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## **Education and Postgraduate Training**

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July 2019 - June 2020	Fellowship in Structural Heart Disease Interventions Icahn School of Medicine at Mount Sinai New York, New York
Jan 2013- Jan 2014	Interventional Cardiology Fellowship Icahn School of Medicine at Mount Sinai New York, New York
Nov 2012 - Dec 2012	Interventional Imaging Certificate Training Chung-Ang University Medical Center Seoul, South Korea
Feb 2012 - Jun 2012	Interventional Cardiology Fellowship All India Institute of Medical Sciences New Delhi, India
Jan 2009 - Dec 2011	Cardiology Fellowship All India Institute of Medical Sciences New Delhi, India
July 2005 - May 2008	Internal Medicine Residency Post Graduate Institute of Medical Education and Research Chandigarh, India
Aug 1999 - June 2005	Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.) Madras Medical College Chennai, India

## **Licensures and Certifications**

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March 2005 - Present	Tamil Nadu Medical Council; Medical Council of India
June 2019 – June2020	New York State Medical License
Nov 2011 - Present	Educational Commission for Foreign Medical Graduates (ECFMG)

## **Work Experience**

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Oct 2020- Present	Adjunct Faculty, Indian Institute of Technology-Madras, Chennai
Aug 2019 - Present	Associate Professor of Cardiology & Senior Consultant Interventional Cardiologist, Department of Cardiology, Sri Ramachandra Institute of Higher Education and Research, Chennai, India
July 2017 – Aug 2019	Assistant Professor of Cardiology Department of Cardiology Sri Ramachandra Medical College and Research Institute Chennai, India
Aug 2014 – June 2017	Consultant General and Interventional Cardiology Apollo Specialty Hospital Chennai, India
April 2014 – Aug 2014	Interventional Cardiology and General Cardiology Consultant Fortis Hospital Chennai, India
June 2012 – Oct 2012	Consultant Cardiologist Jaswant Rai Specialty Hospital Meerut, India

## **Awards, Honors, and Recognitions**

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2019	Outstanding Contribution and Cardiology Leadership, Mayan Award
2018	Humanitarian - Good Samaritan Award, Indian Medical Association
2018	Vice Chairman of Academics, Tamil Nadu Interventional Council
2017	Research Grant, Gate Projects Award and Grants for Research
2017	Vice Chairman of Academics, Tamil Nadu Interventional Council
2016	Chairman of Academics Research Recognition Award
2015	First Place, Global Interventional Cardiology Jeopardy, Cardiology Society of India
2014	First Place, Global Interventional Cardiology Jeopardy, Cardiology Society of India
2013	Impella Scholarship Award, Transcatheter Cardiovascular Therapeutics, USA
2012	Best Fellow Award, National Interventional Council, Cardiology Society of India
2011	Best Outgoing Cardiology Fellow, Jagdish Lal Kapila Gold Medal, All India Institute of Medical Sciences, New Delhi, India
2011	Torrent Young Scholar Award

- 2011 UK-India Education and Research Initiative (UKIERI) Scholarship, Department of Cardiology, Royal Brompton Hospital, London
- 2009 Early Career Travel Grant, 17th Asia Pacific Congress of Cardiology, Kyoto, Japan
- 2008 First Rank, Cardiology Fellowship Entrance Exam, All India Institute of Medical Sciences, New Delhi, India
- 1999 Full Ride Scholarship, MBBS, Government of Tamil Nadu
- 1999 District Topper Award (Top 100 applicants among 500,000 applicants), Tamil Nadu State Higher Secondary Examinations

### **Professional Associations**

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- 2018 - Present Society of Cardiovascular Angiography and Interventions (SCAI)
- 2017 - Present Indian Medical Association
- 2017- Present Association of Physicians of India
- 2014 - Present American College of Cardiology (ACC)
- 2012 - Present Cardiological Society of India (CSI)
- 2005 - Present Tamil Nadu Medical Council, India

### **Academic and Editorial Positions**

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- 2020 Program coordinator- IDEAL Summit
- 2020 Program Coordinator- CME web series for Postgraduates
- 2019 - Present Assistant Editor, Indian Heart Journal
- 2019 Course Co-director Best of Ultrasonography and Rota-ablation, India
- 2019 Course Co-director, Complex High risk Interventions (CHIP summit)
- 2018 - Present Proctor for Rota-ablation, Boston Scientific
- 2018 Associate Organising secretary for PACE - India
- 2018 Member of Organizing Committee of Left main Conclave, India
- 2017 - 2018 Member of Organizing Committee, CTO Conclave, India
- 2017 - 2018 Vice Chairman of the Tamil Nadu Interventional Council
- 2016 - 2018 Imaging Section Editor, Indian Heart Journal

### **Research, Publications and Grants**

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#### **Grants:**

Influence of clonal hematopoietic cells of Indeterminate Potential (CHIP) in patients with coronary artery disease. Indian Council of Medical Research approved extramural project. 2019-0126 (\$30,000).

## **Publications:**

Muralidharan TR, Preetam K, **NB Senguttuvan**. Academia sans barriers. Eur Heart J. 2020 Nov 30;ehaa732. doi: 10.1093/eurheartj/ehaa732. Online ahead of print.

**NB Senguttuvan**, R Jayaraj. Multivessel Versus Culprit-Only Revascularization in STEMI: Is "Treat Them All" A Right Strategy? JACC Cardiovasc Interv. 2020 Oct 12;13(19):2308.

K. Gupta, S. Ramakrishnan, ... **N.B. Senguttuvan**, et al., for the CSI-Great India BP Campaign Investigators, Impact of the 2017 ACC/AHA Guidelines on the Prevalence of Hypertension Among Indian Adults: Results from a Cross-Sectional Survey, International Journal of Cardiology Hypertension, <https://doi.org/10.1016/j.ijchy.2020.100055>.

Goel S, Jain T, Hooda A, Malhotra R, Johal G, Masoomi R, Kamran H, Krishnamoorthy PM, **Senguttuvan NB**, Sharma A, Gidwani U. Clinical Characteristics and In-Hospital Mortality for COVID-19 Across The Globe. Cardiol Ther. 2020 Jul 18;. doi: 10.1007/s40119-020-00189-0. [Epub ahead of print] PubMed PMID: 32683639;

M. Khan, **NB Senguttuvan**, P. Krishnamoorthy, et al., Coronary angiography and percutaneous coronary intervention after transcatheter aortic valve replacement with medtronic self-expanding prosthesis: Insights from correlations with computer tomography. International Journal of Cardiology, <https://doi.org/10.1016/j.ijcard.2020.05.065>

Ramakrishnan S, Zachariah G, Gupta K., **Senguttuvan NB**, et al. Prevalence of hypertension among Indian adults: Results from the great India blood pressure survey. Indian Heart J. 2019 Jul - Aug; 71(4):309-313. doi: 10.1016/j.ihj.2019.09.012. Epub 2019 Sep 18

**Senguttuvan NB**, Subramanian A, Agarwal G, Mishra S, Bahl VK. Association of Cytokines IL6, IL10, IL18, TNF $\alpha$  in Acute Coronary Syndrome. J Cardio Vasc Med 5: 1-9

**Senguttuvan NB**, Agarwala R, Kapoor A. A fortunate FEAST: Favorable embolization of an agile stent to the target vessel. Indian Heart J Interv 2018; 1:161-5.

Ramalingam V, **Senguttuvan NB**, Ravindran R, et al. Improvement in Clinical Outcomes, Right Ventricular Function and Pulmonary Artery Hypertensions after Half Dose Thrombolysis in Patients with High Risk Sub-Massive Pulmonary Thromboembolism. Journal of Evolution of Medical and Dental Sciences 8(34):2681-2686. DOI: 10.14260/jemds/2019/58

Villoth S, Muralidharan TR, Naidu B, **Senguttuvan NB**. Stroke in percutaneous coronary intervention – Atherothrombosis that licked heart but bit brain". Accepted in Indian Heart Journal Case reports

Kalaivani Muthu, Devasentahipathy Kandasamy, Vitsizono Sakhrie, **Nagendra Boopathy Senguttuvan**. Diagnosing Acute sub massive pulmonary thromboembolism on Non Contrast

Magnetic Resonance Imaging in a patient with single kidney and renal dysfunction, <https://doi.org/10.1016/j.ijccr.2017.12.002>

**Senguttuvan NB**, Sundeep Mishra, Sang Woo Kim. Utility of OCT in a patient with chronic stable angina-“All that is seen using dye is not true”. Indian Heart Journal. <https://doi.org/10.1016/j.ihj.2017.11.008>

Mishra S, Ramakrishnan S, Babu AS, Roy A, Bahl VK, Singru KV, Chugh S, Sengupta S, Kaul U, **Senguttuvan NB**, Nirmal Y, Jadhav UM, Jose J, Gupta V, Chopra HK, Singh A, Sastry BK, Thiagarajan S Management algorithms for acute ST elevation myocardial infarction in less industrialized world.. Indian Heart J. 2017 Apr; 69 Suppl 1:S98-S103. doi:10.1016/j.ihj.2017.03.005. Epub 2017 Mar 18.

**Senguttuvan NB**, S Ramakrishnan, R Agarwala, et al, The many faces of the ‘orphan’ aVR, IHJ Cardiovasc Case Rep. (2017), <http://dx.doi.org/10.1016/j.ihjccr.2017.08.004>

**Senguttuvan NB**, Kumar S, Lee WS, Mishra S, Cho JH, Kwon JE, Hyeon SH, Jeong YS, Won H, Shin SY, Lee KJ, Kim TH, Kim CJ, Kim SW. Plaque Vulnerability as assessed by patients with valvular calcification. PLoS One. 2016 Nov 2;11(11): e0165885

**Senguttuvan NB**, Sharma SK, Kini A. Percutaneous intervention of chronic total occlusion of anomalous right coronary artery originating from left sinus- Use of mother and child technique using guideliner. Indian Heart Journal, In Press, Corrected Proof, *Available online 18 January 2016*

**Senguttuvan NB**, S. Ramakrishnan, Sandeep Singh, Sundeep Mishra. Percutaneous management of coronary embolism with prosthetic heart valve thrombosis after Bentall's procedure. Indian heart journal 2015 (doi:10.1016/j.ihj.2015.10.372)

**Senguttuvan NB**, Ellozy S, Tejani F, Kovacic J, Kini AS, Sharma SK, Dangas GD.. TAVR through Heavily Calcified Aorta Following Atheroma Retrieval with the "Elevator" Technique. J Invasive Cardiol. 2015 Oct; 27(10):E216-9.

Karthikeyan G, **Senguttuvan NB**, Devasenapathy N, Bahl VK, Airan B. Spontaneous normalization of valve function after failed fibrinolytic therapy for left-sided prosthetic valve thrombosis. J Am Coll Cardiol. 2015 Apr 14; 65(14):1484-5.

**Senguttuvan NB**, Mittal M, Agarwala R. Fountains in the heart-biventricular coronary cameral fistulae and bilateral coronary artery to pulmonary artery fistulae. Indian Heart J. 2014 Nov-Dec; 66(6):740-2.

Kim SW, Mintz GS, Weissman NJ, Lee WS, **Senguttuvan NB**, Kwon JE, Kim H, Seo JS, Seok JW, Kim EY, Hyeon SH, Hong JH, Kim CJ, Cho DY, Kim TH Frequency and evolution of thin-capped fibroatheromas in left main coronary artery as assessed by serial virtual histology intravascular ultrasound analysis. J Invasive Cardiol. 2014 Apr; 26(4):175-9.

Roy A, Khanna N, **Senguttuvan NB**. Rituximab-vincristine chemotherapy-induced acute anterior wall myocardial infarction with cardiogenic shock. *Tex Heart Inst J*. 2014 Feb; 41(1):80-2.

Bisoi AK, Ahmed T, Malankar DP, Chauhan S, Das S, Sharma P, Saxena A, **Senguttuvan NB**. Midterm outcome of primary arterial switch operation beyond six weeks of life in children with transposition of great arteries and intact ventricular septum. *World J Pediatr Congenit Heart Surg*. 2014 Apr; 5(2):219-25.

Karthikeyan G, **Senguttuvan NB**, Joeseeph J, Devasenapathy N, Bahl VK, Airan B. Urgent surgery compared to fibrinolytic therapy for the treatment of left-sided prosthetic heart valve thrombosis - A systematic review and meta-analysis. *Eur Heart J*. 2013 Jun; 34(21):1557-66

**Senguttuvan NB**, Patil NC. Prominent, Rapid, Regular Jugular Venous Pulsations- “Cannon Waves” in Supra Ventricular Tachycardia. *CMAJ*. 2012 Jul 30. [Epub ahead of print]

Sharma G, **Senguttuvan NB**, Singh S, Juneja R, Bahl VK. Percutaneous Transvenous Angioplasty of Left Innominate Vein Stenosis Following Right Side Permanent Pacemaker Implantation- A Left Femoral Vein to Left Axillary Vein Approach. *Indian Pacing Electrophysiol J*. 2012 Nov; 12(6):274-7. Epub 2012 Dec 2.

**Senguttuvan NB**, Goswami KC. Clapping atrio-ventricular valves *Heart*. 2012 Aug 15.

**Senguttuvan NB**, Ramakrishnan S, Gulati GS, Bhargava B. Recurrent pericarditis following Cyanoacrylate glue injection for distal wire induced coronary perforation. *EuroIntervention*. 2012 May 15; 8(1):155-63

**Senguttuvan NB**, Karthikeyan G. Jugular Venous C-V wave in Severe Tricuspid Regurgitation. *N Engl J Med* 2012; 366:e5

Sharma G, **Senguttuvan NB**, Thachil A, Leong D, Yadav R, Naik N, Juneja R, Bahl VK. A Comparison Of Lead Placement Through The Subclavian Vein Technique With Fluoroscopy Guided Axillary Vein Technique For Permanent Pacemaker Implantation- Single Center Prospective Study. *Can J Cardiol*. 2012 May 1. [Epub ahead of print]

Sharma G, **Senguttuvan NB**, Juneja R, Bahl VK. Neurocardiogenic Syncope during a Routine Colonoscopy – An Uncommon Malignant Presentation. *Intern Med*. 2012; 51(8):891-3. Epub 2012 Apr 15.

**Senguttuvan NB**, Patil NC, Kothari SS Aorta to right ventricular tunnel: A Rare cause of holodiastolic flow reversal in aorta in an infant. *Eur J Echocardiogr*. 2011 Nov; 12(11):882. Epub 2011 Aug 24.

**Senguttuvan NB**, Kumar J, Kothari SS. “Treatable” diffuse pulmonary arteriovenous fistula – An unusual cause. *Ann Pediatr Card* 2011; 4:215-6.

Kothari SS, Ramakrishnan S, **Senguttuvan NB**, Gupta SK, Bisoi AK Ductal recanalization and stenting for late presenters with TGA intact ventricular septum. *Ann Pediatr Card* 2011; 4:135-8

Mantziari L, Guha K, **Senguttuvan NB**, Sharma R. Cardiac resynchronization therapy for critically ill patients with left ventricular systolic dysfunction. *Int J Cardiol*. 2011 Jun 12.

**Senguttuvan NB**, Sivaraman A, Kandasamy D, Marimuthu K. Nail patella syndrome: a rare cause of renal failure in a young adult. *Pan Afr Med J*. 2011; 9:31. Epub 2011 Jul 21.

**Senguttuvan NB**, Kandasamy D, Marimuthu M, Kannan A. When Common Diagnosis Is Not Common Enough.... *Intern Med* 50: 3045-3046, 2011

Sivaraman A, Muthukrishnan A, **Senguttuvan NB**, Suchak SA, Kannan U. Predictors of Malignancy in Pancreatic Head Mass: A Prospective Study. *Pan Afr Medl J*. 9, 30, 19 July 2011

Anand V, Strippoli G, Navaneethan SD, **Senguttuvan NB**. Direct renin inhibitors for preventing the progression of diabetic kidney disease. (Accepted as a protocol to The Cochrane Collaboration)

Gopal M, **Senguttuvan NB**, Venkatesan R, Jagannathan V Circadian variation in acute coronary syndromes. *WebmedCentral CARDIOLOGY* 2010; 1(9):WMC00533

**Senguttuvan NB**, Juneja R. Book review on Objective Cardiology. Mahesh Chandra. New Age International. ISBN 978-81-224-2615-1. *Natl Med J India*. 2010 Jul-Aug; 23 (4):246-247.

### **Poster Presentations:**

**Senguttuvan NB**, Kovacic J, Roy S, Kini A, Sharma S. Impact of appropriate use criteria based percutaneous coronary interventions on long term clinical outcomes of patients: A Large volume, single center experience. *J Am Coll Cardiol*. 2014; 63; 12; Supplement April 2014

**Senguttuvan NB**, Kim SK, Mintz GS, Mishra S, Lee WS, Kwon JE, Hyun SH, Kim HK, Seo JS, Seok JW, Kim EY, Hong JH, Lee KJ, Kim CJ, Kim TH. Relationship between valve calcifications and plaque morphology in coronary artery disease: A Virtual Histology Intravascular Ultrasound Study. *J Am Coll Cardiol*. 2013; 61(10\_S).

Sharma G, **Senguttuvan NB**, Yadav R Naik N, Roy A, Juneja R, Bahl. VK A Comparison Of Lead Placement Through The Subclavian Vein Technique With Fluoroscopy Guided Axillary Vein Technique For Permanent Pacemaker Implantation- Single Center Prospective Study. *Heart Rhythm*, Vol 7, No. 5, May Supplement 2010. S307.

Ramakrishnan S, Kukreti BB, Saxena A, **Senguttuvan NB**, Goswami KC, Bhargava B, Seth S, Juneja R, Kothari SS, Bahl VK. Utility of 3-Dimensional Echocardiography in Predicting The

Immediate Outcome Of Percutaneous Transvenous Mitral Commissurotomy. J Am Coll Cardiol. April 5, 2011. Volume 57, Issue 14, E704

**Book Chapters:**

**Senguttuvan NB, Dangas G.** TAVR, Cardiology Secrets, Under Press. Elsevier publishers

**Senguttuvan NB,** Gilbert Tang, Annapoorna Kini. Transseptal Puncture. Principles of Interventional Cardiology, 2nd edition, Under Press. Wiley publishers

**Senguttuvan NB,** Parasuram Krishnamoorthi, Gilbert Tang, Annapoorna Kini. Transcatheter Edge to edge repair. Practical Manual of Interventional cardiology. Second edition. Under Press. Springer publishers

Parasuram Krishnamoorthi, **Senguttuvan NB,** Gilbert Tang, Annapoorna Kini. Transcatheter aortic valve replacement. Practical Manual of Interventional cardiology. Second edition. Under Press. Springer publishers

Bansal R, **Senguttuvan NB** , Karthikeyan G, Ntsekhe M Catheter-Based Evaluation and Treatment of Rheumatic Heart Disease, Acute Rheumatic fever and Rheumatic heart diseases. published by Elsevier.

**Senguttuvan NB,** Muthu G, Managing different clinical issues associated with anti-thrombotics in patients with heart diseases: Case based discussions. API update, 2019

**Senguttuvan NB,** Naik N, Goswami KC. FFR or iFR in clinical practice. CSI Update 2018

**Senguttuvan NB,** Goswami KC, Myocardial viability assessment: What should a clinician know? CSI Update 2018

Goswami KC, VikashK, **Senguttuvan NB.** Sports cardiology. CSI Update 2018

**Senguttuvan NB,** Roy A Complications of Mitral stenosis- By Taylor and Francis: 1st Edition; 2018; eBook Published 6, August 2018

**Senguttuvan NB.** How did FFR change my clinical decisions? - API text book update 2018

**Senguttuvan NB,** NC Patil. Salient practice changing trials in 2016-2017- CSI update 2017.

**Senguttuvan NB,** S Chandra. Multivessel PCI – Cardiologist’s perspective- Coronary angioplasty Evolved to perfection, 2016

**Senguttuvan NB,** S Chandra. Practice changing trials in Cardiology in 2015: APICON update 2016



**Senguttuvan NB**, Sarat Chandra, Rajeev Agarwala- Anti thrombotics in patients with Atrial fibrillation undergoing percutaneous coronary interventions- Atrial fibrillation: Cardiology update, Jaypee brothers publishers

**Senguttuvan NB**, S Chandra. Advances in coronary stent design. CSI cardiology update 2015

**Senguttuvan NB**, R Agarwala. Statins in acute coronary syndrome. Text book of STEMI: Cardiology update 2015, Jaypee brother's publishers

**Senguttuvan NB**, Rajamanickam A, Kini A. Physiological assessment during interventional procedures. Practical Manual of Interventional cardiology. First edition. Page 27-32. Springer publishers

**Senguttuvan NB**, Rao RS, Kini A Chronic total occlusion. Practical Manual of Interventional cardiology. First edition. Page 177-186. Springer publishers

**Senguttuvan NB**, Roy A. Drug –drug interactions in Cardiology. Cardiological Society of India update 2014. 103-108. Jaypee brother's publishers

**Senguttuvan NB**, Gupta A, Bendre P, Agarwala. R Hypertension: Lessons we have learnt in 2014. API 2015 update

### **Endowment Lecture:**

**Senguttuvan NB**. Delivered Dr.A.Karunakaran Endowment Oration at 452<sup>nd</sup> CME Monthly Meeting conducted by IMA, Kodambakkam branch on Sep, 27<sup>th</sup> 2020

**Senguttuvan NB**. Delivered Dr.Sir.A.Lakshmanaswami Mudaliar Endowment Lecture for the year 2016-17 on: "Evolution of Interventional cardiology and its future"

### **Oral Presentations:**

**Senguttuvan NB**. Percutaneous Valve therapies. Presented at Volume2: Use Heart to Beat Heart failure/Heart Attack " session of webinar series on "29th Sept 2020 conducted by SK HF

**Senguttuvan NB**. Bifurcations in Acute Coronary syndrome. Presented at TARGET ZERO meet conducted by Coastal Cardiac Club on Sep 28, 2020

**Senguttuvan NB**. CHIP, Inflammation and CAD. Presented in IDEAL summit conducted by C3RF on Sep, 26, 2020. (Virtual eMeet)

**Senguttuvan NB.** Rotablation: From Evidence to execution: Rotablation Conclave, Boston Scientific, Sep,23,2020. (Virtual eMeet)

**Senguttuvan NB.** Hemodynamic of MCS. Best Interventional cases. Translumina, Sep. 12<sup>th</sup>,2020(Virtual eMeet)

**Senguttuvan NB.** Plaque modification. Best Interventional cases. Translumina, August 29,2020(Virtual eMeet)

**Senguttuvan NB.** Transcatheter Edge to edge repair of Mitral valve: A new paradigm therapy for patients with severe MR. Presented in CHIP-INDIA Summit 2020. August 8,2020(Virtual eMeet)

**Senguttuvan NB.** Spectrum of structural interventions in Valvular heart disease. Webinar based series, Organized by Trichy Cardiac Club. July 25, 2020(Virtual eMeet)

**Senguttuvan NB.** Pacemaker in TAVR. Webinar based series, Organized by Medtronic, June 27,2020 (Virtual eMeet)

**Senguttuvan NB.** Management of complex cardiac interventions pre and peri-Covid era, Webinar based series, May 9, 2020

**Senguttuvan NB.** Transcatheter treatment of severe primary mitral regurgitation using three MitraclipXTrs- New York Transcatheter Valve symposium at Hotel Grand Hyatt, New York, December, 2019

**Senguttuvan NB.** Rotablation in CHIP cases: Complex High risk Interventions (CHIP summit) conducted at Hotel Leela palace, Chennai, July 2019

**Senguttuvan NB.** FFR and imaging in assessment of side branch after LM PCI- National Interventional Council meet, Cardiological Society of India, Lucknow, India, on April 2019

**Senguttuvan NB.** Biomedical Instrumentation and Heart. Hindustan University, on March 15, 2019

**Senguttuvan NB.** Managing different clinical issues associated with anti-thrombotics in patients with heart diseases: Case based discussions: Association of Physicians of India Conference (APICON), 2019 held at Kochi on February 9<sup>th</sup>, 2019

**Senguttuvan NB.** Guide catheters and Guide wires: Tamil Nadu Interventional Council annual meet at Salem, Tamil Nadu, India on Jan 5<sup>th</sup> 2018

**Senguttuvan NB.** Intracoronary Imaging: The third eye for the cardiologist: Cardiac pathology CME, Dept. of Pathology, SRIHER, Chennai

**Senguttuvan NB.** Role of Oxidative stress in Heart failure: Care Hospital, Hyderabad, Dec 1, 2018

**Senguttuvan NB.** Sudden cardiac death in patients with LV dysfunction: Indian perspective, Cardiological Society of India (CSI), 2018, Mumbai

**Senguttuvan NB.** Stent sizing by imaging: 1st imaging PCI (iPCI) conference, Oct 2018, Chennai

**Senguttuvan NB.** Interesting case scenarios: Use of FFR and OCT: TANCSI, Tamil Nadu, Sep 2018

**Senguttuvan NB.** Dyslipidemia-Update: Cardiological Society of India, Kovai branch, August, 2018

**Senguttuvan NB.** Double crush technique: CD based learning, National Holistic Cardiology Conclave, NHCC, Madurai on July 28, 2018

**Senguttuvan NB.** Culotte in acute coronary syndrome: Step by step approach. Complex cardiovascular catheter therapeutics, June 19, 2018, Orlando, USA

**Senguttuvan NB.** Fractional flow reserve: Interpretation and its relevance in Left main and Bifurcation lesions. Fellow's course, National Interventional Council, Cardiological Society of India, 2018, conducted at Hyderabad, May 11, 2018

**Senguttuvan NB.** Approach to Electrocardiogram for MDs: STANCARD, 2018 meet conducted by Dept. of Cardiology, Stanley Medical College, April 7, 2018

**Senguttuvan NB.** Planning Primary PCI: March 24, 2018, Dubai, Cardiology update conducted by Prime Hospitals and C3RF

**Senguttuvan NB.** Derangement of cardiovascular system: Annual Physiology meet conducted by Dept. of Physiology on March 7, 2018, SRM Medical College, Chennai,

**Senguttuvan NB.** How did Fractional flow reserve change my clinical decisions? Case based discussions. Association of Physicians of India Conference (APICON), Bengaluru on February, 2018

**Senguttuvan NB.** Utility of FFR in a patient with post CABG: An ischemia based revascularization. Presented at SingLive2018, Jan 2018

**Senguttuvan NB.** Understanding the hemodynamics behind FFR, CFR and iFR: How to do FFR properly? 6<sup>th</sup> annual Tamil Nadu Interventional Council meet 2018, Madurai, Tamil Nadu, Jan 2018

**Senguttuvan NB.** STEMI- Bifurcations: Cardiological Society of India (CSI), Kolkata, Dec, 2017

**Senguttuvan NB.** Issues in DAPT: ESC@CSI session, Cardiological Society of India, Kolkata, Dec 2<sup>nd</sup>, 2017

**Senguttuvan NB.** Use of FFR in a post CABG patient: AICT meet Nov 12, 2017

**Senguttuvan NB.** Plaque modifications in coronary interventions: Current status. @Madurai Cardiac Society meet, October 2017

**Senguttuvan NB.** Interventional Cardiology – Basics and Beyond: Sri Muthukumaran Medical College, Chennai; Sep 26, 2017

**Senguttuvan NB.** How did FFR change my practice? –June 2017, iPCI focused meet, Chennai

**Senguttuvan NB.** OCT guided PCI in a patient with chronic stable angina and coronary dissections, IndiaLive 2017, New Delhi

**Senguttuvan NB.** Rotaguided revascularization of chronic total occlusion of In stent restenosis of right coronary artery: CTO&LM summit, Chennai, Feb 2017

**Senguttuvan NB.** TAP and its modifications- Tamil Nadu Interventional Council annual meet, Tamil Nadu, Jan 2017

**Senguttuvan NB.** Guidewires- Basics and beyond sessions- Tamil Nadu Interventional Council, 5<sup>th</sup> annual meet, Tamil Nadu, 2017

**Senguttuvan NB.** Electrolytes and ECG- Cardiological society of India- Rhythm Chapter, Patna, 2016

**Senguttuvan NB.** ECG and localization of culprit vessel in AMI- Cardiological society of India- Rhythm Chapter, Patna, 2016

**Senguttuvan NB.** Optical coherence tomography guided Optimization of Percutaneous coronary intervention – Bangladesh Society of Cardiovascular Interventions, September 20, 2016

**Senguttuvan NB.** Utility of three different two stent strategies in real world practice- Demonstration of DK –Crush, Mini crush and V stenting -AICT, Madras Medical Mission, August, 2016

**Senguttuvan NB.** Pharmacoinvasive strategy- the future for our country. STEMI Summit, Hyderabad Live, July 2016

**Senguttuvan NB.** Tailored access is the best- Trans-femoral access for STEMI. STEMI summit, Hyderabad Live, July 2016

**Senguttuvan NB.** Fractional Flow reserve: Concepts, tips, tricks and pitfalls. Indo-French Radial Interventional Course (IFRIC), July 2016

**Senguttuvan NB.** Shooting in the dark -. EuroPCR, 2016; May 17-20, Paris

**Senguttuvan NB.** OCT-guided PCI using V / simultaneous kissing stenting technique for left anterior descending diagonal bifurcation disease. EuroPCR, 2016; May 17-20, Paris

**Senguttuvan NB.** Nightmare in cath lab. IndiaLive, Feb 26-28, New Delhi

**Senguttuvan NB.** How to manage acute vessel closure? Tamil Nadu interventional council meet, Jan 2016

**Senguttuvan NB.** Provisional stenting- When and how? Bifurcation summit, Hyderabad Live 2015

**Senguttuvan NB.** Rota-ablation guided LM stenting using SKS technique. Hyderabad Live 2015

**Senguttuvan NB.** Complex Impella assisted rotablation and Left main stenting: Tamil Nadu interventional council meet, Jan2015

**Senguttuvan NB.** Rotablation guided stenting of protected left main using SKS technique: AICT, Madras Medical Mission, August 2015

**Senguttuvan NB.** Rajamanickam A, Christodoulidis G, Theodoropoulos K, Dangas G. Salvage Percutaneous Revascularization using Impella assist device in a patient with severely calcified distal left main bifurcation disease. TCT 2013; Oct 27-Nov 3, San Francisco

**Senguttuvan NB,** Ellozy S, Tehrani F, Kovacic J, Kini A, Sharma S, Dangas G. TAVR through heavily calcified aorta following atheroma retrieval with “Elevator technique” and Infrarenal fixation with stenting. TCT 2013; Oct 27-Nov 3, San Francisco

**Senguttuvan NB,** Mishra S, Singh S, Gulati G, Bahl VK. Percutaneous Coronary Revascularization for Coronary embolism with prosthetic valve thrombosis following Bentall’s Procedure. Presented at the Award Paper sessions, National Interventional Council mid-term meet 2012; April 27 to 29, Kochi, India

**Senguttuvan NB,** Ramakrishnan S, Gupta SK, Saxena A, Juneja R, Kothari SS. Perforating pulmonary valve – modified mechanical technique and utility of coronary hardware Presented at the National Interventional Council mid-term meet 2012; April 27 to 29, Kochi, India

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