

Curriculum Vitae

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

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Present Position:

Interventional Cardiac Electrophysiologist, Lt. Col Luke Weathers, Jr. (Memphis) VA Medical Center, TN.

Assistant Professor of Medicine (Cardiology), University of Tennessee Health Science Center, Memphis, TN.

Education:

1987 - 1992 Bachelor of Medicine and Bachelor of Surgery: MBBS, Nilratan Sarkar Medical College and Hospital University of Calcutta, Calcutta, West Bengal, India.

Post-Doctoral Fellowship:

1994 -1997 Doctor of Medicine, Internal Medicine, MD: Motilal Nehru Medical College and SRN Group of Hospitals, University of Allahabad, Allahabad, Uttar Pradesh, India.

1999 - 2002 Cardiology Fellowship (India): Vijaya Heart Foundation, Madras Medical College, Chennai, Tamil Nadu, India. — Leading to Diplomate of the National Board in Cardiology.

- 2002 - 2003 EP Clinical Fellowship: St. Michael's Hospital, University of Toronto, Toronto, Canada.

- 2007 - 2010 Residency in Internal Medicine: State University of New York at Buffalo, Buffalo, NY.

- 2013 - 2016 Fellowship in Cardiovascular Diseases: Tulane Heart and Vascular Institute, Tulane University, New Orleans, LA.

- 2016 – 2017 Fellowship in Cardiac Electrophysiology & Device Therapy, Texas Heart Institute, Baylor College of Medicine, 6770 Bertner Avenue, Houston, Texas 77030.

Research Fellowship:

- 2003 - 2005 Arrhythmia Service Center, Department of Cardiology, Heart Center, Massachusset General Hospital, Harvard Medical School, Harvard University, 55 Fruit Street, Boston, MA, 02114.

Academic Appointments:

- 1992-1994 House Officer, NRS Medical College in Medicine and Neurology

- 1997-1998 Instructor, Department of Medicine, N.R.S. Medical College and Hospital, Calcutta, India.

- 1998-1999 Assistant Professor, Department of Medicine, MGL Medical College and Hospital, Kishanganj, India

- 2003-2005 Research Associate: Harvard Medical School, Harvard University.

- 2005-2007 Instructor in Medicine (Cardiology), Harvard Medical School, Harvard University, and Beth Israel Deaconess Medical Center

- 2010-2013 Assistant Professor of Medicine, Tulane University Medical Center, System Head of Research in In-patient Internal Medicine: Ochsner Medical Center, John Ochsner Cardiovascular Institute

- 2011- 2013 Assistant Professor of Medicine, Tulane University Medical School

- 2011- 2013 Senior Lecturer of Medicine/Cardiology: University of Queensland/Ochsner School

- 2018 - Present Professor of Cardiology: All India Institute of Medical Sciences, Virbhadra Marg, Rishikesh, Uttarakhand-249203, India.
- 2020 – Present Professor of Public Health, University of Memphis, Memphis, TN
- 2023 - Present Assistant Professor of Medicine Cardiology UTHSC, Memphis, TN.

Hospital Appointments:

- 2010 - 2011 Academic Hospitalist: University at Buffalo (Catholic Health System--Sisters of Charity) Buffalo: rounded as an academic hospitalist with internal medicine residents.
- 2011 - 2013 Academic Hospitalist: Ochsner Medical Centre: rounded as an academic hospitalist with internal medicine residents. I was also an Assistant Program Director in the Internal Medicine Residency Program. I was an assistant professor at Tulane University Medical School.
- 2017 - 2018 Cardiac Electrophysiologist: I joined as a cardiac electrophysiologist at CHI St. Vincent Infirmery and did all complex ablations and device implantations at this hospital, one of the largest hospitals in Little Rock, Arkansas.
- 2018 - 2020 Cardiac Electrophysiologist: I joined as a cardiac electrophysiologist at St. Francis Hospital, Park Avenue, Memphis, where I started a new Cardiac Electrophysiology Program and did all complex ablations and device implantations at this hospital. St. Francis Hospital, Park Avenue is one of the largest hospitals in Memphis, TN.
- 2020 - Present Interventional Cardiac Electrophysiologist at 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 for the first time since 2020 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 subcutaneous ICDs, and Cardiac Contractility Modulation Devices

Teaching of Cardiology and EP subspecialty fellows.

Major Committee Assignments:

CPR Committee	Chairman: Cardio-Pulmonary Resuscitation Committee: Memphis VA Medical Center. Memphis, TN, USA.
Critical Care Committee	Dr. Basu Ray provides guidance mentorships problem solving on Cardiac related issues.
IRB Committee	Member cardiologist in the Institutional Review Board at Memphis VA Medical Centre.

Awards & Honors:

1990	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).
1992	Ranked first in University — First MBBS (Medical Graduation) examination. North Bengal Medical College.
1997	Ranked first in University — MD. (Doctor of Medicine) examination, Motilal Nehru Hospital and Swaroop Rani Nehru Hospital, Allahabad, UP, India.
2013	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).
2016	Best Young Investigator award in KC Heart Rhythm Society for research on modification of CHADS2VASC for non-atrial fibrillation stroke.

Professional Society Fellowships and Memberships:

1992 - Present	Indian Medical Association
1992 - Present	Indian Association of Clinical Medicine
1992 - Present	Association of Physicians in India
2001 - Present	Indian College of Cardiology
2001 - Present	Cardiological Society of India
2002 - Present	Indian Society for Pacing and Electrophysiology
2002 - Present	Ontario Medical Association
2013 - Present	American College of Physicians-Fellow
2018 - Present	American College of Cardiology-Fellow.
2001 - Present	Cardiological Society of India- Life Member. Association of Physicians of India.
2018 - Present	European Society of Cardiology.
2018 - Present	European Heart Rhythm Society
2018 - Present	Heart Rhythm Society
2020 - Present	American Medical Association
2020 - Present	American Heart Association

Editorial Boards:

2001 - Present	Intensive Care Medicine, Reviewer.
2003-2005	Cardiology Today, Editorial Board.
2003-2010	Indian Journal of Pacing and Electrophysiology, Editorial Board.
2003 - Present	Journal of General Internal Medicine, Reviewer.
2003 - Present	Indian Journal of Pharmacology, Reviewer.
2010 - Present	Indian Heart Journal, Reviewer.
2010 - Present	DYNAMED, Reviewer.
2010 - Present	Hospital Practice, Reviewer.
2010 - Present	International Journal of Yoga, Editorial Board.
2012 - Present	American Journal of Medicine, Reviewer
2012 - Present	The Ochsner Journal, Section Editor.
2018 - Present	Psychoneuroendocrinology, Reviewer.
2019 - Present	American Heart Journal.
2020 - Present	Circulation: A & E, Reviewer
2020 - Present	Heart Rhythm Case Reports, Editorial Board
2020 - Present	Explore: The Journal of Science and Healing.
2021 - Present	Journal of American College of Cardiology-Cardiac Electrophysiology, Reviewer
2021 - Present	BioMed Central Cardiovascular Medicine- A Springer Nature Publication, Associate Editor
2022 - Present	Associate Editor
2022 - Present	Frontiers in Medicine, Frontiers in Public Health, Associate Editor

Memberships, Offices and Committee Assignments in Professional Societies:

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.

Scientific Advisory Board:

2023 - Present LYBL advising on Holistic Medicine. Taking CME courses for Physicians on Yoga as Medicine, Metabolic Diseases, and their present treatment.

LYBL is a holistic health platform combining Ayurveda and tech for personalized wellness.

2024 - Present OMNYK's holistic digital healthcare solution, through in-depth analysis, real-time alerts and personalized customer care enables timely delivery of care to patients with cardiovascular intervention, after discharge from the hospital. OMNYK is focused on addressing the biggest challenge the entire world is facing.

Advice OMNYK's on the use of Digital Technology for Healthcare.

Professional Leadership Roles Related to Teaching:

Director of Cardiovascular Research: Direct the Cardiovascular Research Program at the Lt. Col. Luke Weather VA Medical Centre, includes teaching and guiding medical students internal medicine residents & Cardiology fellows to do research and publish.

Major 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.

Research Faculty Positions:

2005 - 2007 Former Instructor in Medicine, Division of Cardiology: Director of the Experimental Cardiac Lab, Beth Israel Deaconess Medical Center, 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.

- 2011 - 2013 System Director of Medical Research, Responsible for responsible for research in the entire Ochsner medical system comprising of over 30 hospitals and clinics. This included Training and Publication for Internal Medicine Residence.
- 2020 - Present 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.

Administrative Experience:

- 2020 – Present 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.
- 2022 - Present Cardiology member of the Critical Care Committee: Critical care committee needs once a month. Dr. Basu Ray provides guidance / mentorships / problem solving on Cardiac related issues.
- 2023 - Present Member cardiologist in the Institutional Review Board at Memphis VA Medical Centre: Dr. Basu Ray represents cardio-vascular medicine in the Institutional Review Board. He regularly participates in their proceedings. His work involves reviewing research applications before the board.

Clinical Experience:

2020 - Present Interventional Cardiac Electrophysiologist at 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 for the first time since 2020 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 subcutaneous ICDs, and Cardiac Contractility Modulation Devices.
Teaching of Cardiology and EP subspecialty fellows.

Publications:

Text Books:

2003, 2016 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.

2022 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

2023 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.

2024 Fundamentals of Cardiac Electrophysiology; Elsevier (in preparation).
The multi-authored text is to be edited by Dr. Indranill Basu-Ray. This is the first book explaining the concepts of Cardiac of Electrophysiology for Cardiologists

Practice Guideline as Part of a Committee:

September 28, 2017 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:eoo2218; Originally published September 28, 2017

Peer-Reviewed Publications:

1. Basu Ray I, Reddy, K.N. R. Neutral peptidase inhibitors. Heart Drug, 2001 Aug;1(4):236- 240.
2. Basu Ray I. New cardiac markers: selecting the best tools for reaching an accurate diagnosis and determining the patient's prognosis. Journal of Indian Medical Association, 2001 Sept;99(9):509-512. Cited in PubMed; PMID: 12018560.

3. Basu Ray I, Preventing sudden death and the use of prophylactic implanted defibrillators. *Indian Pacing and Electrophysiology Journal*, 2003 Apr;3(2):60-66. Cited in PubMed; PMID: 16943958.
4. Basu Ray I, Narrow complex tachycardia: recognition and management in the emergency room. *Journal of Physicians of India*, 2004 Oct;5(10):816-824. Cited in PubMed; PMID: 15909859.
5. Basu Ray I, Wide complex tachycardia: Recognition and management in the emergency room, *Journal of Physicians of India*, 2004 Nov;52(11):882-887. Cited in PubMed; PMID: 15906839.
6. Basu Ray I, Reddy, Y.V. I CDs for primary prophylaxis of sudden cardiac death: present status. *International Journal of Cardiology*, 2005 Jan;98(1):15-20. Cited in PubMed; PMID: 15676160. Schmidt, E.J., Reddy, V.Y., Hayase, M.
7. Basu Ray I, Heist, K.E. Treating atrial fibrillation. What is the consensus now? *Postgraduate Medicine*, 2005 Oct;18(4):47-58. Cited in PubMed; PMID: 16296263.
8. Basu Ray I, Pomerantseva, I., Schmidt, E.J., Houghtaling, C., McPherson, C., Singh, J.P., Vacanti, J.P., Gold, H.K., Ruskin, J.N., Reddy, Y.V. Injection of bone marrow-derived cells into a porcine myocardial infarction model guided by integration of electroanatomical mapping and magnetic resonance imaging. *Heart Rhythm*, 2005 May;2(5): S109. Reddy, V.Y., Malchano, Z.Y., Abbarra, S.
9. Basu Ray I, Fendelander, L., Singh, J.P. Cardiac resynchronization therapy and its potential proarrhythmic effect. *Clinical Cardiology*, 2007 Oct;30(10):498-502. Cited in PubMed; PMID: 17823906. Liu J; Jia X.
10. Basu Ray I, Dukkupati, S., Houghtaling, C., McPherson, C.D., Kastelein, N., Ruskin, J.N., Reddy, V.Y. Initial experience with a novel remote-guided magnetic catheter navigation system for left ventricular scar mapping and ablation in a porcine model of healed myocardial infarction. *Journal Of Cardiac Electrophysiology*, 2007 May;18(5):520-525. Cited in PubMed; PMID: 17388912.
11. Basu Ray I, Jay Kuo, C.C. Multimodal data integration for computer-aided ablation of atrial fibrillation. *Journal of Biomedicine and Biotechnology*, 2008 Feb:1-8. Cited in PubMed; PMID: PMC2246085.
12. Basu Ray I. Advancing evidence-based practice: a quarterly compilation of research updates most likely to change clinical practice. *The Ochsner Journal*, 12:294-297, 2012. Cited in PubMed; PMID: 23267250..

13. Basu Ray I, Henry, T. L., Davis, W., Alam, J., Amedee, R. & Pinsky, W. Consolidated Academic, and Research Exposition: A pilot study of an innovative education method to increase research involvement of residents during residency. *The Ochsner Journal*, 12:367- 372, 2012. Cited In PubMed; PMID: 23267266.
14. Basu Ray I, Fragmented QRS complexes - a novel but underutilized electrocardiographic marker of heart disease. *Critical Pathways in Cardiology: A Journal of Evidence-Based Medicine*, 12(4):181-183, December 2013. Cited in PubMed; PMID: 24240545.
15. Basu Ray I, Menezes, AR., Joshi, S., Reilly, J.P., Lavie, C.J., Deitelzweig, S. Meditation, and coronary heart disease: a review of the current clinical evidence. *Ochsner Medical Journal*, early online, December 15, 2014. Fares, H., Heist, K.E., Lavie, C.J., Ventura, H., Carter, W., Meadows, R., Deitelzweig, S.
16. Basu Ray I, Parikh, V., Pollet, M. Wang, S., Mathuria, N. Lakkireddy, D. Cheng J, Esophageal Temperature Monitoring During Radiofrequency Ablation of Atrial Fibrillation: A Meta-Analysis, *Journal of Atrial Fibrillation*, Oct-Nov 2016, 9:3.
17. 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.
18. 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.
19. Basu Ray I and Shah SK. Formulating a More Comprehensive Stroke-Risk Evaluation Scale. *Texas Heart Institute Journal*. 2018; 45(3).
20. 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.
21. 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).

22. 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/>
23. 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.
24. 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.
25. 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.
26. 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.
27. 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
28. 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>.
29. 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.
30. 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.

31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.

38. 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.
39. 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.

Abstracts:

1. BasuRay,I: NegativeStress TMT, and Acute Coronary Syndromes: Three Analysis: A Need For Caution! *Cardiological Society of India, New Delhi, India, Dec 2001*
2. 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 Electro anatomical 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
3. Basu Ray I, Dumoulin, C.L. Self-Expandable Intra-Vascular MR Imaging and MR tracking Catheters. Presented at 13th meeting of the International Society of Magnetic Resonance in Medicine, Miami, FL, May 2005.
4. Basu Ray I, Wallace, D., Grossman, J., Houghtaling,C., McPherson, C.D., Ruskin, J.N. Porcine pulmonary vein ablation using a novel robotic catheter control system and real-time integration of CT imaging with electro anatomical mapping. *Heart Rhythm*, 2005 May;2(5): S121.
5. Basu Ray I, Houghtaling, C., McPherson, C.D., Kastelein, N., Ruskin, J.N., Reddy, V.Y. Integration of MR imaging with electroanatomical mapping to facilitate epicardial ventricular mapping and ablation, a feasibility study in a porcine model of healed myocardial infarction. *HeartRhythm*, 2006 May;2(5).
6. Basu Ray I, Jay Kuo, C.C. Joint Reconstruction and Registration Using Level Sets: Application to Atrial Fibrillation Ablation. Presented at *Frontiers in the Convergence of Bioscience and Information Technologies*. J eju, South Korea, Oct 2007.
7. Basu Ray I, Bronson, R.T., Cao, H., Paul, S., Puryear, H.A., Carrozza, J.P., Sellke, F.W., Zimetbaum, P.J., Rosenzweig, A., Josephson, M.E. Novel Electrode-Tissue

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8. Basu Ray I; Katikitala K; Lam W; Mathuria N; Seger J; Nazeri A; Lopez JA; Rojas-Delgado F; Sherman P; Saeed M; Cheng J; DeBakey ME. TV-ICD and S-ICD have a similar incidence of Inappropriate Therapies-first meta-analysis comparing existing case-control studies.HRS. 2016; 17-A-10878-HRS.
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12. Basu Ray I; Liu J; Katikitala K; Lam W; Razavi M; Giorgberidze I; Afshar H; Saeed M; Cheng J; Rasekh A; DeBakey ME. Efficacy and Safety of the Ampliated Cardiac Plug versus the Watchman Device: A Systematic Review and Appraisal of Pooled Data. HRS. 2016; 17- A-10599-HRS Liu J.
13. Basu Ray I; Liu J; Jia X; Lam W; Katikitala K; Rojas-Delgado F; Nazeri A; Lopez JA; Seger J; Razavi J; Rasekh A; Cheng J; Razavi M; Mathuria N; Giorgberidze I; Afshar H; Saeed M; DeBakey ME. Comparison of clinical outcomes in recipients of subcutaneous versus transvenous implantable defibrillator therapy-a meta-analysis of existing case-control studies. HRS. 2016; 17-A-9017-HRS.Jia X.
14. Basu Ray I; Khalid K; Khan K; Monlezun D; Katikitala K; Safavi-Naeini P; Lam W; Rasekh A; Cheng J; Saeed M. Anti-arrhythmic effects seen with Lariat is not associated with reverse remodeling. HRS. 2016; 17-A-10674-HRS.
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18. 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., Prevalence and Significance of Ventricular Arrhythmias Prior to Ventricular Assist Device Implantation: A Fifteen-Year Institutional Experience. Heart Rhythm; Volume 14, Issue 5, Supplement 2017-4-30, Pages A1- S668.
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21. 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.
22. Basu Ray I. Complex Left Appendage Morphology Is An Independent Risk Factor For Cryptogenic Stroke. JACC: Cardiovascular Interventions. 2017; 10(3) Supplement.
23. 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.

24. 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.
25. 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.

Text Book Chapters:

1. 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.
2. Basu Ray, I., Heist, K. Narrow complex tachycardia. In: Agarwal, A., Singhal, R.K., Jain, D.G., Upadhyay, R., Rewari, B.B., eds. *TextBook of Emergency Medicine*, New Delhi, India: Jaypee, 2005:99-112.
3. Basu Ray, I., Heist, K. Wide complex tachycardia. In: Agarwal, A., Singhal, R.K., Jain, D.G., Upadhyay, R., Rewari, B.B., eds. *Textbook of Emergency Medicine*, New Delhi, India: Jaypee, 2005:113-121.
4. Basu Ray, I. Newer therapeutic modalities in cardiac electrophysiology. In: Kar, A.K., ed. *Cardiology Update*, 2005. Mumbai, India: The Asia Pacific Congress of Cardiology, 2005:200- 205.
5. 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.
6. Basu Ray I , Dibbendhu Khanra (2023) . “The Principles and Practice of Yoga in Cardiovascular Medicine”. *Cardiology:A Primer for the Uninitiated* (PP 3 – 38).
7. Basu Ray I , Paul Dallaghan (2023) . “ The Principles and Practice of Yoga in Cardiovascular Medicine”. *The Nature , Meaning, Practice of Yoga: Traditional Base Meets Scientific Rigor.*(PP 45 – 54)

8. Basu Ray I (2023) . “The Principles and Practice of Yoga in Cardiovascular Medicine”. Mechanism Model for Yoga as a Therapeutic Modality in Cardiovascular Disease. (PP 69 – 80)
9. Basu Ray I, Anindya,M (2023). “The Principles and Practice of Yoga in Cardiovascular Medicine”.Yoga : A Holistic Approach for Cardiac Arrhythmia.(PP 161 – 166)
10. Basu Ray I, Anindya,M, Shishir,S, Dibbendhu, K (2023). “The Principles and Practice of Yoga in Cardiovascular Medicine”.Role of Yoga and Meditation in Palliative Care.(PP 345 – 350)
11. Basu Ray I, Kashinath, M(2023). “The Principles and Practice of Yoga in Cardiovascular Medicine”. Yoga as a Potential Intervention for Preventing Cardiac Complications in COVID-19:Augmenting Immuno – Modulation and Bolstering Mental Health (PP 367 – 382).

Regional, National, and International Contributions:

1. Basu Ray, I. "Meditation; is it Science or All Religion?" Cleveland State University, Cleveland OH, 2007.
2. Basu Ray, I Meditation and its Role in Modern Day Medicine, Case Western University, Cleveland, OH, Jun 2007.
3. Basu Ray, I. Role of Meditation in Modern Medicine. Mayo Clinic Seminar on Ayurveda and Nanotechnology in Medicine. Mayo Clinic, Rochester, MN, Sep 2008.
4. 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
5. Basu Ray, I. Mind-Body Medicine - "Does Mind Have a Role in Ameliorating Sickness?" Tulane University, New Orleans, October 11, 2011
6. 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.
7. Basu Ray, I. Systolic Heart Failure Mortality Reduction and Quality Measures: From Pharmaceuticals to Device Management, invited to deliver a lecture at the 13th

- Annual Southern Hospital Medicine Conference, Emory University on October 26, 2012.
8. Basu Ray, I. Responsible Conduct in Research Lecture Series, "Conducting Investigator-Initiated Studies", Jan 8th, 2013 Ochsner Medical Foundation, Monroe Hall.
 9. Basu Ray I: CLINICAL EVIDENCE for Subcutaneous-ICD use in clinical practice. University of Arkansas Grand Rounds, October 30th, 2017.
 10. 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.
 11. Basu Ray I: Plenary session lecture on Ablation of Ventricular Tachycardia-Tools, Principal and Practice-Cardiological Society of India-TN. 2018
 12. Electrophysiology Association and Apollo Chennai sponsored EP meeting. May 26-27th 2018.
 13. Basu Ray I: The Application of Yoga in Clinical Medicine-SVYASA, Bangalore, India. June 3rd,2018.
 14. 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.
 15. Basu Ray I: New Research Module for Yoga Research rather than traditional Randomized Clinical Trials-Time for a Paradigm Shift. 107th Indian Science Congress, University of Agricultural Sciences, GKVK Campus, Bangalore, January 5th, 2020.
 16. 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.
 17. 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.

18. 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 on 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.
19. Mind, Consciousness & Identity. Indian Institute of Technology- Bombay Institute for promoting wellness and yoga. Mumbai, India. 7th August 2021.
20. 2nd International Conference on Mind-Body Medicine in Endocrinology and Diabetes. SYNAP-SE 2022, Hotel Hyatt Regency, Pune, April 2nd. Basu Ray, I. Yoga as Cardiovascular Medicine 2022.
21. Cardiological Society of India: Heart Failure Symposium. Basu Ray, I: Yoga as a Cardiac Rehabilitation Therapy for Heart Failure Jan 2023.
22. Grand Rounds: Ablation of Ventricular Tachycardia at UTHSC, Nashville. Ventricular Tachycardia Diagnosis and Ablation, October 2023.
23. Cardiological Society of India. 75th Anniversary Conference, Kolkata, India Basu Ray, I: Role of Cardiac Contractility Modulation for Heart Failure. Jan 2023
24. Cardiological Society of India. 75th Anniversary Conference, Kolkata, India. Basu Ray I: My Tyrst with Electrophysiology: Newer Device for Heart Failure. June 2024.

Invited Column in Peer-Review Journals:

1. Basu Ray, I. Latest updates in cardiac electrophysiology. Indian Journal for Pacing & Electrophysiology, 2002;3(4):273.
2. 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.
3. 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.
4. Glickman-Simon, R., Basu Ray, I.; Evidence-based integrative medicine updates. Explore The Journal of Science and Healing, Elsevier Publication, Sept 2012.

5. 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.
6. 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.

Invited Institutional Presentations:

1. 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.

Online Medical Journal Columns (Non-Peer Reviewed):

1. 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>.
2. Basu Ray, I., Lawrence, J. Left Atrial Appendage Closure: Exciting New Proposition or a Practically Non-Feasible Alternative? Cardiology Advisor, November 18, 2015

International Academic Leadership Position:

1. 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.
2. 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.

Newspaper and Popular Magazine Publications:

1. Non-Medical Writing:

Author of over 200 articles on health-related topics including health policies, medical education in different magazines and newspapers.

Huffington Post

New Orleans

The Times of India — Editorial articles published in all editions.

The Indian Express

The Hindustan Times, New Delhi

The Telegraph — Editorials on health policies, stem cells and medical education.

The Statesman — Ran a regular column.

Ananda Bazar Patrika — Articles translated to Bengali.

North India Patrik

Bartaman

The Pioneer

2. Editorial Columns in Daily Newspapers:

2011 Nursing a critically ill state back to health, The Telegraph, Kolkata, India
http://www.telegraphindia.com/1111122/jsp/opinion/story_14780456.jsp
https://www.telegraphindia.com/1160607/jsp/opinion/story_89643.jsp

3. Magazine Columns:

<http://www.myneworleans.com/New-Orleans-Magazine/August-2013/The-MIND-as-HEALER-of-the-BODY/>

4. Contributor to the Huffington Post:

http://www.huffingtonpost.com/entry/you-dont-need-technology-to-live-a-long-life-yoga_us_5735f963e4b07a38660444f3

http://www.huffingtonpost.com/entry/the-mysterious-universe-from-black-hole-to-komodo-dragons_us_

http://m.huffpost.com/us/entry/us_576967a8e4b03fd30eb81b9d

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)

Languages:

English

Hindi

Bengali

Community Leadership Roles:

1. 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.
2. 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.

3. 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.
4. 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.
5. Asian-Pacific American Association: Coordinator of this large group of over 400,000 people in Louisiana of South East Asian and East Asian origin. Work includes presenting their interests to the governor, senators and councilmen representing their constituency and organizing membership and fund collection drives to run the organization on a daily basis.
6. American Indian Friendship Council: As a board member, coordinated meetings with senators from both parties including over 150 Republicans and Democrats to address the interests of the Indian community in the US.
7. American Medical Association International Medical Graduate Section Committee Member: Part of the core team that presents the interests of thousands of IMG to the AMA board of Trustees and Director. Includes planning yearly meetings of IMG at AMA meetings to understand their needs and help solve their problems.
8. Vedanta Today: President and CEO of the organization that does ground level work providing health and wellness services to underserved people below the poverty line in multiple countries.

9. Indian Association of New Orleans: Vice President responsible for the coordination of the work of the organization including the over 20,000 strong Indian community in the New Orleans area.
10. Indian Association of Buffalo: Vice President and Secretary of this large organization that covers the over 35,000 strong American Indian population in the western New York area