

MD RESEARCH

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, Dukkipati, 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
21. 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.
22. 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).

23. 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/>
24. 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.
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. 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.
31. 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.
32. 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.
33. 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.
34. 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. Basu Ray, I.: Negative Stress 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 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
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 electroanatomical 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. Heart Rhythm, 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. Jeju, 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

Contact Assessment Techniques to Optimize Radio Frequency Catheter Ablation. (RFCA). Heart Rhythm 2007.

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.

9. Basu Ray I, Jia X; Liu J; Katikitala K; Lam W; Mathuria N; Razavi M; Giorgberidze I; Afshar HSaeed M; Cheng J; Rasekh A; DeBakey ME; VA. Cardiac Plug and Watchman devices: Meta-analysis of two popular left atrial appendage closure systems for stroke prevention in atrial fibrillation. HRS. 2016; 17-A-9371-HRS.Korrane, K.

10. Basu Ray I; Pujara D; Greet B; Burkland D; Wadehra D; Katikitala K; Pollet M; Sudhakar D; Civitello A; Costello B; Abdallah A; Postalian A; Hale Z; Jenny B; Lai C; Igbalode K; Ono M; Morgan J; Simpson L; Rojas-Delgado F; Cheng J; Mathuria N. Successful Catheter Ablation of Ventricular Tachycardia in Patients with Structural Heart Disease who Undergo Subsequent LVAD Implantation Improves post-LVAD Survival. HRS. 2016 17-A-12387- HRS.

11. Basu Ray I; Jia X; Katikitala K; Lam W; Molina JE; Razavi M; Lopez JA; Seger J; Nazeri A; Rasekh A; Saeed M. Infectious Complication rates for S-ICD and TV-ICD are similar however they differ in their nature. HRS. 2016; 17-A-10709-HRS.

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.

15. Basu Ray I; Middour T; Schwing G; Monlezun D; Boja H; Deere B; Morris S; Boulad A; LeJemtel T; Cassidy M; Martin-Schild S. Significant Diastolic Dysfunction Is Associated With cardioembolic Stroke Independent Of History Of Atrial Fibrillation. AHA. 2016; 2016- SS-A-19097-AHA.

16. Basu Ray I; Schwing G; Middour T; Monlezun D; Katikitala K; Koranne K; Cassidy M; Martin-Schild S; Lam W; Afsar H; Giorgberidze I; Cheng J; Saeed M. Significant Diastolic Dysfunction Is Associated With Cardioembolic Stroke Independent Of History Of Atrial Fibrillation. ACC. 2016; 17-A-10684-ACC.

17. 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., Presence of an ICD in VAD Patients with Pre-VAD Implant Ventricular Tachycardia is Associated with Increased Survival. Heart Rhythm; Volume 14, Issue 5, Supplement 2017-4-30, Pages A1-S668.

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.

19. 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

20. 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 Structural Heart Disease who Undergo Subsequent LVAD Implantation Improves post- LVAD Survival. Heart Rhythm; Volume 14, Issue 5, Supplement 2017- 4- 30, Pages A1- S668.

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.