



## **DR. SREEDHARA B C**

Consultant - Interventional Radiology

### **Qualification**

MBBS | MD | FVIR | EBIR

### **Overview**

Dr. Sreedhara B C is a distinguished Interventional Radiologist in Bangalore with 23 years of rich professional history with extensive clinical, research, and teaching experience from the premier institutes of this country during under-graduation, post-graduation, and intervention radiology fellowships. He's currently practising as a Consultant in interventional Radiology at Manipal Hospital Sarjapur, Bangalore. With a strong academic background and a commitment to medical excellence, Dr. Sreedhara has established himself as a leading expert in Interventional Radiology. Dr. Sreedhara B C is also an expert in Interventional Oncology - Cryoablation, Irreversible electroporation (IRE), Microwave and Radiofrequency ablation, Transarterial chemoembolization (TACE), and Transarterial radioembolization (TARE). To his credit, he is part of the IR team that did 1st Cryoablation in India and IRE in Southeast Asia and has published research papers on it. He is extensively trained in hepatobiliary interventions, especially in complex procedures like TIPS, DIPS, BRTO, CARTO, PARTO, Hepatic vein stenting, and IVC stenting for Budd Chiari syndrome, and has published papers and posters at various national and international

conferences, and written a book chapter. Dr. Sreedhar's academic journey began with an MBBS degree from Bangalore Medical College and Research Institute in 2008. He further pursued an MD - Radiodiagnosis from the prestigious institute of national importance, PGIMER, Chandigarh, which he completed in 2012. His quest for specialization led him to achieve a Fellowship in Interventional Radiology from the same institute in 2017. In 2021, he earned the prestigious European Board of Interventional Radiology certification. Dr. Sreedhar also served as an Assistant professor (2017-21) and Associate Professor(2021-24) in the Department of Radiodiagnosis & Interventional Radiology at PGIMER. Dr. Sreedhara B C has made excellent contributions to medical science with more than 70 research publications as of date with an h-index of 12, and an i10-index of 13 signifying his contribution to research and patient care. He has authored six book chapters and delivered more than 40 invited lectures in various national and international forums. His work has earned him several awards, including the N Ramadas Best Paper Research Award, and the 21st Kakarla Subba Rao Gold Medal for his thesis as a main guide in 2021. He is also the recipient of a prestigious ISVIR-SIR international fellowship (2024) through which he has done his Observership-Fellowship in Interventional Radiology from Harvard Medical School, USA. He was awarded the Best Reviewer Award from JCIR (Journal of Clinical and Interventional Radiology) for the year 2023. He has also been awarded travel fellowships to participate in international conferences by ISVIR and SERB. Dr. Sreedhara B C's notable publications in the journal of international repute include IRE for HCC, cryoablation of liver tumours and renal tumours, and geniculate artery embolization for osteoarthritis of knee - The first such research and publications from India in these treatments. Similarly, he has also published the largest case series on percutaneous glue and thrombin embolization for visceral artery aneurysms and Y-90 TARE for advanced hepatocellular carcinoma - the largest case series from India. He is also part of a distinguished national committee to draw

various guidelines on patient management and interventions in Hepatocellular carcinoma (HCC) and prevention of DVT in pelvic-acetabular trauma. Dr. Sreedhara is an active member of several professional bodies, including the Indian Society of Vascular and Interventional Radiology (ISVIR), the Indian Radiological and Imaging Association (IRIA), the Cardiovascular and Interventional Radiological Society of Europe (CIRSE), the Society of Interventional Radiology (SIR), and the Asia Pacific Society of Cardiovascular and Interventional Radiology (APSCVIR). He has held positions like Joint Secretary of the Chandigarh Chapter of IRIA (2022-23), Executive Committee Member of ISVIR (2022-23), and Treasurer of the Chandigarh, Punjab, and Himachal Pradesh State Chapter of ISVIR (2023-24). Dr. Sreedhara's career is a testament to his dedication to advancing the field of interventional radiology. His academic achievements, professional affiliations, and extensive research contributions help to improve patient care and foster medical innovation.

### **Fellowship & Membership**

- Fellowship in Vascular and Interventional Radiology (PGIMER Chandigarh)
- European Board of Interventional Radiology (Vienna)
- ISVIR-SIR fellowship (Harvard Medical School, Boston)
- Life member of the Indian Society of Vascular Interventional Radiology
- Life member of the Indian Radiological and Imaging Association
- Life member of the Asia Pacific Society of Cardiovascular and Interventional Radiology
- Member of the Cardiovascular and Interventional Radiological Society of Europe
- Member of Society of Interventional Radiology, USA.

## Field of Expertise

- Interventional Oncology - Cryoablation, IRE. Microwave ablation, TACE, TARE
- Hepatobiliary Interventions- PTBD, Percutaneous cholecystogram, Biliary stenting, TIPS, DIPS, Portomesenteric thrombosis recanalization.
- Venous Interventions - DVT recanalization, IVC filter, Fistuloplasty, Central venous stenosis recanalization and stenting.
- Fibroid Embolisation, Uterine artery Embolisation for PPH
- Urological Interventions - Ureteric stenting, Varicocele embolization, Nephrostomy
- Ultrasound and CT-guided biopsy & drainage
- Emergency embolization for bleeding

## Languages Spoken

- Kannada
- English
- Hindi

## Awards & Achievements

- Awarded ISVIR-SIR international fellowship 2024 for training at the prestigious Harvard Medical School, Boston USA.
- Awarded best reviewer award by JCIR at ISVIR 2024 held in Jaipur.
- Awarded a Travel grant from SERB to attend the annual conference of CIRSE, held in Copenhagen, Denmark in September 2023.
- N Ramadas Best Paper Research award for the year 2021 from

IRIA and Gold Medal in the 21st Kakarla Subba Rao Gold Medal Competition for Best Paper Presentation for my thesis as a main guide on 'Correlation of diffusion-weighted imaging with treatment response in patients with hepatocellular carcinoma following transarterial chemoembolization'.

- 1st Prize for poster presentation in IRIA 2019 for E poster titled 'Role of ablative therapies in the management of intrabdominal solid tumours.
- Awarded Travel fellowship from ISVIR to attend international conference "Global embolization symposium at New York- May 2020".
- Awarded a Travel grant from SERB to attend the annual conference of CIRSE, held in Barcelona, Spain in September 2019.

### **Talks & Publications**

- Irreversible Electroporation for Unresectable Hepatocellular Carcinoma: Initial Experience. N Kalra, P Gupta, U Gorski, SB Chaluvashetty, A Duseja et al. Cardiovasc Interventional Radiology. 2019 Apr;42(4):584-590. doi: 10.1007/s00270-019-02164-2.
- Percutaneous cryoablation of Liver Tumors; Initial experience from a tertiary care center in India. N Kalra, P Gupta, T Jugpal, SB Chaluvashetty et al. JCEH -2020 doi: 10.1016/j.jceh.2020.10.005.
- Efficacy of Yttrium-90 Transarterial Radioembolisation in Advanced Hepatocellular Carcinoma: An Experience With Hybrid Angio-Computed Tomography and Glass Microspheres. A Baloji, N Kalra, SB Chaluvashetty et al. Journal of Clinical and Experimental Hepatology, Volume 14, Issue 3, 101342.
- Percutaneous Cryoablation of Renal Tumors: Initial Indian

- Experience. U Gorski, R Jain, A Bansal, SB Chaluvashetty, N Kalra, M Kang et al. *Journal of Clinical Interventional Radiology ISVIR* DOI: 10.1055/s-0041-1740570.
- Percutaneous glue embolization as a primary treatment for visceral pseudoaneurysms. U Gorski, SB Chaluvashetty, N Kalra, M Kang, Lal A, et al. *Minimally Invasive Therapy & Allied Technologies*, 2019 Apr 23:1-7 DOI: 10.1080/13645706.2019.1606019
  - Interventional radiology in the management of uncommon causes of obstetric haemorrhage. SB Chaluvashetty, U Gorski, A Bansal, A Lal, N Kalra, M Kang et al. *Eur J Radiol*. 2021 Jan;134:109415. doi: 10.1016/j.ejrad.2020.109415. Epub 2020 Nov 17. PMID: 33278733.
  - Safety and Efficacy of Genicular Artery Embolization for the Treatment of Knee Pain Secondary to Osteoarthritis-Initial Indian Experience. Gorski U, Singh D, Kang M, Kumar V, Prakash M, Sreedhara BC. *Indian J Radiol Imaging*. 2023 Aug 16;34(1):37-43. doi: 10.1055/s-0043-1771159. PMID: 38106876; PMCID: PMC10723963.
  - Utility of percutaneous thrombin injection for treating visceral pseudoaneurysms, Gorski U, Agarwal V, Yaser M, Kalra N, Chaluvashetty SB et al. *Minimally Invasive Therapy & Allied Technologies*, 2020 Jan 31:1-5. DOI: 10.1080/13645706.2020.1720251
  - Indian College of Radiology and Imaging Guidelines on Interventions in Hepatocellular Carcinoma. Gupta P, Kalra N, Chaluvashetty SB, Gamangatti S, Mukund A, Abdul R, Shyam VS, Baijal SS, Mohan C. *Indian J Radiol Imaging*. 2022 Sep 19;32(4):540-554. doi: 10.1055/s-0042-1754361. PMID: 36451961; PMCID: PMC9705149.
  - Indian Society of Vascular and Interventional Radiology Expert Consensus Statements for Ablation in Hepatocellular Carcinoma: Part I P Gupta, N Kalra, SN Keshava, SB

- Chaluvashetty et al. Journal of Clinical Interventional Radiology ISVIR 2020; 4(02): 098-106 DOI: 10.1055/s-0040-1715774.
- Indian Society of Vascular and Interventional Radiology Expert Consensus Statements for Ablation in Hepatocellular Carcinoma: Part II P Gupta, N Kalra, SN. Keshava, SB Chaluvashetty et al. Journal of Clinical Interventional Radiology ISVIR 2020; 4(03): 175-183 DOI: 10.1055/s-0040-1715775.
  - Percutaneous transthoracic embolisation for massive haemoptysis secondary to peripheral pulmonary artery pseudoaneurysms. Lal, A., Bansal, A., Chaluvashetty, S.B. et al. Eur Radiol 31, 2183–2190 (2021).  
<https://doi.org/10.1007/s00330-020-07348-w>
  - Endovascular management of massive hemoptysis secondary to systemic collaterals in previously treated pulmonary AVM. U Gorski, A Bansal, SB Chaluvashetty et al. Vasc Endovascular Surg. 2019 Aug 20:1538574419870433. doi: 10.1177/1538574419870433.
  - Guidelines for the prevention of venous thromboembolism in hospitalized patients with pelvi-acetabular trauma. S Aggarwal, S Patel, S Vashisht, V Kumar, I Singh, SB. Chaluvashetty et al. Journal of Clinical Orthopaedics and Trauma, Volume 11, Issue 6, 2020, Pages 1002-1008,  
<https://doi.org/10.1016/j.jcot.2020.09.011>.
  - Interventional radiology management of renal pseudoaneurysm: Experience at a tertiary care hospital. Gorski U, Lal A, Chaluvashetty SB et al. Journal of Clinical Interventional Radiology ISVIR 2020; 4(02): 083-087 DOI: 10.1055/s-0040-1715026.
  - Endovascular and percutaneous transabdominal embolisation of pseudoaneurysms in pancreatitis: an experience from a tertiary-care referral centre, U. Gorski, V. Agarwal, V. Nair, M. Kang, N. Kalra, B.C. Sreedhara, R. Gupta, S.S. Rana, U. Dutta, M.S. Sandhu, Clinical Radiology, Volume 76, Issue 4, 2021,

Pages 314.e17-314.e23,

<https://doi.org/10.1016/j.crad.2020.12.016>.

- Freeze-dried microspheres for selective intra-arterial radionuclide therapy: an affordable solution, Shukla, Jaya; Kalra, Naveen; Mittal, Bhagwant Rai; Duseja, Ajay; Kumar, Rajender; Singh, Harmandeep; Chaluvashetty, SB et al. Nuclear Medicine Communications: August 2020 - Volume 41 - Issue 8 - p 817-823 doi: 10.1097/MNM.0000000000001225.
- Interventional radiology and COVID-19: How to face the challenge? SB Chaluvashetty, N Kalra, H Bhujade, SN Keshava, C Mohan. Indian J Radiol Imaging. 2021 Jan;31(Suppl 1):S38-S44. doi:10.4103/ijri.IJRI\_351\_20.
- Response Assessment Following Image-Guided Therapy of Hepatocellular Carcinoma. Pankaj Gupta, Naveen Kalra, Ajay Gulati, Vishnu Dev, Ujjwal Gorski, Sreedhara B. Cheluvashetty et al. ISVIR 2020; 4(02): 088-097 DOI: 10.1055/s-0040-1708579.
- Radiological Imaging in Chest Diseases: Moving Away from Conventional Modes. Bhatia A, Jana M, Chaluvashetty SB, Saxena AK, Sodhi KS. Indian J Pediatr. 2023 Aug;90(8):798-805. doi: 10.1007/s12098-023-04615-8. Epub 2023 Jun 5. PMID: 37273132.
- Intrahepatic Arterioportal Fistula: A Rare Cause of Portal Hypertension After Deceased Donor Liver Transplant. Akash Roy, Sunil Taneja, Arunanshu Behera, Lileswar Kaman, Naveen Kalra, Sreedhara B. Chaluvashetty et al. Exp Clin Transplant. 2020 Aug 7. Vol: 18(5) 645-648 doi: 10.6002/ect.2020.0119.
- A case of amoebic liver abscess complicated by bilhaemia and venous thrombosis. Goel R, Roy A, Ray D, Chaluvashetty SB, De A. Tropical Doctor. December 2020. doi:10.1177/0049475520975948
- Efficacy of empirical Ciprofloxacin or Cefixime plus Metronidazole therapy for the treatment of liver abscess: a randomized control clinical trial. Priya G L, Dhibar DP, Saroch A,

- Sharma N, Sharma V, Verma N, Chaluvashetty SB, Prakash A, Kaur H. *Sci Rep.* 2024 May 20;14(1):11430. doi: 10.1038/s41598-024-59607-1. PMID: 38769330; PMCID: PMC11106291.
- Point-of-Care Thoracic Ultrasonography in Patients With Cirrhosis and Liver Failure. Kajal K, Premkumar M, Chaluvashetty SB, Bhujade H, Kulkarni AV. *Cureus.* 2021 Jun 10;13(6):e15559. doi: 10.7759/cureus.15559. PMID: 34277182; PMCID: PMC8271278.
  - Interventional radiological management of hepatobiliary disorders in pregnancy. Rana P, Gupta P, Chaluvashetty SB, Mittal A, Kalra N, Dutta U, Sandhu MS. *Clin Exp Hepatol.* 2020 Sep;6(3):176-184. doi: 10.5114/ceh.2020.99508. Epub 2020 Sep 30. PMID: 33145424; PMCID: PMC7592089.
  - Life-threatening Upper Gastrointestinal Bleeding Due to Ruptured Gastroduodenal Artery Aneurysm in a Child, Kavitha, Thondi Kandy; Madabhavi, Prabhu; Takia, Lalit; Awasthi, Puspraj; Chaluvashetty SB; Aneja, Aradhana; Menon, Prema; Nallasamy, Karthi; Angurana, Suresh Kumar; Lal, Sadhna; Jayashree, Muralidharan *JPGN Reports: February 2021 - Volume 2 - Issue 1 - p e034* doi: 10.1097/PG9.0000000000000034.
  - Overall survival and local recurrence following RFA, MWA, and cryoablation of very early and early HCC: a systematic review and Bayesian network meta-analysis. Gupta P, Maralakunte, M., Kumar-M, Chaluvashetty SB. et al. *Eur Radiol* (2021). <https://doi.org/10.1007/s00330-020-07610-1>
  - Liver Abscess in Children-experience From a Single Tertiary Care Center of North India, Lal, Sadhna Bhasin MD, DM\*; Venkatesh, Vybhav MD, DM\*; Kumar, Aditi MD, DM\*; Anushree, Neha MD\*; Seetharaman, Keerthivasan MD\*; Aneja, Aradhana MD, DM\*; Chaluvashetty, Sreedhara B. MD†; Sehgal, Rakesh MD‡ *The Pediatric Infectious Disease Journal: May 2021 - Volume 40 - Issue 5 - p e179-e184* doi:

10.1097/INF.0000000000003053.

- Unusual Presentation of a Rapidly Progressive Coronary Artery Pseudoaneurysm after Drug Eluting Stent Placement. Reddy S, Rao K R, SB Chaluvashetty et al. Cureus 13(2): e13305. doi:10.7759/cureus.13305.
- Efficacy and safety of irreversible electroporation for malignant liver tumors: a systematic review and meta-analysis. Gupta, P., Maralakunte, M., Sagar, S. Chaluvashetty SB et al. Eur Radiol (2021). <https://doi.org/10.1007/s00330-021-07742-y>
- Diagnostic accuracy of Liver Imaging Reporting and Data System locoregional treatment response criteria: a systematic review and meta-analysis. Gupta, P., Bansal, A, Chaluvashetty SB Das, G.C. et al. Eur Radiol 31, 7725–7733 (2021).
- Hepatic angiosarcoma – Uncommon presentation of a rare tumor and its management by interventional radiology, Gaurav C. Das, Sreedhara B Chaluvashetty, Shruti Gupta, Arka De. Journal of Clinical and Experimental Hepatology,2021. Epub ahead of print <https://doi.org/10.1016/j.jceh.2021.03.016>.
- Arantius sign: A rare radiographic sign of ligamentum venosum. Subbiah Nagaraj S, Jayant D, Thakur M, Kumar H, Chaluvashetty SB. ANZ J Surg. 2021 Sep 10. doi: 10.1111/ans.17144. Epub ahead of print. PMID: 34505338.
- New Portal Vein Thrombosis in Cirrhosis-is the thrombophilia exacerbated due to Vaccine or COVID-19? Premkumar M, Bhujade H, Karki T, Chaluvashetty SB, Kaur H, Duseja AK, Singh V. J Clin Exp Hepatol. 2021 Nov 8. doi: 10.1016/j.jceh.2021.10.149. Epub ahead of print. PMID: 34776709; PMCID: PMC8574119.
- The anatomy of the cystic duct and its association with cholelithiasis: MR cholangiopancreatographic study. Garg S, Dutta U, Chaluvashetty SB, Kumar KH, Kalra N, Sahni D, Aggarwal A. Clin Anat. 2022 Mar 22. doi: 10.1002/ca.23856. Epub ahead of print. PMID: 35316537.

