

Curriculum Vitae

1. Full Name Dr Prakashini K
2. Direct contact number: 0820-2923055
3. Email ID: prakashini.k@manipal.edu, docprakashinik@yahoo.co.in
4. Expertise:
Area of interest : Neuroradiology, cardiac CT and MRI imaging, interventions like biliary procedures.
5. Current position: Professor & Head
6. Name of the institution: Kasturba Medical College & Hospital, Manipal
7. Educational qualification:
MD - Radiodiagnosis and Imaging Kasturba Medical College, Manipal 2006
MBBS - Kasturba Medical College, Mangalore 2001

PERIOD	HOSPITAL & DEPARTMENT	GRADE
21.3.2019 to till date	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Professor & Head
1.10.2018 to 21.3.2019	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Professor and Incharge Head
14.4.2014 to Oct 2018	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Professor
1.8.2010 to 13.4.2014	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Associate Professor
1.8.2006 to 31.7.2010	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Assistant Professor
2003 to 2006	Department of Radiodiagnosis Kasturba Medical College & Hospital, Manipal, Karnataka, India	Junior Resident I, II, III

8. Education/training (list the most recent first): Date from (mm/yyyy) Date to (mm/yyyy)
9. Summary of scientific career to date, including key achievements?

Speaker:

1. Has participated as speaker in the Webinar on Orbital Mucormycosis held on 11.06.2021 conducted by Department of Ophthalmology, KMC, Manipal
2. Attended as a Speaker in conference KAN- RADINAR 2020 organized by Kanachur Institute of Medical Sciences, Natekal, Mangalore on February 1st. She delivered a lecture “**Planning planes and reporting of Cardiac MRI for beginners**”
3. Delivered a talk on Interactive Long and short case discussion in the **CME Interactive PG Prep Course Unlimited** conducted on 7th December 2019
4. Invited as speaker in the OBG CME held in the year 2018- Appropriate selection of imaging modality in gynecological malignancy. .
5. As a resource person, delivered a lecture on Interpretation of CT/MRI Imaging in the **Manipal Surgery Clinifest** held on 21-23 September 2018 conducted by Department of Surgery, KMC, Manipal.
6. Speaker at MMICON held by Medical Imaging technology, SOAHS on April 7th 2018- **Advances in cardiac CT techniques.**
7. Chaired the session of ICCMEH: 2017 held during 19th -20th December, 2017, MAHE, Manipal.
8. Invited as a Speaker in the conference held by Department of Medical Imaging Technology in year 2013

Poster presentations

- **Has** participated IRIA 2019 on 17th to 20th January and presented poster title *various findings of Hypertrophic Cardiomyopathy (HCM) on cardiac MRI.*
- Presented an E-poster “*What Radiologists need to know in TFCC Tear*” in 71th National conference of Musculoskeletal Society of India, MSS 2019 held from 24th to 25th August 29, 2019 at Deenanath Mangeshkar Hospital, Pune.
- Participated as a Delegate in a National conference IACI 2019 held in Jaipur on 26th to 28th September 2019 and presented a poster.
- Delivered a talk on Interactive Long and short case discussion in the CME Interactive PG Prep Course Unlimited held on 7th December 2019.
- E-poster presentation “What Radiologists need to know in TFCC Tear” in 7th National Conference of the Musculoskeletal Society of India on 24-25 August 2019 at Deenanath Mangeshkar Hospital, Pune.
- Poster presentation titled DCM- Diagnostic Contribution of CMR at the 8th Annual IACI Congress held on 5th – 7th October, 2018, at Medanta, the Medicity, Delhi.
- Presented a poster “Delayed contrast Enhanced (DCE) Cardiac MRI in various Cardiomyopathies.
- Presented a poster on ‘Clinical & MRI findings of Takisubo cardiomyopathy series” in the IACI – 2016, Mysuru held on 4, 5 & 6 November 2016 Annual National conference of the Indian Association of Cardiac Imaging at CMC Vellore from 23rd to 24th October 2015.

9. Research experience;

ICMR STS – Guide and co-guide:

1. Comparison of 1987 American College of Rheumatology criteria and 2010 American College of Rheumatology/European League Against Rheumatism criteria for classification of Rheumatoid arthritis in India (Co-Guide)
2. Role of CT in differentiating benign and malignant lung lesion(Guide)

Ongoing studies:

1. The normative FA value of brain parenchyma and assessment in Parkinson's disease.(PhD thesis)
2. Collaborated with S. AHS, for the study of the role of MRI in the diagnosis of brain tumors.
3. Computer aided detection techniques for laryngeal cancer using machine learning and radiomics features.(PhD) In collaboration with MIT and Philips

3. Estimation of fractional anisotropy values using diffusion tensor imaging in normal brain
4. Cardiac-MRI in assessment of ischemic and non-ischemic myocardial disease and comparison between PSIR and IR MR imaging in evaluation of myocardial enhancement
5. Cardiac Magnetic resonance perfusion imaging for functional assessment of coronary artery disease: a comparison with coronary angiography
6. Computer aided detection techniques for laryngeal cancer using machine learning and radiomics features
7. Artificial intelligence enabled acute ischemic stroke infarct volume estimation and intracranial emergent large vessel occlusion quantification
8. Modelling an Accurate for Detection and Quantitative Assessment of Malignant Tumors in pre and post therapy Spinal Metastases using PETCT.
9. Modelling and numerical simulation of patient specific carotid artery bifurcation
10. Prognostication of Acute Ischemic Stroke (AIS) in anterior cerebral circulation, based on the distribution of cerebral collaterals and clot burden on CT Angiography studies.
11. Prognostication of Acute ischemic stroke by developing a prognostic index based on a clinical characteristics and stroke volume.
12. Artificial intelligence enabled acute ischemic stroke infarct volume estimation and intracranial emergent large vessel occlusion quantification
13. Development and testing of optimal cardiac CT protocol using fixed time delay for congenital heart disease in children.
14. Modelling of textures based assessment system to accurately determine response to therapy of vertebral metastasis on DWI IN COMPETENCE WITH PET CT
15. Exploring application of radiomics in brain tumour assessment and treatment.

10. Awards

- Presented poster titled “Role of Cardiovascular Imaging in post op evaluation of Tetralogy of Fallot” in Cardiac Imaging Master Class organized by Indian radiologist REEFA on 19-20th 2021 online.
- Has won 2nd prize in poster presentation ***A Review of Congenital Anomalies of the Thoracic Aorta*** at 35th Annual IRIA conference at Golden Landmark Resort, Mysuru held on 16th & 17th March 2019.

11. Publications link : please provide link of pubmed and / or google scholar and / or reserach gate profile

1. A neonate with multiple fractures. Ramesh Bhat. Y, K Prakashini..Journal of Clinical and Diagnostic Research [serial online] 2009 [cited:2009 February 2]; 3:1326-1328.
2. Subdural Effusion Complicating Neonatal Meningitis: Successful Treatment with Acetazolamide. Y. Ramesh Bhat, K. Prakashini and Supratim Sen, Indian Journal of Pediatrics, Volume 76—January, 2009
3. “Excretory Urography In Urinary Tuberculosis- What is the role?” K. Prakashini, V.R.K. Rao, International Journal of Infectious Diseases December 2008
(Vol. 12, Page e320)
4. Clinical, radiological and microbiological corroboration to assess the role of endotracheal aspirate in diagnosing ventilator-associated pneumonia in an intensive care unit of a tertiary care hospital, India. Chiranjay Mukhopadhyay, Sushma Krishna, Anitha Shenoy, K. Prakashini, International Journal of Infection Control, (original article) Int J Infect Control, 2010, v6:i2.
5. Duplication of right coronary artery on MDCT- a rare case report, K Prakashini, Smiti S, Binu TR, Padmakumar R, SMJ 2012.
6. Quantitative and qualitative bowel analysis using mannitol, water, and iodine-based endoluminal contrast agent on 64-row detector CT. Dr.Prakashini K, Dr. Chandan Kakkar, Dr. Charudutt Sambhaji, Dr. Chandrakanth M Shetty. IJRI 2013 December

7. Radial artery pseudoaneurysm- USG guided compression with new compression device: Dr. Vivek Joceph, Dr.Charudutt Sambhaji, Dr.Prakashini , Australas Med J. 2013; 6(4): 192–195.
8. Hemiconvulsion-hemiplegia-epilepsy syndrome: clinical course and neuroradiological features in a 20-month-old girl. BMJ Case Reports 2014: March 2014, doi:10.1136/bcr-2013-203482. Ramesh Bhat, Shruthi K, Prakashini K.
9. Image guided biopsy of the pleura: a useful diagnostic tool even when fluid is minimal. Mohan K Manu, Koteswara Prakashini, Aswini Kumar Mohapatra, Ranjini Kudva. BMJ case reports, 2014. doi:10.1136/bcr-2013-201754.
10. Acute Marchiafava-Bignami disease: clinical and serial MRI correlation. Chandan Kakkar, Koteswara Prakashini, Ashwin Polnaya. BMJ Case Reports 2014. doi:10.1136/bcr-2013-203442
11. Hypomelanosis of Ito with an unusual pulmonary abnormality in an infant. Ramesh Y. Bhat, Saikat Patra, P. V. Chaitanya Varma, K. Prakashini. Indian Dermatology Online Journal - April-June 2014 - Volume 5 - Issue 2
12. Ref.: Ms.No.JINJ-D-13-00765R4: Utility of serum pancreatic enzyme levels in diagnosing blunt trauma to the pancreas. A prospective study with systematic review. Accepted in Journal Injury.
13. Persistent left superior vena cava in association with sinus venosus defect type of atrial septal defect and partial pulmonary venous return on 64-MDCT. Bansal Disha, Koteswara Prakashini, Ranjan K Shetty BMJ Case Reports 2014:published online 21 May 2014, doi:10.1136/bcr-2013-202999
14. Abdominal cocoon secondary to disseminated tuberculosis. Radha Puppala, Smiti Sripathi, Rajagopal Kadavigere, Prakashini Koteswar, Jyoti Singh. BMJ Case Reports 2014:published online 19 September 2014, doi:10.1136/bcr-2013-202568
15. Robert's uterus: a rare congenital müllerian duct anomaly causing haematometra. Satish Babu Maddukuri, Lakshmikanth Halegubbi Karegowda, Koteswara Prakashini, Swarna Kantipudi. BMJ Case Reports 2014:published online 16 October 2014, doi:10.1136/bcr-2014-204489.
16. A rare case of racemose neurocysticercosis of the posterior fossa. Lakshmikanth Halegubbi Karegowda, Poonam Mohan Shenoy, Koteswara Prakashini, Gauri Karur. BMJ Case Reports 2014:published online 26 May 2014, doi:10.1136/bcr-2014-203955.
17. Hepatic tuberculosis: a multimodality imaging review: Chandan Kakkar, Ashwin M. Polnaya, Prakashini Koteswara, S. Smiti, K. V. Rajagopal, and Ankur Arora, Insights Imaging. 2015 Dec; 6(6): 647–658. Published 2015 Oct 24. doi: 10.1007/s13244-015-0440
18. Telltale signs of peripheral neurogenic tumors on magnetic resonance imaging Chandan Kakkar¹, Chandrakant M Shetty², Prakashini Koteswara³, Surabhi Bajpai

19. A rare case of congenital anomalous/aberrant systemic artery to pulmonary venous fistula in a 4-month-old child with co-existent mitral valve prolapse and mitral regurgitation R Jayan, K Prakashini, RK Shetty... - BMJ case ..., 2015 - casereports.bmj.com
20. Performance of the 2010 ACR/EULAR criteria for classification of Rheumatoid arthritis in an Indian population: Observational study in a single center. M V V Pavan Kedar, Raviraja V Acharya, Prakashini K. Accepted by IJMR 2015.
21. Estimation of Range of Hounsfield Unit on CT for Different Grades of Fatty Infiltration of Liver Categorized Using Ultrasound. Jumana Rahman, Sushil Yadav, Dr.Prakashini K, Rahul P. Kotian. Global Journal for Research Analysis. Volume-4, Issue-6, June-2015 • ISSN No 2277 – 8160.
22. Role of Computer Aided Diagnosis (CAD) in detection of pulmonary nodules on 64 row MDCT Dr. K Prakashini, Dr. Satish Babu, Dr. Rajgopal KV, Dr. RajaKokila, 2016 Jul-Aug; 33(4): 391–397.
23. Low Dose MDCT with Tube Current Modulation: Role in Detection of Urolithiasis and Patient Effective Dose Reduction. Prakashini Koteswar, Chandan Kakkar, Smiti Sripathi, Anushri Parakh, Rajendra Shrivastav Year : 2016 | Month : May | Volume : 10 | Issue : 5 | Page : TC01 - TC05
24. Comparison between 2D-PSIR and 2D- IR Magnetic Resonance Imaging in the Evaluation of MyoCardial Enhancement. Ruchika S, Prakashini k, International journal of Current Advanced Research; VOl6, Issue 03,pp2549-2554, March 2017
25. Kotian, Rahul P and Prakashini, K and Nair, Sreekumaran N and Babu, Satish M (2017) A diffusion tensor imaging study to sstimate normative fractional anisotropy values in different age groups of normal brain white matter. International Journal of Control Theory and Applications, 10 (36). pp. 195-204. ISSN 0974-5572
26. Comparison between 2D-PSIR and 2D- IR Magnetic Resonance Imaging in the Evaluation of MyoCardial Enhancement. Ruchika S, Prakashini k, International journal of Current Advanced Research; VOl6, Issue 03,pp2549-2554, March 2017
27. Kotian, Rahul P and Prakashini, K and Nair, Sreekumaran N and Babu, Satish M (2017) A diffusion tensor imaging study to sstimate normative fractional anisotropy values in different age groups of normal brain white matter. International Journal of Control Theory and Applications, 10 (36). pp. 195-204. ISSN 0974-5572
28. Shimona Saini, Vikas Kumar¹, Prakashini Koteshwara; Role of diffusion tensor imaging in renal parenchymal changes: Indian Journal of Radiology and Imaging, Year: 2018 | Volume: 28 | Issue: 2 | Page: 175-181-
29. Ramyasri Nayak¹, Nandish S^{*2}, Prakashini Koteshwara³: Volume Estimation of Pulmonary Lesion Using Chest CT Sequence: International Journal of Engineering & Technology, 7 (3.1) (2018) 186-190
30. Rahul P Kotian¹, K Prakashini², Sreekumaran Nair³, M Satish Babu⁴; Consistency of Fractional Anisotropy Values Using Different Combinations of b-Value and Time of Echo (TE)

in Diffusion Tensor Imaging of Normal Brain White Matter; Journal of Clinical and Diagnostic Research, 2018. Dec, Vol-12(12): TC01-TC04; DOI: 10.7860/JCDR/2018/38089.12315

31. Priya P S, Prajeeth Rao, Prakashini K: Association Of Vascular Calcification Of Breast With Carotid Intima Media thickness: Polish Journal of Radiology: March 2019 – Q3

32. Allen Jabar Shell Prakashini K, Jasbon A, Role of Diffusion Weighted Magnetic Resonance Imaging in differentiating benign and malignant Breast Lesions: Polish Journal of Radiology – Q3

33. Kartik Udupa, Prakashini K, Bleomycin in Hodgkin lymphoma - A boon or a Bane ? A retrospective study of Bleomycin pulmonary toxicity in Hodgkin lymphoma: Indian Journal of Palliative Care – Q3

34. Julnar Karappara , Dr. Prakashini K , Ms. NITIKA C PANAKKAL , Dr. Suresh S: Publication Repository: Optimization of Pediatric CT Brain Protocol to Achieve Reduced Patient Dose; <https://dx.doi.org/10.13005/bpj/1899>

35. Vijayasekharan, Kalasekhar MD, DM ; Bhat, Vasudeva K. MD, DM ; Godkhindi, Vishwapriya M. MD ; Venkatagiri, Archana M. MD, FNB ; Koteswara, Prakashini MD: Journal of Pediatric Hematology/Oncology: Bilateral Mirror Image Thoracic Neuroblastoma: Unusual Presentation in an infant: doi: 10.1097/MPH.0000000000001813

36. Nitesh kumar¹, s. M. Abdul khader¹, *, raghuvir b. Pai¹, panicos kyriacou², sanowar khan², k. Prakashini³, d. Srikanth rao¹; Journal of Engineering Science and Technology; Vol. 15, No. 4 (2020) 2746 – 2763; Effect Of Newtonian And Non-Newtonian Flow In Subject Specific Carotid Artery

37. S M Abdul Khader, B Raghuvir Pai, D Srikanth Rao, K Prakashini: Numerical Investigation of Blood Flow in Idealized Abdominal Aorta with Renal Bifurcation Using Fluid-Structure Interaction –Book Chapter

12. Other salient clinical/academic/research information

➤ completed academic studies

- Sonographic evaluation of the posterior tibial nerve in diabetic patients
- Point shear wave elastography Of Spleen In Prediction Of Presence And severity of esophageal varices
- Diagnostic reliability of TIRADS in routine practice
- Value of Shear Wave Elastography in the Evaluation of Chronic Kidney Disease

- Role of grey scale Ultrasound, color Doppler, Ultrasound elastography in evaluation of axillary lymph nodes in primary breast cancer – A prospective study
- Evaluation of Radiation dose in Renal colic Patients using size specific dose estimate
- Cardiac Magnetic resonance perfusion imaging for functional assessment of coronary artery disease: a comparison with coronary angiography

➤ **Ongoing academic studies**

- Predicting Histopathological and Molecular Subtype of Non- Small Cell Lung Carcinoma based on CT features
- Role of DTI in Parkinsonism disorders
- Diffusion Tensor Imaging - MR Tractography in Stroke Patients to Predict Motor Outcome
- Multiparametric MRI for Bladder Cancer Using VI-RADS for the Detection of Detrusor Muscle Invasion: An Observational Study to check the Reliability of VI-RADS scoring in Indian Population
- Utility of multiphase CT cerebral angiography in acute ischemic stroke