

Carlo Pappone, MD, PhD, FACC

CV Landmarks

Research Activity (Summary)

Overall Publications

Publications: 204

Citations: 16549

H index: 50

Landmark Articles

New Engl J Med (4 full text articles) Circulation (16 full text articles)

JACC (16 full text articles) JAMA (1 full text article)

Seminal Research

The most important seminal research I have conducted has been on AF ablation (cited in 8157 peer-reviewed articles), remote navigation and ablation (cited in 277 peer-reviewed articles), and asymptomatic Wolff-Parkinson White Syndrome (cited in 385 peer-reviewed articles). My research activity was mainly focused on:

1. Investigation on physiopathology of cardiac arrhythmias
2. Assessment and treatment modalities for patients with cardiac arrhythmias
3. Development of innovative ablation strategies for atrial fibrillation
4. Electrophysiological treatment of patients with heart failure
5. Biophysics of radiofrequency ablation. Design, experimental evaluation, and clinical evaluation of computer assisted tridimensional mapping systems
6. Design, experimental evaluation, and clinical testing of innovative cardiac ablation catheters
7. Development, validation, and clinical implementation of robotic navigation systems
8. Participation in international multicenter studies
9. Epicardial ablation in Brugada syndrome
10. Development of new catheters for multisite pacing in cardiac resynchronization therapy
11. New tools for rotors identification and ablation in patients with atrial fibrillation

This activity is documented by the production of groundbreaking papers on the natural history of patients with WPW syndrome and on the effects of prophylactic ablation that have led to major updates in the international guidelines on WPW ablation. Another area of groundbreaking research is the treatment of atrial fibrillation. As documented by several papers, my activity has led to the discovery of major physiopathological mechanisms of atrial fibrillation, such as the role of vagal innervation and its modification and the identification of areas of different patterns of activation, indicating the areas of origin and maintenance of fibrillatory activity. Based on these observations, I developed and proposed an ablation approach now recognized as "**Pappone approach**" that has become the most used and clinically successful procedure for AF ablation so far. I have participated in the early stages of development of all the 3D mapping systems available (Carto, NavX, Velocity, Mediguide) in both the experimental, preclinical, and clinical phases and directed the development of the clinical protocols related to their utilization. I have designed new catheter tips and innovative cooling circuits for cardiac ablation catheters. I also conducted and supervised the experimental and clinical developments of the prototypes until the production of commercial devices, and I hold international patents on these catheters. I participated in the experimental evaluation and first in man implants of different devices for electrical treatment of heart failure, including different biventricular pacing systems, cardiac contractility modulation devices, and multipoint biventricular stimulation in patients with heart failure. This activity is also

documented by several publications on high impact medical journals. The participation in multicenter clinical studies has also been part of my activity, particularly focused on Atrial Fibrillation Ablation efficacy.

Randomized Multicenter Trials

My secondary focus has been and is the design and implementation of large-scale randomized trials and prospective cohort studies. I have been directly involved in many randomized trials as a principal investigator, consultant, Steering Committee Chair, or member. I have been the Principal Investigator of several prospective randomized trials such as the recent **APAF Study** and a Co-Investigator on many other large-scale trials and observational studies, such as the ongoing multicenter CABANA study, which involves many European and USA investigators. I have initiated new single-center research programs in a large number of atrial fibrillation patients with heart disease and comorbidities, designed to evaluate arrhythmia progression, as well as the effect of catheter ablation on thromboembolism and Quality of Life.

The Pappone Approach

My primary area of interest is the pathophysiology and treatment of patients with atrial fibrillation by interventional electrophysiology. The "**Pappone approach**" is currently one of the most used strategies to cure atrial fibrillation. I have been the principal investigator in many studies regarding the development and use of the CARTO electroanatomical mapping system for guiding ablation of atrial fibrillation in humans and the first one to perform a mapping study in a human patient in 1994. I have been author of **landmark studies** on radiofrequency transcatheter ablation for atrial fibrillation published for 3 consecutive years in *Circulation*, a leading journal in the field of cardiovascular medicine. These studies have been cited in **2.987** peer-reviewed articles. Leading study entitled "Catheter ablation of atrial fibrillation using a 3D mapping system" has itself been cited in 315 articles, including the guidelines issued by the American Heart Association/American College of Cardiology/European Society of Cardiology for management of patients with atrial fibrillation.

Sudden Death in WPW Syndrome

My interest has been and is currently focused on pathophysiology and prevention of sudden death particularly in patients with WPW syndrome. More recently, my work focuses on the natural history of the syndrome to identify patients at risk of sudden death. The last guidelines (*Heart Rhythm*, April 2012) have accepted and included the conclusions of our seminal studies.

Catheter ablation of atrial fibrillation

Pulmonary vein denervation as an additional benefit to Pulmonary Vein (PV) isolation was first discovered by my group and published as "**fast track article**" in *Circulation* 2004. These seminal data from our group have been confirmed worldwide.

Brugada Syndrome

My recent interest is focused on identification of patients with genetic diseases at risk of sudden death, such as Brugada syndrome patients, and more recently, on epicardial ablation to eliminate the Brugada syndrome pattern. (*JACC* 2018, *Circulation* AE 2017, *Circulation* AE 2015, *Eur Heart J* 2009).

Atrioesophageal Fistula

Atrioesophageal fistula after ablation was first described by my group and again published in *Circulation* 2004. Our preliminary results have been confirmed by many other studies. (*Circulation* 2004)

Remote navigation and ablation procedure

I have performed successfully the first transatlantic arrhythmia ablation procedure from Boston, while the patient was in Italy, 4.000 miles away. During the annual Heart Rhythm Society Meeting, I performed an AF ablation procedure, by using a simple computer keyboard able to remotely control a magnetically guided ablation catheter. The importance of this event is that new frontiers have been crossed, as physicians can now carry out long-distance heart procedures in any part of the world. This is another significant scientific step forward in mankind welfare. This event can be considered as the beginning of a democratic medicine for everyone, as people living in underdeveloped countries can finally benefit from much more experienced centers by the remote ablative therapy. (*JACC 2006, JACC 2008, Eur Heart J 2008, J Cardiovasc Electrophysiol 2007, Heart Rhythm 2011*)

Clinical Practice Guidelines Contributor

I have served and I serve on the steering committee for AF ablation management and guidelines. I served as a member of Expert Consensus Group for the development of Clinical Practice Guidelines for Catheter and Surgical Ablation of Atrial Fibrillation: **2007, 2009, 2012, 2014** (developed in partnership with the European Heart Rhythm Association (*EHRA*), a registered branch of the European Society of Cardiology (*ESC*) and the European Cardiac Arrhythmia Society (*ECAS*); and in collaboration with the American College of Cardiology (*ACC*), American Heart Association (*AHA*), the Asia Pacific Heart Rhythm Society (*APHRS*), and the Society of Thoracic Surgeons (*STS*). I have also served and I serve on the recent steering committee for supraventricular arrhythmias management and guidelines of the European Society of Cardiology and the European Cardiac Arrhythmia Society (*ECAS*) 2016 and 2017. I am a Contributor for the European Society of Cardiology book (ESC Textbook of Cardiovascular Medicine, Third edition, 2017).

Book Chapters (n.30)

Another interest is the translation of our research findings to the clinical setting through comprehensive reviews, book chapters, and books.

Current Research Activities

Current research activities include the renal sympathetic nerve ablation in the treatment of refractory hypertension, new catheter design to optimize RF applications in patients with atrial flutter or fibrillation (Coolflex catheter), multipoint-biventricular pacing (Quadra catheter MPP, PV-LOOP catheter) in patients with heart failure. Identification and elimination of rotors in patients with paroxysmal or persistent atrial fibrillation by new algorithms. Epicardial ablation to eliminate Brugada pattern.

Peer Reviewer Activity Awarded in 2005 as Elite Reviewer of JACC

I have served as Reviewer of the American Heart Journal, American Journal of Cardiology, Circulation, Circulation Arrhythmia Electrophysiology, European Heart Journal, Europace, Heart Rhythm, Journal of the American Medical Association, Journal of the American College of Cardiology, Journal of Cardiovascular Electrophysiology, Lancet, Journal of Cardiovascular Medicine, Annals of Internal Medicine, Giornale Italiano di Cardiologia, Giornale Italiano di Aritmologia e Cardiolazione.

Editorial Board

I have served as member of the Editorial Board of the Journal of the American College of Cardiology, Heart Rhythm, Journal of Cardiovascular Medicine, Giornale Italiano di Cardiologia, Giornale Italiano di Aritmologia e Cardiolazione.

Clinical Activity

My current position is Director of the Arrhythmology Department and Electrophysiological Activities at San Donato University Hospital, Milan. I personally perform interventional electrophysiological procedures, device implant, and appendage occlusion while supervising the activities of the local medical staff. Particular areas of interest include ablation in children, with special interest in the treatment of high risk accessory pathways, and interventional electrophysiological treatment of atrial fibrillation. Most of the techniques currently used for these challenging clinical conditions have been developed through my research activity, based both on the operative procedures and on the development of innovative equipment and catheters. I also perform such procedures in satellite centers, training the local staff in order to enable them to perform more complex and demanding procedures, while coordinating the clinical and research activities of the group. Before the present position, I had a similar position as Director of the Arrhythmology Department and Electrophysiology laboratories at San Raffaele University Hospital of Milano from 1999 to December 2009, and at Maria Cecilia Hospital, Cotignola (Ravenna) from January 2010 to February 2015.

Teaching Activities

University of Naples "Federico II" - 1998;

University Vita Salute San Raffaele, Milan - 1999, 2000, 2001;

University of Ferrara - 2011, 2012;

San Donato University Hospital - 2015 to present.

I have been personally involved in teaching of medical and postgraduate students, in organizing teaching courses for international cardiologists and electrophysiologists, and in training clinical and research electrophysiology fellows in my laboratories. My formal university cardiology courses were held at San Raffaele Vita e Salute University and at University of Ferrara, where I taught general cardiology courses for medical students, as well as electrophysiology lectures for the postgraduate cardiology students of the Cardiology Speciality Medical School of the same university. In 2005 I founded and directed the **Arrhythmology Academy**, a teaching organization involving an international top level faculty aimed at providing medical education in the area of interventional electrophysiology to international cardiologists interested in developing their practical skills and theoretical knowledges in this field. I have held 85 courses at the clinical institutions where I practiced, training 992 doctors from 55 countries, organizing focused courses on ablation, device implant and follow-up, renal artery denervation and structural heart disease treatment in the prevention of cardioembolic stroke. In the clinical departments that I hosted, over 300 clinical and research fellows from Italy and several other countries (United States, United Kingdom, Japan, Brazil, Canada, Egypt) received hands-on interventional training and participated in the research activity both in practical research and in medical writing.

Organization of International Courses and Training Programs (Arrhythmology Academy)

I have promoted theory and practice through interactive discussion and comments during live procedure demonstrations, meetings and lectures. Interactions and partnerships in Italy and internationally and collaboration with industries have also been undertaken. These training programs are attended annually by interventional electrophysiologists from all around the world. The Academy is accredited by the European Society of Cardiology (EBAC).

Professional Associations

Fellow, American College of Cardiology Fellow, Heart Rhythm Society Member, Council on Clinical Cardiology, American Heart Association Honorary Member, Russian Society for Cardiac Pacing and Electrophysiology

CURRICULUM VITAE

Carlo Pappone, MD, PhD, FACC

Date of Birth: December 5, 1961

Place of Birth: Benevento, Italy

Current Position: Director, Department of Arrhythmology, San Donato University Hospital, San Donato Milanese (Milan, Italy).

Home Address: Piazza San Giovanni 9, 23870 Cernusco Lombardone (Lecco) (LC) Italy. **Contact Information:** Policlinico San Donato, Arrhythmology Department, Piazza E. Malan, 20097, San Donato Milanese (MI), Italy.

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Education

MD Degree: October 29, 1986. School of Medicine, University of Naples, Federico II. Thesis: "Effects of iloprost in the treatment of acute myocardial infarction." Score: 110/110 with honors.

Medical Licensure (Italy): 1986. Score: 90/90 with honors.

Cardiology Specialty Degree: 1986-1990. University of Naples Federico II. Thesis: "Transcatheter radiofrequency ablation of post-infarction ventricular tachycardias." Score: 70/70 with honors.

Electrophysiology Trainings. 1) 1986-1987 Research Fellowship. Cardiology Department, University of Naples, Federico II; 2) 1987-1988 Clinical Fellowship. Electrophysiology Laboratory, University of Naples; 3) 1988-89. Interventional Electrophysiology, Hospital Policlinico San Matteo, Pavia; 4) July – September 1991. Division of Cardiology, Univ. of Michigan Medical Center, Ann Arbor; 5) July – August 1992. Division of Cardiology, University of Oklahoma Health Sciences Center, Oklahoma City, OK (Chief: W.M. Jackman, MD)

PhD doctoral studies: 1991-1995. Doctorate in Cardiovascular Pathophysiology, University "Tor Vergata", Rome. **PhD degree** Oct. 1995, with honors Thesis: "Transcatheter radiofrequency ablation of atrial tachycardia: mapping techniques."

Professorship: 2012. License of Associate **Professor of Cardiology.**

Clinical practice as first operator

Total EP studies: >160.000; Ablation procedures: >130.000; PM implantation: >50.000; ICD implantation: >20.000; Biventricular PM: > 6.000.

Landmark papers

Scientific activity (Summary)

Total Publications in Medline: 149; Total Impact Factor: > 1500; Citations: > 14.000.

New Engl J Med (4 original articles) *Circulation* (14 original articles) *JACC* (15 original articles)
JAMA (1 original article)

Major Administrative Leadership Assignments:

Director, Electrophysiology laboratory, Università degli Studi Federico II, Napoli

Director, Department of Arrhythmology S. Raffaele University Hospital, Milan

Responsible of the EP lab, Morgagni Heart Center, Catania

Responsible of the EP lab, Clinic Villa Maria Eleonora, Palermo

Responsible of the EP lab, S. Rocco Clinic, Ome, Brescia

Responsible of the EP lab, Clinic, Maria Cecilia Hospital, Cotignola

Director of the Department of Arrhythmology Maria Cecilia Hospital, Cotignola, Ravenna

Director of the Department of Arrhythmology Policlinico San Donato, Milano

Associate Professor, Interventional Electrophysiology, Cardiology fellowship program, University of Naples "Federico II"

Director of the Course on Cardiovascular Diseases, S. Raffaele University Medical School, Milan, Italy

Director of the course on Brugada syndrome ablation, Policlinico San Donato, San Donato Milanese, Italy

Invited Visiting Professor, EP and Pacer Labs, German Heart Center, Munich, Germany

Lecture: "Ablation of Atrial Fibrillation using Carto" Live Demonstration

Invited Visiting Professor, 5th Prague Workshop on Catheter Ablation, Institute for Clinical and Experimental Medicine (IKEM), Prague, Czech Republic

Lecture: "Catheter ablation of atrial fibrillation – the Milan experience" Live Demonstration

Invited Visiting Professor, 10th Anniversary Symposium of the Cardio- Thoracic Clinic, "Restore Rhythm and Contractility", Bergamansheil, Klinikum der Ruhr,-Universität Bochum.

Live Demonstration: Pulmonary Vein Isolation in a patient with Chronic Atrial Fibrillation using the CARTO system
Lecture: "Aspects and results of Pulmonary Vein Isolation in Atrial Fibrillation using the CARTO- system".

Academic and Research Appointments

Invited Visiting Professor, University of Michigan, Division of Cardiology, Ann Arbor, MI, USA.

Cardiology Grand Rounds Lecture: "Mortality, Morbidity and Quality of Life After Circumferential PV Ablation .Atrial Fibrillation: 50 Years On"

Invited Visiting Professor, Medical College of Virginia, in Richmond, VA, USA

Cardiology Grand Rounds Lecture: "Mortality, Morbidity and Quality of Life After Circumferential PV Ablation.Atrial Fibrillation: 50 Years On".

Live Demonstration

Invited Visiting Professor, 4th International Workshop for Interventional Electrophysiology, Bakoulev Scientific Center for Cardiovascular Surgery of Russian academy of Medical Sciences, Moscw, Russia

Lecture: "Circumferential Pulmonary Vein Ablation for Atrial Fibrillation: The Milan Experience"

Live Demonstration

Invited Visiting Professor, Cardiovascular Department, EP Labs, San Filippo Neri Hospital, Rome, Italy

Director: Prof. Massimo Santini

Live Demonstration: "Radiofrequency Catheter Ablation for paroxysmal Atrial Fibrillation"

Invited Visiting Professor, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Case presentations

Cardiology Grand Rounds: "Ablation for Atrial fibrillation: What's New and Exciting"

Invited Visiting Professor, USC Keck School of Medicine, University of Southern California, Division of Cardiovascular Medicine Los Angeles, CA, USA

Cardiology Grand Rounds: "Catheter Ablation for Atrial Fibrillation: state of the art and the future"

Director of Academy of Arrhythmology under the supervision of the European Society of Cardiology and the Heart Rhythm Society

Invited Visiting Professor in occasion of the annual meeting of Japanese ablation Society.

Tsukuba. Japan

Overview and newest technique of anatomical LA ablation around the Pvs

Invited Visiting Professor, New York Presbyterian Hospital – Weill Medical College of Cornell University – New York

Cardiology Grand Rounds: Formal talk on atrial fibrillation

Carlo Pappone performed successfully the first transatlantic arrhythmia ablation procedure from Boston, while the patient was in Italy, 4.000 miles away. In front of hundreds of spectators, during the annual Heart Rhythm Society Meeting, Pappone performed an AF ablation procedure by using a simple computer keyboard able to remotely control a magnetically guided ablation catheter. The importance of this event is that new frontiers have been crossed, as physicians can now carry out long-distance heart procedures in any part of the world. This is another significant scientific step forward in mankind welfare. This event can be considered as the beginning of a democratic medicine for everyone, as people living in underdeveloped countries can finally benefit from much more experienced centers by the remote ablative therapy.

Invited Visiting Professor at SIFA hospital in Izmir Turkey Formal talk on Magnetic Navigation techniques

Invited Visiting Professor, Clinico San Carlos Madrid Spain C/o Professor Martin Lagos

Invited Visiting Professor. Al-Minya University Hospital. Egypt

Lecture: "Catheter ablation for atrial fibrillation: from present to future"

Opening of the Department of Arrhythmology in Cotignola, Maria Cecilia Hospital. During the opening ceremony, two remote procedures of atrial fibrillation ablation using magnetic navigation system Niobe Stereotaxis were performed by myself. There were two patients, the first patient in Milan (Istituto Clinico città Studi) and the second one in Maria Cecilia Hospital.

Professor of Cardiology Cardiovascular Specialty University of Ferrara

Professional Societies: ESC, HRS, AHA Editorial Responsibilities

Peer Reviewer (2003-present)

Reviewer and Editorial Board

New England Journal of Medicine, Lancet, Circulation, Journal of the American College of Cardiology (**Awarded in 2005 as Elite Reviewer of JACC**), American Heart Journal, American Journal of Cardiology, Annals of Internal Medicine, Circulation: Arrhythmia Electrophysiology, European Heart Journal, Europace, Heart Rhythm, Journal of the American Medical Association, Journal of Cardiovascular Electrophysiology, Giornale Italiano di Cardiologia, Journal of Cardiovascular Medicine, Giornale Italiano di Aritmologia e Cardiolazione.

Clinical activity (Summary)

Prof. Pappone directed the Arrhythmology Department of the University-Hospital San Raffaele, Milan and of Maria Cecilia Hospital, Ravenna. Currently, he is the director of the Arrhythmology Department of San Donato University Hospital, Milan. He usually performs manual or remote ablation procedures for patients all over Italy or worldwide. The innovative remote and manual technologies for curative treatment of all cardiac arrhythmias in patients with heart diseases has an accompanying fellowship and has clinics in many locations, involving several faculty members and fellows, providing over 3,500 ablation procedures per year. In close collaboration with his colleagues at several national centers, including, but not limited to, the Universities of Ferrara, Messina, Bari, and Catanzaro, he is helping to develop new clinical programs in cardiac arrhythmia management, particularly in patients with atrial fibrillation, and more recently in patients with Brugada syndrome. He is developing an integrated care model where cardiologists, electrophysiologists, generalists, and subspecialists work as a team to optimize care for patients with heart diseases.

Participation in Clinical Trials

1994-1998. Principal Investigator in studies regarding the development and use of the CARTO electroanatomical mapping system in humans

Dr. Pappone was the first in the world to perform a mapping study in a human patient in 1994 1997-present. Principal Investigator in studies involving the use of the CARTO electroanatomical mapping system for guiding ablation of atrial fibrillation

1998-present. Main Investigator in trials on biventricular pacing for the treatment of heart failure (Insync and P A TH-CHF)

1995-present. Principal Investigator in studies testing the use of a novel form of nonexcitatory current to improve cardiac contractility in patients with heart failure (**IMPULSE**). Performed the first human acute hemodynamic studies testing the effects of the current between 1997 and 1999. Performed the first chronic implants in 6 patients with heart failure in 2000

2002. Co-Investigator in multicenter studies on the natural History of Brugada Syndrome.

2003. Co-Investigator in multicenter studies on a new automatic external cardioverter-defibrillator.

2005- Co-Investigator on Surgical ablation of atrial fibrillation with a novel bipolar radiofrequency device.

2005. Co-Investigator in multicenter studies on the PLAATO System for left atrial appendage closure.

2004-2005. Principal Investigator in a randomized, controlled study with the Michigan University- Hospital on Chronic atrial fibrillation and catheter ablation.

2006. Principal Investigator of the APAF study randomly comparing antiarrhythmic drug therapy and catheter ablation in paroxysmal atrial fibrillation.

2006. Co-Investigator in multicenter studies on percutaneous closure of the left atrial appendage

2008- Co-Investigator InSync ICD Italian Registry.

2008 Co-Investigator of the PRELUDE Registry multicenter study.

2008. Principal Investigator on Brugada syndrome by a personal grant of the Healthy Minister.

2010-2012. Principal investigator on Cool-flex catheter in atrial flutter.

2008-2009. Co-investigator in ThermoCool AF Trial Investigators with Wilber DJ.

2011-2012 Principal Investigator of Quadra catheter study.

2013-2015. Principal investigator on multipoint biventricular pacing randomized study.

2014-2017. Principal investigator in rotor evaluation and ablation in patients with atrial fibrillation

2014-2017 Principal investigator of Epicardial ablation in Brugada syndrome.

Research

His primary area of interest is the pathophysiology and treatment of patients with paroxysmal or persistent atrial fibrillation by interventional electrophysiology. The “Pappone approach” is currently one of the most used strategies to cure atrial fibrillation (*New Engl J Med* 2006, *Circulation* 2001, *Circulation* 2002). Pulmonary vein denervation as an additional benefit to PV isolation was first discovered by his group and published as “fast track” in *Circulation* 2004. Atrioesophageal fistula after ablation was first described by his group and published in *Circulation* 2004. His interest is also focused on pathophysiology and prevention of sudden death, particularly in patients with WPW syndrome (*New Engl J Med* 2003, *New Engl J Med* 2004, *New Engl J Med* 2005, *Circulation* 2005, *Circulation* 2012, *JACC* 2003) or in those with genetic diseases, such as Brugada Syndrome (*JACC* 2012, *Eur Heart J* 2009). Much of his previous work focused and continues to be focused on the electrical treatment of patients with refractory heart failure and hypertrophic or dilated cardiomyopathy. More recently, Pappone has focused his work on the natural history of untreated patients with ventricular preexcitation to identify those at risk of sudden death. His secondary focus is the design and implementation of large-scale randomized trials and prospective cohort studies. He is directly involved in most of these studies as a principal investigator, Consultant, Steering Committee Chair, or member. Pappone has been the Principal Investigator of several prospective randomized trials, such as the recent APAF Study, and a Co-Investigator on many other large-scale trials and observational studies, such as the ongoing multicenter CABANA study, which involves many European and USA investigators. He has initiated new single-center research programs in a large number of atrial fibrillation patients with heart disease and comorbidities designed to evaluate arrhythmia progression, as well as the effect of catheter ablation on thromboembolism and Quality of Life. He serves on the steering committee for AF ablation management and guidelines. A tertiary interest is the translation of our research findings to the clinical setting through comprehensive reviews, book chapters, and books. More recently, randomized trials have been conducted to evaluate the efficacy and safety of multipoint catheter in heart failure patients undergoing cardiac resynchronization therapy. His recent interest is focused on epicardial ablation in patients with Brugada syndrome, which was recently published with Prof. Pappone as principal investigator (*Circulation* AE 2017 and *Circulation* AE 2015). More than 200 patients with Brugada syndrome have been enrolled in a prospective observational study evaluating the effect of RF ablation on outcome (*Clinicaltrials.gov* 2017).

Groundbreaking Research

1. Authored landmark studies on radiofrequency transcatheter ablation for atrial fibrillation published for 3 consecutive years in *Circulation*, a leading journal in the field of cardiovascular medicine. These studies have been cited in 2,987 peer-reviewed articles. Leading study entitled “Catheter ablation of atrial fibrillation using a 3D mapping system” has itself been cited in 315 articles, including the guidelines issued by the American Heart Association/American College of Cardiology/European Society of Cardiology for management of patients with atrial fibrillation
2. Conducted seminal research on cardiovascular diseases, physiopathology antiarrhythmic drug therapy, asymptomatic Wolff-Parkinson White Syndrome, vagal denervation in patients undergoing AF ablation, remote navigation and ablation, progression of AF, and the electrical treatment of patients with heart failure, including cardiac resynchronization therapy using multisite pacing and the novel non-excitatory electrical cardiac contractility modulation signal
3. His ablation technique and his high-quality team work were mentioned in the article 10 Great Companies in Europe: San Raffaele, from *FORTUNE*, Feb 4, 2002 by Milton Moskowitz, Robert Levering, in which the San Raffaele was awarded as on the 10 best European places to work, especially in the biomedical research

4. The article **“Circumferential Radiofrequency Ablation of Pulmonary Vein Ostia: A New Anatomic Approach for Curing Atrial Fibrillation”**, (see Publications cited in the Science Citation Index ref. #54) earned an Editorial **“Pulmonary Vein Ablation in Atrial Fibrillation: Hype or Hope?”** by Hein J. J. Wellens, MD. *Circulation* 2000; 102: 2562-2564
5. The article entitled **“Usefulness of Invasive Electrophysiologic Testing to Stratify the Risk of Arrhythmic Events in Asymptomatic Patients With Wolff-Parkinson-White Pattern. Results From a Large Prospective Long-term Follow-up Study”**, (see Publications cited in the Science Citation Index ref. #44) earned an Editorial **“Asymptomatic Wolff-Parkinson- White Syndrome: is it Time to Revisit Guidelines?”** by Derick M. Todd et al., *J Am Coll Cardiol*, 2003, 41: 245- 48
6. The article entitled **“Mortality, morbidity, and quality of life after circumferential pulmonary vein ablation for atrial fibrillation: Outcomes from a controlled nonrandomized long-term study”**, (see Publications cited in the Science Citation Index ref. #48) earned an Editorial **“Ablation of atrial fibrillation: awaiting the new paradigm”** by Kenneth A. Ellenbogen and Mark A. Wood. *J Am Coll Cardiol* 2003 Jul 16; 42 (2),185-197
7. The article **“A Randomized Study of Prophylactic Catheter Ablation in Asymptomatic Patients with the Wolff–Parkinson–White Syndrome”** (see Publications cited in the Science Citation Index ref. #49) was awarded with the Editorial **High-Risk Patients with Ventricular Preexcitation — A Pendulum in Motion** by Bruce B. Lerman and Craig T. Basson. **THE NEW ENGLAND JOURNAL OF MEDICINE**, 2003 Nov 6;349: (19) 1787-1789
8. The article **“First Human Chronic Experience with Cardiac Contractility Modulation by Non-Excitatory Electrical Currents for Treating Systolic Heart Failure”** (see Publications cited in the Science Citation Index ref. #36) was awarded with the Editorial **Comment Nonexcitatory Electrical Currents for Congestive Heart failure: Exciting or Not?** by Mevan Wijetunga and S. Adam Strickberger. *J Cardiovasc Electrophysiol*. 2004: 428-429
9. The article **“Radiofrequency Ablation in Children with Asymptomatic Wolff-Parkinson-White Syndrome”**. (see Publications cited in the Science Citation Index ref. #39) was awarded with the Editorial **Catheter Ablation for Cardiac Arrhythmias** by Hein J.J. Wellens. **The New England Journal of Medicine**. 2004 Sept 16; 351 (12): 1197-2005
10. The summary of the article **“Prevention of Iatrogenic Atrial Tachycardia following ablation of Atrial Fibrillation. A prospective randomized study comparing circumferential pulmonary vein ablation with a modified approach.”** (see Publications cited in the Science Citation Index ref. #42) has been included in the *The Journal of Evidence-based Cardiovascular Medicine*, which includes summaries of only the 100 best and most useful papers published throughout the world featuring the highest quality original research
11. The article **“Circumferential Pulmonary-Vein Ablation for Chronic Atrial Fibrillation”**. (see Publications cited in the Science Citation Index ref. #19) was awarded with the Editorial **Catheter Ablation of chronic atrial fibrillation- the gap between promise and practice** by Mark A. Wood and KA Ellenbogen. **The New England Journal of Medicine**, 2006;354: 967-968
12. The article **“Atrial fibrillation progression and management. A 5-year prospective follow-up study”** (see Publications cited in the Science Citation Index ref. #8) earned an Editorial **“Prevention of progression of atrial fibrillation: A new indication for catheter ablation?”** by H Calkins. *Heart Rhythm*. 2008; 5 (11): 1508-1509
13. The article **“The natural history of asymptomatic ventricular preexcitation. A long-term**

prospective follow-up study of 184 asymptomatic children" (see Publications cited in the Science Citation Index) was awarded with the editorial "Asymptomatic Wolff-Parkinson-White Syndrome in Children An Unnatural History?" by Seshadri Balaji. *J Am Coll Cardiol.* 2009; 53: 281- 283

14. The article "**Asymptomatic ventricular preexcitation: A long-term prospective follow-up study of 293 adult patients**" (see Publications cited in the Science Citation Index ref. #7) earned an Editorial "WPW pattern in the asymptomatic individual. Has anything changed?" by G.J. Klein. *Circ Arrhythmia Electrophysiol* 2009; 2: 97-99

15. The article "**Risk of Malignant Arrhythmias in Initially Symptomatic Patients with WPW Syndrome: Results of a Prospective Long-Term Electrophysiological Follow-Up Study.** (see Publications cited in the Science Citation Index) was awarded with the editorial "Risk of sudden death in Wolff-Parkinson-White syndrome: how high is the risk?" by Obeyesekere M, Gula

16. The article "**Brugada syndrome phenotype elimination by epicardial substrate ablation**" (Circulation AE 2015) has been recently awarded with the editorial "Epicardial Substrate Ablation in Brugada Syndrome: Time for a Randomized Trial! By Wilde AA and Nademanee K.

Scientific Interviews and Press Conferences

2000 Press release, American Heart Association: "A hot tip destroys heart cells, cures atrial fibrillation".

Interview, American College of Cardiology Extended Learning (ACCEL) Audiotapes – Circumferential Pulmonary Vein Ablation. A New Anatomic Approach for Curing Atrial Fibrillation.

2001 Press release and conference, Congress of the European Congress of Cardiology 2001. Atrial fibrillation: is the cure at hand?

Interview, American College of Cardiology Extended Learning (ACCEL) Audiotapes – Chronic atrial fibrillation: A Curable condition?

2003 Press release, SorinLifeWatch. "Atrial fibrillation: is the cure at hand?"

Interview, American College of Cardiology Extended Learning (ACCEL) Audiotapes – Chronic atrial fibrillation: A Curable condition?

2006 Interview, American College of Cardiology 55th Annual Scientific Session, Atlanta, GA, USA, March 11- 14, 2006.

Late Breaking Clinical Trial. A Controlled Randomized Trial of Circumferential Pulmonary Vein Ablation Versus Antiarrhythmic Drug Therapy for Curing Paroxysmal Atrial Fibrillation: The Ablation for Paroxysmal Atrial Fibrillation (AP AF) Trial

2008 Press release and conference, American Heart Association Scientific Sessions 2008. New Orleans. November 9-12, 2008. Catheter ablation versus antiarrhythmic drug therapy in paroxysmal atrial fibrillation. A Long-term Randomized Follow-up Study. The AP AF-2 Study (published in Circulation 2008)

Professional Associations

Fellow, American College of Cardiology

Fellow, Heart Rhythm Society

Member, Council on Clinical Cardiology, American Heart Association

Honorary Member, Russian Society for Cardiac Pacing and Electrophysiology

Organization of Scientific Events

1. Updates in Cardiology Meeting: "Technical and Clinical Aspects of a New Rate Responsive Pacing System" Napoli, Oct. 16 1991
2. Il Regional Symposium Update in Cardiac Pacing: "Nuovi aspetti del trattamento elettrico delle aritmie cardiache" Napoli, Nov. 22-23, 1991
3. Cardiology Conference: "Non-pharmacological treatment of cardiac arrhythmias: transcatheter ablation and implantable cardioverter defibrillator" Napoli, Nov. 25, 1992
4. Cardiology Conference: "L'ablazione transcaterere a radiofrequenza: aspetti elettrofisiologici e clinici" Napoli, June 11, 1993
5. Course on Theory and Practice of "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (1st edition). Napoli, April 18-23, 1994. **Course Director: Pappone C.**
6. Italian Cardioslim Symposium, 9th International Congress Cardioslim '94, Nice, June 15-18, 1994
7. Cardiology 1994, Testi di Aggiornamento e Atti del 28° Convegno Internazionale del Centro A. De Gasperi Ospedale "Ca' Granda" Milano – Riguarda Hospital, Sept. 26-30, 1994
8. 2nd Cardioslim Pan Slavian International Congress on Cardiac Pacing and Electrophysiology. Saint Petersburg, February 2-5, 1995
9. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias " (2nd edition) Mercogliano, June 26–July 1, 1995
10. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (3rd edition). Milano, July 1-6 1996. HS.Raffaele- International Biomedical Science Park. **Course Director: Pappone C.**
11. Course on Theory and Practice "Implantation of pacemakers and anti- tachycardia devices" (1st Edition) Milano, 7-9 luglio 1996. HS Raffaele- International Biomedical Science Park. **Course Director: Pappone C.**
12. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (4th edition). Milano, 23-29 Giugno 1997. HS. Raffaele- International Biomedical Science Park. **Course Director: Pappone C.**
13. Corso teorico pratico sulla diagnostica e terapia elettrica delle aritmie. Chia 8/10 Luglio 1997 St. Jude Medical Italia S.p.A. Cardiac Rhythm Management Division
14. Ablation therapy for atrial fibrillation. Workshop on Genesis and Management of Cardiac Arrhythmias – International Heart School – Bergamo, Aprile 1998
15. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (5th edition). Milano, 29 Giugno- 3 Luglio 1998. HS.Raffaele – International Biomedical Science Park. **Course Director: Pappone C.**
16. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (6th edition). Milano, 29 Giugno - 3 Luglio 1999. HS.Raffaele – International Biomedical Science

Park. **Course Director: Pappone C.**

17. Course on Theory and Practice "Radiofrequency Catheter Ablation of Cardiac Arrhythmias" (7th edition) Baveno, June 12-15 2000. HS.Raffaele – International Biomedical Science Park. **Course Director: Pappone C.**

18. "Ablation of Cardiac Arrhythmias: RF Advanced Course on Theory and Practice" (8th edition). Baveno and Milan, July, 12-15, 2001. **Course Director: Pappone C.**

19. Course on "Theory and Practice of Catheter Ablation of Atrial Fibrillation" (9th edition). Milan and Naples, April 17-19, 2002 **Course Director: Pappone C.**

20. International courses and training programs accredited by the European Society of Cardiology (EBAC) – San Raffaele University Hospital – Milan (Italy), 2005-2009 **Course Director: Pappone C.**

21. International courses and training programs accredited by the European Society of Cardiology (EBAC) – Maria Cecilia Hospital – Cotignola (Ra) (Italy), 2010-2014 **Course Director: Pappone C.**

22. Dream Team at Work accredited by EBAC an HRS – Maria Cecilia Hospital – Cotignola (Ra) (Italy), April 10-12, 2014 **Course Director: Pappone C.**

23. World Summit on Brugada syndrome ablation accredited by AHA, Heart Rhythm Society, European Society of Cardiology- Policlinico San Donato- San Donato Milanese, February 16-18, 2017 **Course Director: Pappone C.**

Teaching material

Video on CD rom: "*How to Perform Circumferential Pulmonary Vein Ablation with Electroanatomical Guidance*". Editor: Carlo Pappone. Copyright: Sept. 2000.

Videotapes: "*How to implant biventricular pacemakers in patients with heart failure*" (basics and advanced techniques). Editor: Carlo Pappone. Copyright: July 2000.

Course Syllabus: "*Theory and Practice of Catheter Ablation of Atrial Fibrillation 2002*". Editors: Carlo Pappone (Course Director) and Salvatore Rosanio.

DVD Video Collection "*Theory and Practice of Catheter Ablation of Atrial Fibrillation. Seven different cases*". Editor: Carlo Pappone. Copyright: December 2002.

DVD Video Stereotaxis "*Atrial Fibrillation Ablation*". Editor: Carlo Pappone. Copyright: 2006

DVD Video "*Cardiac Resynchronization Therapy*". Editor: Carlo Pappone. Copyright: 2006

DVD Video "*Management of Advanced Atrial Fibrillation*". Editor: Carlo Pappone. Copyright: 2011

DVD Video "*Stroke Prevention: Left Atrial Appendage Occlusion*". Editor: Carlo Pappone. Copyright: 2011

DVD Video "*Circumferential Pulmonary Vein Ablation With MediGuide® System*". Editor: Carlo Pappone. Copyright: 2012

Original Articles published in International Journals

1. Ciconte G, Čalović Ž, McSpadden LC, Ryu K, Mangual J, Caporaso I, Baldi M, Saviano M, Cuko A, Vitale R, Conti M, Giannelli L, Vicedomini G, Santinelli V, **Pappone C.** Multipoint left ventricular pacing improves response to cardiac resynchronization therapy with and without pressure-volume loop optimization: comparison of the long-term efficacy of two different

- programming strategies. *J Interv Card Electrophysiol*. 2018 Nov 27. doi: 10.1007/s10840-018-0480-6. [Epub ahead of print] PMID: 30483980
2. Ghiroldi A, Piccoli M, Cirillo F, Monasky MM, Ciconte G, **Pappone C**, Anastasia L. Cell-Based Therapies for Cardiac Regeneration: A Comprehensive Review of Past and Ongoing Strategies. *Int J Mol Sci*. 2018 Oct 16;19(10). pii: E3194. doi: 10.3390/ijms19103194. Review. PMID: 30332812
 3. Glover BM, Hong KL, Dagres N, Arbelo E, Laroche C, Riahi S, Bertini M, Mikhaylov EN, Galvin J, Kiliszek M, Pokushalov E, Kautzner J, Calvo N, Blomström-Lundqvist C, Brugada J; ESC-EHRA Atrial Fibrillation Ablation Long-Term Registry investigators. Impact of body mass index on the outcome of catheter ablation of atrial fibrillation. *Heart*. 2018 Oct 2. pii: heartjnl-2018-313490. doi: 10.1136/heartjnl-2018-313490. [Epub ahead of print] PMID: 30279268
 4. Bergante S, Creo P, Piccoli M, Ghiroldi A, Menon A, Cirillo F, Rota P, Monasky MM, Ciconte G, **Pappone C**, Randelli P, Anastasia L. GM1 Ganglioside Promotes Osteogenic Differentiation of Human Tendon Stem Cells. *Stem Cells Int*. 2018 Aug 23;2018:4706943. doi: 10.1155/2018/4706943. eCollection 2018. PMID: 210549
 5. Monasky MM, **Pappone C**, Piccoli M, Ghiroldi A, Micaglio E, Anastasia L. Calcium in Brugada Syndrome: Questions for Future Research. *Front Physiol*. 2018 Aug 10;9:1088. doi: 10.3389/fphys.2018.01088. eCollection 2018. Review. PMID: 30147658
 6. Ciconte G, Vicedomini G, Giacomelli D, Calovic Z, Conti M, Spinelli B, Saviano M, Santinelli V, **Pappone C**. Feasibility of Remote Monitoring Using a Novel Long-Dipole Insertable Cardiac Monitor. *JACC Clin Electrophysiol*. 2018 Apr;4(4):559-561. doi: 10.1016/j.jacep.2017.12.018. No abstract available. PMID: 30067500
 7. Ciconte G, Santinelli V, Brugada J, Vicedomini G, Conti M, Monasky MM, Borrelli V, Castracane W, Aloisio T, Giannelli L, Di Dedda U, Pozzi P, Ranucci M, **Pappone C**. General Anesthesia Attenuates Brugada Syndrome Phenotype Expression: Clinical Implications From a Prospective Clinical Trial. *JACC Clin Electrophysiol*. 2018 Apr;4(4):518-530. doi: 10.1016/j.jacep.2017.11.013. Epub 2018 Feb 13. PMID: 30067493
 8. Cavalli M, Fossati B, Vitale R, Brigonzi E, Ricigliano VAG, Saraceno L, Cardani R, **Pappone C**, Meola G. Flecainide-Induced Brugada Syndrome in a Patient With Skeletal Muscle Sodium Channelopathy: A Case Report With Critical Therapeutical Implications and Review of the Literature. *Front Neurol*. 2018 May 30;9:385. doi: 10.3389/fneur.2018.00385. eCollection 2018. PMID: 29899727
 9. Ciconte G, Conti M, Evangelista M, **Pappone C**. Atrial Fibrillation in Autoimmune Rheumatic Diseases: from Pathogenesis to Treatment. *Rev Recent Clin Trials*. 2018;13(3):170-175. doi: 10.2174/1574887113666180418110721. PMID: 29669504
 10. **Pappone C**, Ciconte G, Manguso F, Vicedomini G, Mecarocci V, Conti M, Giannelli L, Pozzi P, Borrelli V, Menicanti L, Calovic Z, Della Ratta G, Brugada J, Santinelli V. Assessing the Malignant Ventricular Arrhythmic Substrate in Patients With Brugada Syndrome. *J Am Coll Cardiol*. 2018 Apr 17;71(15):1631-1646. doi: 10.1016/j.jacc.2018.02.022. PMID: 29650119
 11. **Pappone C**, Santinelli V. *J Cardiovasc Med (Hagerstown)*. Ablation for persistent atrial fibrillation in patients with heart failure: is it underutilized? 2018 Feb;19 Suppl 1:e99-e102. doi: 10.2459/JCM.0000000000000645. No abstract available. PMID: 29538154
 12. **Pappone C**, Ciconte G, Vicedomini G, Mangual JO, Li W, Conti M, Giannelli L, Lipartiti F, McSpadden L, Ryu K, Guazzi M, Menicanti L, Santinelli V. Clinical Outcome of Electrophysiologically Guided Ablation for Nonparoxysmal Atrial Fibrillation Using a Novel Real-Time 3-Dimensional Mapping Technique: Results From a Prospective Randomized Trial. *Circ Arrhythm Electrophysiol*. 2018 Mar;11(3):e005904. doi: 10.1161/CIRCEP.117.005904. PMID: 29535136
 13. Varma N, O'Donnell D, Bassiouny M, Ritter P, **Pappone C**, Mangual J, Cantillon , Badie N, Thibault B, Wisnoskey B. Programming Cardiac Resynchronization Therapy for Electrical Synchrony: Reaching Beyond Left Bundle Branch Block and Left Ventricular Activation Delay. *J Am Heart Assoc*. 2018 Feb 6;7(3). pii: e007489. doi: 10.1161/JAHA.117.007489. PubMed PMID: 29432133.
 14. Ciconte G, Čalović Ž, Vicedomini G, Cuko A, McSpadden LC, Jiang C, Ryu K, Caporaso I,

- Stutz R, Winter D, Saviano M, Vitale R, Conti M, Santinelli V, **Pappone C**. Multipoint pacing improves peripheral hemodynamic response: Noninvasive assessment using radial artery tonometry. *Pacing Clin Electrophysiol*. 2018 Feb;41(2):106-113. doi: 10.1111/pace.13254. Epub 2018 Jan 8. PubMed PMID: 29222865.
15. Monasky MM, Ciconte G, Anastasia L, **Pappone C**. Commentary: Next Generation Sequencing and Linkage Analysis for the Molecular Diagnosis of a Novel Overlapping Syndrome Characterized by Hypertrophic Cardiomyopathy and Typical Electrical Instability of Brugada Syndrome. *Front Physiol*. 2017 Dec 12;8:1056. doi: 10.3389/fphys.2017.01056. eCollection 2017. PubMed PMID: 29311983; PubMed Central PMCID: PMC5733025.
 16. Ciconte G, Conti M, Vicedomini G, Santinelli V, Brugada J, **Pappone C**. Intermittent alternance of Brugada ECG patterns: Insights from a unique electrophysiological phenomenon. *J Cardiovasc Electrophysiol*. 2017 Dec;28(12):1482-1484. doi: 10.1111/jce.13317. Epub 2017 Sep PubMed PMID:28833819.
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 19. Ciconte G, Conti M, Baldi M, Saviano M, Vicedomini G, **Pappone C**. Thrombosis on a left atrial appendage occluder device: the double-edged sword of stroke prevention strategies in atrial fibrillation. *J Cardiovasc Med (Hagerstown)*. 2017 Nov;18(11):920-921. doi: 10.2459/JCM.0000000000000570. PubMed PMID: 28937581.
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 22. Giamberti A, Pluchinotta FR, Chessa M, Varrica A, Vitale R, Frigiola A, **Pappone C**, Ranucci M. Surgery for supraventricular tachycardia and congenital heart defects: long-term efficacy of the combined approach in adult patients. *Europace*. 2017 Sep 1;19(9):1542- 1548. doi: 10.1093/europace/euw278. PubMed PMID: 27738072.
 23. Ciconte G, Giacomelli D, **Pappone C**. The Role of Implantable Cardiac Monitors in Atrial Fibrillation Management. *J Atr Fibrillation*. 2017 Aug 31;10(2):1590. doi: 10.4022/jafib.1590. eCollection 2017 Aug-Sep. Review. PubMed PMID: 29250232; PubMed Central PMCID: PMC5673291.
 24. O'Donnell D, Sperzel J, Thibault B, Rinaldi CA, **Pappone C**, Gutleben KJ, Leclercq C, Razavi H, Ryu K, Mcspadden LC, Fischer A, Tomassoni G. Additional electrodes on the Quartet™ LV lead provide more programmable pacing options than bipolar and tripolar equivalents. *Europace*. 2017;19(4):588-595.
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27. **Pappone C**, Brugada J, Vicedomini G, Ciconte G, Manguso F, Saviano M, Vitale R, Cuko A, Giannelli L, Calovic Z, Conti M, Pozzi P, Natalizia A, Crisà S, Borrelli V, Brugada R, Sarquella-Brugada G, Guazzi M, Frigiola A, Menicanti L, Santinelli V. Electrical Substrate Elimination in 135 Consecutive Patients With Brugada Syndrome. *Circ Arrhythm Electrophysiol.* 2017 May;10(5):e005053. doi: 10.1161/CIRCEP.117.005053. PubMed PMID: 28500178.
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8. **Pappone C,** and Santinelli V. Heart failure. The pacing therapy. *Minerva Cardioangiol.* 2003 Apr;51(2):179-184. Review
9. **Pappone C,** Rosanio S, Oreto G, Tocchi M, Gugliotta F, Salvati A, Dicandia C, Mazzone P, Santinelli V, Gulletta S, Vicedomini G. Perspectives in the treatment of atrial fibrillation. Circumferential radiofrequency ablation of pulmonary vein ostia. *Recenti Prog Med.* 2001 Sep;92(9):508-12. Review
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11. **Pappone C** and Santinelli V. Pulmonary vein isolation by circumferential radiofrequency lesions

in atrial fibrillation. From substrate to clinical outcome. *Ann Ist Super Sanità*. 2001;37(3):401-7

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13. **Pappone C**. Low energy transvenous atrial defibrillation. When and how to use it. *Ital Heart J*. 2000 Feb;1(2):143-5
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15. Oreto G, **Pappone C**. Electrophysiological bases of atrial fibrillation. *Cardiologia*. 1999;44 Suppl 1(Pt 2):889-92. Review
16. Alfieri O, Benussi S, Nascimbene S, **Pappone C**. The ablation of chronic atrial fibrillation during mitral surgery: a realistic prospect. *G Ital Cardiol*. 1998 Nov;28(11):1317-21. Review
17. Stabile G, **Pappone C**, Solimene F, Senatore G, De Simone A, Marrazzo N, Mazzone P, Chiariello M. The physical and chemical principles of radiofrequency catheter ablation in arrhythmias. *Cardiologia*. 1996 Nov; 41 (11):1053-9. Review
18. **Pappone C**, Stabile G, De Simone A, Senatore G, Turco P, Marrazzo N, Mazzone P, Santomauro M, Chiariello M. Radiofrequency catheter ablation of atrial tachycardia: technique, results and follow-up. *G Ital Cardiol*. 1996 Jan; 26(1):5-19
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22. **Pappone C**, Lamberti F, Santomauro M, Stabile G, De Simone A, Franciosa P, Senatore G, Loricchio ML, Chiariello M. A methodological approach to the transcatheter radiofrequency ablation of anomalous Kent-type pathways. *Cardiologia*. 1993 Oct;38(10) :651-60
23. Santomauro M, Romano M, **Pappone C**, Ferraro S, Fazio S, Maddalena G, Damiano M, Chiariello M. Anaerobic threshold in the evaluation of heart function in patients with rate-responsive pacemaker. *Cardiologia*. 1991 Aug; 36(8):603-9

CITATIONS(n= 13.421)

Textbook Chapters and Invited Articles

Book Chapters

1. **Pappone C**, Zuffada F and Santinelli V. How to perform circumferential ablation for atrial fibrillation. In **Hands-On Ablation: The Experts' Approach**. Editors Drs. Amin Al-Ahmad, David Callans, Henry H. Hsia, Andrea Natale, Oscar Oseroff, and Paul J. Wang. 2012
2. **Pappone C**, Zuffada F and Santinelli V. Atrial Fibrillation: Linear Catheter ablation. In **Interventional Cardiac Electrophysiology: A Multidisciplinary Approach**. Editors: Dr. Sanjeev Saksena, and with associated editors, Francis E. Marchlinski, Ralph J. Damiano, Jr., and N. A. Mark Estes III. 2012
3. **Pappone C**, Zuffada F and Santinelli V. Diabetes, atrial fibrillation and sudden death. In **Type 2 diabetes**. 2012
4. **Pappone C**, V. Santinelli : Magnetisch gesteuerte Führungsdrähte für die schrittmacherplatzierung. In **Computerassistierte Chirurgie**, Chapter 35. Editors PM Schlag , S. Eulenstein, T. Lange. Elsevier 2011
5. **Pappone C**. and Santinelli V. Complications of atrial fibrillation ablation. In: **Complications of cardiovascular procedures: risk factors, management and bailout techniques**. Editors:M. Moscucci. Lippincott Williams & Wilkins; 1 edition. October 20, 2010
6. **Pappone C**. and Santinelli V. Ablation in long-standing AF. Is it wise to pursue it? In: **A practical approach to clinical arrhythmology**. Editors: L Mont, J Brugada. Marge Medica Books, Valencia 2010
7. **Pappone C** and Santinelli V (2009). Ablation of Atrial Fibrillation. In: **Cardiac Electrophysiology: From Cell to Bedside** (5th Edition) Editors: Douglas P. Zipes and José Jalife. Saunders Elsevier 2009
8. **Pappone C**.and Santinelli V. Magnetic navigation. In: **Computerassistierte Chirurgie** Editors: P.M. Schlag, S. Eulenstein, T Lange, M. Kleemann. Elsevier 2009
9. **Pappone C**. and Santinelli V. Endovascular interventions. In: **Computerassistierte Chirurgie** Editors: P.M. Schlag, S. Eulenstein, T Lange, M. Kleemann. Elsevier 2009
10. **Pappone C**. and Santinelli V. Modulazione della contrattilità cardiaca attraverso l' utilizzo di correnti non eccitatorie In: **Trattato Italiano di Elettrofisiologia ed Elettrostimolazione cardiaca AIAC**. Editors: M. Santini, R.P. Ricci. 2009. 975-978
11. **Pappone C** and Santinelli V. Complicanze delle procedure di ablazione transcatetere: diagnosi e trattamento. In: **Trattato Italiano di Elettrofisiologia ed Elettrostimolazione cardiaca AIAC**. Editors: M. Santini, R.P. Ricci. 2009. 305-306
12. **Pappone C** and Santinelli V. Progressi in elettrofisiologia interventistica. In: **Trattato Italiano di Elettrofisiologia ed Elettrostimolazione cardiaca AIAC**. Editors: M. Santini, R.P. Ricci. 2009. 294-299
13. **Pappone C**, Radinovic A and Santinelli V. Biofisica dell'ablazione transcatetere. In: **Trattato Italiano di Elettrofisiologia ed Elettrostimolazione cardiaca AIAC**. Editors: M. Santini, R.P. Ricci. 2009. 300-304
14. **Pappone C**; Santinelli V. Pulmonary vein isolation to ablate atrial fibrillation. In **Cardiac electrophysiology: from cell to bedside** Zipes D.P. and Jalife. 2009
15. **Pappone C**; Santinelli V. Remote Navigation Implantation Technique. In **Cardiac Resynchronization Therapy**, Second Edition. 2009
16. **Pappone C** and Santinelli V. Percutaneous treatment of atrial fibrillation. In: **Manual of surgical treatment of atrial fibrillation**. Editors. H.T Sie, G. D'Ancona, F. Bartolozzi, W.P. Beukema and D.B. Doty. Blackwell Publishing 2008. 205-213
17. **Pappone C** and Santinelli V. Circumferential Atrial Ablation. In: **A Practical Guide to Catheter Ablation of Atrial Fibrillation**. Editors: Hugh Calkins, Pierre Jais, and Jonathan S. Steinberg Lippincott Williams & Wilkins 2008; 167-183
18. **Pappone C**. and Santinelli V. Remote navigation implantation technique. In: **Cardiac**

- Resynchronization Therapy**. Editors: Cheuk-Man Yu, David L. Hayes and Angelo Auricchio. Blackwell Futura 2008; 250-260
19. **Pappone C.** and Santinelli V. Morbidity and mortality of ablation vs drugs. In: **Catheter Ablation of Atrial Fibrillation**. Editors: Etienne Aliot, Michel Haissaguerre and Warren M. Jackman. 2008. 219-232
 20. **Pappone C** and Santinelli V, Circumferential ablation of the pulmonary veins. In : **Catheter ablation of cardiac arrhythmias: Basic concepts and clinical applications**. Editors: Packer Douglas, Stevenson W, Wilber David, 3rd Edition Blackwell Publishing 2007. 221-236
 21. **Pappone C**, Ellenbogen K and Santinelli V. Linear ablation for Atrial Fibrillation. In: **Catheter Ablation of Cardiac Arrhythmias**. Editors: Steven Huang Mark A. Wood. Saunders Elsevier 2006; 305-321
 22. **Pappone C**, Calcaterra G, Patologie Cardiovascolari in Gravidanza.. In: **Manuale di Ginecologia e Ostetricia**. Editors: Augusto Ferrari, Luigi G. Frigerio, Mc Graw Hill, I Edizione, Marzo 2004; 341-350
 23. **Pappone C**, Rosanio S, Oreto G, Tocchi M, Gugliotta F, Salvati A, Dicandia C, Mazzone P, Santinelli V, Gulletta S, Vicedomini G. Milan experience of catheter ablation for atrial fibrillation. In: **Cardiac Arrhythmias 2001**. Editor: A Raviele. Springer-Verlag, Milan-Italy 2001;447-452.
 - 2001 24. **Pappone C**, Rosanio S. Chronic atrial fibrillation in an 80-year old patient. In: **Atrial fibrillation: a practical approach**. Editor: J. Brugada. Prous- Science, Barcelona Philadelphia. 49-53; 2000
 25. **Pappone C**, Rosanio S. Direct atrial fibrillation ablation. Catheter-based MAZE procedure. In: **Atrial fibrillation: a practical approach**. Editor: J. Brugada Prous Science, Barcelona- Philadelphia. 159-164; 2000
 26. **Pappone C**, Oreto G. Preexcitation (Wolf-Parkinson-White syndrome). [Italian] In: **Cardiology Textbook Vol. III**, Excerpta Medica Reed Elsevier, Milano. 2379-2415; 2000
 27. **Pappone C**, Oreto G, Rillo M, Chierchia S. 'Inappropriate' sinus tachycardia: which mechanism and therapy? In: **Cardiac Arrhythmias**. Editor: A Raviele. Springer-Verlag, Milan-Italy. 1997

Books

- a. **Pappone C and Santinelli V**. Atrial Fibrillation. Editors: Pappone C. and Santinelli V (2011).
- b. **Pappone C and Santinelli V**. Wolff-Parkinson-White. Editors: Pappone C. and Santinelli V
- c. **Pappone C and Santinelli V**. Cardiac Resynchronization therapy in heart failure. Editors Pappone and Santinelli (2016).

National or International Contributions

International Invited Lectures

1. November 2018 Chicago – American Heart, Invited Speaker **“Perspective: the Ultimate Substrate Modification: Burn Baby Burn in Asymptomatic Brugada”**.
2. November 2018 New York – Advanced Concepts in Electrophysiology, Invited Speaker: **“Epicardial Ablation in the Genetic Cardiomyopathies”**.
3. March 2018 Barcelona – EHRA Congress, Invited Speaker: **“ Mapping and ablation in chennelopathies”**

4. June 2017 Vienna – Cardiostim 2017, Invited Speaker: “ **Preexcitation Syndromes**”
5. June 2017 Vienna – Cardiostim 2017, Invited Speaker: “ **Ablation of asymptomatic accessory pathways: is it really necessary?**”
6. June 2017 Vienna – Cardiostim 2017, Invited Speaker: “ **Ablation in or of Brugada Syndrome**”
7. April 2017 Portugal – Portuguese Congress of Cardiology 2017, Invited Speaker: “ **How to map persistent AF and increase efficacy of ablation therapy**”
8. April 2017 Cincinnati – University of Cincinnati – Special guest Seminar, “ **Brugada Syndrome Ablation: Acute and Long Term Results**” and “ **Persistent Atrial Fibrillation, Mapping and Ablation**”
9. November 2016 New York – Advanced Concepts in Electrophysiology- Interactive Workshop for CRT and EP, Invited Speaker: “ **Brugada Ablation: Long-Term Results**”.
10. October 2016 Dubai – Excellence in Cardiac Care Congress, Lecture: “ **Atrial Fibrillation mapping and ablation with a new software**”.
11. June 2016 Nice – Cardiostim, Invited speaker: “ **Epicardial ablation in Brugada Syndrome. Insights from a prospective Registry study of 50 consecutive patients**”.
12. February 2016 Lisbon – Arritmias 2016, Lecture: “ **How to cure Brugada Syndrome**”.
13. January 2016 Dubai– Middle East Cardiovascular Disease, Invited Speaker: “ **The Brugada Syndrome: is it a curable disease?**”
14. May 2015 Boston. HRS, Invited speaker: “ **My approach to AF ablation today**”.
15. November 2014 New York – Advanced Concepts in Electrophysiology- Interactive Workshop for CRT and EP, Invited Speaker: “ **Emerging Technologies for Catheter Ablation**”.
16. August 2014 Barcelona. ESC Congress 2014, Invited Speaker: “ **Improving cardiac resynchronization therapy response**”.
17. June 2014 Cuba. VIII Congress on Cardiology, Lecture “ **Past, present and future of atrial fibrillation**”.
18. January 2014 Boston – Boston AF Symposium 2014, Invited Speaker: “ **Role of non-fluoroscopic systems in mapping and ablation of AF**”.
19. November 2013 Moscow- The Bakoulev Center for Cardiovascular Surgery of the Russian Academy of Medical Sciences Implants JSC International Courses, Lecture: “ **AF Ablation: the role of non fluoroscopic systems**”.
20. September 2013 New York. Advanced Concepts in Electrophysiology- Interactive Workshop for CRT and EP Lecture “ **Management of non-responders. Post-ablation: what is the next step?**”
21. Maggio 2013 – Denver. Heart Rhythm Society. Lecture: “ **Cardiac Contractility Modulator**”.
22. March 2013 – Barcelona. 12th Atrial Fibrillation Symposium. “ **AFIB from pathophysiology to ablation techniques**”.
23. January 2013 – Boston. AF Symposium. “ **Brugada Syndrome and atrial fibrillation: do they share a common mechanism?**”
24. May 2012 Boston – HRS SJM – Kick Off Meeting AF/Velocity 3.0 SJM – Lunch Symposium Welcome and Introduction. Lecture: “ **My Technique to Ablation of Long Standing AF**”; Lecture: “ **Using Robotic Remote Control** ”
25. June 2012 Nice - Cardiostim JM – Satellite Symposium SJM–MediGuide System Physician Round Table
26. February 2011 Long term outcome and risk of catheter ablation for atrial fibrillation; Panel discussion: “ **Optimizing the safety of catheter ablation for atrial fibrillation**”–The Expert Writing Group to Revise the 2007 HRS/EHRA/ECAS Expert Consult Statement on Catheter and Surgical Ablation of Atrial Fibrillation
27. January 2011 AF Boston Symposium, Invited Speaker: “ **Permanent atrial fibrillation: natural history and treatment strategies**”
28. January 2011- Amsterdam. Global left atrial appendage occlusion summit –Invited Speaker: “ **What is the role of LAA occlusion in the therapeutic portfolio to combat AF?**”
29. March 2011. 14th Prague Workshop on catheter ablation –Invited Speaker: “ **The potential of remote navigation in catheter ablation of atrial fibrillation**”

30. March 2011–Vienna. Atrial Fibrillation Symposium: Discussion: Role of comorbidities in progressive atrial fibrillation: how do we select the right patients for the ablation? Invited Speaker: ***“What have we learned after 10 years of AFIB ablation and what should we change?”***
31. May 2011-SanFrancisco.Heart Rhythm Society: Invited Speaker: ***“This is how I ablate AF expert unplugged”***
32. June 2011-Mosca. Russian Congress on arrhythmology: Invited Speaker: ***“Future of robotic technique in AF treatment for specialists and everybody”***
33. June 2011-Madrid. EuroPace. Invited Speaker in Stereotaxis Symposium: ***“Vision for the future”***; Invited Speaker: ***“Magnetic catheter navigation”***; Chairman: ***“New technology for optimized AF ablation outcomes”***
34. August 2011-Parigi. ESC. Invited Speaker: ***“Navigating ablation in the clinical setting”***; Live transmission: ***“Invasive strategies for permanent atrial fibrillation”***
35. October 2011-Venezia. Venice Arrhythmias. Chairman: ***“Biosense luncheon panel”***; SJM Satellite Symposium: ***“New irrigated tip catheters”***; Invited Speaker: ***“Remote robotic systems for navigation, mapping and ablation”***
36. November 2011-New York. Advanced concepts in electrophysiology: New York Langone Medical Center-Invited Speaker: ***“Ablation of arrhythmias: a global perspective”***
37. December 2011-Atene. 14TH ICPEs Congress. Chairman: ***“Atrial fibrillation rate or rhythm control of AF revisited”***; Invited Speaker: ***“AF ablation: where do we stand today and what is the future?”***; Invited Speaker ***“Risk of malignant arrhythmias in initially symptomatic patients with WPW Syndrome. Results of a prospective follow-up study”***; Invited Speaker: ***“Occlusion of appendage: what is the role in the AF strategy?”***
38. January 2010. Boston atrial fibrillation symposium: Invited Speaker: ***“Long term outcome and risks of catheter ablation for AF”***; Panel discussion: ***“Optimizing the safety of catheter ablation for AF”***
39. March 2010. Berlino 9TH Atrial fibrillation symposium. Invited Speaker: ***“The future of AFIB ablation”***
40. May 2010-Denver. Heart Rhythm 2010. Invited Speaker: ***“Do we ablate all asymptomatic WPW?”***
41. June 2010-Nizza. Cardiostim 2010. Invited Speaker: ***“Role of cardiac contractility modulation Milan perspective”***
42. June 2010-Miami. International Medical Congress-Advances in minimally invasive treatments. Invited Speaker: ***“Percutaneous radiofrequency ablation of atrial fibrillation”***
43. August 2010-Stoccolma. ESC Congress 2010 - Invited Speaker: ***“Patients with persistent/permanent atrial fibrillation”***
44. October 2010-New York. Atrial fibrillation symposium: Myths, mysteries & management; Invited Speaker: ***“Mysteries of AF ablation: facts from over 15000 ablations & 15 years of experience”***
45. November 2010-London. Europe AF 2010: Invited Speaker: ***“Hybrid procedures for the treatment of chronic atrial fibrillation”***
46. November 2010. Pacing 2010: Roma Invited Speaker: ***“Novel treatment strategies for stroke prevention in patients suffering from atrial fibrillation”***. Lettura magistrale; ***“New strategy for the treatment of chronic atrial fibrillation”***
47. October 2009. ***“The EP lab of the future: a new revolutionary era for Atrial Fibrillation ablation.”*** Included in the session Technology power: are we overcoming any human ability? Venice 2009 Arrhythmias - 11th International Workshop on Cardiac Arrhythmias – Venice (Italy)
48. October 2009. ***“Robotic magnetic navigation and ablation.”*** Included in the session Chronic atrial fibrillation: long-term results of catheter ablation. Venice 2009 Arrhythmias - 11th International Workshop on Cardiac Arrhythmias – Venice (Italy)
49. September 2009. ***“How to define and confirm success after AF ablation.”*** Europe AF 2009. London
50. August 2009. ***“Outcomes and complications of atrial fibrillation ablation.”*** ESC Congress 2009. Barcelona

51. July 2009. "**Catheter ablation of chronic atrial fibrillation.**" Pulse 2009. Hersonissos, Crete
52. June 2009. "**Advanced catheter ablation of atrial fibrillation: what if pulmonary vein isolation fails: next steps.**" Europace 2009. Berlin, Germany.
53. June 2009. "**Radiofrequency ablation in failed pulmonary vein isolation.**" Europace 2009. Berlin, Germany.
54. March 2009. "**Circumferential PV ablation.**" 8th Atrial Fibrillation Symposium. Rome
55. March 2009. "**Odyssee.**" 8th Atrial Fibrillation Symposium. Rome
56. January 2009. "**Magnetic navigation is preferable to robotic navigation for guiding AF ablation.**" Debate. 14th Annual International Boston Atrial Fibrillation Symposium, mechanisms and new directions in therapy. Boston, Massachusetts, USA
57. January 2009. "**FDA Panel and audience discussion: lessons learned and best practices from AF ablation clinical trials.**" 14th Annual International Boston Atrial Fibrillation Symposium, mechanisms and new directions in therapy. Boston, Massachusetts, USA
58. December 2008. "**Optimal RF energy titration and lesion formation to improve efficiency and safety of transcatheter ablation.**" XXIII World Congress on Cardiac Pacing and Electrophysiology. Rome
59. November 2008. "**Ablation of paroxysmal AF**" IV Congress of update in cardiology and cardiovascular surgery. Antalya, Turkey
60. November 28 2008 "**Robotic magnetic navigation**" IV Congress of update in cardiology and cardiovascular surgery. Antalya, Turkey
61. October 2008. "**Robotics in the cardiovascular pathology.**" Progress in Bioengineering. Seventh International Congress. Pisa
62. August 2008. "**Detection and management of complications.**" European Society of Cardiology Congress Munich-Germany
63. July 2008. "**State of the art of atrial fibrillation ablation**" Pulse 2008. Creta
64. June 2008. "**Role of thoracic and cardiac veins**" CARDIOSTIM 2008. Nice (France) Define the best strategy to manage AF-CHF patients St. Jude Medical Satellite Symposium. CARDIOSTIM 2008. Nice-France
65. May 2008. "**Catheter ablation: past, present, future.**" 29th Annual Scientific Sessions of Heart Rhythm Society. San Francisco
66. May 2008. "**The most important developments of the past 6 months; most important trends for the next year.**" 29th Annual Scientific Sessions of Heart Rhythm Society. San Francisco 44. May 14-17, 2008. "**Robotic guided AF is preferable to point by point human catheter manipulation.**" Debate session. Protagonist. 29th Annual Scientific Sessions of Heart Rhythm Society. San Francisco
67. April 2008. "**Atrial fibrillation ablation: long term results and epidemiological impact.**" Vilamoura, Portugal
68. February 2008. "**New insights in ablation of atrial fibrillation**" International Congress on Cardiology up to date: diagnosis and therapy twenty-one years later. Viareggio
69. January 2008. "**Bilateral catheter ablation for chronic atrial fibrillation.**" 13th Annual Boston Symposium Atrial Fibrillation. Emerging Technologies for Atrial Fibrillation Boston, Massachusetts, USA
70. January 2007. "**Remote navigation for catheter ablation of AF: advantages, limitations and outcomes.**" 12th Annual Boston Symposium Atrial Fibrillation, Mechanisms and new directions in Therapy, Boston, Massachusetts, USA, Update on clinical trials of ablation Consensus Conference on end-points for atrial fibrillation trials. Sofia Antipolis, France
71. March 2007. "**Ablation de la fa casos en vivo desde Milan.** Casos en vivo y experiencias en fa. Arritmias 2007 Granada
72. March 2007. "**Chronic Afib ablation: what have we learned?**" 6th Atrial Fibrillation Symposium. Praha Czech Republic
73. March 2007. "**Catheter ablation of atrial fibrillation.**" American College of Cardiology Congress, 56th Annual Scientific Session, New Orleans
74. May 2007. "**Decreasing Ablation Time: The Milan Protocol for 2008**" Presented at the 28th Annual Scientific Sessions of Heart Rhythm Society. Denver "**Asymptomatic ventricular**

- preexcitation should be eliminated.**" Debate session. Protagonist. 28th Annual Scientific Sessions of Heart Rhythm Society. Denver
75. May 2007. "**Overcoming difficult coronary sinus anatomy: how to robotically place the LV pacing lead.**" Mini-course entitled "**How the experts overcome device complications and challenges: pre-recorded live cases**". 28th Annual Scientific Sessions of Heart Rhythm Society. Denver
 76. May 2007. "**Remote Navigation for catheter ablation in AF: the next step forward**" Live dinner Meeting. 28th Annual Scientific Sessions of Heart Rhythm Society. Denver
 77. June 2007. "**New techniques in AF ablation.**" Rhythm 2007 Arrhythmias & Heart failure, Cannes
 78. June 2007. "**State of the art of atrial fibrillation ablation**" 2nd all Russian Congress on Arrhythmology. Moscow
 79. June 2007. "**The role of ablation in atrial fibrillation: clinical results**" XIX World Congress of the ISHR Bologna
 80. June 2007. "**Radiofrequency ablation of chronic atrial fibrillation: the endpoints.**" Session title: End-points of catheter ablation for atrial fibrillation. EUROPACE 2007, Lisbon, Portugal
 81. July 2007. "**The laboratory of the future**" The 5th China Atrial Fibrillation Symposium. Pechino
 82. July 2007. "**Ablation of chronic atrial fibrillation: the end points**" The 5th China Atrial Fibrillation Symposium. Pechino
 83. September 2007. "**Electroanatomic mapping and substrate modification**", Session title: Catheter ablation of atrial fibrillation: different strategies. ESC Congress 2007, Vienna
 84. September 2007. "**Atrial fibrillation is RF Ablation disease**". 40 Anniversary of Referral Pacemaker Centre and Cardiac Pacing in Serbia. Belgrade. "**Ablation of atrial fibrillation: state of the art and future perspectives.**" VIII Simposio di Cardiologia, Elettrofisiologia e Cardiochirurgia. Duesseldorf, Germany
 85. September 2007. "**Fibrillazione atriale dolore e gioia dei cardiologi: sempre più vessata o coccolata dalle nuove possibilità terapeutiche?**" IV Congresso Internazionale "Controversie in Cardiologia", Villa Pignatelli, Napoli
 86. October 2007. "**Should all asymptomatic WPW athletes undergo ablation for sport eligibility?**" Protagonist. ESC Sport & Arrhythmias International Symposium. Included in the session dedicated to Controversies on arrhythmias and Sport. Venice2007 Arrhythmias - 10th International Workshop on Cardiac Arrhythmias – Venice (Italy)
 87. October 2007. "**Chronic atrial fibrillation: the last frontier**" St. Jude Medical Satellite Symposium. Included in the session dedicated to Open questions on catheter ablation for cardiac arrhythmias Venice 2007 Arrhythmias - 10th International Workshop on Cardiac Arrhythmias – Venice (Italy)
 88. October 2007. "**Permanent AF.**" VeniceChart 2007 on Atrial Fibrillation Ablation. Included in the session dedicated to Outcome of AF ablation in different clinical settings. Venice2007 Arrhythmias - 10th International Workshop on Cardiac Arrhythmias – Venice (Italy)
 89. October 2007. "**Intracardiac echocardiography is superior to electroanatomic mapping systems to guide AF ablation.**" Cons. VeniceChart 2007 on Atrial Fibrillation Ablation. Included in the session dedicated to Controversies in AF ablation. Venice2007 Arrhythmias - 10th International Workshop on Cardiac Arrhythmias – Venice (Italy)
 90. November 2007. "**The circumferential ablation approach.**" Presented at the American Heart Association Scientific Sessions 2007. Orlando
 91. November 2007. "**European perspective on asymptomatic WPW and AF management.**" New York Clinical EP Symposium New York
 92. November 2007. "**Persistent/chronic AF treatments: methods and endpoints.**" New York Clinical EP Symposium New York
 93. December 2007. "**The endpoints of AF Ablation should be isolation of the pulmonary veins.**" Debate. Antagonist: Pappone C. XXII World Congress on Cardiac Pacing and Electrophysiology. Rome
 94. December 2007. "**Catheter ablation of asymptomatic chronic AF.**" Debate. Protagonist: Pappone C. XXII World Congress on Cardiac Pacing and Electrophysiology. Rome

95. December 2007. **"Does remote catheter ablation navigation improve the ablation procedure?"** XXII World Congress on Cardiac Pacing and Electrophysiology. Rome
96. December 2007. **"AF ablation: The Milan approach."** XXII World Congress on Cardiac Pacing and Electrophysiology. Rome
97. December 2007. **"Robotic assisted mapping and ablation of AF: is current technology reliable?"** 18th MAM Madrid, Spain
98. December 2007. A decade of AF ablation: the Barolo tasting as of 2007. 18th MAM (Madrid Arrhythmia Meeting). Madrid, Spain
99. January 2006. **"Use of Remote Magnetic Navigation in Catheter Ablation for Atrial Fibrillation."** 11th Annual Boston Symposium Atrial Fibrillation, Mechanisms and new directions in Therapy, Boston, Massachusetts, USA
100. January 2006. **"Panel and Audience Discussion: how we approach Catheter Ablation for AF today: Tailoring procedures to Individual Clinical Scenarios and optimizing Safety and Effectiveness."** Panelist: Pappone C. 11th Annual Boston Symposium Atrial Fibrillation, Mechanisms and new directions in Therapy, Boston, Massachusetts, USA March 2006. **"Combination of CRT and atrial fibrillation ablation in patients with heart failure."** MAM 2006, Madrid Arrhythmia and Myocardium, Madrid, Spain
101. March 2006. Ablation in AF: are we overburning some patients? MAM 2006, Madrid Arrhythmia and Myocardium, Madrid, Spain
102. March 2006. Controversy #2: **"CT isthmus ablation prevents atrial fibrillation recurrences in patients with class IC atrial flutter on antiarrhythmic drugs."** PRO José Luis Merino, CONTRA, Carlo Pappone. MAM 2006, Madrid Arrhythmia and Myocardium, Madrid, Spain
103. March 2006. **"A Controlled Randomized Trial of Circumferential Pulmonary Vein Ablation Versus Antiarrhythmic Drug Therapy for Curing Paroxysmal Atrial Fibrillation: The Ablation for Paroxysmal Atrial Fibrillation (APAF) Trial."** Late Breaking Clinical Trial. ACC 06, 55th Annual Scientific Session, Atlanta, GA, USA
104. March 2006. **"Is there an individualized catheter ablation approach to Afib?"** Moderator in Debate: question of the year. 5th Atrial Fibrillation Symposium, Barcelona, Spain
105. March 2006. **"Atrial Fibrillation – Catheter Ablation."** Moderator: Carlo Pappone, Wine Country Arrhythmias Symposium 2006, Sonoma, CA, USA
106. April 2006. **"Interventional therapy of atrial fibrillation. Current status and future considerations."** Cardiology Update .Athens, Onassis Cardiac Surgery Center
107. June 2006. Meet the masters Debate: **"AF ablation is first line therapy Atrial Fibrillation"**
108. –. Pro: Carlo Pappone. CARDIOSTIM 2006. Nice (France)
109. June 2006. Autonomic stimulation and atrial fibrillation masters Debate: **"Ablation of vagal innervation prevents AF"** –. Protagonist: Carlo Pappone. CARDIOSTIM 2006. Nice (France)
110. June 2006. Robotic Navigation for CRT: Why and How? **"Satellite Symposium Late breaking news in cardiac rhythm management"** .CARDIOSTIM 2006. Nice (France)
111. June 2006. **"Catheter Ablation in AF: latest results"** CARDIOSTIM 2006. Nice (France)
112. June 2006. **"How many lines, where and why in persistent/chronic AF patients"** CARDIOSTIM 2006. Nice (France)
113. June 2006. **"Asymptomatic children with manifest accessory pathways should undergo catheter ablation"** Protagonist: Carlo Pappone. CARDIOSTIM 2006. Nice (France)
114. September 2006. **"Radiofrequency ablation versus antiarrhythmic drug therapy for curing paroxysmal atrial fibrillation"** ESC Congress 2006. Barcellona
115. September 2006. **"Future technologies – remote Magnetic Navigation."** The 4th Annual Atrial Fibrillation Summit. Aspen
116. October 2006. Morbidity and mortality of ablation vs AA drugs. 6th International Symposium on Catheter Ablation Techniques. **"Focus on Fibrillating Heart"** Paris, Atrial fibrillation: a cure at last. 8th Coimbra International Meeting on Cardiovascular Diseases Luso, (Portugal)
117. October 2006. **"Robotic navigation for treatment of arrhythmias."** Progress in Bioengineering Sixt International Congress. Pisa
118. October 2006. **"Asymptomatic WPW children. How to identify subjects at risk of sudden deaths?"** 22nd International Symposium on Neonatal Intensive Care. Milan

119. November 2006. "**Cardiac contractility modulation: fact or fiction?**" Symposium Recent advances in device and drug therapy for heart failure sponsored. American Heart Association Scientific Sessions. Chicago, CA
120. November 2006. "**Remote magnetic catheter navigation for circumferential PV ablation.**" Luncheon Seminar. APAFS2006. The 2nd Asia- Pacific Atrial Fibrillation Symposium. Tokyo
121. December 2006. Magistrale Lecture: "**The future of Cardiac Electrophysiology.**" XII International Symposium on Progress in clinical Pacing. Roma, Catheter ablation of paroxysmal atrial fibrillation: long-term results and complication rate. XII International Symposium on Progress in Clinical Pacing. Roma
122. December 2006. "**Remote robotic navigation: implication for ablation of atrial fibrillation.**" XII International Symposium on Progress in Clinical Pacing. Roma, Live Case Demonstrations: Catheter Ablation for AF and 3-D Image Integration. Moderator: Jeremy Ruskin, MD. Massachusetts General Hospital, Boston: Vivek Reddy, MD, and Moussa Mansour, MD. San Raffaele Hospital, Milan, Italy: Carlo Pappone, MD, PhD.
123. January 2005. 10th Annual Boston Symposium on Atrial Fibrillation, Boston, Massachusetts, USA
124. February 2005. "**Atrial Fibrillation: from cell to bedside.**" San Raffaele Annual Scientific Retreat, Sheraton Hotel, Padova, Italy
125. February 2005. "**Atrial Fibrillation – does ablation have an impact on prognosis?**" V International Meeting/Portuguese Association of Arrhythmology, Pacing and Electrophysiology, Lisbon, Portugal
126. February 2005. "**Another look at the rhythm control vs rate control controversy of AF: is catheter ablation better than AV nodal slowing drugs?**" 16th MAM, Madrid Arrhythmia and Myocardium, Atrial Fibrillation, sudden death and heart failure, Palacio Municipal de Congresos, Campo de las Naciones, Madrid, Spain
127. March 2005. "**Circumferential Pulmonary Vein Ablation and the Esophagu**", Session Title: Featured Oral Session. Ablation of Atrial Fibrillation: Avoiding Esophageal Injury, Session Type: Oral Contributions. ACC Annual Scientific Session, Orange County Convention Center, Orlando, Fla, USA
128. March 2005. "**Clinical Outcomes Following Atrial Fibrillation Ablations**", Session Title: Ablation of Atrial Fibrillation: Evolving Techniques and Outcomes, Session Type: Symposium. ACC Annual Scientific Session, Orange County Convention Center, Orlando, Fla, USA
129. March 2005. "**What we have to do to reduce complications and improve success rate.**" Session title: Current approaches. 4th Atrial Fibrillation Therapy Symposium, Vienna, Austria
130. March 2005. "**Isolation of the Pulmonary Veins.**" Session title: Ablation in AF. Barcelona AF Symposium, Barcelona, Spain
131. May 2005. "**Catheter Ablation for Atrial Fibrillation: State of the Art and the Future**", GLAES Dinner Meeting, Le Meridien Hotel, Los Angeles, CA, USA, "**Randomized Controlled Trials in AF: What Do You Do with the Results?**", Session Type: Clinical Tutorial, Heart Rhythm 2005, 26th Annual Scientific Session, New Orleans, LA, USA
132. May 2005. "**CONTROVERSIES IN CATHETER ABLATION: Ablation Should Be Primary Therapy for Lone AF**", Session type: Debate, Protagonist, Heart Rhythm 2005, 26th Annual Scientific Session, New Orleans, LA, USA
133. June 2005. Heart failure the Pacing Therapy, XXIV Meeting of the Society of Cardiac Surgeons and the IV Live Teleconference Interinstitutional "**New Trends in Cardiac Surgery**", A Coruña, Spain
134. June 2005. **Live Case Demonstrations**, broadcast from Milan to Moscow, Symposium, from Moscow Prof. Amiran Revishvili, President of Russian Society for Clinical Electrophysiology, Arrhythmology and Cardiac Pacing; from San Raffaele Hospital, Milan, Italy: Carlo Pappone, MD, PhD, Russian Congress on Arrhythmology, Moscow, Russia
135. June 2005. "**Substrate modification produces enough electrophysiological changes to prevent atrial fibrillation**", Session title: New developments in Atrial Fibrillation ablation. EUROPACE 2005, Prague, Czech Republic
136. June 2005. "**Subthreshold pacing for heart failure**", Session title: Experimental pacing.

EUROPACE 2005, Prague, Czech Republic

137. June 2005. "**The role of substrate and vagal modification by catheter ablation**", Session title: Optimal treatment modalities for atrial fibrillation. EUROPACE 2005, Prague, Czech Republic
138. September 2005. "**Radiofrequency of Atrial Fibrillation by guidance of new navigation techniques – early experience**", Session title: Atrial Fibrillation – curing today. ESC Congress 2005, Stockholm, Sweden
139. September 2005. "**Persistent Atrial Fibrillation**", Session title: Catheter Ablation of Atrial Fibrillation Live from Hamburg. ESC Congress 2005, Stockholm, Sweden
140. September 2005. "**Natural History of Wolff-Parkinson-White Syndrome**", Session title: Paediatric Cardiology: complex questions, difficult answers. ESC Congress 2005, Stockholm, Sweden
141. September 2005. "**Catheter Ablation: Toward an Automatic Remote Navigation System**", Concurrent Session Two: Interventional and Surgical Perspectives for Atrial Fibrillation. Atrial Fibrillation: Challenges and Opportunities, Northwestern Memorial Hospital and University, The Drake Hotel, Chicago, Illinois
142. October 2005. "**Atrial fibrillation and Heart Failure**", Controversies in Cardiology, 3rd International Congress, Villa Pignatelli, Naples, Italy, "**Ablation of Atrial Fibrillation: Status of the Art**", Solace Symposium: Ablation of Supraventricular Arrhythmias: from the Americas to Europe, Venice Arrhythmias 2005, 9th International Workshop on Cardiac Arrhythmias, Venice, Italy
143. October 2005. "**Circumferential ablation plus Atrial Linear Lesions**", Symposium: Catheter Ablation of Atrial Fibrillation: comparison between different techniques, Venice Arrhythmias 2005, 9th International Workshop on Cardiac Arrhythmias, Venice, Italy
144. October 2005. Current Ablation Strategy, Outcomes and future steps, St. Jude Medical luncheon panel: "**Atrial Fibrillation: from the past 20 years what electrophysiologists and cardiac surgeons have learned from each other and what still remains to be discovered.**" Venice Arrhythmias 2005, 9th International Workshop on Cardiac Arrhythmias, Venice, Italy
145. October 2005. "**Non excitatory electrical stimulation: an exciting novel therapy for severe heart failure?**" Venice Arrhythmias 2005 - 9th International Workshop on Cardiac Arrhythmias – Venice (Italy)
146. October 2005. "**Radiofrequency ablation of atrial fibrillation using Stereotaxis technology.**" Third Annual Atrial Fibrillation Summit. Cleveland
147. October 2005. **Live Case Demonstrations**, broadcast from Milan to Birmingham. Philosophy of Atrial Fibrillation Ablation by operators. European Live Atrial Fibrillation Course. Birmingham
148. October 2005. "**Overview and newest technique of anatomical LA ablation around the PVs.**" Annual meeting of Japanese Ablation Society, 17th ablation conference. Tsukuba. Japa
149. November 2005 "**The role of triggers, high frequency sources and neuronally induced atrial arrhythmias in the generation of AF.**" Session: Mechanisms. Berzelius Symposium 64, Atrial Fibrillation-Scientific evidence and Clinical Practice. The Swedish Society of Medicine, Uppsala, Sweden
150. December 2005. "**First clinical experience with remote magnetic navigation system for atrial fibrillation ablation.**" Scientific Sessions 2005, American Heart Association, Dallas, Texas
151. November 2005. "**A-Fib Ablation.**" Guidant EP fellows Course. Transition to practice. New York, USA
152. December 2005. "**Asymptomatic patients with ventricular preexcitation require EP testing for risk stratification.**" Debate. Protagonist: Pappone C., Milan, ITA Antagonist: David Cannom., Los Angeles. Guidant EP fellows Course. Transition to practice. New York, USA
153. December 2005. "**Stereotaxis AF Ablation.**" Luncheon – Satellite Symposium II (JNJ/Biosense-Webster). APAFS2005. The 1st Asia-Pacific Atrial Fibrillation Symposium. Seoul, Korea
154. December 2005. "**Pacing therapy is the best treatment modality in sick sinus syndrome**

- with AF.* Debate in Catheter Ablation of AF I. APAFS2005. The 1st Asia-Pacific Atrial Fibrillation Symposium. Seoul, Korea
155. December 2005. **Live Demonstration II.** Operator: Pappone C. APAFS2005. The 1st Asia-Pacific Atrial Fibrillation Symposium. Seoul, Korea
156. **January 2004.** “Morbidity, Mortality and Quality of Life after Circumferential PV Isolation **Outcomes from a Long Term Observational Study.**” Ninth Annual Boston Symposium on Atrial Fibrillation, Seaport Hotel and Conference Centre, World Trade Center, Boston, MA, USA
157. February 2004. “**Non-medical management of atrial fibrillation.**” Symposium on New and Recurring Issues in Cardiology. Royal College of Physicians of Edinburgh, Edinburgh, UK
158. February 2004. “**Atrial and pulmonary vein MRI and its role in RF ablation of AF.**” MAM 2004, Palacio Municipal de Congresos, Madrid, Spain
159. February 2004. “**Rhythm control is preferred in persistent recurrent AF should the appropriate approach be used.**” MAM 2004, Palacio Municipal de Congresos, Madrid, Spain
160. March 2004. “**Pulmonary Vein Encircling Ablation for Atrial Fibrillation.**” ACC 53rd Annual Scientific Session, New Orleans, Louisiana, USA
161. May 2004. “**European Experience of Atrial Fibrillation**” presented in the Oral session “Catheter Ablation IX: Outcomes of Atrial Fibrillation”. 25th Annual Session North American Society of Pacing and Electrophysiology – Heart Rhythm 2004, San Francisco, USA
162. June 2004. “**Should we move towards Ablation of Atrial Fibrillation in Asymptomatic Patients: Insights from the Large Series.**” 6th International Symposium: Advances and Controversies in Atrial Fibrillation, Cardiostim 2004, Nice, France
163. June 2004. “**AF can be cured by ablating the Substrate.**” Debate. 6th International Symposium: Advances and Controversies in Atrial Fibrillation, Cardiostim 2004, Nice, France
164. June 2004. “**Who are candidates for Pulmonary vein Isolation Procedures?**” 6th International Symposium: Advances and Controversies in Atrial Fibrillation, Cardiostim 2004, Nice, France
165. July 2004. “**Circumferential Ablation for Atrial Fibrillation.**” Developments in Cardiology, Crete, Greece
166. August 2004. Benefits and risks with pulmonary vein ablation. Presented in the Symposium “**Catheter ablation for atrial fibrillation - new insights into ablation techniques and electro-anatomic evaluations**”. European Society of Cardiology Congress 2004. Munich-Germany
167. September 2004. RF Ablation of Atrial Fibrillation: State of the Art. In V Session: Atrial Fibrillation: to ablate or not to ablate? International Conference “**SELECTED TOPICS IN CARDIOVASCULAR MEDICINE**”. Genoa, Italy
168. November 2004. **NIOBE/Carto RMT Hands-on Training.** Niobe Hands-on Training. Ernest N. Morial Convention Center, St. Louis, MO, USA
169. November 2004. “**Trans telephonic monitoring in the follow-up of atrial fibrillation patients: the HSR experience.**” Progress in Clinical Pacing, Rome, Italy
170. November 2004. “**Magnetic Stereotaxis Intracardiac Navigation.**” Progress in Clinical Pacing, Rome, Italy
171. November 2004. “**Long-term results of left Atrial Anatomical Approach.**” Progress in Clinical Pacing, Rome, Italy
172. November 2004. “**Invasive Electrophysiologic Testing and Catheter ablation of Cardiac Arrhythmias.**” Progress in Clinical Pacing, Rome, Italy
173. January 17-18, 2003. “**Pulmonary Vein Isolation – Techniques, Results, and Complications: The Milan Experience.**” Boston Atrial Fibrillation Symposium “**Mechanisms And New Directions In Therapy.**” 8th International Symposium. Seaport Hotel & Conference Center - World Trade Center, Boston, Massachusetts
174. February 2003. Leonardo Da Vinci Memorial Lecture sponsored by unrestricted educational grant provided by Guidant Italy “**Circumferential ablation in the posterior left atrium modifies atrial fibrillation substrate while disconnecting the pulmonary veins.**” 14th MAM (Madrid Arrhythmia Meeting). Madrid, Spain
175. March 2003. “**PV encircling with CARTO: when and how.**” Atrial Fibrillation Therapy

Symposium. Hamburg, Germany

176. May 2003. "**Role of cardiac drugs to prevent recurrences of atrial fibrillation after radiofrequency ablation of pulmonary vein junction.**" ISCP 2003 - 12th International Congress on Cardiovascular Pharmacotherapy. Barcelona, Spain
177. May 2003. Session: Ablation Of Atrial Fibrillation: "**Patient Selection And Technique – Patient selection and outcomes.**" Naspe 2003, 24th Annual Scientific Sessions. Washington D.C.
178. May 2003. Catheter ablation of atrial fibrillation workshop: "**Techniques And Potential Complications – Anatomic Isolation of the Pulmonary Veins.**" Naspe 2003, 24th Annual Scientific Sessions. Washington D.C.
179. June 2003. "**An anatomic approach to ablate atrial fibrillation.**" Atrial Fibrillation Implications of Basic Research and Novel Curative Approaches. Eberhard Karls UNIVERSITÄT TÜBINGEN. Tübingen, Germany
180. June 2003. Symposium: New Insights into Atrial Fibrillation- Isolation of pulmonary veins: **the CARTO Technique (Live Case Demonstration).** RHYTHM 2003. Endocardial Catheter Therapy. Saint- Joseph Hospital, Marseille, France
181. August 2003. "**Paroxysmal Atrial Fibrillation: evolving ablative approaches.**" European Society of Cardiology Congress 2003. Vienna, Austria.
182. August 2003. "**Defined Endpoints for Ablation of Atrial Fibrillation.**" European Society of Cardiology Congress 2003. Vienna, Austria.
183. September 2003. "**Can Ablation cure Atrial Fibrillation?**" Second Day of Rhythmology in Hasselt. Aden Biesen, Bilzen, Belgium
184. October 2003. 2nd Controversy: "**anatomical-guided is superior to electrophysiological-guided ablation.**" Included in the session dedicated to: Controversies in arrhythmology: what is the best technique for atrial fibrillation ablation? Venice Arrhythmias 2003, Eighth International Workshop on Cardiac Arrhythmias. Venice
185. October 2003. "**Ablation of Atrial Fibrillation**", Symposium on Electrocardiography and Electrophysiology, XXX Argentine Congress of Cardiology, Buenos Aires
186. October 2003. "**Is Ablation of Atrial Fibrillation safe and effective for all patients?**" Round Table: Atrial Fibrillation beyond multicenter studies, XXX Argentine Congress of Cardiology, Buenos Aires
187. October 2003. "**Is this the moment for atrial fibrillation healing?**" XXX Argentine Congress of Cardiology, Buenos Aires
188. October 2003. "**The electric approach to heart failure.**" Postgraduate Course on Adult Cardiac Surgery, 2nd EACTS/ESTS Joint Meeting, Vienna, Austria
189. October 2003. "**Case Study: Ablation of Chronic Atrial Fibrillation.**" Curso de Navegación, Hospital Gregorio Marañon. Madrid, Spain
190. February 2002. "**The left ventricular lead: where, how and which one?**" 2) "**Long-term results of isolating pulmonary veins in patients with persistent and chronic atrial fibrillation.**" Madrid Arrhythmia Meeting. The Euro contribution to Arrhythmology. Madrid, Spain
191. March 2002. "**Catheter Ablation of Atrial fibrillation – The Milan Experience.**" Review lecture and Live demonstration. 5th Prague Workshop on Catheter Ablation
192. May 2002. Aspects and results of pulmonary vein isolation in atrial fibrillation using the CARTO-system. "**Restore Rhythm and Contractility**". Bergmannsheil
193. June 2002. "**Anatomical Pulmonary Vein Isolation Is Preferable to Electrophysiologically Guided Ablation in Patients with Atrial Fibrillation.**" Debate. Protagonist: Pappone C, Milan, ITA. Antagonist: Shah D. Bordeaux, FRA. CARDIOSTIM 2002 – 13th International Congress. Nice Acropolis. French Riviera
194. August 2002. "**Ablation, pacing or atrial defibrillation to treat atrial fibrillation resistant to pharmacological therapy.**" European Society of Cardiology Congress 2002. Berlin, Germany
195. October 2002. "**Cardiac Contractility Modulation: top or flop?**" Annual Meeting Of The Swiss, Austrian And German Working Groups On Heart Failure. Konstanz, Germany
196. October 2002. "**Curative RF Catheter Ablation.**" VIII Southern Symposium On Cardiac

- Pacing/ 2nd International Congress Of The Mediterranean Society Of Pacing And Electrophysiology (MESPE). Giardini Naxos, Taormina, Italy
197. **October 2002.** “Mortality, Morbidity and Quality of Life after Circumferential PV Ablation – **Atrial Fibrillation 50 Years on.**” Review lecture and Live demonstration. 4TH International Workshop For Interventional Electrophysiology. Bakoulev Scientific Center for Cardiovascular Surgery of Russian Academy of Medical Sciences. Moscow, Russia
 198. December 2002. 1) “**Are all the Left Ventricular Pacing site acceptable?**” during the symposium “Heart Failure resynchronization therapy.” 2) “**Left Atrial Ablation and Drugs to prevent Atrial Fibrillation**” during the symposium “Hybrid therapy od cardiac arrhythmias.” 3) “**The present role of the Transcatheter Ablation in Atrial Fibrillation**” during the session Atrial Fibrillation of the “Basic Course on No pharmacological treatment of atrial fibrillation, heart failure, sudden death.” 4) “**Anatomical Pulmonary Vein Isolation in Patients with Paroxysmal and Persistent Atrial Fibrillation**” during the symposium “Ablation of atrial fibrillation: what’s new.” 5) Chairing the symposium “**New 3D Mapping**”. Progress in Clinical Pacing. Cavalieri Hilton Hotel. Rome, Italy
 199. December 2002. “**Circumferential Ablation of Pulmonary Veins by Long Linear Lesions guided by Electroanatomic Mapping.**” 3rd Symposium On Cardiac Arrhythmias. German Heart Center Munich, Germany
 200. Jan 2001. “**Circumferential radiofrequency ablation of pulmonary vein ostia: a new anatomic approach for curing atrial fibrillation.**” 6th annual Symposium on Atrial Fibrillation. Boston, MA
 201. May 2001. Clinical Tutorial. “**Catheter ablation for atrial fibrillation.**” NASPE 22nd annual Scientific Sessions. Boston
 202. February 2001. Close futurology. “**First clinical experience with a nonexcitatory electrical cardiac contractility modulation signal.**” Cardiostim 3rd Transmediterranean congress – Valletta (Malta)
 203. February 2001. “**How to select appropriate candidates for ICD and resynchronization therapy.**” Cardiostim 3rd Transmediterranean congress – Valletta (Malta)
 204. February 2001. “**RF ablation of paroxysmal and chronic atrial fibrillation.**” 12th Madrid Arrhythmia Meeting. Madrid (Spain)
 205. March 2001. “**Modulation of Cardiac Contractility by nonexcitatory stimulation: first human experience.**” 2nd Interventional Course on Management of Ventricular Tachyarrhythmias. Lugano (Switzerland)
 206. March 2001. “**Initial human experience with a non-excitatory electrical cardiac contractility modulation signal.**” New and Emerging Treatment for Heart Failure. ACCME Symposium of Columbia University. Orlando (Florida)
 207. June 2001. “**Ablation for persistent atrial fibrillation.**” Europace 2001. Copenhagen
 208. June 2001. “**Isolation of the four pulmonary veins in atrial fibrillation.**” Europace 2001. Copenhagen
 209. July 2001. “**Nonstimulatory electrical activation of ventricular myocardium. A novel approach for treating heart failure.**” SOCERJ Congress, Rio de Janeiro (Brasil)
 210. July 2001. “**RF ablation of paroxysmal and chronic atrial fibrillation.**” SOCERJ Congress, Rio de Janeiro (Brasil)
 211. September 2001. “**Ablation of atrial fibrillation using contact mapping.**” European Society of Cardiology Congress 2001. Stockholm, Sweden
 212. September 2001. “**Anatomically-guided RF catheter isolation of pulmonary veins: for whom, how and by whom?**” European Society of Cardiology Congress 2001. Stockholm, Sweden
 213. October 2001. “**What can we expect from ICDs in heart failure patients?**” 4th Coimbra International Meeting on Cardiovascular Diseases. Coimbra, Portugal
 214. November 2001. AHA How-to Session. “**How to ablate atrial fibrillation.**” Session sponsored by the Council on Clinical Cardiology. American Heart Association Scientific Sessions. Anaheim, CA

215. February 2000. "**RF ablation of permanent atrial fibrillation.**" 11th Madrid Arrhythmia Meeting. Madrid, Spain
216. May 2000. "**Mapping systems for cardiac arrhythmias.**" NASPE 21st annual Scientific Sessions. Washington DC
217. June 2000. "**Circular isolation of the pulmonary veins for the treatment of persistent atrial fibrillation.**" Clinical cardiac electrophysiology course. Valence (Spain)
218. June 2000. "**Use of linear atrial lesions to cure atrial fibrillation.**" CARDIOSTIM 2000. Nice (France)
219. June 2000. "**One year experience with Easytrak over the wire left ventricular lead implantation.**" CARDIOSTIM 2000. Nice (France)
220. September 2000. "**Initial human safety studies with a nonexcitatory electrical cardiac contractility modulation signal.**" Satellite Symposium, Heart Failure Society of America 4th Scientific Meeting. Boca Raton, FL
221. October 2000. "**Pulmonary vein encircling using Carto.**" Electro anatomy of the heart Symposium. European Surgical Institute Norderstedt
222. October 2000. Interventional Congestive Heart Failure. Impulse Dynamics: Preliminary Observations from Clinical Trials. TCT Transcatheter Cardiovascular Therapeutics 2000. Washington DC
223. June 1998. "**Atrial fibrillation ablation guided by electroanatomical mapping.**" New horizons for anatomic and electrical visualization of tachyarrhythmias – Munich (Germany)
224. February 1999. "**Percutaneous linear ablation of atrial fibrillation.**" 2nd International Congress Cardiostim Transmediterranean – Lisbon (Spain)
225. February 1999. "**Role of conventional therapy in the prevention of mortality in post-myocardial infarction patients with left ventricular dysfunction.**" 2nd International Congress Cardiostim Transmediterranean – Lisbon (Spain)
226. April 1999. "**RF catheter ablation in atrial fibrillation: do the results justify direct approaches?**" 10TH Madrid Arrhythmology Meeting: Continuous Education in Cardiac Arrhythmology. Madrid (Spain)
227. May 1999. "**Atrial Flutter Ablation: Candidates and Techniques.**" NASPE – North American Society of Pacing and Electrophysiology 20th Annual Scientific Session - Toronto Canada
228. Feb 1998. "**Catheter ablation of atrial tachyarrhythmias.**" LMU – Forum on Interventional Electrophysiology – Munchen (Germany)
229. March 1998. "**The Carto system to design and perform atrial linear lesions**" 9th Madrid Arrhythmia meeting, Madrid
230. March 1997. "**The Management of Atrial Fibrillation.**" In-Control Private Forum. Congress of the American College of Cardiology, Anaheim, California
231. February 10, 1997 "**Cardiac Mapping in Arrhythmias: Clinical Cases: WPW / Syndrome de Wolff-Parkinson-White**". Symposium special:3D Nonfluoroscopic Navigation for cardiac imaging and Therapy Rabat
232. February 1995. "**Radiofrequency Catheter Ablation in Wolff-Parkinson-White syndrome.**" 2nd Cardiostim Pan Slavian International Congress on Cardiac Pacing and Electrophysiology; Saint Petersburg
233. **October 1995.** Treatment of malignant ventricular arrhythmias. How to perform it? Cardiac Arrhythmias 4th International Workshop. Venezia (Italy)
234. October 1995. "**Radiofrequency Ablation of Ischemic Ventricular Tachycardia in Patients with Coronary Artery Disease Using a Cooled-Tip Catheter: Report of the First Case.**" Cardiac Arrhythmias 4th International Workshop. Venezia (Italy)

National Invited Lectures

1. Ottobre 2018. Multicare First Edition – Sesto San Giovanni (MI). Relazione: "**Trattamento interventistico**".
2. Aprile 2018. Le urgenze Cardiologiche – Napoli. Lettura: "**Novità in tema di Sindrome di Brugada**".

3. Marzo 2018. Conoscere e Curare il Cuore – Firenze. Relazione: “ **Ablazione epicardica nelle miocardiopatie genetiche: una nuova frontiera**”
4. Marzo 2018. VIII Congresso Cardio Olbia. Lettura agistrale “ **Passato, Presente e Futuro della sindrome di Brugada**”
5. Settembre 2017. Cardiologia Cosenza 2017 “ Evidence Based Cardiology”. Lettura Magistrale:” **L’ablazione nella Sindrome di Brugada**”
6. Maggio 2017. Il Cuore: un mare di onde difficili da cavalcare 2017, Pescara. Lettura Magistrale: “ **Trattamento ablativo della sindrome di Brugada: stato dell’arte**”
7. Marzo 2017. Conoscere e Curare il Cuore 201, XXXIV Congresso di Cardiologia del Centro per la lotta contro l’infarto – Fondazione Onlus. Palazzo dei Congressi, Firenze “L’ablazione della fibrillazione atriale persistente nel paziente con scompenso è forse sottoutilizzata”.
8. Novembre 2016. 10 Anni di Emodinamica al Cardarelli. Napoli **Letture:” Prospettive future della fibrillazione atriale”**.
9. Ottobre 2017. XXVI Congresso Nazionale ANCE – Sorrento (NA) Lettura magistrale: “**Sindrome di Brugada. Dai dati della ricerca alla moderna terapia interventistica si può guarire?**”.
10. Settembre 2016. Congresso AFA 2016 – Napoli Lettura Magistrale: “**E’ possibile eseguire la mappatura della FA? E quindi guidare l’ablazione dai meccanismi?**”.
11. Marzo 2016. Congresso Nazionale AIAC – Bologna Lettura: “**Ablazione epicardica della sindrome di Brugada: quando e come**”.
12. Ottobre 2015. Venice Arrhythmias 2015. Venezia. “**Catheter ablation of atrial fibrillation**” e “**Ablation of Brugada Syndrome**”.
13. Giugno 2015. Congresso Perugia il Cuore 2015. Perugia Lettura:” **La Sindrome di Brugada: l’Ablazione elimina la malattia?**”.
14. Marzo 2015. Conoscere e Curare il cuore 2015, Firenze “**Rivoluzione in aritmologia: il pacemaker senza fili ed il defibrillatore sottocutaneo**”.
15. Novembre 2014. AFA 2014, Castello di Pavone, Torino Lettura Magistrale: “**Prospettive future**”.
16. Ottobre 2014. Aritm’ in Umbria, Perugia. Lettura: “**Il trattamento ablativo della fibrillazione atriale: passato, presente, futuro**”.
17. Marzo 2014. Conoscere e Curare il Cuore 2014, Firenze. Lettura: “Terapia di resincronizzazione e QRS stretto: opposti inavvicinabili?”.
18. Novembre 2013. Advances in Cardiac Electrophysiology, Roma. “**Le nuove frontiere dello scompenso cardiaco**”.
19. Ottobre 2013. Venicearrhythmias 2013. Venezia “**Role of the autonomic in the pathogenesis of atrial fibrillation**” and “**The unique MediGuide technology for CRT lead placement and catheter ablation**”.
20. Ottobre 2013. XXIII Congresso Nazionale ANCE. Cervia “**Terapia elettrica dello scompenso cardiac: resincronizzazione e non**”.
21. Ottobre 2013. Manfredonia Cuore 2013. Manfredonia Lettura Magistrale: “**La fibrillazione atriale secondo Carlo Pappone**”
22. Maggio 2013. MICS 2013. Cardiocirurgia Mini Invasiva e Cardiologia non Convenzionale. Bari Lettura Magistrale. “**Il punto di vista di Carlo Pappone sul mondo della fibrillazione atriale**”.
23. Marzo 2013. Conoscere e Curare il Cuore 2013, Firenze. “**La logica delle aritmie**”.
24. Febbraio 2012 Milano AF-CRM SJM Kick-Off Meeting “**La logica delle aritmie 2.**”
25. Marzo 2012 Firenze, Conoscere e Curare il cuore. Lettura Magistrale: “**Ablazione nella fibrillazione atriale: cura o lifting?**”
26. Settembre 2012 Mogliano Veneto - Atrial fibrillation ablation Lettura Magistrale. “**Fibrillazione atriale: l’ablazione è una terapia utile o un gioco ai danni del paziente?**”
27. Marzo 2011 Conoscere e Curare il Cuore Firenze. “**WPW asintomatico: stratificazione del rischio o ablazione in tutti i casi?**”
28. Aprile 2011. Emergenze Cardiologiche e morte improvvisa. Ravenna. Lettura Magistrale: “La

- guarigione della Fibrillazione Atriale: mito o realtà?”
29. Giugno 2011. Congresso Nazionale SICOA. Napoli. Lettura Magistrale: **“Ablazione della Fibrillazione Atriale.”**
 30. Novembre 2011. Interventistica e Chirurgia Cardiovascolare. Palermo. **“Fibrillazione Atriale: meccanismi fisiopatologici e trattamento”** LIVE TRANSMISSION: “Ablazione della FA”
 31. Dicembre 2011. Correlazioni e diversità tra aterosclerosi e tromboembolismo venoso. Firenze. Lettura Magistrale: **“L’Ablazione Trans-Catetere nella Fibrillazione Atriale”**
 32. Marzo 2010. Conoscere e Curare il Cuore. Firenze. **“Studio Elettrofisiologico Endocavitario: ha ancora un ruolo prima dell’impianto del defibrillatore?”**
 33. Aprile 2010. Xa Giornata Cardiologica. Caserta. Lettura Magistrale: **“Fibrillazione Atriale: si può guarire da questa malattia? Stato dell’arte sulla ablazione TC”**
 34. Settembre 2010. Atrial Fibrillation Ablation. Mogliano Veneto Lettura Magistrale **“Il Laboratorio del futuro: qualche libero pensiero”**
 35. Ottobre 2010. XX Congresso Nazionale ANCE. Sirmione **“L’Ablazione della Fibrillazione Atriale mito o realtà?”**
 36. Dicembre 2009. L’ablazione trans-catetere: dubbi di oggi e prospettive future. Simposio: **“La terapia della fibrillazione atriale”**: questioni aperte. 70° Congresso Nazionale SIC. Roma
 37. Novembre 2009. **“L’ablazione transcatetere della Fibrillazione Atriale: quando e in quali pazienti?”** 1° Convegno ongoing in interventistica cardiovascolare e nuove frontiere terapeutiche nel trattamento delle patologie cardiovascolari. Milano
 38. Ottobre 2009. Lettura Magistrale. **“Ablazione trans catetere della fibrillazione atriale: Indicazione e risultati”**. Inclusa nella Sessione Up-to-date in Elettrofisiologia interventistica. PERUGIA il CUORE 2009 – Perugia (Italy)
 39. 2009. Lettura magistrale. **“Lo scompenso cardiaco e la fibrillazione atriale: dalla clinica al laboratorio di elettrofisiologia”**. Vietri sul Mare
 40. 2009. Lettura Magistrale. **“Cinque anni di esperienza con Stereotaxis al San Raffaele di Milano”**. Nuove Tecnologie in Elettrofisiologia: il sistema di Navigazione Magnetica STEREOTAXIS. Ospedale Mauriziano. Torino
 41. Marzo 2009. **“L’ablazione antiaritmica al traguardo dei trenta anni. Quando si deve e quando si può”**. Conoscere e Curare il Cuore 2009, XXVI Congresso di Cardiologia del Centro per la lotta contro l’infarto – Fondazione Onlus. Palazzo dei Congressi, Firenze
 42. Dicembre 2008. **“Flutter atriale”**. 69° Congresso Nazionale della Società Italiana di Cardiologia, Roma
 43. Novembre 2008. Lettura magistrale. **“Gioie e dolori dell’ablazione di fibrillazione atriale”**. San Francesco al Campo (TO)
 44. Aprile 2008. **“Ablazione transcatetere della fibrillazione atriale”**. La ricetta del bravo dottore. Benevento
 45. Marzo 2007. Lettura Magistrale. **“Ablazione della fibrillazione striale: stato dell’arte”**. Terapia ablativa della fibrillazione striale: update 2007. Genova
 46. Aprile 2007. **“L’ablazione elettrica è superiore”**. VII° Simposio Internazionale “Heart Failure & Co”, Istituto Clinico Humanitas. Rozzano
 47. Maggio 2007. **“Ottimizzazione della terapia di resincronizzazione: nuove prospettive”**. La cardiopatia ischemica. dalla fisiopatologia alla gestione clinica dell’infarto e delle sue manifestazioni acute e croniche. Sheraton Nicolaus Hotel. Bari
 48. Febbraio 2006. **“Trattamento non chirurgico della FA isolata”**. Fibrillazione Atriale: stato dell’arte. Dipartimento Cuore e Vasi, Azienda Ospedaliera Universitaria Careggi, Firenze
 49. Marzo 2006. **“Ablazione della fibrillazione atriale: quanto giocano l’età del paziente, il tipo dell’aritmia e la tecnica impiegata?”** Conoscere e curare il cuore 2006, XXIII Simposio di Cardiologia del Centro per la lotta contro l’infarto – Fondazione Onlus, Palazzo dei Congressi, Firenze
 50. Aprile 2006. **“La robotica nella elettrofisiologia interventistica”**. Nuove Frontiere nella Diagnostica e Terapia Cardiovascolare Dalla fisiologia clinica alla biologia clinica. Baveno
 51. Maggio – 3 Giugno 2006. **“Il soggetto con WPW asintomatico: deve essere sempre**

- sottoposto ad ablazione?”** Controversia Pro. Dr. Carlo Pappone XXXVII Congresso Nazionale ANMCO, Firenze, Fortezza da Basso
52. Settembre 2006. **“Trattamento percutaneo della fibrillazione atriale isolata”**. Update clinico, interventistico e chirurgico sulla fibrillazione striale. Pedara
 53. Settembre 2006. Lettura Magistrale: **“Presente e futuro dell’ablazione della F.A.: La prospettiva europea”**. “Atrial Fibrillation Ablation “Cardiologia 2000/2005” Napoli
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 55. Ottobre 2006. **“Il futuro della Aritmologia”**. Convegno Roma Cuore, Milano Cuore, Sicilia Cuore 2006. Roma
 56. Ottobre 2006. **“Insufficienza mitralica da aritmie ed asincronia di contrazione”**. 2° Meeting Italiano Tecniche Riparative Avanzate Live Ecocardiografia (M.I.T.R.A.L.E.). Centro Congressi San Raffaele, Milano
 57. Marzo 2006. **“In quali casi la fibrillazione atriale stabile e refrattaria suggerisce ablazione elettrica?”** Conoscere e curare il cuore 2007, XXIV Simposio di Cardiologia del Centro per la lotta contro l’infarto – Fondazione Onlus, Palazzo dei Congressi, Firenze
 58. Dicembre 2006. **“Pro ablazione: la terapia ablativa è superiore a quella medica nella prevenzione della fibrillazione atriale”** nell’ambito del Simposio Linee guida per il trattamento della fibrillazione striale. 67° Congresso Nazionale della Società Italiana di Cardiologia, Roma
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 60. Giugno-04 Giugno 2005. **“Ablazione Transcateretere della Fibrillazione Atriale: deve continuare ad essere considerata una terapia sperimentale?”** Controversia, Contro C. Pappone, XXXVI Congresso Nazionale ANMCO, Firenze, Fortezza da Basso
 61. Settembre 2005. **“Scompenso cardiaco e Fibrillazione Atriale”**. 3° Congresso Internazionale “Controversie in Cardiologia”, Napoli
 62. Settembre 2005. **“La sindrome di WPW”**. Corso di Aggiornamento in Medicina Dello Sport “La morte cardiaca improvvisa nell’atleta”. Istituto San Giuseppe Moscati, Villa Margherita, Benevento
 63. Ottobre 2005. **“Navigazione robotica utilizzando un campo magnetico”**. X° Meeting Internazionale “Cardiologia 2000/2005” Corso di aggiornamento. Bari
 64. Dicembre 2005. **“Ablazione transcateretere della fibrillazione atriale: quali strategie e in quali pazienti?”** Simposio: Nuovi approcci terapeutici alla gestione della fibrillazione atriale. Società Italiana di Cardiologia (SIC), Roma, Hotel Cavalieri Hilton
 65. Gennaio 2004. **“Fibrillazione atriale e tecnica di ablazione”**. Ruolo del cuore nella patogenesi ischemica cerebrale. Centro Congressi San Raffaele, Milano
 66. Marzo 2004. **“Anatomical guided Afib therapy”**. IIIrd Atrial Fibrillation Therapy Symposium, Hilton Rome Airport, Roma
 67. Marzo 2004. **“Ablazione elettrica della fibrillazione atriale: la parola ad uno stimato entusiasta”**. Conoscere e curare il Cuore 2004. XXI Simposio di Cardiologia del centro per la lotta contro l’infarto, Fondazione Onlus, Firenze, Palazzo dei Congressi
 68. Aprile 2004. **“Fibrillazione Atriale”**. 1° Corso Annuale Teorico-Pratico di Ecocardiografia Transesofagea. IIRCCS Ospedale Universitario San Raffaele
 69. Aprile 2004. I Edizione: **“Update su Fibrillazione Atriale”**. 5° Congresso Nazionale di Aritmologia, Associazione Italiana di Aritmologia e Cardioritmo, Napoli, Castel Sant’Elmo
 70. Aprile 2004. Lettura Magistrale: **“Ablazione della fibrillazione atriale”**. VIII giornata

cardiologia di Valle di Suessola, Grand Hotel Vanvitelli, S. Marco Ev, Caserta.

71. Aprile 2004. **“Il trattamento della fibrillazione atriale nello scompenso cardiaco”**. Nuove Frontiere nella Diagnostica e Terapia Cardiovascolare Dalla fisiologia clinica alla biologia clinica. Baveno
72. Settembre 2004. **“Il trattamento elettrico dello scompenso cardiaco”**. Corso di Studio di Medicina Cardio-Respiratoria: “Il Paziente con complicanze post- cardiologiche”. Istituto San Giuseppe Moscati, Villa Margherita, Benevento
73. Ottobre 2004. **“Il ruolo dell’Aritmologia Interventistica nel Paziente con Insufficienza Mitralica e Disfunzione Ventricolare Sinistra”**. Meeting Italiano Tecniche Riparative Avanzate Live Ecocardiografia (M.I.T.R.A.L.E.). Centro Congressi San Raffaele, Milano
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75. Marzo 2003. **“Nuove applicazioni del pacing”**. The Rome Teaching Workshop, Aula Convegni del CNR, Roma
76. Aprile 2003. **“La corrente elettrica come terapia di alcune malattie del cuore”**. 3° Service sulla Sicurezza umana “Terapia e Prevenzione della Cardiopatia ischemica” (conferimento “Arco d’Argento” al Dr. Pappone), Lions Club di Benevento
77. Giugno 2003. **“La fibrillazione atriale: Ablazione”**. Cardiotrend 2003. Attualità: evidenze o tendenze? Napoli, Hotel Continental
78. Ottobre 2003. Lettura Magistrale: **“Ruolo dell’ablazione nel flutter e nella fibrillazione atriale: indicazioni e risultati”**. Corso di aggiornamento su Flutter e Fibrillazione Atriale. Casa delle Culture, Cosenza
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80. 31 Maggio-1 Giugno 2002. **“Quando ricorrere alle tecniche ablativo”**. 7° Meeting Internazionale Cardiologia 2000, Edizione 2002, Unità Operativa Cardiologia Ospedaliera Policlinico di Bari, Ostuni
81. Settembre 2002. **“Ruolo del pacing e del defibrillatore impiantabile nel trattamento dello scompenso cardiaco”**. Corso di Perfezionamento Teorico- Pratico in Stratificazione di rischio e trattamento delle sindromi coronariche acute Università degli Studi “Alma Mater” di Bologna
82. Aprile 2001. **“Attivazione elettrica del ventricolo sinistro. Un approccio nuovo per il trattamento dell’insufficienza cardiaca”**. Stratificazione di rischio e trattamento delle sindromi coronariche acute in terapia intensiva. Imola
83. Aprile 2001. **“Il pacing nel paziente con scompenso cardiaco”**. Attualità in Cardiologia 2001. Foggia
84. Aprile 2001. **“Radiofrequency catheter ablation: a technique for curino paroxysmal and chronic atrial fibrillation”**. Clinical Cardiology 2001. Brescia
85. Giugno 2001. **“Left ventricular electric activation. A new approach of the heart failure treatment”**. Working Group of the European Society of Cardiology. Imola
86. Giugno 2001. **“Ventricular stimulation”**. Stages in the evolution of chronic heart failure. Il Workshop Chronic heart failure in the elderly. Telesse
87. Settembre 2001. **“Modulazione elettrica non-eccitatoria della contrattilità miocardica. Quali risultati?”** Controversie in Cardiologia. Napoli.
88. Settembre 2001. **“Terapia ablativa della fibrillazione atriale”**. Nuovi Orizzonti in Aritmologia. Caserta
89. Ottobre 2001. **“Come curare la fibrillazione atriale”**. Il Congresso Internazionale Nuovi Orientamenti in Chirurgia Cardiovascolare e Cardiologia Interventistica. Palermo
90. Dicembre 2001. **“Come curare la fibrillazione atriale. Approcci e risultati dell’ablazione transcatetere della fibrillazione atriale”**. VII Giornata cardiologia di Valle di Suessola. Reggio di Caserta
91. Dicembre 2001. **“La resincronizzazione cardiaca”**. 62° Congresso della Società Italiana di

Cardiologia. Roma

92. Febbraio 2000. **“Pacing nello scompenso cardiaco: le modificazioni emodinamiche in acuto”**. 5° Corso di aggiornamento in Cardiologia – L’insufficienza cardiaca. S. Margherita Ligure
93. Febbraio 2000. **“Displasia aritmogena del ventricolo destro. Dalla fisiopatologia alla terapia”**. Imaging in Cardiologia, metodiche a confronto. Rende (CS)
94. Aprile 2000. **“L’ablazione della fibrillazione atriale: stato dell’arte”**. Nuovi orizzonti in Aritmologia. San Giovanni Rotondo (FG)
95. Aprile 2000. **“Scompenso ardiaco e stimolazione bi ventricolare”**. Nuovi orizzonti in Aritmologia. San Giovanni Rotondo (FG)
96. Aprile 2000. **“Fibrillazione atriale. Ablazione del substrato”**. Sessione plenaria, 3°Congresso Nazionale di Aritmologia. Catania
97. Maggio 2000. **“Stimolazione biventricolare multi sito”**. Cardiologia 2000, Ostuni (BR)
98. Settembre 2000. **“RF Catheter ablation for atrial fibrillation”**. VII°Southern Symposium on Cardiac Pacing. Giardini Naxos
99. Settembre 2000. **“Technological lead innovations and best sites for left ventricular pacing”**. VII Southern Symposium on Cardiac Pacing. Giardini Naxos.
100. Novembre 2000. **“Ablazione transcatetere a radiofrequenza della fibrillazione atriale”**. Giornate Cardiologiche Umbre
101. Dicembre 2000. **“Atrial fibrillation”**. IX°International Symposium on Progress in Clinical Pacing. Roma
102. Dicembre 2000. **“Encircling techniques of the pulmonary veins: a solution for paroxysmal or chronic AF patients?”** IX International Symposium on Progress in Clinical Pacing. Roma
103. Dicembre 2000. **“Innovative pacing therapeutic techniques for heart failure”**. IX International Symposium on Progress in Clinical Pacing. Roma
104. Gennaio 1999. **“Fibrillazione atriale: ablazione del substrato”**. Firenze Aritmie '99, Firenze
105. Marzo 1999. **“Le aritmie in età pediatrica. Prevalenza e rilevanza”**. La Cardiologia pediatrica per il pediatra di base – Il Corso Regionale HSR Milano
106. Aprile 1999. **“Aspetti tecnologici nell’impianto dei sistemi di stimolazione nello scompenso”**. Congresso Interregionale ANMCO. Palermo
107. Maggio 1999. **“Stimolazione del ventricolo sinistro”**. 4° Meeting Internazionale “CARDIOLOGIA 2000” – Ostuni
108. Maggio 1999. Una vita per il paziente: Convegno in memoria del Prof. Carlo Contini. **“Trattamento ablativo in radiofrequenza della sindrome WPW: cosa abbiamo imparato”**. Massa Carrara
109. Febbraio 1998. **“Novità nel campo della terapia elettrica delle aritmie cardiache ed esperienza presso l’ospedale Predabissi”**. Convegno di aggiornamento cardiologico “Attualità in Cardiologia” Vizzolo O.(MI)
110. Maggio 1998. **“Trattamento non farmacologico della fibrillazione atriale”**. 3° Meeting Internazionale-Cardiologia 2000. Ostuni
111. Giugno 1998. **“La tachicardia ventricolare”**. ANMCO. Congresso Nazionale di Cardiologia – Fortezza da Bassa, Firenze
112. Settembre 1998. **“The non contact-mapping of the atrial to guide RF ablation of atrial fibrillation”**. Seminario su Catheter ablation of atrial fibrillation – Giardini Naxos Taormina
113. Settembre 1998. **“3rd Contact System”**. International Symposium on contemporary issues on catheter ablation of ventricular arrhythmias. Centro cardiologico “Fondazione Monzino” – Università di Milano
114. Settembre 1998. **“Terapia medica o ablazione nella tachicardia parossistica”** 32°Convegno di Cardiologia 1998, Niguarda, Milano
115. Settembre 1998. **“Ablazione della fibrillazione atriale: modificazione del substrato. Tecniche e risultati ottenuti con il sistema Carto”**. Riunione Generale G.I.A. La Fibrillazione Atriale – Livorno
116. Ottobre 1998. **“Ablazione transcatetere e defibrillatori impiantabili”**. Riunione Scientifica

- Regionale – Problemi della terapia della fibrillazione atriale Napoli
117. Ottobre 1998. **“La prevenzione delle patologie cardiocircolatorie”**. XXIV edizione Giornate internazionali di studio “L’Orizzonte di Hermes” Rimini
 118. Novembre 1998. **“L’ablazione transcatetere nelle tachicardie ventricolari”**. Giornate Cardiologiche Umbre II°edizione – Perugia
 119. Novembre 1998. **“Situazione attuale e prospettive future delle tecniche ablative”**. I° Congresso “Nuovi Orientamenti in Cardiocirurgia e Cardiologia Interventistica” – Palermo
 120. Dicembre 1998. **“Biatrial Ablation”**. International Symposium on Progress in Clinical Pacing “Ablation of Atrial Fibrillation” Roma
 121. Marzo 1997. **“La terapia non farmacologica delle aritmie cardiache”**. Convegno scientifico interdisciplinare 2001 Tecnologie per la salute. Benevento
 122. Aprile 1997. **“Tachicardia atriale ectopica”**. Nel simposio Satellite: L’elettrofisiologia alla fine degli anni novanta: Utilità dei sistemi di registrazione digitali Cardiologia e Arte 1997 Aggiornamenti in Aritmologia Roma
 123. Aprile 1997. **“Quando e come ablare il flutter atriale?”** Cardiologia e Arte 1997 Aggiornamenti in Aritmologia Roma
 124. Aprile 1997. **“Ablazione transcatetere mediante radiofrequenza delle tachicardie ventricolari post-infartuali”**. Cardiologia e Arte 1997 Aggiornamenti in Aritmologia Roma
 125. Maggio 1997. **“Le aritmie ventricolari “life treating” ruolo dello studio elettrofisico, dell’ablazione con radiofrequenza e dell’ICD come provvedimento ponte o alternativo al trapianto cardiaco”**. Le aritmie nella disfunzione di pompa Milano
 126. Giugno 1997. **“Tachicardie ventricolari monomorfe recidivanti: indicazioni e risultati di procedurali ablazione transcatetere”**. Convegno Nazionale: Nuovi orizzonti della cardiologia. Portonovo (Ancona)
 127. Giugno 1997. **“Ablazione transcatetere di vie accessorie atrio-ventricolari mediante energia a radiofrequenza: risultati immediati e a distanza”**. Convegno Nazionale: Nuovi orizzonti della cardiologia. Portonovo (Ancona)
 128. Settembre 1997. **“L’ablazione Transcatetere a RF delle TV ischemiche”**. Recenti progressi nel trattamento delle aritmie cardiache Portonovo, Ancona
 129. Settembre 11-13 1997. **“Tridimensional Mapping of Arrhythmias”**. 3rd International Symposium on
 130. Settembre 1997. **“L’Ablazione transcatetere: le nuove tecnologie”**. VIII° Corso di aggiornamento in elettrostimolazione cardiaca permanente e aritmologica. Rimini
 131. Settembre 1997. **“L’Impianto profilattico del cardioverter defibrillatore: fantasia o realtà”**. XI° Congresso Meridionale di Cardiologia, linee guida terapeutiche in cardiologia. Reggio Calabria
 132. Ottobre 1997. **“Le tachicardie ventricolari non infartuali”** Simposio Interregionale. La terapia delle aritmie cardiache mediante ablazione transcatetere. Pescara
 133. Ottobre 1997. **“Ablazione delle tachicardie Ventricolari”**. Terapia non convenzionale delle aritmie. San Giovanni Rotondo
 134. Ottobre 1997. **“Linear Applications of radiofrequency guided by a non fluroscopic system”**. Course on: one day revisited electrical heart anatomy Varese
 135. Gennaio 1996. **“Radiofrequency current ablation of ischemic ventricular tachycardia in patients with coronary artery disease using a cooled-tip catheter”**. The "New Frontiers of Arrhythmias 1996, 12th International Congress, Marilleva Trento
 136. Marzo 1996. **“WPW sintomatico: dopo lo studio dei 164 centri nordamericani è lecito rinunciare all’ablazione transcatetere della via anomala?”**. Conoscere e Curare il Cuore '96, XIII Simposio di Cardiologia del Centro per la Lotta contro l'Infarto, Firenze
 137. Marzo 1996. **“Ectopic atrial tachycardia: wich are the best electrophysiological makers?”** Advances in cardiac arrhythmias from caliper to catheter-unresolved iussed in atrial fibrillation sudden cardiac death in the young. Torino
 138. Marzo 1996. **“Ruolo dell’ablazione transcatetere nei pazienti portatori di CDI”**. Aritmie ventricolari maligne: quale ruolo per il CDI? Quali indicazioni? Venezia

139. Giugno 1996. **“Ruolo dell'interruzione traumatica e della lesione test nel predire il successo dell'ablazione transcatetere mediante radiofrequenza di tachicardia atriale automatica”**. XXVIII°A.N.M.C.O. Firenze
140. Giugno 1996. **“Predittori di efficacia a lungo termine dell'ablazione transcatetere mediante radiofrequenza di tachicardia ventricolare in pazienti con displasia aritmogena del ventricolo destro”**. XXVIII°A.N.M.C.O. Firenze
141. Giugno 1996. **“Criteri per l'identificazione del sito di ablazione in pazienti già sottoposti con insuccesso ad ablazione chirurgica”**. XXVIII°A.N.M.C.O. Firenze
142. Giugno 1996. **“Ruolo del monitoraggio della temperatura e della corrente nell'ablazione transcatetere mediante radiofrequenza delle vie accessorie tipo kent di parete libera destra”**. XXVIII°A.N.M.C.O. Firenze
143. Giugno 1996. **“Confronto fra dispositivi antitachicardici con impianto a sede pettorale ed a sede addominale. Risultati, complicanze e follow-up”**. XXVIII A.N.M.C.O. Firenze
144. Giugno 1996. **“Ablation Treatment”**. First Mediterranean Symposium on Cardiac Arrhythmia. Siracusa (Italy)
145. Luglio 1996. **“Cosa é possibile fare oggi con l'ablazione transcatetere a radiofrequenza”**. 3°corso teorico pratico di ablazione transcatetere mediante radiofrequenza delle aritmie. Milan. HS.Raffaele-International Biomedical Science Park
146. Luglio 1996. **“L'anatomia e la fisiologia del sistema elettrico del cuore”**. 1°corso teorico pratico di impianto di pace-maker e dispositivi antitachicardici. Milano, HS.Raffaele-International Biomedical Science Park
147. Settembre 1996. **“Prospettive future sull'ablazione del substrato della fa: fattibilità nel paziente anziano”**. XIX Congresso Nazionale di Cardiologia dell'anziano. Portonovo, Ancona
148. Settembre 1996 **“Ablative Techniques: What is possible now? What has to happen to expand this Technique to more Patients?”** Therapies for Cardiac Arrhythmias in 1996: Where are we going? V Southern Symposium on Cardiac Pacing. Taormina
149. Settembre 1996. **“Radiofrequency Catheter Ablation for Management of Symptomatic Ventricular Ectopic Activity”**. Therapies for Cardiac Arrhythmias in 1996: Where are we going? V Southern Symposium on Cardiac Pacing. Taormina
150. Settembre 1996. **“Mapping Techniques in Atrial Fibrillation and Flutter”**. Therapies for Cardiac Arrhythmias in 1996: Where are we going now? V Southern Symposium on Cardiac Pacing. Taormina
151. Settembre 1996. **“Radiofrequency Catheter Ablation of Ventricular Tachycardia after Surgical Repair of Tetralogy of Fallo”**. Therapies for Cardiac Arrhythmias in 1996: Where are we going now? V Southern Symposium on Cardiac Pacing. Taormina
152. Settembre 1996. **“Prospettive future sull'ablazione del substrato della F.A.: fattibilità nel paziente anziano”**. Approcci non convenzionali al trattamento della fibrillazione atriale XIX (IV Sessione), Congresso Italiano di cardiologia dell'anziano (I.N.R.C.A Istituto a Carattere Scientifico). Portonovo di Ancona
153. Settembre 1996. **“Successi e limiti dell'ablazione transcatetere nelle Tachicardie Ventricolari sostenute recidivanti ischemiche”**. Tachicardie ventricolari, presente e futuro, 30 Convegno Internazionale Cardiologia 1996 (promosso dal Centro A. De Gasperi - Dipartimento Cardiologico Ospedale Ca Granda, Milano-Niguarda). Milano
154. Ottobre 1996. **“Le tachicardie ventricolari non infartuali”**. La terapia delle aritmie cardiache mediante ablazione transcatetere, Simposio Interregionale Pescara
155. Novembre 1996. **“Tachicardia ventricolare idiopatica: problemi diagnostici e possibilità terapeutiche”**. Convegno nazionale di cardiologia dello sport (Confini tra normalità e patologia nel cuore dello sportivo). Venezia. Giuliano
156. Dicembre 1996. **“Troubles and troubleshooting in catheter ablation in Catheter Ablation of Tachyarrhythmias”**. International Symposium on Progress in clinical Pacing Roma
157. Dicembre 1996. **“ICD Individual Programming in Automatic Implantable Cardioverter Defibrillator: State of the Art”**. International Symposium on Progress in clinical Pacing. Roma.
158. Dicembre 1996. **“Ablation or Drugs: when first? in Ventricular tachycardia in patients with**

- coronary artery disease: controversial topics**". International Symposium on Progress in clinical Pacing Roma
159. Aprile 1995. "**Indicazioni e limiti delle tecniche invasive: Studio elettrofisiologico**". Corso annuale per la formazione permanente del medico; Cardioangiologia. Ordine dei Medici di Napoli
 160. Aprile 1995. "**Le aritmie: Tachicardie sopraventricolari**". Corso annuale per la formazione permanente del medico; Cardioangiologia. Ordine dei Medici di Napoli
 161. Giugno 1995. "**Terapia ablativa nelle tachicardie ventricolari**". Incontri scientifici aritmologici Casa di Cura Sollievo delle Sofferenze, Padre Pio S. Giovanni Rotondo
 162. Settembre 1995. "**Terapia Interventistica**". Simposio congiunto SICP/SIC "Aritmie in età pediatrica: recenti acquisizioni XXV Congresso Nazionale della Società Italiana di Cardiologia Pediatrica Fiuggi
 163. Settembre 1995. "**L'ablazione transcatetere delle tachicardie ventricolari. Indicazioni, tecnica e risultati**". 5° Riunione Scientifica Annuale dell'Associazione Italiana di Cardioritmiologia Rimini
 164. Novembre 1995. "**Quando l'ICD prolunga la vita dei pazienti**". Corso di Aggiornamento ANMCO Regione Sicilia Caltanissetta
 165. Dicembre 1995. "**La sindrome di W.P.W.: quando intervenire?**" 56° Congresso Nazionale della Società Italiana di Cardiologia, Roma
 166. Gennaio 1994. "**Radiofrequency ablation in Wolff-Parkinson- White Syndrome: criteria for identification of ideal ablation sites**". 11th International congress "The new Frontiers of Arrhythmias" Marilleva (TN)
 167. Aprile 1994. "**Aspetti fisiopatologici dell'ablazione transcatetere mediante radiofrequenza**". I Corso Teorico-pratico su "Ablazione transcatetere mediante radiofrequenza delle aritmie" Napoli
 168. Aprile 1994. "**Anatomia radiologica dell'ablazione transcatetere**". I Corso Teorico-pratico su "Ablazione transcatetere mediante radiofrequenza delle aritmie" Napoli
 169. Aprile 1994 "**Approccio vascolare all'ablazione transcatetere**". I Corso Teorico-pratico su "Ablazione transcatetere mediante radiofrequenza delle aritmie" Napoli
 170. Maggio 1994. "**Miocardiopatia aritmogena: ablazione transcatetere di tachicardia ventricolare**". XXV° Congresso Nazionale ANMCO, Firenze
 171. Giugno 1994. "**Catheter ablation in W.P.W.: right free wall and anteroseptal accessory pathways**". Meeting on "Advances in Cardiac Arrhythmias", Torino
 172. Settembre 1994. "**Catheter ablation of VT in arrhythmogenic cardiomyopathy**". IV Southern Symposium on Cardiac Pacing, Giardini Naxos Taormina
 173. Settembre 1994. "**Il punto su: ablazione di fasci anomali nella sindrome di W.P.W.**". 28° Convegno Internazionale Cardiologia 1994, Milano
 174. Ottobre 1994. "In quali pazienti è realmente indicata l'ablazione con Radiofrequenza". Corso di Aritmologia, Convegno Finale, ANCE Sezione Regionale Umbria, Comune di Montefolco
 175. **Dicembre 1994.** "Ablazione transcatetere con Radiofrequenza nella terapia delle aritmie: **la tecnica, le indicazioni, i risultati**". V Convegno di Cardiologia, I Ritmi del Cuore, Argomenti di Aritmologia Clinica, ANMCO Sezione Regionale Molise, Termoli
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 177. Novembre 1993. "**Le TPSV**". Riunioni scientifiche regionali S.I.C. "Terapie elettriche delle aritmie" Bari
 178. Dicembre 1993. "**Ablazione del circuito delle tachicardie parossistiche nella sindrome di Wolff Parkinson White**". 54° Congresso della Società Italiana di Cardiologia, Roma
 179. **1993.** "**Ablazione transcatetere mediante radiofrequenza delle vie anomale tipo Kent**". **4 Convegno Nazionale di Stimolazione Cardiaca Transesofagea, Firenze**
 180. 1992. "**Ablazione transcatetere mediante radiofrequenza di 119 vie anomale tipo Kent**". Atti del Convegno "Terapia delle tachiaritmie e cardioverter defibrillatore impiantabile." suppl

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181. Ottobre 1993. "**Ablazione transcatetere di vie anomale tipo Kent**". International Meeting "Risk benefit ratio of antiarrhythmic therapy" Bologna
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183. Ottobre 1992. "**Treatment of arrhythmias with transcatheter ablation**". International Congress of Cardiology Imaging in Cardiology, Modena
184. Settembre 1992. "**Esperienza italiana con il PCD Medtronic impiantato mediante approccio transvenoso**". III Simposio Meridionale di Cardioritmo, Taormina
185. Ottobre 1992. "**Esperienza italiana sui sistemi endocardici: sistema PCD Medtronic**". Simposio "Il defibrillatore cardiovertitore impiantabile oggi", Baveno
186. Ottobre 1992. "**Ablazione transcatetere mediante radiofrequenza delle vie anomale tipo Kent**". Corso di aggiornamento della S.I.C. "Nuove strategie terapeutiche nel malato aritmico" Napoli
187. Novembre 1992. "**Prevenzione della morte improvvisa nelle cardiomiopatie**". Corso di Metodologia della Ricerca della S.I.C. "Aterosclerosi coronarica ed extracoronarica: fattori di rischio e possibilita' di intervento - aspetti attuali sulle cardiomiopatie", Catanzaro
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189. Ottobre 1992. "**Ablazione transcatetere mediante radiofrequenza di vie anomale tipo Kent**". Corso di Metodologia della Ricerca S.I.C. "Nuove strategie terapeutiche nel malato aritmico". Napoli
190. Novembre 1992. "**Ablazione transcatetere mediante radiofrequenza delle vie anomale tipo Kent**". Conferenza di Cardiologia "Non-pharmacologic treatment of cardiac arrhythmias: transcatheter ablation and implantable cardioverter defibrillator" Napoli
191. Novembre 1992. "**Morte improvvisa nelle Miocardiopatie**". Corso di Metodologia della Ricerca S.I.C: Nuovi aspetti terapeutici nelle miocardiopatie. Catanzaro
192. Febbraio 1991. "**Diagnosi clinica e terapia della tachicardia atriale ectopica**". III° convegno "Clinica e Terapia delle Aritmie.", Bologna
193. Novembre 1991. "**Tecniche di impianto transvenoso di dispositivi antitachicardici**". Il Simposio Regionale di aggiornamento in Cardioritmo "Nuovi Aspetti del Trattamento Elettrico delle Aritmie Cardiache", Napoli
194. Ottobre 1991. "**Indicazione all'impianto di AICD in pazienti con aritmie ventricolari maggiori**". Corso di aggiornamento della S.I.C. "Aritmie ventricolari potenzialmente letali: nuove strategie diagnostiche e terapeutiche", Napoli

Service as Chairman

1. **Atrial Fibrillation Rate or Rhythm control of AF revisited**. 14th ICPES Congress: Atene 11-13 December 2011
2. **Biosense Luncheon Panel**. Venice Arrhythmias: Venezia 10-12 October 2011
3. **New technology for optimized AF ablations outcomes**. Europace: Madrid 27- 28 June 2011
3. **New technology for atrial fibrillation: from development to clinical application**. Venice 2009 Arrhythmias - 11th International Workshop on Cardiac Arrhythmias – Venice (Italy), 4-7 October 2009
4. **Controversies on indication to AF ablation**. Venice 2009 Arrhythmias - 11th International Workshop on Cardiac Arrhythmias – Venice (Italy), 4-7 October 2009
5. **Atrial fibrillation ablation, new techniques, new hopes**. ESC Congress 2009. Barcelona, 29 August – 2 September, 2009
6. **Technical and clinical issues in atrial fibrillation ablation**. XXIII World Congress on Cardiac

- Pacing and Electrophysiology. Rome, December 2-5, 2008
7. **Ablation for supraventricular and ventricular arrhythmias** IV Congress of update in cardiology and cardiovascular surgery. Antalya, Turkey, 28 November-2nd December 2008
 8. **Standard” RF ablation of atrial fibrillation: Where are we?** Cardiostim 2008. Nice (France) June 18-21, 2008
 9. **The post atrial fibrillation ablation patient** XXII World Congress on Cardiac Pacing and Electrophysiology. Rome, December 3-6, 2007
 10. **Impact of recent advances in the treatment of AF.** XXII World Congress on Cardiac Pacing and Electrophysiology. Rome, December 3-6, 2007
 11. **Venice Chart 2007 on Atrial Fibrillation Ablation. Included in the session dedicated to Techniques of AF ablation.** Venice2007 Arrhythmias. 10th International Workshop on Cardiac Arrhythmias. Venice, 7-10 October 2007
 12. **Remote navigation for catheter ablation in AF: Experience to date.** 12h Annual Boston Symposium Atrial Fibrillation. Emerging Technologies for Atrial Fibrillation Boston, Massachusetts, USA, Jan 11-13, 2007
 13. **Molecular Biology in Arrhythmias. Luncheon Panel** XII International Symposium on Progress in Clinical Pacing. Roma, December 5-8 , 2006
 14. **The perfect AF lab and team: 2-4 questions by voting.** First European AF: “together we can” Meeting Madrid, November 9-10, 2006
 15. **AF lab and new approaches for optimised AF treatment.** First European AF: “together we can” Meeting Madrid November, 9-10, 2006
 16. **Anatomy and different practical EP treatment of AF.** First European AF: “together we can” Meeting Madrid November, 9-10, 2006
 17. **EP testing is useful to risk stratify Brugada Syndrome. Debate. Moderator: Pappone C. Antagonist: Priori S.** Guidant EP fellows Course. Transition to practice. New York, December 2-4, 2005
 18. **The Sequelae of Mitral Disease: Atrial Fibrillation.** “Eight mitral Reconstructive Surgery Symposium”. Centro Congressi Ospedale San Raffaele. Milan, October 17-18, 2005
 19. **Role of telecardiology in the management of patients with cardiac Arrhythmias.** Venice Arrhythmias 2005. 9th International Workshop on Cardiac Arrhythmias. Venice, 2-5 Ottobre 2005
 20. **Atrial Fibrillation – to cure or rate regulate.** EUROPACE 2005, Prague, Czech Republic, June, 26-29, 2005
 21. **Experts Unplugged: Carlo Pappone, Session type:** Experts Unplugged, Heart Rhythm 2005, 26th Annual Scientific Session, New Orleans, LA, USA, May 4-7, 2005
 22. **The Cardiac Nervous System.** 4th Atrial Fibrillation Therapy Symposium, Vienna, Austria, March 17-18, 2005
 23. **New Insight into non-contact mapping and ablation of cardiac arrhythmias.** Progress in Clinical Pacing. Rome, November 30-December 3, 2004
 24. **Atrial Fibrillation: post ablation issues.** Progress in Clinical Pacing. Rome, November 30-December 3, 2004
 25. **The role of new technologies in facilitating the effectiveness of ablation in complex arrhythmias.** Progress in Clinical Pacing, Rome, November 30- December 3, 2004
 26. **Session Title: New Methods and Technologies for Ablation.** 25th Annual Session North American Society of Pacing and Electrophysiology Heart Rhythm 2004, San Francisco, May 17-19, 2004
 27. **ESC Session: Catheter Ablation for Atrial Fibrillation.** European Society of Cardiology Congress 2003. Vienna, Austria. August 30– September 3, 2003
 28. **Session: Atrial Fibrillation Ablation: Worldwide Experience.** Venice Arrhythmias 2003, Eighth International Workshop on Cardiac Arrhythmias. Venice, October 5-8, 2003
 29. **Nuovi sviluppi nel trattamento dello scompenso cardiaco.** Simposio Satellite. 3°Congresso Nazionale di Aritmologia. Catania, 27-29 Aprile 2000
 30. **Update of current therapies for atrial fibrillation and molecular biology’s future role.** CARDIOSTIM 2000. Nice (France), June 14-17, 2000

31. **Clinical and electrophysiological considerations in ablation techniques.** CARDIOSTIM 2000. Nice (France), June 14-17, 2000
32. **Transcatheter ablation of tachyarrhythmias: materials and techniques.** IX International Symposium on Progress in Clinical Pacing. Roma, 5-8 Dicembre 2000
33. **Ablation of tachyarrhythmias. Acute and long term results in Ventricular Tachycardia.** IX International Symposium on Progress in Clinical Pacing. Roma, 5- 8 Dicembre 2000
34. **Atrial Fibrillation.** Carto and Noga /DMR Scholar's meeting – Sitges, Aug 1999
35. **Use of non fluoroscopic electro-anatomical mapping to guide ablation of arrhythmogenic substrates.** 13th International Congress The "New Frontiers" of Arrhythmias Marilleva Trento 24-31-January, 1998
36. **Progress in mapping of cardiac arrhythmias.** 13th International Congress The "New Frontiers" of Arrhythmias Marilleva Trento 24-31-January, 1998
37. **Catheter ablation of Atrial Tachyarrhythmias.** LMU Forum on Interventional Electrophysiology: Febbraio 1998
38. **Diagnostica invasiva e terapia elettrica delle aritmie cardiache.** Riunione Generale G.I.A. La Fibrillazione Atriale – Livorno, Settembre 1998
39. **Sincopi neuromediate: elettrofisiologia, ablazione transcateretere.** Giornate Cardiologiche umbre. Perugia, Novembre 1998
40. **Basic Electrophysiology of Tachyarrhythmias.** International Symposium on Progress in Clinical Pacing. Palermo, Dicembre 1998
41. **Ablation Catheters.** 3rd International Symposium on Pacing Leads. Ferrara, 11-13 Settembre 1997
42. **Ablazione in tutti i pazienti con W.P.W.** 31° Convegno Internazionale. Milano, 22-26 Settembre 1997
43. **L'ablazione delle tachicardie da rientro atrio-ventricolare.** Corso di aggiornamento in Aritmologia interventistica, Terapia non convenzionale delle aritmie. Milano, 16-18 ottobre 1997
44. **Risultati e complicanze dell'ablazione transcateretere.** 1° Congresso Nazionale congiunto dell'Associazione Italiana di Cardiolazione e del Gruppo Italiano di Aritmologia. Centro Congressi Castel dell'Ovo. Napoli, 18-20 aprile 1996
45. **Atrial fibrillation: non pharmacologic therapies.** Atrial fibrillation and related clinical problems Bologna, September 18-19, 1995
46. **Paziente resuscitato dopo arresto cardiaco: AICD?** 29° Convegno Internazionale Cardiologia 1995 Centro A. De Gasperi Ospedale Ca' Granda Milano-Niguarda, 25-29 Settembre 1995
47. **Aritmie ventricolari maligne: terapia farmacologica, ablativa ed elettrica.** XXV Congresso Nazionale di Cardiologia ANMCO, Firenze, 29 Maggio- 1 Giugno 1994
48. **Catheter ablation: techniques, indications and results.** International Symposium on "Progress in Clinical Pacing", Roma, 7-10 Dicembre 1994
49. **W.P.W.: Aspetti clinici.** in International Meeting "Risk benefit ratio of antiarrhythmic therapy" Bologna, 8-9 Ottobre 1993
50. **ESC Working Group on Arrhythmias. "Catheter ablation of arrhythmias"**- European Society of Cardiology, third teaching workshop, Rome, 6-7 December. 1993

Organization of International Courses and Training Programs. Arrhythmology Academy

Program Director: Carlo Pappone; Scientific Director: Vincenzo Santinelli

Prof. Pappone is the Founder and Director of the Arrhythmology Academy, which began at San Raffaele University-Hospital in Milan in 2005 and currently continues at San Donato University Hospital, Milan. The Academy promotes advances in interventional electrophysiology techniques ensuring these are translated as quickly as possible into healthcare benefits for the society. The

Academy also promotes theory and practice through interactive discussion and comments during live procedure demonstrations performed by Prof. Pappone, meetings, and lectures. It has numerous interactions and partnerships in Italy and internationally. Collaboration with industry is also undertaken. Training programs are attended annually by interventional electrophysiologists from all around the world. The Academy is accredited by the European Society of Cardiology (EBAC), and in the past it was accredited by the Italian Ministry of Health. Training courses are offered for worldwide trained cardiologists, cardiologists in training, other physicians, nurses, technicians, and electrophysiologists in a two-day monthly program. As the program is essentially based on live sessions of ablation procedures, implant of devices for cardiac resynchronisation therapy, or new virtual mapping systems, the attendees can get directly from the operators the most important tips that make as simple as possible the electrophysiology procedures. Each session concludes with an interactive session between operators and attendees.

Patents

Carlo Pappone has filed for patents to protect the following inventions. This list includes patent applications that are pending, as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

1. Analyzing and mapping ECG signals and determining ablation points to eliminate Brugada Syndrome

Publication number: 20180206921

Abstract: A system and method for Brugada syndrome epicardial ablation comprising preparing an endocardial duration map; preparing a baseline epicardial duration map comprising at least one or more areas of delimitation; and when some of the areas of delimitation are greater than 200 ms, performing epicardial ablation of the areas of delimitation greater than 200 ms. The method may further comprise preparing an updated epicardial duration map after performing epicardial ablation, and determining whether or not a BrS pattern appears in the updated epicardial duration map; and when the BrS pattern appears, performing epicardial ablation. The method may further comprise preparing an updated epicardial duration map after performing epicardial ablation, and determining whether or not an abnormal EGM exists in the updated epicardial duration map; and when the abnormal EGM exists, performing epicardial ablation.

Type: Application

Filed: January 18, 2018

Publication date: July 26, 2018

Applicant: Biosense Webster (Israel) Ltd.

Inventors: Carlo Pappone, Aharon Turgeman, Paolo Roberto Pozzi, Andrea Natalizia

2. A method and system for eliminating a broad range of cardiac conditions by analyzing intracardiac signals, providing a detailed map and determining potential ablation points

Publication number: 20180206920

Abstract: A system and method for improving ablation procedures is presented. The method may comprise measuring EGM signals; performing three dimensional mapping of the EGM signals; and detecting a location for ablation based on the mapping. The method may further comprise creating a potential duration map, a local activation time map, and a bipolar voltage map. The method may

further comprise creating a PDM by defining a window of interest (WOI) comprising at least a cycle length; calculating previous heart beats based on the cycle length and reference annotation; and assigning the heart beats within the cycle length of the WOI to the WOI.

Type: Application

Filed: December 26, 2017

Publication date: July 26, 2018

Applicant: Biosense Webster (Israel) Ltd.

Inventors: Carlo Pappone, Aharon Turgeman, Paolo Roberto Pozzi, Andrea Natalizia

3. Methods and Systems for Identifying and Mapping Cardiac Activation Wavefronts

Publication number: 20180125383

Abstract: A map of cardiac activation wavefronts can be created from a plurality of mesh nodes, each of which is assigned a conduction velocity vector. Directed edges are defined to interconnect the mesh nodes, and weights are assigned to the directed edges, thereby creating a weighted directed conduction velocity graph. A user can select one or more points within the weighted directed conduction velocity graph (which do not necessarily correspond to nodes), and one or more cardiac activation wavefronts passing through these points can be identified using the weighted directed conduction velocity graph. The cardiac activation wavefronts can then be displayed on a graphical representation of the cardiac geometry.

Type: Application

Filed: January 5, 2018

Publication date: May 10, 2018

Inventors: Dongfeng Han, Valtino X. Afonso, Chin-Ann Yang, Dennis J. Morgan, Carlo Pappone

4. Irrigated catheter with improved fluid flow

Publication number: 20170105796

Abstract: An irrigated catheter with uniform cooling and/or uniform fluid distribution in longitudinally spaced apart elution holes by varying the diameter of a fluid delivery lumen. A number of elution holes are provided in a tip region of a catheter body, and these elution holes are in fluid communication with the lumen through ducts. The fluid delivery lumen may be provided with a flow constrictor to restrict flow of fluid towards the distal region.

Type: Application

Filed: December 23, 2016

Publication date: April 20, 2017

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata

5. Ablation catheter with flexible electrode

Publication number: 20170065341

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body.

Type: Application

Filed: November 10, 2016

Publication date: March 9, 2017

Inventors: Carlo Pappone, Alan de la Rama, Peter C. Chen, Cary Hata, Jared A. Shimizu

6. Methods and Systems for Identifying and Mapping Cardiac Activation Wavefronts

Publication number: 20180125383

Abstract: A map of cardiac activation wavefronts can be created from a plurality of mesh nodes, each of which is assigned a conduction velocity vector. Directed edges are defined to interconnect the mesh nodes, and weights are assigned to the directed edges, thereby creating a weighted directed conduction velocity graph. A user can select one or more points within the weighted directed conduction velocity graph (which do not necessarily correspond to nodes), and one or more cardiac activation wavefronts passing through these points can be identified using the weighted directed conduction velocity graph. The cardiac activation wavefronts can then be displayed on a graphical representation of the cardiac geometry. ...

Type: Application

Filed: January 5, 2018

Publication date: May 10, 2018

Inventors: Dongfeng Han, Valtino X. Afonso, Chin-Ann Yang, Dennis J. Morgan, Carlo Pappone

7. Irrigated catheter with improved fluid flow

Patent number: 9962224

Abstract: An irrigated catheter with uniform cooling and/or uniform fluid distribution in longitudinally spaced apart elution holes by varying the diameter of a fluid delivery lumen. A number of elution holes are provided in a tip region of a catheter body, and these elution holes are in fluid communication with the lumen through ducts. The fluid delivery lumen may be provided with a flow constrictor to restrict flow of fluid towards the distal region. ...

Type: Grant

Filed: December 23, 2016

Date of Patent: May 8, 2018

Assignee: ST. JUDE MEDICAL, ATRIAL FIBRILLATION DIVISION, INC. ...

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata ...

8. Methods and systems for mapping local conduction velocity

Publication number: 20170014086

Abstract: The local conduction velocity of a cardiac activation wavefront can be computed by collecting a plurality of electrophysiology ("EP") data points using a multi-electrode catheter, with each EP data point including both position data and local activation time ("LAT") data. For any EP data point, a neighborhood of EP data points, including the selected EP data point and at least two additional EP data points, can be defined. Planes of position and LATs can then be defined using the positions and LATs, respectively, of the EP data points within the neighborhood. A conduction velocity can be computed from an intersection of the planes of positions and LATs. The resultant plurality of conduction velocities can be output as a graphical representation (e.g., an electrophysiology map), for example by displaying vector icons arranged in a uniform grid over a three-dimensional cardiac model. ...

Type: Application ...

Filed: September 28, 2016 ...

Publication date: January 19, 2017 ...

Inventors: Wenwen Li, Erhan Erdemir, Eric J. Voth, Valtino X. Afonso, Carlo Pappone ...

9. Irrigated flexible ablation catheter

Patent number: 9510903

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. ...

Type: Grant ...

Filed: June 24, 2014

Date of Patent: December 6, 2016

Assignee: ST. JUDE MEDICAL, ATRIAL FIBRILLATION DIVISION, INC.

Inventors: Carlo Pappone, Alan de la Rama, Peter C. Chen, Cary Hata, Jared A. Shimizu

10. System and Method for Real-Time Electrophysiological Mapping

Publication number: 20160324485

Abstract: A method of generating a real-time electrophysiology map, such as a cardiac electrophysiology map, includes displaying a cardiac surface model and receiving a plurality of electrophysiology data points (e.g., using a plurality of intracardiac electrodes). The electrophysiology data from the received electrophysiology data points can be displayed and updated on the cardiac surface model in real-time when it satisfies a preset inclusion criteria, such as a projection distance criterion (e.g., the electrophysiology data point is within a preset distance of the cardiac surface model), a contact force criterion (e.g., the intracardiac catheter is exerting at least a preset contact force on the tissue surface), and/or an electrical coupling criterion (e.g., the electrode-tissue electrical coupling exceeds a preset threshold). New electrophysiology data points can be received when a triggering event, such as a point in the cardiac cycle, occurs, or according to a preset timer interval.

Type: Application

Filed: May 6, 2016

Publication date: November 10, 2016

Inventors: Erhan Erdemir, Wenwen Li, Carlo Pappone

11. Methods and systems for mapping local conduction velocity

Patent number: 9474491

Abstract: The local conduction velocity of a cardiac activation wavefront can be computed by collecting a plurality of electrophysiology ("EP") data points using a multi-electrode catheter, with each EP data point including both position data and local activation time ("LAT") data. For any EP data point, a neighborhood of EP data points, including the selected EP data point and at least two additional EP data points, can be defined. Planes of position and LATs can then be defined using the positions and LATs, respectively, of the EP data points within the neighborhood. A conduction velocity can be computed from an intersection of the planes of positions and LATs. The resultant plurality of conduction velocities can be output as a graphical representation (e.g., an electrophysiology map), for example by displaying vector icons arranged in a uniform grid over a three-dimensional cardiac model.

Type: Grant

Filed: October 15, 2015

Date of Patent: October 25, 2016

Assignee: St. Jude Medical, Cardiology Division, Inc.

Inventors: Wenwen Li, Erhan Erdemir, Eric Voth, Valtino Afonso, Carlo Pappone

12. Methods and Systems for Generating Integrated Substrate Maps for Cardiac Arrhythmias

Publication number: 20160106336

Abstract: An electrophysiology map, for example a map of arrhythmic substrate, can be generated by acquiring both geometry information and electrophysiology information pertaining to an anatomical region, and associating the acquired geometry and electrophysiology information as a plurality of electrophysiology data points. A user can select two (or more) electrophysiological characteristics for display, and can further elect to apply various filters to the selected electrophysiological characteristics. The user can also define various relationships (e.g., Boolean ANDs, ORs, and the like) between the selected and/or filtered characteristics. The user-selected filtering criteria can be applied to the electrophysiology data points to output various subsets thereof.

These subsets can then be graphically rendered using various combinations of colorscale, monochrome scale, and iconography, for example as a three-dimensional cardiac electrophysiology model. ...

Type: Application ...

Filed: October 15, 2015 ...

Publication date: April 21, 2016 ...

Inventors: Wenwen Li, Erhan Erdemir, Valtino Afonso, Carlo Pappone, Dennis Morgan ...

13. Methods and Systems for Mapping Local Conduction Velocity

Publication number: 20160106376

Abstract: The local conduction velocity of a cardiac activation wavefront can be computed by collecting a plurality of electrophysiology (“EP”) data points using a multi-electrode catheter, with each EP data point including both position data and local activation time (“LAT”) data. For any EP data point, a neighborhood of EP data points, including the selected EP data point and at least two additional EP data points, can be defined. Planes of position and LATs can then be defined using the positions and LATs, respectively, of the EP data points within the neighborhood. A conduction velocity can be computed from an intersection of the planes of positions and LATs. The resultant plurality of conduction velocities can be output as a graphical representation (e.g., an electrophysiology map), for example by displaying vector icons arranged in a uniform grid over a three-dimensional cardiac model. ...

Type: Application ...

Filed: October 15, 2015 ...

Publication date: April 21, 2016 ...

Inventors: Wenwen Li, Erhan Erdemir, Eric Voth, Valtino Afonso, Carlo Pappone

14. Flexible high-density mapping catheter tips and flexible ablation catheter tips with onboard high-density mapping electrodes

Publication number: 20150374252

Abstract: Flexible high-density mapping catheter tips (10A) and flexible ablation catheter tips with onboard high-density mapping electrodes (18) are disclosed. These tips can be used for diagnosing and treating cardiac arrhythmias. The flexible, distal tips are adapted to conform to tissue and comprise a plurality of microelectrodes mounted to permit relative movement among at least some of the microelectrodes. The flexible tip portions may comprise a flexible framework forming a flexible array of microelectrodes (for example, a planar or cylindrical array) adapted to conform to tissue and constructed at least in part from nonconductive material in some embodiments. The flexible array of microelectrodes may be formed from a plurality of rows of longitudinally-aligned microelectrodes (18). The flexible array may further comprise, for example, a plurality of electrode-carrying arms or electrode-carrier bands. Multiple flexible frameworks may be present on a single device. ...

Type: Application ...

Filed: January 16, 2014 ...

Publication date: December 31, 2015

Inventors: Alan de la Rama, Cary Hata, Donald C. Deno, Carlo Pappone

15. Irrigated flexible ablation catheter

Publication number: 20140330269

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. ...

Type: Application ...

Filed: June 24, 2014 ...

Publication date: November 6, 2014 ...

Inventors: Carlo Pappone, Alan de la Rama, Peter C. Chen, Cary Hata, Jared A. Shimizu ...

16. Irrigated catheter

Publication number: 20140303619

Abstract: A fluid delivery catheter configured to allow optimal fluid distribution through each electrode by varying the diameter of a catheter lumen is disclosed. Uniform or different fluid flow rates through longitudinally spaced apart elution holes may be achieved. Exemplary fluids for use with the catheter include a cooling fluid, a therapeutic fluid, and a medication. ...

Type: Application

Filed: May 27, 2014 ...

Publication date: October 9, 2014 ...

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata ...

17. Magnetically guided catheter with flexible tip

Patent number: 8827910

Abstract: A catheter includes a flexible tubing having a proximal end and a distal end. The catheter also includes an electrode assembly attached to the distal end of the flexible tubing and including a first magnet therein. The electrode assembly including an electrically conductive tip electrode and an electrically nonconductive coupler which is connected between the tip electrode and the distal end of the flexible tubing. The electrically conductive tip electrode comprises a hollow elongated tip electrode including a sidewall provided with one or more elongated gaps extending through the sidewall. The one or more elongated gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. The first magnet is responsive to an external magnetic field to selectively position and guide the electrode assembly within a body of a patient. ...

Type: Grant ...

Filed: July 3, 2008 ...

Date of Patent: September 9, 2014 ...

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc. ...

Inventors: Alan de la Rama, Carlo Pappone, Peter Cheng Chen, Cary Hata, Jared A. Shimizu ...

18. Ablation catheter with flexible tip

Patent number: 8790341

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. ...

Type: Grant

Filed: June 5, 2013

Date of Patent: July 29, 2014 ...

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc.

Inventors: Carlo Pappone, Alan de la Rama, Peter C Chen, Cary Hata, Jared A. Shimizu

19. Irrigated catheter

Patent number: 8764742

Abstract: A fluid delivery catheter configured to allow optimal fluid distribution through each electrode by varying the diameter of a catheter lumen is disclosed. Uniform or different fluid flow

rates through longitudinally spaced apart elution holes may be achieved. Exemplary fluids for use with the catheter include a cooling fluid, a therapeutic fluid, and a medication. ...

Type: Grant ...

Filed: April 4, 2007 ...

Date of Patent: July 1, 2014 ...

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc. ...

Inventors: Carlo Pappone, Alan De La Rama, Peter Chen, Cary Hata ...

20. Ablation catheter with flexible tip

Publication number: 20140025068

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. ...

Type: Application ...

Filed: June 5, 2013 ...

Publication date: January 23, 2014 ...

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata, Jared A. Shimizu ...

21. Irrigated catheter with improved fluid flow

Publication number: 20130310825

Abstract: An irrigated catheter with uniform cooling and/or uniform fluid distribution in longitudinally spaced apart elution holes by varying the diameter of a fluid delivery lumen. A number of elution holes are provided in a tip region of a catheter body, and these elution holes are in fluid communication with the lumen through ducts. The fluid delivery lumen may be provided with a flow constrictor to restrict flow of fluid towards the distal region. ...

Type: Application ...

Filed: July 23, 2013

Publication date: November 21, 2013 ...

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata ...

22. Irrigated catheter with improved fluid flow

Patent number: 8517999

Abstract: An irrigated catheter with uniform cooling and/or uniform fluid distribution in longitudinally spaced apart elution holes by varying the diameter of a fluid delivery lumen. A number of elution holes are provided in a tip region of a catheter body, and these elution holes are in fluid communication with the lumen through ducts. The fluid delivery lumen may be provided with a flow constrictor to restrict flow of fluid towards the distal region.

Type: Grant ...

Filed: April 4, 2007 ...

Date of Patent: August 27, 2013 ...

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc.

Inventors: Carlo Pappone, Alan De La Rama, Peter Chen, Cary Hata ...

23. Ablation catheter with flexible tip

Patent number: 8480669 ...

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The

one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. ...

Type: Grant ...

Filed: May 27, 2012

Date of Patent: July 9, 2013 ...

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc.

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata, Jared A. Shimizu

24. Ablation catheter with flexible tip.

Publication number: 20120239031

Abstract: A flexible tip electrode for an ablation catheter is disclosed. The catheter includes a catheter body and a hollow elongate tip electrode disposed at a distal end of the catheter body. The electrode includes a sidewall provided with one or more elongate gaps extending therethrough. The one or more elongate gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body.

Type: Application

Filed: May 27, 2012

Publication date: September 20, 2012

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata, Jared A. Shimizu

25. Ablation catheter with flexible tip and methods of making the same

Patent number: 8187267

Abstract: A flexible tip electrode for an ablation catheter and methods for making the same are disclosed. The electrode has a surface configuration that improves flexibility of the electrode. Also, the surface configuration may allow electrode lengthwise freedom of movement, such that the electrode may be shortened when pressed against the target tissue. A coil may be located in the electrode to bias the electrode toward a predetermined configuration.

Type: Grant

Filed: September 11, 2007

Date of Patent: May 29, 2012

Assignee: St. Jude Medical, Atrial Fibrillation Division, Inc.

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata, Jared A. Shimizu

26. Magnetically Guided Catheter With Flexible Tip

Publication number: 20110118582

Abstract: A catheter includes a flexible tubing having a proximal end and a distal end. The catheter also includes an electrode assembly attached to the distal end of the flexible tubing and including a first magnet therein. The electrode assembly including an electrically conductive tip electrode and an electrically nonconductive coupler which is connected between the tip electrode and the distal end of the flexible tubing. The electrically conductive tip electrode comprises a hollow elongated tip electrode including a sidewall provided with one or more elongated gaps extending through the sidewall. The one or more elongated gaps providing flexibility in the sidewall for bending movement of the tip electrode relative to a longitudinal axis of the catheter body. The first magnet is responsive to an external magnetic field to selectively position and guide the electrode assembly within a body of a patient.

Type: Application

Filed: July 3, 2008

Publication date: May 19, 2011

Inventors: Alan De la Rama, Carlo Pappone, Peter Cheng Chen, Cary Hata, Jared A. Shimizu

27. Medical device guide

Publication number: 20100222669

Abstract: A medical device guide having an inner member having a proximal end, a distal end, and at least one lumen therein. An outer member surrounds the proximal portion of the inner member such that the distal end of the inner member projects beyond the distal end of the outer member, the portion of the inner member being sufficient flexible to flex with a guide wire extending through the lumen. The outer member is sufficiently stiff that the proximal end of the medical device guide can be engaged by a driven by a medical device advancer.

Type: Application

Filed: August 27, 2009

Publication date: September 2, 2010

Inventors: William Flickinger, Amy Raatikka, Scott Klimek, Nathan Kastelein, Gareth T. Munger, Carlo Pappone, Gabrielle Vicedomini

28. Method of treating cardiac arrhythmias

Patent number: 7769444

Abstract: A method of treating cardiac arrhythmias resulting from errant electrical signals conducted through the cardiac tissue from a source location. The magnitude of the errant signals is reduced by shunting electrical signals from the source location with an electrically conductive element having a sufficiently low impedance.

Type: Grant

Filed: June 29, 2006

Date of Patent: August 3, 2010

Assignee: Stereotaxis, Inc.

Inventor: Carlo Pappone

29. Electrophysiology catheter and system for gentle and firm wall contact

Publication number: 20100168549

Abstract: A method of applying an electrode on the end of a flexible medical device to the surface of a body structure, the method including navigating the distal end of the device to the surface by orienting the distal end and advancing the device until the tip of the device contacts the surface and the portion of the device proximal to the end prolapses. Alternatively the pressure can be monitored with a pressure sensor, and used as an input in a feed back control to maintain contact pressure within a pre-determined range.

Type: Application

Filed: July 29, 2009

Publication date: July 1, 2010 **Inventor:** Carlo Pappone

30. Method and apparatus for delivery and detection of transmural cardiac ablation lesions

Publication number: 20090306643

Abstract: During cardiac wall tissue ablation with an RF catheter, the observation of an 8 to 12 ohm drop in the tissue impedance is indicative of the production of a transmural lesion. Due to a magnetic catheter's ability to stay in the same position throughout the cardiac cycle and the consistency of forces applied throughout the cardiac cycle, the impedance measurement from the distal electrode of the magnetic catheter is uniquely useful in determining the achievement of a transmural lesion. The use of this impedance measurement during ablation with a magnetic catheter can thus be used as an indication of when the ablation has achieved a successful treatment endpoint. An RF generator's impedance measurement along with knowledge of the navigational state of a magnetic catheter can thus be used to control the delivery of energy for the purpose of delivering only as much RF energy as is necessary to achieve a clinically effective lesion and to stop RF energy delivery prior to the onset of an adverse event.

Type: Application

Filed: February 25, 2009

Publication date: December 10, 2009

Inventors: Carlo Pappone, Nathan Kastelein

31. Ablation catheter with flexible tip and methods of making the same

Publication number: 20080294158

Abstract: A flexible tip electrode for an ablation catheter and methods for making the same are disclosed. The electrode has a surface configuration that improves flexibility of the electrode. Also, the surface configuration may allow electrode lengthwise freedom of movement, such that the electrode may be shortened when pressed against the target tissue. A coil may be located in the electrode to bias the electrode toward a predetermined configuration.

Type: Application

Filed: September 11, 2007

Publication date: November 27, 2008

Inventors: Carlo Pappone, Alan de la Rama, Peter Chen, Cary Hata, Jared A. Shimizu

32. Irrigated Catheter with Improved fluid flow

Publication number: 20080249522

Abstract: An irrigated catheter with uniform cooling and/or uniform fluid distribution in longitudinally spaced apart elution holes by varying the diameter of a fluid delivery lumen. A number of elution holes are provided in a tip region of a catheter body, and these elution holes are in fluid communication with the lumen through ducts. The fluid delivery lumen may be provided with a flow constrictor to restrict flow of fluid towards the distal region.

Type: Application

Filed: April 4, 2007

Publication date: October 9, 2008

Inventors: Carlo Pappone, Alan De La Rama, Peter Chen, Cary Hata

33. Multi-Electrode Irrigated Balloon Catheter

Publication number: 20080249463

Abstract: A fluid delivery catheter configured to allow optimal fluid distribution through each electrode by varying the diameter of a catheter lumen is disclosed. Uniform or different fluid flow rates through longitudinally spaced apart elution holes may be achieved. Exemplary fluids for use with the catheter include a cooling fluid, a therapeutic fluid, and a medication.

Type: Application

Filed: April 4, 2007

Publication date: October 9, 2008

Inventors: Carlo Pappone, Alan De La Rama, Peter Chen, Cary Hata

34. Control for a Remote Navigation System

Publication number: 20080132910

Abstract: A method of operating a remote navigation system comprising an orientation system for orienting the distal end of a medical device, and an advancing system for advancing and retracting the medical device. The method includes operating an input device to manipulate a cursor on the screen of a graphical user interface to operate the orientation system to orient the distal end of the medical device in a selected direction; and operating a track wheel on the input device to operate the advancing system to advance or retract the distal end of the medical device in the selected direction. A system for operating a remote navigation system comprising an orientation system for orienting the distal end of a medical device, and an advancing system for advancing and retracting the medical device.

Type: Application

Filed: October 18, 2007

Publication date: June 5, 2008

Inventor: Carlo Pappone

35. Medical Device Guide

Publication number: 20080114335

Abstract: A medical device guide having an inner member having a proximal end, a distal end, and at least one lumen therein. An outer member surrounds the proximal portion of the inner member such that the distal end of the inner member projects beyond the distal end of the outer member, the portion of the inner member being sufficient flexible to flex with a guide wire extending through the lumen. The outer member is sufficiently stiff that the proximal end of the medical device guide can be engaged by a driven by a medical device advancer.

Type: Application

Filed: August 23, 2007

Publication date: May 15, 2008

Inventors: William Flickinger, Amy Raatikka, Scott Klimek, Nathan Kastelein, Gareth T. Munger, Carlo Pappone, Gabrielle Vicedomini

36. System and network for remote medical procedures

Publication number: 20080015427

Abstract: Systems and methods are provided for remotely navigating an elongate medical device in an operating region in a subject's body at a local procedure site, under the control of a user at a remote site. A navigation system having a controller responsive to signals from a local computer is provided. An imaging system displays an image of the operating region on a local display, and a physiology monitoring system displays information about the subject. The system utilizes a local computer for providing instructions from a local user to the navigation system controller, and a remote computer for providing instructions from a remote user to the navigation system controller. A display is provided at the remote site, and a video linking system provides a combined video display at the remote site. The system further includes an audio linking system and a data linking system for providing data communication between the remote and local sites.

Type: Application

Filed: June 30, 2006

Publication date: January 17, 2008

Inventors: Nathan Kastelein, Carlo Pappone, Richard Green

37. Methods and devices for cardiac ablation

Publication number: 20080015670

Abstract: A method of performing cardiac ablation. A first catheter is navigated into the ventricular endocardium. A second catheter is navigated to place one or more electrodes of the second catheter in the heart vasculature substantially opposite one or more electrodes of the first catheter. Ablation current is delivered between the catheters through heart tissue separating the electrodes. **Type:**

Application

Filed: January 16, 2007

Publication date: January 17, 2008

Inventor: Carlo Pappone

38. Electrophysiology catheter and system for gentle and firm wall contact

Publication number: 20070179492

Abstract: A method of applying an electrode on the end of a flexible medical device to the surface of a body structure, the method including navigating the distal end of the device to the surface by orienting the distal end and advancing the device until the tip of the device contacts the surface and the portion of the device proximal to the end prolapses. Alternatively the pressure can be monitored with a pressure sensor, and used as an input in a feed back control to maintain contact pressure within a pre-determined range.

Type: Application

Filed: January 8, 2007
Publication date: August 2, 2007
Inventor: Carlo Pappone

39. Electrophysiology catheter and system for gentle and firm wall contact**Publication number:** 20070161882

Abstract: A method of applying an electrode on the end of a flexible medical device to the surface of a body structure, the method including navigating the distal end of the device to the surface by orienting the distal end and advancing the device until the tip of the device contacts the surface and the portion of the device proximal to the end prolapses. Alternatively the pressure can be monitored with a pressure sensor, and used as an input in a feed back control to maintain contact pressure within a pre-determined range.

Type: Application ...

Filed: August 16, 2006

Publication date: July 12, 2007

Inventor: Carlo Pappone

40. Systems for and methods of tissue ablation

Publication number: 20070062547

Abstract: A method of controlling a remote navigation system that orients the distal end of a medical device in response to user inputs, includes interrupting the operation of the remote navigation system when the user inputs would navigate the medical device to a location where the impedance exceeds a predetermined value. A method of controlling ablation of cardiac tissue to block an errant signal causing an arrhythmia includes ablating tissue until there is a predetermined reduction in the amplitude of the errant signal or a predetermined reduction in local impedance. Controls remote navigation systems can implement these methods.

Type: Application

Filed: June 29, 2006

Publication date: March 22, 2007

Inventor: Carlo Pappone

41. Electrophysiology catheter and system for gentle and firm wall contact

Publication number: 20070062546

Abstract: A method of applying an electrode on the end of a flexible medical device to the surface of a body structure, the method including navigating the distal end of the device to the surface by orienting the distal end and advancing the device until the tip of the device contacts the surface and the portion of the device proximal to the end prolapses. Alternatively the pressure can be monitored with a pressure sensor, and used as an input in a feed back control to maintain contact pressure within a pre-determined range.

Type: Application

Filed: June 2, 2006

Publication date: March 22, 2007

Inventors: Raju Viswanathan, Carlo Pappone

42. Methods and devices for mapping the ventricle for pacing lead placement and therapy delivery**Publication number:** 20070060992

Abstract: A method of placing a pacing lead in the heart includes moving an electrode catheter successively to a plurality of possible placement sites. The viability of the tissue at each site is determined. If the tissue at the site is viable, a pacing signal is applied to the tissue at the site, and the effectiveness of the pacing from the site is measured. After the area has been mapped in this fashion, at least one pacing lead is placed from at least one of the sites which exceeded a

predetermined level of pacing effectiveness.

Type: Application

Filed: June 2, 2006

Publication date: March 15, 2007

Inventor: Carlo Pappone

43. Method of treating cardiac arrhythmias

Publication number: 20070060966

Abstract: A method of treating cardiac arrhythmias resulting from errant electrical signals conducted through the cardiac tissue from a source location. The magnitude of the errant signals is reduced by shunting electrical signals from the source location with an electrically conductive element having a sufficiently low impedance.

Type: Application

Filed: June 29, 2006

Publication date: March 15, 2007

Inventor: Carlo Pappone

ClinicalTrials.Gov Studies by Pappone

Study 1:

Title: Arrhythmogenic Substrate in Primary Cardiomyopathies
Status: Recruiting
Study Results: No Results Available
Conditions: Primary Cardiomyopathy
Interventions: Other: ablation
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT03304847>

Study 2:

Title: Epicardial Ablation in Brugada Syndrome to Prevent Sudden Death
Status: Recruiting
Study Results: No Results Available
Conditions: Ventricular Arrhythmias and Cardiac Arrest
Interventions: Other: ablation plus ICD
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT03294278>

Study 3:

Title: Epicardial Ablation in Brugada Syndrome. An Extension Study of 500 BrS.Patients
Status: Recruiting
Study Results: No Results Available
Conditions: ECG Brugada Pattern
Interventions: Procedure: Ablation
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT03106701>

Study 4:

Title: Right Ventricle Morphology and Hemodynamics in BrS
Status: Recruiting
Study Results: No Results Available
Conditions: Brugada Syndrome
Interventions: Drug: Ajmaline 17-(Chloroacetate) Monohydrochloride
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT03524079>

Study 5:

Title: Simultaneous or Sequential Multipoint Pacing
Status: Recruiting
Study Results: No Results Available
Conditions: Cardiac Resynchronization Therapy
Interventions: Device: CRT
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT03301363>

Study 6:

Title: Epicardial Ablation in Brugada Syndrome
Status: Completed
Study Results: No Results Available
Conditions: Brugada Syndrome
Interventions: Procedure: mapping/ablation|Drug: Ajmaline|Procedure: ablation|Procedure: mapping
Locations: IRCCS Policlinico S. Donato, San Donato Milanese, Milano, Italy
URL: <https://ClinicalTrials.gov/show/NCT02641431>

Study 7:

Title: Characterization and Elimination of Mother Rotors
Status: Withdrawn
Study Results: No Results Available
Conditions: Atrial Fibrillation
Interventions: Procedure: standard circumferential pulmonary vein isolation by radiofrequency ablation
catheter|Procedure: CPVI + rotors' identification and ablation
Locations: Maria Cecilia Hospital, Cotignola, Ravenna, Italy
URL: <https://ClinicalTrials.gov/show/NCT01924377>

Study 8:

Title: Characterization of Cardiac Hemodynamics During MultiSite Pacing
Status: Completed
Study Results: No Results Available
Conditions: Heart Failure
Interventions:
Locations: Maria Cecilia Hospital, Cotignola, Italy
URL: <https://ClinicalTrials.gov/show/NCT01564186>

Study 9:

Title: Efficacy of Transcatheter Radiofrequency Ablation of Atrial Flutter With Standard Irrigated Catheter With Flexible Tip
Status: Completed
Study Results: No Results Available
Conditions: Atrial Flutter
Interventions: Procedure: Radiofrequency Ablation
Locations: Maria Cecilia Hospital, Cotignola, RA, Italy|Maria Pia Hospital, Torino, TO, Italy
URL: <https://ClinicalTrials.gov/show/NCT01262443>

Study 10:

Title: EnSite™ HD Grid Catheter AF/AT Mapping Study
Status: Completed
Study Results: No Results Available
Conditions: Non-paroxysmal Atrial Fibrillation|Left Atrial Tachycardia
Interventions: Device: EnSite™ HD Grid Catheter mapping system
Locations: Royal Adelaide Hospital, Adelaide, Australia|Ashford Hospital, Ashford, Australia|Royal Melbourne Hospital, Parkville, Australia|Hôpital du Haut Lévéque, Pessac, France|Herzzentrum Dresden GmbH Universitätsklinik, Dresden, Germany|Queen Mary Hospital, Hong Kong, Hong Kong|San Donato Hospital, Milan, Italy
URL: <https://ClinicalTrials.gov/show/NCT02656537>

Study 11:

Title: AF Substrate Mapping and Guided Ablation
Status: Completed
Study Results: No Results Available
Conditions: Persistent Atrial Fibrillation
Interventions: Device: Substrate+mCPVA|Device: mCPVA
Locations: I.R.C.C.S. Policlinico San Donato, San Donato Milanese, MI, Italy
URL: <https://ClinicalTrials.gov/show/NCT02571218>

Study 12:

Title: MPP Programming Study
Status: Completed
Study Results: No Results Available
Conditions: Heart Failure
Interventions: Procedure: Hemodynamic measurements for CRT device programming|Device: CRT device implant with MultiPoint Pacing
Locations: Maria Cecilia Hospital, GVM Care & Research, Cotignola, RA, Italy
URL: <https://ClinicalTrials.gov/show/NCT01856725>

Study 13:

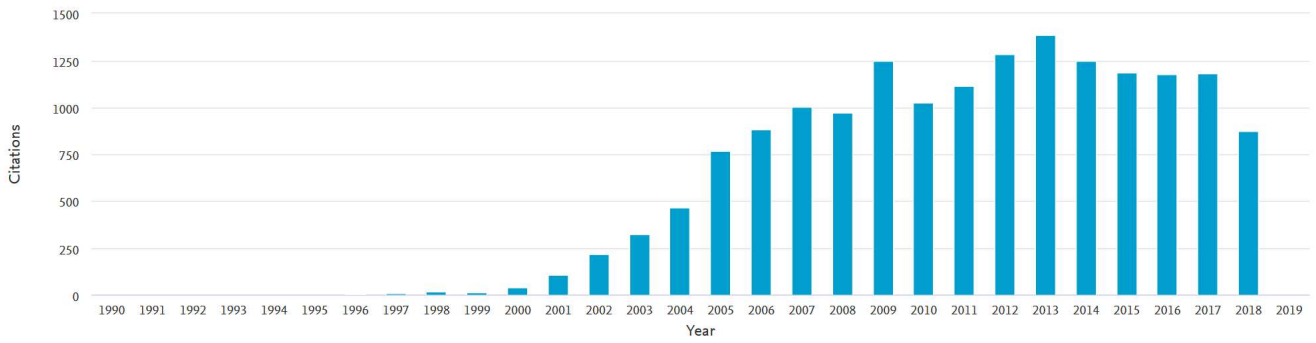
Title: HEAL-HF: A Cardiac Resynchronization Therapy (CRT) Outcomes Study
Status: Terminated
Study Results: No Results Available
Conditions: Heart Failure, Congestive
Interventions: Procedure: Acute hemodynamic assessment using PV Loops (CD Leycom, The Netherlands) during LV lead placement
Locations: Northeast Georgia Heart Center, PC, Gainesville, Georgia, United States|Medical University of South Carolina, Charleston, South Carolina, United States|Medical College of Virginia - Virginia Commonwealth University, Richmond, Virginia, United States|University of Ottawa Heart Institute, Ottawa, Ontario, Canada|San Raffaele University Hospital, Milan, Italy
URL: <https://ClinicalTrials.gov/show/NCT00370526>

Study 14:

Title: A Trial of Circumferential Pulmonary Vein Ablation (CPVA) Versus Antiarrhythmic Drug Therapy in for Paroxysmal Atrial Fibrillation (AF)
Status: Completed
Study Results: No Results Available
Conditions: Atrial Fibrillation
Interventions: Procedure: Circumferential Pulmonary Vein Ablation|Drug: Antiarrhythmic Drug Therapy
Locations: San Raffaele University Hospital, Milan, Italy
URL: <https://ClinicalTrials.gov/show/NCT00340314>

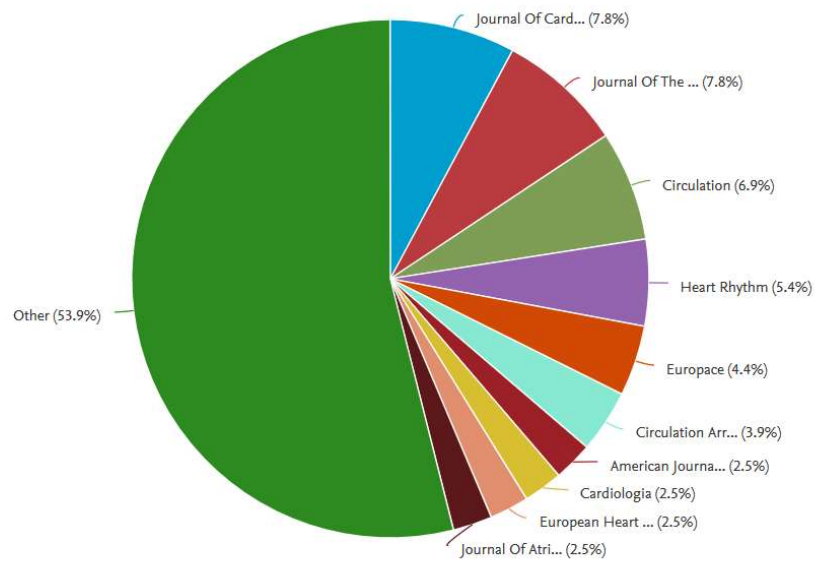
Citations by year

16,549



Documents by source

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San Donato Milanese, 15 Dicembre 2018

Prof. Carlo Pappone