

Nagendra Boopathy Senguttuvan M.D., D.M., FACC., FSCAI

Professor of Cardiology,
Senior Consultant Interventional Cardiologist,
Specialist in Complex Coronary interventions , TAVI and Mitraclip,
Department of Cardiology,
Sri Ramachandra Institute of Higher Education and Research,
Chennai,

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Education and Postgraduate Training

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	Acting 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

March 2005 - Present	Tamil Nadu Medical Council; Medical Council of India
Jan 2013- Dec 2013.	New York State Medical License- Permit

June 2019 – June 2020 New York State Medical License- Permit
September 2020- current Full time New York state Medical License (307482)
Nov 2011 - Present Educational Commission for Foreign Medical Graduates (ECFMG)

Work Experience

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

2023 Ambassador to EuroPCR 2023
2022 Ambassador to AICT-PCR 2022
2021 Finalist for Thomas J. Linnemeier Spirit of Interventional Cardiology Young
Investigator Award
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

- 2022- Present Fellow of Cardiological society of India (FCSI)
- 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 Member of Cardiological Society of India (CSI)
- 2005 - Present Tamil Nadu Medical Council, India

Academic and Editorial Positions

- 2023 Advisory committee: Advisory Committee Meeting - Emergency Cardiac Loading Dose Drugs and to Frame Guidelines, Govt. of Tamil Nadu.
- 2023 Course coordinator, Cardiology Master class series
- 2023 Course co-director , Indiavalves 2023
- 2023 Course co-director , CVT, India, 2023
- 2023 Course co-director & Organizing committee CHIP-INDIA summit,2023
- 2022 Organizing committee & Interventional hub coordinator for CSI2022, Chennai
- 2022 Course co-director, CVT, India, New Delhi
- 2022. Social ambassador for AICT/AsiaPCR,2022
- 2022 Scientific committee member for iPCI,2022
- 2022 Co-director for Indiavalves, 2022
- 2022 Organizing committee TIC, 2022
- 2022 Editor: Heart of Ramachandra, 2022
- 2022 Organizing Committee CSI,2022
- 2022 Organizing Committee Tamil Nadu Interventional Council, 2022
- 2022 Course coordinator, Cardiology Master class series

2021	Course coordinator, Cardiology Master class series
2021	Coordinator Cardiology Master Class, PHFI
2021	Scientific Committee- ISECON
2020	Program coordinator- IDEAL Summit
2020	Program Coordinator- CME web series for Postgraduates
2019 - Present	Assistant Editor, Indian Heart Journal Cardiovascular case reports
2019	Course Co-director Best of Ultrasonography and Rota-ablation, India
2019	Course Co-director, Complex High risk Interventions (CHIP summit)
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

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)

Effect of SGLT2 inhibitors on mRNA expression in patients with heart failure with reduced ejection fraction (HFrEF); Proposal ID - 2022-1294; Research area: Metabolic Disorders: Department of Health Research

Co-investigator: Assistive Diagnostic software for Automated Coronary Blockage Detection using Angiogram Videos MSME Reference Number: INC22BTN010050

Publications:

Senguttuvan NB, Bhatt H, Balakrishnan VK, Krishnamoorthy P, Goel S, Reddy PMK, Subramanian V, Claessen BE, Kumar A, Majmundar M, Ro R, Lerakis S, Jayaraj R, Kalra A, Flather M, Dangas G. The safety and efficacy of balloon-expandable versus self-expanding trans-catheter aortic valve replacement in high-risk patients with severe symptomatic aortic stenosis *Front Cardiovasc Med*. 2023 May 25;10:1130354. doi: 10.3389/fcvm.2023.1130354. eCollection 2023.

Ramamurthy MT, Balakrishnan VK, Vallivedu MV, **Senguttuvan NB**, Manokar P, Sankaran R, Sadhanandham S, Balasubramanian JV, Rathinasamy J, Krishnamurthy P, Sundaram S, Murthy

JSS, Thanikachalam S, Pogwizd S, Hoidal JR, Namakkal-Soorappan R. Improved Diagnosis through Diastolic Hyperemia-Free Ratio (DFR) over Fractional Flow Reserve (FFR) in Intermediate Coronary Lesions. *Cardiol Cardiovasc Med.* 2023;7(2):108-116. Epub 2023 Apr 4.

Elkoumy A, Jose J, Gunasekaran S, Kumar A, ... **Senguttuvan NB**, Baumbach A, Serruys PW, Soliman O. Angiographic quantification of aortic regurgitation following myval octacor implantation; independent core lab adjudication.. *Int J Cardiol.* 2023 Jul 1;382:68-75. doi: 10.1016/j.ijcard.2023.04.003. Epub 2023 Apr 5.

Ramakumar V, Thakur A, Abdulkader RS, ..., **Senguttuvan NB**. Coronary stent infections - A systematic review and meta-analysis. *Cardiovasc Revasc Med.* 2023 Mar 8:S1553-8389(23)00077-5. doi: 10.1016/j.carrev.2023.02.021.

Senguttuvan NB, Singh H, Kumar BV, et al., Safety and efficacy of OPN balloon in patients with calcified coronary artery disease. *Cardiovasc Revasc Med.* 2023 Feb 23:S1553-8389(23)00074-X. doi: 10.1016/j.carrev.2023.02.018.

Thoddi Ramamurthy M, Kumar Balakrishnan V, Sunny S, ., **Senguttuvan NB**, et al., Case report: Metastatic myxoid liposarcoma arising from the right atrium extends as cardiac tamponade-A rare case of atrial oncology. *Front Cardiovasc Med.* 2023 Jan 26;9:1046436. doi: 10.3389/fcvm.2022.1046436.

Moscarella E, Ielasi A, ... **Nagendra Boopathy Senguttuvan**..Tespili M., Transcatheter valve-in-valve or valve-in-ring implantation with a novel balloon-expandable device in patients with bioprosthetic left side heart valves failure: 1-year follow-up from a multicenter experience.. *Int J Cardiol.* 2023 Jan 16:S0167-5273(23)00058-X. doi: 10.1016/j.ijcard.2023.01.017

Ali Omar, Nagendra Boopathy Senguttuvan et al., Meta-Analysis Comparing Fractional Flow Reserve and Angiography-Guided Complete Revascularization of Nonculprit Artery for ST-Elevation Myocardial Infarction. *Am J Cardiol* 2022;183:8–15

Nagendra Boopathy Senguttuvan et al., Trans-Radial Approach Versus Trans-Femoral Approach in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: An Updated Meta-Analysis of Randomized Controlled Trials. *PLoS ONE* 17(4): e0266709.

Nagendra Boopathy Senguttuvan et al., Beware of Bumpy roads in Coronaries: " Don't Trust FFR in Accordion Effect". *JACC Cardiovasc Interv.* 2022 May 23;15(10):1087-1088

Nagendra Boopathy Senguttuvan et al., Procedural Safety and Long-Term Clinical Outcomes in Patients Receiving Ultra-Long Everolimus-Eluting Stent: A Single-Center Real-World Experience. *Cardiol Res.* 2022;13(2):104-109

Nagendra Boopathy Senguttuvan, Vinodhini Subramanian, V Vettriselvi, Muralidharan T R, Kavitha Sankaranarayanan. Clonal hematopoiesis of indeterminate potential (CHIP) and cardiovascular diseases - An updated systematic review. *Journal of Genetic Engineering and Biotechnology*.(19): 105 (2021)

Muralidharan TR, Vinod Kumar Balakrishnan, Preetam Krishnamurthy. **Senguttuvan NB**. . COVID-19 and its impact on the management of patients with acute coronary syndrome during the first COVID wave – A questionnaire-based survey among interventional cardiologists from Southern India. *J Pract Cardiovasc Sci* 2021;7:219-24

Senguttuvan NB et al., Comparison of the effect of Morphine and fEntanyl in patients with acute coronary syndrome -The COMET randomized controlled trial. Published online: February 15,2021 <https://doi.org/10.1016/j.ijcard.2021.02.037>

Fang Y, Aravamudan VM, Sridharan GK, Mehta KK, Sekhar R, **Senguttuvan NB**, Venkatachalam I, Abid MB. Kawasaki like illness due to COVID-19: a review of the literature. *J Infect Dev Ctries*. 2021 May 31;15(5):630-638. doi: 10.3855/jidc.14185.

Muralidharan TR.... **Senguttuvan NB**. Clinical Profile and Management of Patients with Acute Pulmonary Thromboembolism- A single centre, observational study from India. *Pulmonary Circulation*, vol. 11, 1, First Published February 16, 2021.

Senguttuvan NB et al. Effect of discontinuation of ticagrelor and switching-over to other P2Y12 agents in patients with acute coronary syndrome: a single-center real-world experience from India. *The Egyptian Heart Journal* <https://doi.org/10.1186/s43044-020-00128-3>

MuralidharanTR, 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

Vadivelu R, **NB Senguttuvan**, R Rajendran, Jeyashree K, Subramanian A, VinodKumar B , Ramesh S, Muralidharan TR. Improvement in Clinical Outcomes, Right Ventricular Function and Pulmonary Artery Hypertensions after Half Dose Thrombolysis in Patients with High Risk Sub-Massive Pulmonary Thromboembolism. *J. Evolution Med. Dent. Sci.* 2019;8(34): 2681-2686,

Senguttuvan NB, Subramanian A, Agarwal G, Mishra S, Bahl VK. Association of Cytokines IL6, IL10, IL18, TNF α 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

Senguttuvan NB, Jain S, Rajendran R, Dhawan V, Bahl A, Varma SC. Assessment of Endothelial Function in Patients with Takayasu Arteritis by Measuring Flow-Mediated Vasodilation and Correlating it with Plasma Levels of Reactive Nitrogen Intermediates. *J. Evolution Med. Dent. Sci.* 2019;8(32):2563-2567

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.ijjccr.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- “Canon 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.

Senguttuvan NB, et al. Safety Utility of Super-high pressure OPN balloon in ISR: A single center experience. Under review

Senguttuvan NB, et al. TAP is better than Chimney. Management of acute coronary occlusion post transcatheter aortic valve replacement. Under review

Senguttuvan NB, et al. Dancing iris in a patient with aortic regurgitation. Under review

Senguttuvan NB, et al. A Systematic review and Meta-analysis of Early Aortic Valve Replacement Versus Conservative therapy in Patients with Asymptomatic Aortic Valve Stenosis with Preserved Left Ventricle Systolic Function: Not Quite Yet : Under review

Poster Presentations:

Senguttuvan NB. Super-high pressure OPN balloon : A single center experience. Presented at EuroPCR, Paris on May 17th, 2022

Goel S,....Senguttuvan NB. Risk Factors For COVID-19 Related Mortality- A Systematic Review And Meta-Analysis Of 26 Studies And 9690 Patients. *J Am Coll Cardiol.* 2021 May, 77 (18_Supplement_1) 3132

Johal G, **Senguttuvan NB**, Masoomi R, Goel S, Vengrenyuk A, Kyaw H, Sharma S, Kini A. COMPLICAID: development of a novel web application focused on avoidance and management of PCI related complications, a vital tool for trainees and early career interventionalists. *J Am Coll Cardiol.* 2021 May, 77 (18_Supplement_1) 3352

Ruia AK, Muralidharan TR, **Senguttuvan NB**, Vinokumar B, Vallivedu MV, Ramkumar B, Thanikachalam S, Sankaran R, Panchanatham M, Murthy J, Sadhanandham S, Balasubramaniam J. Clinical Profile and Management Of Patients With Acute Pulmonary

Thromboembolism: A Large Experience From A Quaternary Care Centre From Southern India. J Am Coll Cardiol. 2020 Mar, 75 (11_Supplement_1) 2247

Ro R, Lerakis S, Seetharam K, Bande P, Krishnamoorthy P, **Senguttuvan NB**, Tang G, Park G, Dangas G, Sharma S, Kini A Acute Left Atrial Strain Changes Before And After Transcatheter Aortic Valve Replacement. J Am Coll Cardiol. 2020 Mar, 75 (11_Supplement_1) 1772

Lerakis S, Ro R, Seetharam K, Bande P, Kumar K, Wenli Z, Krishnamoorthy P, **Senguttuvan NB**, Tang G, Dangas G, Sharma S, Kini A. Left Ventricular Cardiac Mechanics Improve In Patients Post Transcatheter Aortic Valve Replacement Regardless Of Baseline Left Ventricular Function. J Am Coll Cardiol. 2020 Mar, 75 (11_Supplement_1) 1557

Lerakis S, Ro R, Wenli Z, Seetharam K, Krishnamoorthy P, **Senguttuvan NB**, Tang G, Stone G, Sharma S, Kini A. Acute Changes In Left Ventricular Cardiac Mechanics After Mitraclip Treatment Of Mitral Regurgitation. J Am Coll Cardiol. 2020 Mar, 75 (11_Supplement_1) 1757

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. April5, 2011. Volume 57, Issue 14, E704

Book Chapters:

Nagendra Boopathy Senguttuvan, Ravindra Singh Rao. Transcatheter Aortic Valve Replacement: Where Do We Stand in 2023? CSI Update, 2023

Sindhura Koganti, **Nagendra Boopathy Senguttuvan**, **Vijayalakshmi** Thanasekaraan. Differences in clinical manifestation of deep vein thrombosis & pulmonary embolism in women and men. Under Press

Senguttuvan NB, Dangas G. TAVR, Cardiology Secrets, Elsevier publishers

Rao RS, Senguttuvan NB. Coronary artery disease and Transcatheter aortic valve implantation. Cardiology Update, CSI 2021

JSN Murthy, Badimela P, **Senguttuvan NB**, Balasubramanian JV. Impella and Preload the LV. Cardiology Update, CSI 2021

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

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

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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.Karunagaran Endowment Oration at 452nd CME Monthly Meeting conducted by IMA, Kodambakkam branch on Sep,27th 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. The role of a cardiologist in the Prevention of stroke. Presented at the sixth annual congress of Society of Neuro Vascular Interventions, Chennai, October, 2023

Senguttuvan NB. Imaging essentials and Step by step- TAVR at TANCS meeting 2023, Kodai Kanal, Sep 2023

Senguttuvan NB: Choose the right choice: DOACs, Presented at CSCCON 2023, August 13,2023, Coimbatore

Senguttuvan NB: Calcified nodule and acute coronary syndrome, Presented at iPCI, August 12th, 2023

Senguttuvan NB: Advancement in valve therapies: Presented at TAPICON, 2023, August 4, 2023, Trinelveli

Senguttuvan NB: BEV versus SEV in high-risk surgical patients with severe AS, Presented at TAVI NOW meet, 2023, Mumbai

Senguttuvan NB: OPN balloon experience from a single Centre: Presented at NIC, June 29,2023, Hyderabad

Senguttuvan NB: TAVR- Step by step: Fellow's course: Presented at CHIP INDIA Summit, 2023, July 21, 2023 Chennai

Senguttuvan NB. Rising cardiovascular diseases post COVID: How do we approach? Presented at Mid-TAPICON, Rameshwaram, May 29th, 2023

Senguttuvan NB et al. Utility of a novel SEV in a complicated bilateral aortic iliac disease. Presented at EuroPCR, Paris on May 16th, 2023.

Senguttuvan NB. Proximal Optimization technique. Presented at EuroPCR, Paris on May 17th, 2023.

Senguttuvan NB et al. TAVR in a severe PAD. Presented in IndiaLive, Chennai, March, 2023

Senguttuvan NB et al. Coronary Stent Infection: A Systematic Review. Presented Late breaking clinical Sciences Cardiovascular Revascularization Technologies, 2023 between Feb 24-Feb 28 at Washington DC

Senguttuvan NB et al. Procedural Safety and Efficacy of super-high pressure OPN balloon in patients with moderate to severely calcified coronary artery disease - A Single centre Real World Experience From India. Best oral abstract presentations session, at Cardiovascular Revascularization Technologies, 2023 between Feb 24-Feb 28 at Washington DC

Senguttuvan NB et al. Type 1 bicuspid aortic valve, heavily-calcified leaflets and raphe with coronary artery disease - How did we manage? Presented at PCR Tokyo Valves 2023

Senguttuvan NB. Alternate access for TAVR. Presented at Cardiological Society of India, 2022, Chennai on Dec 11th, 2022

Senguttuvan NB. Trans-catheter therapies for structural heart diseases (non-aortic) presented at Association of Physicians of India, Chennai Chapter, Chennai on Dec 3rd, 2022

Senguttuvan NB. Small annulus, shallow sinus and short septal length in a patient with recurrent ISR of LAD : How did we approach? Presented at IndiaValves, Goa, Sep 2022

Fractional Flow Reserve in bifurcation lesions. Presented at iPCI meet, Kochi, 13th Aug 2022

Senguttuvan NB. Salvage PCI in a Post Covid patient with DKA, recent CABG. Presented at CVT India meet on Aug 2022

Senguttuvan NB. Left main Rescue PCI using TAP rather than Chimney post TAVR. Presented at CSI, Frankfurt, on June 23rd 2022

Senguttuvan NB. TAVR Live in box. Presented at Tamil Nadu interventional Council meet, June 2022

Senguttuvan NB. Saving Heart and salving Limb. Presented at EuroPCR, Paris on May 17th, 2022

Senguttuvan NB. TAVR Strategy for Lifetime management of AS Patients. Presented at the 68th annual conference of the Indian Association of Cardio-Thoracic Surgeon , Jaipur, April 08, 2022

Senguttuvan NB. Transcatheter Aortic valve replacement: Simple to Complex. Presented at Indian Association of cardio-thoracic anesthesiologist's conference, Madurai on March 26, 2022

Senguttuvan NB. Plaque modification: Evidence to execution. Lecture delivered to DNB students through National board curriculum on a virtual platform Feb, 2022 (Virtual eMeet)

Senguttuvan NB. Selecting right valve in TAVR. Delivered at TAVR summit, Jaipur, Feb 2022

Senguttuvan NB. Approach to NSTEMI. Lecture delivered to DNB students through National board curriculum on a virtual platform on Jan, 15,2022 (Virtual eMeet)

Singh HS, **Senguttuvan NB.** The Anatomy and Physiology of Accordion effect. Presented at TCT, 2021 (Virtual eMeet)

Senguttuvan NB. Percutaneous revascularization of a calcified Left main and triple vessel disease presented virtually at COMPLEX PCI 2021(Virtual eMeet)

Senguttuvan NB. Transcatheter Edge to Edge repair in SMR @ Minimalistic THV meet at Mumbai, October 9th, 2021 (Virtual eMeet)

Senguttuvan NB. Live in Box presentation of TAVR, Presented at TANCSI, 2021 meet at Trinelveli (Virtual eMeet)

Senguttuvan NB. Using FFR In The Cath Lab: Getting The Basics Right. STEMI Council CSI - National Conference 2021 at New Delhi on a virtual platform on 25th & 26th September 2021 (Virtual eMeet)

Senguttuvan NB. Myosin activators in Heart failure. Presented at HFAI, on Feb14th, 2021(Virtual eMeet)

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 (Virtual eMeet)

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

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)

SenguttuvanNB. Hemodynamic of MCS. Best Interventional cases. Translumina, Sep. 12th,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 9th, 2019

Senguttuvan NB. Guide catheters and Guide wires: Tamil Nadu Interventional Council annual meet at Salem, Tamil Nadu, India on Jan 5th 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? 6th 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 2nd, 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, 5th 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 Fransisco

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

Ramakrishnan S, **Senguttuvan NB**, Sharath K, Saxena A, Kothari SS, Sharma S, Juneja R, Gulati G, Jagia P, Bahl VK. Non-Specific Aortoarteritis Presenting As ADHF In Children: Immediate And Short-Term Outcome Of Renal Angioplasty. Presented at the National Interventional Council mid-term meet 2012; April 27 to 29, Kochi, India

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Senguttuvan NB, Jain S, Dhawan V, Khandelwal N, Bahl A, Varma S. An Assessment of Endothelial Function in Patients with Takayasu’s Arteritis by Flow Mediated Vasodilatation. 17th Asia Pacific Congress of Cardiology 2009, May20-23; Kyoto, Japan.

Senguttuvan NB, Jain S, Dhawan V, Khandelwal N, Bahl A, Varma S. Takayasu’s Arteritis and the Role of nitric oxide 17th Asia Pacific Congress of Cardiology, 2009, Kyoto, Japan May 20-May23.

Senguttuvan NB, Ramakrishnan S, Gulati GS, Seth S, B Bhargava. Use of Cyanoacrylate glue for distal wire induced coronary artery perforation. Paper presented at: Cardiology Society of India, Mid-term National Intervention council meet; April 2010

Senguttuvan NB, Ramakrishnan S, Kothari SS, Bisoi AK. Ductal recanalization and stenting for late presenters with TGA intact ventricular septum. Paper presented in the Young Investigator Award Session at: 12th Annual pediatric cardiac society of India conference; 2010.

Senguttuvan NB, Ramakrishnan S, Dabral H, Saxena A, Bahl VK. Serial Changes in Tissue Velocities & Longitudinal Strain in Normal Neonates. Paper presented in Travel award Paper session at 62nd Annual Conference of the CSI; 2010.

Senguttuvan NB, Malhotra P, Varma N, Jain S, kumari S, Varma SC. Outcome of Adult B-cell. Acute Lymphoblastic Leukemia patients presenting with osteolytic lesions and hypercalcemia. Paper presented at; 47th Annual Conference of Indian Hematological society; 2006