

INDRANILL BASU RAY, MD(Med), DNB (Card), D.Sc. (Honoris Causa), FACP, FACC.

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EMPLOYMENT

- Staff Cardiologist and Interventional Cardiac Electrophysiologist
- Director of Cardiovascular Research & Chairman: Interdepartmental Committee for Cardio-Pulmonary Resuscitation Memphis VA Medical Center 1030 Jefferson Ave, Memphis, TN, USA, 38104
- Chairman & Founder: The American Academy of Yoga and Meditation Memphis, TN, USA
- Adjunct Professor: School of Public Health, The University of Memphis, Memphis, TN, USA
- Adjunct Professor of Cardiology & Head of Integrative Cardiology: All India Institute of Medical Sciences Virbhadra Marg, Rishikesh, Uttarakhand- 249203

PROFILE

- **Former Instructor in Medicine (Cardiology):**Harvard Medical School
330 Brookline Ave, Boston, MA 2005-2007 In-Charge: Center for Invasive Cardiac Electrophysiology Research,Beth Israel Deaconess Medical Center, Harvard Medical School,
Boston, MA
- **Former Assistant Professor of Medicine:**Tulane University
Tulane Heart & Vascular Center 1415 Tulane Ave, New Orleans, LA 70112
2011-2013
- **Editor-in-Chief:**The Principles and Practice of Yoga in Cardiovascular Diseases(World's First Academic Book on Yoga and Cardiovascular Disease)

ASSOCIATE EDITOR

- BioMed Central Cardiovascular Journal, (Impact Factor: 2.298) Nature Publication.
- Frontiers in Cardiology, (Impact Factor: 6.5), Frontiers Media SA
- Avenue Du Tribunal Federal 34, 1005 Lausanne, Switzerland.
- Frontiers in Cell and Developmental Biology, (Impact Factor: 6.684).

EDUCATION & MEDICAL TRAINING

- **Fellowship in Cardiac Electrophysiology & Device Therapy:** Texas Heart Institute, Baylor College of Medicine, 6770 Bertner Avenue, Houston, Texas 77030.
- **Fellowship in Cardiovascular Diseases:** Tulane Heart and Vascular Institute, Tulane University, New Orleans, LA.
- **Residency in Internal Medicine:** State University of New York at Buffalo, Buffalo, NY.
- **EP Research Fellowship:** Heart Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA.
- **EP Clinical Fellowship:** St. Michael's Hospital, University of Toronto, Toronto, Canada.
- **Cardiology Fellowship (India):** Vijaya Heart Foundation, Madras Medical College, Chennai, Tamil Nadu, India. — Leading to Diplomate of the National Board in Cardiology.
- **Doctor of Medicine, Internal Medicine, MD:** Motilal Nehru Medical College and SRN Group of Hospitals, University of Allahabad, Allahabad, Uttar Pradesh, India.
- **Bachelor of Medicine and Bachelor of Surgery:** MBBS, Nilratan Sarkar Medical College and Hospital University of Calcutta, Calcutta, West Bengal, India.

ACADEMIC APPOINTMENTS

- **Professor of Cardiology:** All India Institute of Medical Sciences, Virbhadra Marg, Rishikesh, Uttarakhand-249203, India 2018.
- **Professor of Public Health:** University of Memphis, Memphis, TN.
- **Assistant Professor of Medicine:** Tulane University Medical Center, System Head of Research in In-patient Internal Medicine: Ochsner Medical Center, John Ochsner Cardiovascular Institute. 4/2010-6/2013
- **Senior Lecturer of Medicine/Cardiology:** University of Queensland/Ochsner School. 5/2011-present
- **Instructor in Medicine (Cardiology):** Harvard Medical School, Harvard University, and Beth Israel Deaconess Medical Center. 7/2005-6/2007
- **Research Associate:** Harvard Medical School, Harvard University, 7/2003-6/2005
- **Assistant Professor, Department of Medicine:** MGL Medical College and Hospital, Kishanganj, India. 1/1998-6/1999
- **Instructor, Department of Medicine:** N.R.S. Medical College and Hospital, Calcutta, India. 6/1997-1/1998
- **House Officer:** NRS Medical College in Medicine and Neurology. 12/1992-4/1994.

AWARDS & HONORS

- **Best Young Investigator award** in KC Heart Rhythm Society 2016, for research on modification of CHADS2VASC for non-atrial fibrillation stroke.
- **Nominated as one of the top 10 “Best Teachers”** at Ochsner Clinic Foundation among 900 employed academic physicians in over 80 specialties — Teaching medical students, residents, and fellows from the

University of Queensland, Ochsner Clinical School, Tulane University, and Louisiana State University, (medical campus).

- **Prosector** in anatomy, physiology, biochemistry, forensic medicine, and ophthalmology; an honor given by subject to exemplary students who are considered capable of teaching their peers. The prosector is selected by competition among students who have received grades over 60% in the pre-final exams. Dr. Basu Ray also holds “honors marks” (grades higher than 75% in multiple subjects in the graduation-level exams).
- **Ranked first in University** — First MBBS (Medical Graduation) examination. North Bengal Medical College.
- **Ranked first in University** — MD. (Doctor of Medicine) examination. 1997. Motilal Nehru Hospital and Swaroop Rani Nehru Hospital, Allahabad, UP, India.
- Multiple trophies on Quiz, Debates, and Visual Arts including oil painting at National Levels.
- Professional Society Fellowships and Memberships
- American College of Physicians-Fellow.
- American College of Cardiology-Fellow.
- Cardiological Society of India- Life Member. Association of Physicians of India.

EDITORIAL BOARDS

- **Heart Rhythm Case Reports:** Editorial Board 2019-present.
- **Associate Editor:** BioMed Central Cardiovascular Medicine- A Springer Nature Publication.
- **Associate Editor:** Frontiers in Medicine, Frontiers in Public Health.
- **International Journal of Yoga:** Editorial Board.

- **Indian Journal of Pacing and Electrophysiology:** Editorial Board. 2003-2010.

RESEARCH INTERESTS

- **Ventricular Tachycardia:** Determination of the parameters that define VT initiation and maintenance after successful revascularization, including patient profile, cardiac risk, myocardium in jeopardy, comparison of MRI/CT/Echo/NST based viable myocardium. VT in patients with LVAD. This includes comparison of different endocardial mapping systems for VT.
- **Left Atrial Appendage Morphology and Atrial Fibrillation:** Atrial fibrillation remains the most common arrhythmia in practice and stroke is one of the main killers and causes of morbidity worldwide. This current research garners the newly acquired knowledge of LAA morphology to determine the factors that induce thrombus formation in patients with and without atrial fibrillation.
- **Yoga as Mind-Body Medicine:** Includes research involving brain imaging, hormonal changes, immunological parameters in various states of consciousness, and heart disease. Coronary artery disease is the most common killer in the Western Hemisphere. Factors studied include emotions, lifestyle and diet in precipitating and sustaining heart diseases. Dr. Basu-Ray studies the role of meditation, yoga and mindfulness on the mind-heart axis to prevent and treat cardiovascular pathology initiated in a stressed organism. The research studies the heart-brain connection using artificial intelligence and other invasive and non-invasive mechanisms.

PRESENT PROJECTS

- Use of AI to delineate inflammatory markers in Atrial fibrillation and their amelioration with a yoga and meditation protocol-a double-blinded study.
- Role of Yoga in clinical wellbeing, inflammatory markers in heart failure patients after ICD implantation.
- VT ablation using multimodality imaging. Delineation of the anatomical pathway for VT ablation using combined modalities.
- Left atrial appendage morphology and the relation with cryogenic stroke.

- Diastolic Dysfunction as an independent risk factor for stroke in patients without atrial fibrillation.
- The role of meditation in patients undergoing cardiac rehab after Acute Coronary Episodes.

RESEARCH FACULTY POSITIONS

- Director: Cardiovascular Research, Department of Cardiology, Memphis VA Medical Center.
- Overseas cardiovascular research in the Department of Cardiology. Duties included oversight of the entire research program of the cardiology fellowship program. This involved mentorship of cardiology fellows through their compulsory three-month research elective, as well as mentorship for the evidence-based medicine program. This included moderating the research meeting, as well as mentoring fellows interested in evidence-based medicine and the research rotation as part of Cardiovascular Medicine fellowship. This position also included the mentorship and management of the institution's grand rounds for research and the invitation of speakers of repute.
- Former Instructor in Medicine, Division of Cardiology: Director of the Experimental Cardiac Lab, Harvard Medical School.
- The direction of the cardiovascular electrophysiology research lab involved research that spanned the use of animal models to delineate hibernating myocardium from dead myocardium and the clinical effects of revascularization. Different imaging modalities were used in sync, including MRI, voltage mapping, CT & nuclear imaging to detect living myocardium in chronic total occlusion. This research also investigated the effects of revascularization on the myocardium with different amounts of scar tissue and hibernation.
- This involved the creation of a new sheep model of hibernating myocardium that is particularly useful for such studies, unlike the existing pig model. Additionally, the validation
- The use of fractional QRS to determine myocardial viability for CTO was investigated. Both heart failure and ischemia models were created to determine the etiology of VT and see if they were amenable to revascularization or drug therapy.

ADMINISTRATIVE EXPERIENCE

- **Chairman: Cardio-Pulmonary Resuscitation Committee:** Memphis VA Medical Center. Memphis, TN, USA. 2020- Head this group of representatives of all the departments and clinical and non-clinical entities involved in reviewing and reporting all cardiopulmonary resuscitation. Based on Veteran Health Administration guidelines creates rules, regulation, and protocols to be followed by the Memphis VA Hospital.
- Reports directly to the Medical Executive Board led by the Chief Medical Officer and all Service Chiefs.

CLINICAL EXPERIENCE

- Interventional Cardiac Electrophysiologist at Memphis VA Medical Center.
- At a tertiary academic medical facility Memphis VA Medical Center. Sees patients referred from five states including Missouri, Arkansas, Louisiana, Kentucky, and Mississippi region. Performing Device Therapy, Complex ablations including AFib and VT. Started the A Fib and other complex ablation programs at the center to enable veterans to get access to the latest treatment modalities in the field of cardiac electrophysiology.
- Duties included cardiovascular and EP patient care, including implantation of Pacemakers, ICD and CRT devices, left ventricular assist device implantation, ablation of arrhythmias, and other interventional procedures. This includes implanting newer state-of-the-art devices, including intra-cardiac pacemakers, subcutaneous ICDs, and Cardiac Contractility Modulation Devices. Teaching of Cardiology and EP subspecialty fellows.

PUBLICATIONS & BOOKS

The Principle and Practice of Yoga in Cardiovascular Medicine, Springer Nature:Editor-in-Chief: Dr. Indranill Basu-Ray.

- This is the world's first reference book covering the role of Yoga in Cardiovascular Diseases. It details epidemiology, physiology, pathology, prevention, and management of cardiovascular diseases based on the current scientific understanding of Yoga. Seventy- five experts from four continents, including the

- most notable names, contributed to this work to create the world's first comprehensive reference literature on Yoga in cardiovascular medicine.
- The chapters cover information related to Yoga, both as prevention and therapy, including coronary artery disease, heart failure, and arrhythmias. In addition, important cardiovascular topics like obesity and diabetes mellitus are also included.
- A special chapter covers the role of Yoga in the prevention of cardiovascular complications in COVID-19 patients.

Clinical Cardiology 2nd Edition Paras Publisher, 2003, 2016. Editor: Dr. Indranill Basu-Ray.

- Written by over forty cardiovascular physicians from all over the world discussing all important cardiovascular topics on a case-by-case basis.
- It is an extremely popular manual for house staff, residents, primary care physicians, internal medicine physicians and cardiologists.

Yoga in Cardiovascular Disease and Cardiac Rehabilitation, Elsevier (in preparation).

- A Book to be published by the world's top publisher will have over 50 eminent physician scientists worldwide contributing to create the first medical book on the use of Yoga in Medicine. All the chapters will be co-authored, and the Editor will be Dr. Basu-Ray.

Fundamentals of Cardiac Electrophysiology; Elsevier (in preparation).

- The multi-authored text is to be edited by Dr. Indranill Basu-Ray.

PEER-REVIEWED JOURNAL ARTICLES / ABSTRACTS:

- Echefu, Gift & Stowe, Ifeoluwa & Lukan, Abdulkareem & Sharma, Gaurav & Basu Ray I* & Guidry, London & Schellack, Jon & Kumbala, Damodar. (2023). Central vein stenosis in hemodialysis vascular

access: clinical manifestations and contemporary management strategies. *Frontiers in Nephrology*. 3. 10.3389/fneph.2023.1280666.

- Echefu, Gift & Stowe, Ifeoluwa & Burka, Semenawit & Basu Ray I* & Kumbala, Damodar. (2023). Pathophysiological concepts and screening of cardiovascular disease in dialysis patients. *Frontiers in Nephrology*. 3. 10.3389/fneph.2023.1198560.
- Basu Ray I*, Indranill. (2023). Mann Ki Baat -Spl. Issue Yoga for Health and Wellness: Evidence-Based and Inexpensive Therapeutic Adjunct from Bharat. *Journal of Research in Ayurvedic Sciences*. 7. 10.4103/jras.jras_88_23.
- Basu Ray I*,Soni, Shishir & Duggal, Bhanu & Upadhyay, Jaya & Kumar, Niraj & Bhadoria, Ajeet. (2023). “Does left atrial appendage morphology and dimension differ amongst etiological stroke subtypes in patients without known Atrial Fibrillation? Results from the Left Atrial Appendage morphology and dimension assessment by TEE in patients with stroke without known Atrial Fibrillation (LAMDA-STROKE) Study.”. *Indian Heart Journal*. 75. 10.1016/j.ihj.2023.03.001.
- Khanra D, Manivannan S, Mukherjee A, Deshpande S, Gupta A, Rashid W, Abdalla A, Patel P, Padmanabhan D and Basu Ray I* ; Incidence and Predictors of Implantable Cardioverter-defibrillator Therapies After Generator Replacement—A Pooled Analysis of 31,640 Patients’ Data, *J Innov Cardiac Rhythm Manage*. 2022;13(12):5278–5293. DOI: 10.19102/icrm.2022.13121
- Basu Ray I*, Metri K, Khanra D, Revankar R, Chinnaiyan KM, Raghuram N, Mishra MC, Patwardhan B, Sharma M, Basavaraddi IV, Anand A, Reddy S, Deepak KK, Levy M, Theus S, Levine GN, Cramer H, Fricchione GL, Hongasandra NR. A narrative review on yoga: a potential intervention for augmenting immunomodulation and mental health in COVID-19. *BMC Complement Med Ther*. 2022 Jul 18;22(1):191. doi: 10.1186/s12906-022-03666-2. PMID: 35850685; PMCID: PMC9289356.Sharma K
- Basu Ray I*, Sayal N, Vora A, Bammidi S, Tyagi R, Modgil S, Bali P, Kaur P, Goyal AK, Pal DK, Arvind H, Jindal K, Garg V, Matyal B, Thakur N, Chhikara A, Kaur N, Maanju P, Bhatia KS, Pannu V, Gupta V, Malik N, Malik R, Kumar R, Kaur R, Bhatt V, Bhalla A, Mohanty M, Singh G, Sharma SK, Sivapuram MS, Mathur D, Khanra D, Anand A. Yoga as a Preventive Intervention for Cardiovascular Diseases and Associated Comorbidities: Open- Label Single Arm Study. *Front Public Health*. 2022 Jun 13; 10:843134.

doi: 10.3389/fpubh.2022.843134. PMID: 35769774; PMCID: PMC9234218. Dutta A, Aruchunan M, Mukherjee A, Metri KG, Ghosh K,

- Basu Ray I* A Comprehensive Review of Yoga Research in 2020. *J Integr Complement Med.* 2022 Feb;28(2):114-123. doi: 10.1089/jicm.2021.0420. Epub 2022 Jan 28. PMID: 35099279. Khanra D, Hamid A, Deshpande S, Mukherjee A, Petkar S, Saeed M.
- Basu Ray I*. Meta- analysis comparing outcomes of high-power short-duration and low-power long-duration radiofrequency ablation for atrial fibrillation. *Anatol J Cardiol.* 2022 Jan;26(1):2-14. doi: 10.5152/AnatolJCardiol.2021.243. PMID: 35191380; PMCID: PMC8878944.
- Basu Ray I*. A Mechanistic Model for Yoga as a Preventive and Therapeutic Modality. *Int J Yoga.* 2021 May-Aug;14(2):152-157. doi: 10.4103/ijoy.IJOY_136_20. Epub 2021 May 10. PMID: 34188388; PMCID: PMC8191226. Co ML, Khouzam JP, Pour-Ghaz I, Minhas S.
- Basu Ray I*. Emerging Technologies in Cardiac Pacing From Leadless Pacers to Stem Cells *Curr Probl Cardiol.* 2021 May;46(5):100797. doi 10.1016/j.cpcardiol.2021.100797. Epub 2021 Jan 27 . PMID: 33561694.
- Basu Ray I* ,Khanra D, Shah SK, Mukherjee A, Char SV, Jain B, Bunch TJ, Gold M, Adeboye AA, and Saeed M. Meta-analysis comparing outcomes of catheter ablation for ventricular arrhythmia in ischemic versus nonischemic cardiomyopathy . *PACE Pacing Clin Electrophysiol.* Jan 2021 <https://doi.org/10.1111/pace.14129>
- Basu Ray I* ,Khanra D, Kupó P, Bunch J, Theus SA, Mukherjee A, Shah SK, Komócsi A, Adeboye, Jefferies J. Basu-Ray I Outcomes of uninterrupted vs interrupted Periprocedural direct oral Anticoagulants in atrial fibrillation ablation: A meta-analysis. *J Arrhythm. e Collection* Apr 2021.29 Jan 2021
- Basu Ray I* ,Khanra D, Shah S, Char S, Jia X, Lam W, Mathuria N, Razavi M, Jain B, LakkireddyD, Kar S, Natale A, Adeboye A, Jefferies JL, Bangalore S, Asirvatham S, Saeed M. Basu Ray I, Meta-Analysis Comparing Watchman and Amplatzer Devices for Stroke Prevention in Atrial Fibrillation. *Front Cardiovasc Med.* 22 Jun 2020.

- Basu Ray I* , Khanra D, Kupó, P, et al. Outcomes of uninterrupted vs interrupted Periprocedural direct oral Anticoagulants in atrial fibrillation ablation: A meta- analysis. J, arrhythmia. 2021; 00: 1– 10.
- Basu Ray I* Khanra D, Shah SK, Mukherjee A, Char SV, Jain B, Bunch TJ, Gold M, Adeboye AA, Saeed M. Meta-analysis comparing outcomes of catheter ablation for ventricular arrhythmia in ischemic versus nonischemic cardiomyopathy. Pacing Clin Electrophysiol.2021 Jan;44(1):54-62
- Basu Ray I* ,Metri K, Khanra D, Chinnaiyan KM, Nagarathna R, Misra MC, et al. Yoga: a potential intervention for augmenting immunomodulator and mental health in COVID-19. Front Med. (2020): for submission for peer review.
- Basu Ray I* Khanra D, Shah SK, Jia X, Lui J, Lam W, Mathuria N, Razavi M, Jain B, Cheng J, Lakkireddy D, Kar S, Natale A, Bangalore S, Asirvatham S, Saeed M, Rasekh A. Meta-Analysis Comparing Watchman and Amplatzer Devices for Stroke Prevention in Atrial Fibrillation. Frontiers in Cardiovascular Medicine; 22 June 2020.
- Basu Ray I* ,Soos MP. Cardiac Manifestations Of Coronavirus (COVID-19) [Updated 2020 Apr 12]. In: Stat Pearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-Available from: <https://www.ncbi.nlm.nih.gov/books/NBK556152/>
- Basu Ray I* .Uninterrupted Vs. Interrupted Novel Oral Anticoagulant (NOAC) Dosing Strategy Before Catheter Ablation Of Atrial Fibrillation: A Meta Analysis Of Randomized Controlled Trials For Periprocedural Complications. American College of Cardiology’s 69th Annual Scientific Session. March 28-30th, 2020. Chicago, USA. Liu J, Shah SK.
- Basu Ray I* ,Garcia-Diaz J, Khalid K, Saeed M. QT Prolongation in HIV Positive Patients: Review Article. Indian Heart Journal. Elsevier Publication; January 2020. (Journal of Cardiological Society of India).
- Basu Ray I* ,Khanra D, Duggal B, Komócsi A, Kupó P, Natrajana SP, Kabra R, Bunch TJ, Saeed M. Comparison Of Uninterrupted To Interrupted NOAC Strategy Before Catheter Ablation Of Atrial Fibrillation: A Meta-analysis of Randomized Control Trials. HRS. 2018; 19-A-13735-HRS.

- Basu Ray I* Sudhakar D, Schwing G, Monzelun D, Zhang L, Shah SK, Pujara D, Ting K, RafinhA, Ali G, Cassidy M, Ellenbogen A, Levine G, Lam W and Mathuria N. Complex Left Atrial Appendage Morphology is an Independent Risk Factor for Cryptogenic Ischemic Stroke. *Frontiers in Cardiovascular Medicine* (A Nature Publication); Vol 5;2018; Pg 131
- Basu Ray I* and Shah SK. Formulating a More Comprehensive Stroke-Risk Evaluation Scale. *Texas Heart Institute Journal*. 2018; 45(3)
- Basu Ray I*, Mehta DH and Shah SK. Initial Treatment of Hypertension (Letter to the Editor). *New England Journal of Medicine*. 2018; 378(20):1952-3.
- Basu Ray I*; Schwing G; Novak J; Monlezun D; Boja H; Deere B; Duque J; Park M; Lawrence J; Middour T; Morris S; Boulad A; Carry B; Rafeh NA; Ali G; Anwar A; LeJemtel; Martin- Schild S, Cassidy M. Complex Left Atrial Appendage Morphology Increases Risk of Cryptogenic Ischemic Stroke. *Circulation*. 2018; 134:A18983.
- Basu Ray I*. Complex Left Appendage Morphology Is An Independent Risk Factor For Cryptogenic Stroke. *JACC: Cardiovascular Interventions*. 2017; 10(3) Supplement.
- Basu Ray I* Liu, J; Jia, X; Gold, MR; DiNicolantonio, J; Afshar, H; Giorgberidze, I; Lam, W; Mathuria, N; Komocsi, K; Vorobcsuk A; Cheng, J; Razavi, M; Rasekh, A; Saeed, M. Subcutaneous versus Transvenous Implantable Defibrillator Therapy: A Meta-Analysis of Case- Control Studies. *Journal of American College of Cardiology, Clinical Cardiac Electrophysiology*; VOL.3, NO.13, 2017, December 26 '2017: 1475 - 83.
- Meditation and Cardiovascular Risk Reduction: A Scientific Statement From the American Heart Association; Glenn N. Levine, MD, FAHA, Chair; Richard A. Lange, MD, MBA, FAHA, Vice-Chair; C. Noel Bairey-Merz, MD, FAHA; Richard J. Davidson, Ph.D.; Kenneth Jamerson, MD, FAHA; Puja K. Mehta, MD, FAHA; Erin D. Michos, MD, MHS, F AHA; Keith Norris, MD; Indranil Basu Ray MD *; Karen L. Saban, Ph.D., RN, APRN, CNRN, FAHA; Tina Shah, MD; Richard Stein, MD; Sidney C. Smith, Jr, MD, FAHA; on behalf of the American Heart Association Council on Clinical Cardiology; Council on Cardiovascular and Stroke Nursing; and Council on Hypertension, *Journal of American Heart Association*; 2017;6:e002218; Originally published September 28, 2017

- Basu Ray I*, Schwing, G., Monlezun, D., Cassidy, M, et al., Complex Left Appendage Morphology Is An Independent Risk Factor For Cryptogenic Stroke, JACC: Cardiovascular Interventions, 2017-02-13, Volume 10, Issue 3, Pages S75-S76.
- Basu Ray I*, Schwing, G., Novak, J., Monlezun, D., Saeed, M., Complex Left Atrial AppendageMorphology not atrial fibrillation predicts Cryptogenic Stroke. Accepted for Publication in Journal Of Cardiac Electrophysiology 2017.
- Basu Ray I*, Pujara, D, Greet, B, Morgan, J, Simpson, L, Rojas-Delgado, F, Cheng, MD, and Mathuria, N; Successful Catheter Ablation of Ventricular Tachycardia in Patients with StructuralHeart Disease who Undergo Subsequent LV AD Implantation Improves post- LVAD Survival. Heart Rhythm; Volume 14, Issue 5, Supplement 2017-4- 30, Pages A1- S668.Pujara, D., Greet, B.,
- Basu Ray I*, Burkland, D., Pollet, M., Sudhakar, D., Rojas, F., Costello, B.,Postalian, A., Hale, Z., Jenny, B., Lai, C., Igbalode, K., Wadehra, D., Katikitala, K., Ono, M., Morgan, J., Simpson, L., Civitello, A., Cheng, J. and Mathuria, N. Ventricular Tachycardia early after implantation of a Ventricular Assist Device is associated with short and long term mortality:A fifteen Year institutional experience. Heart Rhythm; Volume 14, Issue 5, Supplement 2017-4- 30, Pages A1-S668 Pujara D., Greet, B.,
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PEER-REVIEWED BOOK CHAPTERS

- Basu Ray, I., Sam III, A. Symptomatic Carotid Disease. Editors: James S. McKinney, MD. & Sheryl Martin-Schild, MD., PhD., Rutgers, New Jersey.
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- Basu Ray, I. Atrial fibrillation in clinical practice, from bedside to invasive laboratory. In: Venkatraman, A., ed. Medicine Update, 2004. New Delhi, India: Association of Physicians of India, 2004:22-26.
- Basu Ray, I. Newer therapeutic modalities in cardiac electrophysiology. In: Kar, AK., ed. Cardiology Update, 2005. Mumbai, India: The Asia Pacific Congress of Cardiology, 2005:200- 205.
- Basu Ray, I. Ventricular tachycardia in clinical practice. In: Gupta, S.B., ed. Medicine Update 2005. Hyderabad, India: Association of Physicians of India, 2005:72-77.

PEER-REVIEWED ORAL PRESENTATIONS

- Basu Ray, I., Reddy, V.Y., Malchano, Z.Y., Abbarra, S., Wallace, D., Grossman, J., Houghtaling, C., McPherson, C.D., Ruskin, J.N. Use of a Remote Magnetically Guided Catheter for Ventricular Electroanatomical Substrate Mapping and Ablation in a Porcine Model of Healed Myocardial Infarction. North American Society for Pacing and Electrophysiology, San Francisco, CA, May 2004. Reddy, Y.V., Shiraj, K.M.

- BasuRay,I: NegativeStress TMT,and Acute Coronary Syndromes:Three YearAnalysis: A Need For Caution! Cardiological Society of India, New Delhi, India, Dec2001
- Invited Scientific Talks at Universities/Meetings and Symposia
- Basu Ray I: Consciousness in the eyes of a Yogi and a Physician-Scientist; Bringing Modern concepts with Ancient Thoughts. Yogastha E-Conference, IIT-Bombay.

RESEARCH IN YOGA

- Mind, Consciousness & Identity. Indian Institute of Technology- Bombay Institute for promoting wellness and yoga. Mumbai, India. 7th August 2021.
- Basu Ray I: New Concepts to prove the efficacy of Yoga as RCT's don't work. Plenary Lecture: National Institute of Mental Health and Neurosciences (NIMHANS). NIMHANS, Bengaluru, Karnataka, India.
- Basu Ray I: AAYM-A Mind Body Non-Profit-Vision and Initiative @ 2nd International Conference on Mind-Body Medicine in Endocrinology and Diabetes. SYNAPSE 2021; Hotel Hyatt Regency, Pune. February 2nd, 2020.
- Basu Ray I: Mind-Body Medicine in Non-Communicable Diseases-Redefining Clinical Research
- 1st International Conference on Mind-Body Medicine in Endocrinology and Diabetes. SYNAPSE 2020; Hotel Hyatt Regency, Pune. February 2nd, 2020.
- Basu Ray I: Mind-Body Medicine in Non-Communicable Diseases-Redefining Clinical Research
- 1st International Conference on Mind-Body Medicine in Endocrinology and Diabetes. SYNAPSE 2020; Hotel Hyatt Regency, Pune. February 2nd, 2020.
- Basu Ray I: Yoga Research for Non-Communicable Diseases-Why it Needs a Paradigm change- from RCTs to N-of-1 Trials @ Plenary session lecture at INCOFVRA 23rd with the theme Yoga as Lifestyle Medicine, SVYASA, Prasanti Kutiram, Bengaluru 560105.January 6th, 2020.

- Basu Ray I: New Research Module for Yoga Research rather than traditional Randomized ClinicalTrials-Time for a Paradigm Shift. 107th Indian Science Congress, University of Agricultural Sciences, GKVK Campus, Bangalore, January 5th, 2020.
- Basu Ray I: Yoga- A Mechanistic Model on the Effects in Cardiovascular Diseases. Delivered as a Invited Faculty & Plenary Speaker: International Yoga Conference-“Yoga for Heart Care” at Karnataka State Open University, Mysore Mangalore Road, Mysore, Karnataka-570006. November 15th, 2019.
- Basu Ray I: The Application of Yoga in Clinical Medicine-SVYASA, Bangalore, India. June 3rd,2018
- Basu Ray I: Plenary session lecture on Ablation of Ventricular Tachycardia-Tools, Principal and Practice-Cardiological Society of India-TN Electrophysiology Association and Apollo Chennai sponsored EP meeting. May 26-27th 2018.
- Basu Ray I: Ablation strategies for persistent atrial fibrillation-Cardiological Society of India-TNElectrophysiology Association and Apollo Chennai sponsored EP meeting. May 26-27th 2018.
- Basu Ray I: CLINICAL EVIDENCE for Subcutaneous-ICD use in clinical practice. University of Arkansas Grand Rounds, October 30th, 2017.
- Basu Ray, I. Responsible Conduct in Research Lecture Series, "Conducting Investigator-Initiated Studies", Jan 8th, 2013 Ochsner Medical Foundation, Monroe Hall.
- Basu Ray, I. Systolic Heart Failure Mortality Reduction and Quality Measures: From Pharmaceuticals to Device Management, invited to deliver a lecture at 13th Annual Southern Hospital Medicine Conference, Emory University on October 26, 2012.
- Basu Ray, I. CARE: Combined Academic and Research Exposition - A Unique Program to Increase Research Output Among Residents. The talk was given to the GME and Program Directors Meeting, Ochsner Medical Foundation, March 5, 2012.
- Basu Ray, I. Mind-Body Medicine - "Does Mind Have a Role in Ameliorating Sickness?" TulaneUniversity, New Orleans, October 11, 2011.

- Basu Ray, I. Cardiovascular Drugs in the Perioperative Setting. 7th Southern Hospitalist Conference, New Orleans, LA, Oct 2011. Basu Ray, I. Role of Meditation and Other Mind-Body Medicine Techniques in the Management Of Heart Disease. Mind-Body Medicine Conference, Orlando, FL, Oct 2010.
- Basu Ray, I. Role of Meditation in Modern Medicine. Mayo Clinic Seminar on Ayurveda and Nanotechnology in Medicine. Mayo Clinic, Rochester, MN, Sep 2008.
- Basu Ray, I. Meditation and its Role in Modern Day Medicine. Case Western University, Cleveland, OH, Jun 2007.
- Basu Ray, I. "Meditation; is it Science or All Religion?" Cleveland State University, Cleveland, OH, Jun 2007.

INVITED AS CHIEF GUEST & VALEDICTORY TALKS IN UNIVERSITIES

- Basu Ray I, Guest of Honor to deliver the Valedictory Address at the 17th Annual Convocation of Swami Vivekananda Yoga Anusandhana Samsthana. Eknath Bhavan, #19 Gavipuram Circle, Bangalore 560019. www.svyasa.org January 12th, 2020.

INVITED COLUMN IN PEER - REVIEW JOURNALS

- Basu Ray, I., (2012) Advancing Evidence-Based Practice: A Quarterly Compilation of Research Updates Most Likely to Change Clinical Practice. The Ochsner Journal, Fall 2012, Vol. 12, No. 3, pp. 185-187.
- Basu Ray, I*. Advancing evidence-based practice - a quarterly compilation of research updates most likely to change clinical practice. Ochsner Medical Journal, 2014 Sep; 14(3):312-315. Cited In PubMed; PMID: 25249793.
- Basu Ray, I.* Advancing evidence-based practice - a quarterly compilation of research updates most likely to change clinical practice. Ochsner Medical Journal, 2014 Jul; 14(2): 148-153. Cited In PubMed; PMID: 24940118.
- Glickman-Simon, R., Basu Ray, I.; Evidence-based integrative medicine updates. Explore The Journal of Science and Healing, Elsevier Publication, Sept 2012.

- Deitelzweig, S., Basu Ray, I., Carter, W., Lee, D., Meadows, R., Vuppala, S., Wharton, F. In the literature: research you need to know. Hospitalist, Jan 2011.
- Basu Ray, I. Latest updates in cardiac electrophysiology. Indian Journal for Pacing & Electrophysiology, 2002;3(4):273.
- Basu Ray, I.* Advancing evidence-based practice - a quarterly compilation of research updates most likely to change clinical practice. Ochsner Medical Journal, 2014 Jul; 14(2): 148-153. Cited In PubMed; PMID: 24940118.
- Glickman-Simon, R., Basu Ray, I.; Evidence-based integrative medicine updates. Explore The Journal of Science and Healing, Elsevier Publication, Sept 2012.
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- Basu Ray, I. Latest updates in cardiac electrophysiology. Indian Journal for Pacing & Electrophysiology,2002;3(4):273.

ONLINE JOURNAL COLUMNS (PEER-REVIEWED)

- <http://www.acc.org/education-and-meetings/patient-case-quizzes/aug2016-ecg-of-the-month>.

ONLINE JOURNAL COLUMNS (NON-PEER REVIEWED)

- Basu Ray, I., Middour, T. A Case of Heart Failure Secondary to Mitral Regurgitation. CardiologyAdvisor, November 20, 2015
- <http://www.thecardiologyadvisor.com/arrhythmia/laa-closure-proposition/article/454556>
- Basu Ray, I., Lawrence, J. Left Atrial Appendage Closure: Exciting New Proposition or a Practically Non-Feasible Alternative? Cardiology Advisor, November 18, 2015.

ONLINE JOURNAL COLUMNS (NON-PEER REVIEWED)

- The Principal and Practice of Yoga in Cardiovascular Medicine: Springer-Nature, Switzerland AG. In Preparation. Editor in Chief, with over 60 authors contributing from all over the world. (in preparation)
- Clinical Cardiology, Paras Publishers, Hyderabad, India: A comprehensive book in Cardiology for subspecialty training in Cardiology. Written by over 45 authors from all over the world. Editor: Indranill Basu-Ray
- Yoga for Cardiovascular Disease: A primer for the Physicians: Cardio text Publishing; 3405 W.44th St; Minneapolis, Minnesota 55410 USA. (in preparation).
- Yoga for Cardiovascular Disease and Rehabilitation: Elsevier, USA – A compendium of updated research in the use of yoga for heart disease.

ACADEMIC PURSUITS

- **Program Director:** Worlds' First Conference on the Role of Meditation in Cardiovascular Diseases; March 9th & 10th at the All-India Institute of Medical Sciences, Rishikesh, Uttarakhand. Attended by over one thousand physicians from all over the world. Information: www.aaymonline.org
- **Program Director:** International Yoga e-Conference 2021. June 2021. A virtual conference at the height of COVID that was broadcasted live through multiple social media channels including YouTube and Facebook. Had over 100 faculties in over 50 sessions including eminent experts like David Frawley, Deepak Chopra, Karan Singh & H R Nagendra. Experts from Harvard, MD Anderson Cancer Center, PGI-Chandigarh, and All India Institute of Medical Sciences-New Delhi to name a few. Information: www.aaymonline.org

LICENSES

- Texas-active current.

- Tennessee -active current.
- Arkansas -active till 2020 (Voluntarily not renewed).
- Louisiana- Full, Number: 204313, Exp. Date: 10/2016. (Voluntarily not renewed)
- Massachusetts- Full, Number: 245422, Exp. Date: 10/2012 (voluntarily not renewed)
- New York: 2010-2012. (Voluntarily not renewed)

LEADERSHIP POSITIONS & COMMUNITY WORK

- **American Academy for Yoga in Medicine:** A nonprofit organization for MDs, PhD's academic and non-academic researchers, and clinical practitioners of Yoga as a form of Mind-Body Medicine. The academy conducts regular webinars on different aspects of using yoga in different disease states for clinicians. It also has a public platform to disseminate scientific information on the use of yoga in preventive and integrative medicine.
- **Indian American International Chamber of Commerce:** Vice-Chair Executive Board, Director of Health Care Policy and Delivery and Chairman Tennessee Chapter: The IAICC is an umbrella organization that provides a sustainable platform and leadership forum for entrepreneurs, professionals and businesses in the United States and India. It also facilitates exchanges between the United States of America governments and India.
- **Ganges- Mississippi Dialogue:** This is a series of dialogue with people as part of an exploration into the nature of this Universe and its knowledge systems from the perspective of Modern Science and different ancient cultures. It brings together eminent personalities and 'out of the box thinkers' to discuss novel ways to manage existing problems of poverty, health care delivery and universal education. As the Chairman of this platform conducts board meetings, plans conferences and engages with elected officials including senators and congressmen from both parties republicans and democrats to address these problems.
- **Tulane University Fellow and Resident Council:** As President for two years, ran the entire council, including presenting resident and fellow interests at the Graduate Medical Education Council. This role includes membership on many different teams to ensure quality, compliance, and adequate clinical

exposure and training for residents and fellows. It also encompasses the arrangement of educational seminars for this group on community practice, making contacts, and the instruction of how to practice medicine based on guidelines, etc. There is also a membership drive and fund collection drive to fund different projects, including running a free clinic in downtown New Orleans for those without homes and insurance.