

## **Publications**

*Peer-Reviewed Journal Articles/ Abstracts: \*indicates corresponding author.*

**Basu Ray I\***, Sudhakar D, Schwing G, Monzelun D, Zhang L, Shah SK, Pujara D, Ting K, Rafeh NA, 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\***, Jia X, Liu J, Horton R, Shah S.K, Lam W, Mathuria N, Razavi M, Cheng J, Lakkireddy D, Kar S, Natale A, Bangalore S, Asirvatham S, Saeed M and Rasekh A. Comparison of Amplatzer Cardiac Plug and Watchman devices: Meta-analysis of two popular left atrial appendage closure systems for stroke prevention in atrial fibrillation. *Journal of Atrial Fibrillation*. (Under review)

**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\***; 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, PhD; Kenneth Jamerson, MD, FAHA; Puja K. Mehta, MD, FAHA; Erin D. Michos, MD, MHS, FAHA; Keith Norris, MD; **Indranill Basu Ray, MD**; Karen L. Saban, PhD, 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

Korrane, K. **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

**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 Appendage Morphology 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 Structural Heart 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., **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., Prevalance 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

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., 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

**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.

**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.

Fares, H., Heist, K.E., Lavie, C.J., Ventura, H., Carter, W., Meadows, R., Deitelzweig, S. & **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.

**Basu Ray, I.\***, Katikitala, K., Pavlov, A., Mukherjee, D., Kumbala, D. & Le Jemtel, T.J., Heart failure with preserved ejection fraction: a review of the current clinical evidence review article. Ochsner Medical Journal, Accepted for publication.

**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.

**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.

Woo, J., Hong, B.W., Kumar, S., **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.

**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. (RFCAs). *Heart Rhythm* 2007.

Woo, J., Hong, B.W., Kumar, S., **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.

**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.

**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.

**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)=78.

Heist, K.E., Arzola-Castaner, D., Malchano, Z.J., Holmvang, G., **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., **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.

**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.

**Basu Ray, I.**, Reddy, Y.V. ICDs for primary prophylaxis of sudden cardiac death: present status. *International Journal of Cardiology*, 2005 Jan;98(1):15-20. Cited in PubMed;

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Schmidt, E.J., Reddy, V.Y., Hayase, M., **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

**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.

**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.

**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.

**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.

**Basu Ray, I.,** Reddy, K.N. R. Neutral peptidase inhibitors. Heart Drug, 2001 Aug;1(4):236-240.

### ***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.

Basu Ray, I., Heist, K. Narrow complex tachycardia. In: Agarwal, A., Singhal, R.K., Jain, D.G., Upadhyay, R., Rewari, B.B., eds. Text Book of Emergency Medicine, New Delhi, India: Jaypee, 2005:99-112.

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.

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., Basu Ray, I. Negative Stress TMT and Acute Coronary Syndromes: ThreeYear Analysis: A Need For Caution! Cardiological Society ofIndia, New Delhi, India, Dec 2001.

### ***Invited Talks at Universities/Meetings and Symposia***

Basu Ray I: The Application of Yoga in Clinical Medicine-SVYASA, Bangalore, India. June 3<sup>rd</sup> 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 26-27<sup>th</sup> 2018.

Basu Ray I: Ablation strategies for persistent atrial fibrillation-Cardiological Society of India-TN Electrophysiology Association and Apollo Chennai sponsored EP meeting. May 26-27<sup>th</sup> 2018.

Basu Ray I: CLINICAL EVIDENCE for Subcutaneous-ICD use in clinical practice. University of Arkansas Grand Rounds, October 30<sup>th</sup>, 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 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. Talk 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?" Tulane University, New Orleans, October 11, 2011.

Basu Ray, I. Cardiovascular Drugs in the Perioperative Setting. rzth 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 Columns in Peer-Reviewed 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.

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.

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. Cardiology Advisor, 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.

***Book Author and Editor***

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

The Principal and Practice of Yoga in Cardiovascular Medicine. Springer-Nature. In Preparation.