guided Radiofrequency Ablation for Atrial Fibrillation: An Updated Meta-Analysis on Its Procedural Efficacy and Safety Profiles. J Cardiovasc Electrophysiol. 2025 Aug 11. doi: 10.1111/jce.70039. Epub ahead of print. PMID: 40785371.
17. Tamirisa KP, Sanchez JE, La Fazia VM, Gianni C, Serpa F, Mohanty S, Al-Ahmad A, **Natale A.** Pulsed field ablation-related hemoglobinuria and acute kidney injury: Insights and strategies for effective management. Am Heart J. 2025 Dec;290:339-346. doi: 10.1016/j.ahj.2025.07.013. Epub 2025 Jul 28. PMID: 40738308.
18. Di Biase L, Merino J, **Natale A**. Pulsed field ablation for ventricular tachycardia: are we there yet? Europace. 2025 Sep 1;27(9): euaf161. doi: 10.1093/europace/euaf161. PMID: 40747682; PMCID: PMC12418171.
19. Mohanty S, Torlapati PG, Casella M, La Fazia VM, Valeri Y, Gianni C, Al-Ahmad A, Burkhardt JD, Gallinghouse GJ, Horton R, Allison J, Bode W, Di Biase L, Russo AD, **Natale A**. Management of oral anticoagulation after pulsed field ablation for atrial fibrillation: Insights from a multicenter study. Heart Rhythm. 2025 Apr 3:S1547-5271(25)02188-5. doi: 10.1016/j.hrthm.2025.03.1952. Epub ahead of print. PMID: 40736428.
20. Marazzato J, Zou F, Schiavone M, La Fazia VM, Forleo G, Mohanty S, Lin A, Garcia DY, **Natale A**, Zhang X, Di Biase L. Impact of contact force and pulsed field ablation parameters on myocardial lesion formation during pulsed field ablation: A systematic review of pre-clinical studies. Prog Cardiovasc Dis. 2025 Jul 9:S0033-0620(25)00098-2. doi: 10.1016/j.pcad.2025.07.001. Epub ahead of print. PMID: 40645395.
21. Mariani MV, Matteucci A, Pierucci N, Palombi M, Compagnucci P, Bruti R, Cipollone P, Vinciullo S, Trivigno S, Piro A, Fazia VM, Saade W, Chimenti C, Forleo GB, Russo AD, Pandozi C, **Natale A**, Vizza CD, Lavalle C. Pentaspline Pulsed Field Ablation Versus High-Power

Short-Duration/Very High-Power Short-Duration Radiofrequency Ablation in Atrial Fibrillation: A Meta-Analysis. J Cardiovasc Electrophysiol. 2025 Jul 9. doi: 10.1111/jce.16776. Epub ahead of print. PMID: 40635413.

22. Marino M, Massaro G, Carbone V, La Fazia VM, Stifano G, Gaetano C, **Natale A**. Concealed Wenckebach Phenomenon in Left Bundle Branch Associated With Chest Pain. JACC Case Rep. 2025 Jun 18;30(15):103751. doi: 10.1016/j.jaccas.2025.103751. PMID: 40541337; PMCID: PMC12198628.
23. Whang W, Bahu M, Newton D, Liu CF, Sauer WH, Goyal S, Iyer V, Nair D, Di Biase L, Osorio J, Mansour M, Calkins H, Wazni O, **Natale A**, Reddy VY; admIRE trial investigators. Premature Ventricular Complexes After Ablation for Paroxysmal Atrial Fibrillation and Recurrent Atrial Arrhythmias: admIRE Subanalysis. JACC Clin Electrophysiol. 2025 Apr 25:S2405-500X(25)00247-6. doi: 10.1016/j.jacep.2025.03.035. Epub ahead of print. PMID: 40439651.
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