

# Dr. Santhosh Kumar GEETHA VIRUPAKSHAPPA

## PERSONAL DATA

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## PROFESSIONAL REGISTRATIONS

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- General medical council, United Kingdom (777423)
- Helsedirektorat, Norwegian Directorate of Health, Norway, from Dec 2019
- Karnataka medical council, India, from Mar 2012

## PROFESSIONAL QUALIFICATIONS

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NOV 2019: Fellowship of the Royal College of Radiologists (FRCR)  
NOV 2019: MMed (Diagnostic Radiology), Singapore  
FEB 2018: European Diploma in Radiology (EDiR)  
AUG 2017: Doctor of Medicine (Diagnostic Radiology), India  
NOV 2011: Bachelor degree in Medicine, Bangalore, India

## WORK EXPERIENCE

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<i>Dec 2018 -Present</i>	<p>Consultant Radiologist at DISTRICT HOSPITAL/SYKEHUSET TELEMAR, NOTODDEN, NORWAY</p> <p><i>Responsibilities</i></p> <ul style="list-style-type: none"><li>• General radiology services for outpatient and inpatient departments</li><li>• Emergency radio-logical services with rotational duties</li><li>• Working with CT, Ultrasound, radiography and fluoroscopy as well as CT and ultrasound guided interventions</li><li>• Hold clinicoradiological meetings</li><li>• Supervise and co-ordinate with radiographers with the daily workload</li></ul>
<i>Jun 2018 -Sep 2018</i>	<p>Exchange fellow in abdominal imaging at ADDENBROOKE'S HOSPITAL, CAMBRIDGE UNIVERSITY, UNITED KINGDOM</p> <p><i>Responsibilities</i></p> <ul style="list-style-type: none"><li>• Visitor fellowship program in abdominal imaging</li><li>• Exposure to the clinical flow and management in the the UK</li><li>• Participated in MDT meetings as well as teaching sessions under supervision</li></ul>
<i>Dec 2017-May 2018</i>	<p>Consultant Radiologist at RADNEST IMAGING SOLUTIONS, BANGALORE, INDIA</p> <p><i>Responsibilities</i></p> <ul style="list-style-type: none"><li>• Mainly involved in emergency and routine radiological investigations</li><li>• Modalities included CT, MRI, ultrasound and radiography which included MR mammography</li></ul>

Sep 2017-Dec 2017	<p>Senior Resident at RAJARAJESHWARI MEDICAL COLLEGE, BANGALORE, INDIA</p> <p><i>Responsibilities</i></p> <ul style="list-style-type: none"> <li>• Rotational postings in CT, ultrasound and radiography</li> <li>• Responsible for teaching postgraduate students</li> <li>• Active participation in administration, teaching and research activities in the department</li> </ul>
Jul 2016-Aug 2017	<p>Senior Resident at TATA MEMORIAL HOSPITAL, MUMBAI, INDIA</p> <p><i>Responsibilities</i></p> <ul style="list-style-type: none"> <li>• Higher-level radiology training requiring minimal supervision</li> <li>• Participation in multidisciplinary team meetings</li> <li>• Research and teaching activities</li> </ul>

## EDUCATION

Aug 2013-Jul 2016	<p>MD Radio-diagnosis at TATA MEMORIAL HOSPITAL, INDIA</p> <p><i>Training</i></p> <ul style="list-style-type: none"> <li>• Core and intermediate to higher level radiology training as prescribed by the medical council</li> <li>• The training aimed at the development of academic, professional and research skills with respect to clinical radiology</li> <li>• The training program included yearly appraisals and final exiting exam</li> </ul>
Aug 2006-Mar 2012	<p>MBBS at BANGALORE MEDICAL COLLEGE AND RESEARCH INSTITUTE, BANGALORE, INDIA</p> <p><i>Training</i></p> <ul style="list-style-type: none"> <li>• Basic medical training in pre-clinical and clinical subjects</li> <li>• Completed training with 1 years of rotational internship</li> </ul>

## GAP IN EMPLOYMENT

Sep 2019-Dec 2019: I was visiting my parents and in the meantime applying for the Norwegian medical license and visa.

## AWARDS

- Invest in youth program of European congress of radiology (ECR) of the march 2018 conference to which got eligible for sponsorship for conference registration and accommodation. Fee waiver to European diploma in radiology (EDiR) examination.
- Travel scholarship awarded by Sam Jal Mistry Fund for paper presentation, "Imaging features of different sub-types of osteogenic sarcomas". European congress of radiology (ECR) 2016, Vienna.
- Winner in Radiology quiz arranged by women's cancer initiative conference held at Tata memorial hospital in 2015.
- Best public awareness poster, breast-feeding week, Aug 2011 and Runner up position for best public awareness poster, AIDS awareness program, 2010

## PUBLICATIONS

1. Second Opinion by In-House Radiologists: Present Picture and Emphasis on Standardizing Imaging Protocol in Oncology - Current Problems in Diagnostic Radiology. May 2017. GV Santhoshkumar, Abhishek Mahajan, Subhash Desai, Meenakshi Thakur
2. Imaging of retained surgical items: A pictorial review including innovations -Indian

Journal of radiology and imaging, Sept 2017. GV Santhoshkumar, Subhash Ramani, Abhishek Mahajan, Nikshita Jain, Rachel Sequeira, Meenakshi Thakur.

3. Case of victims of modern imaging technology: Increased information noise concealing the diagnosis. World J Radiol 2017; 9(12): 454-458. Mahajan A, Santhoshkumar GV, Kawthalkar AS, Vaish R, Sable N, Arya S, Desai S.
4. Potential role of whole-body diffusion magnetic resonance imaging in tumor staging for pregnant patients with cancer. Indian Journal of Cancer, 2018. DOI: 10.4103/ijc.IJC\_244\_18. Abhishek Mahajan, GV Santhosh Kumar, Tanvi Vaidya, Meenakshi Thakur, Subhash Desai.

## PRESENTATIONS

### As Primary author

1. Essence of python programming language in medical image analysis: Enhancing workplace productivity. The annual conference of European Congress of Radiology, 2018
2. New ACR TI-RADS: Know Whether You Know, European congress of radiology, 2018
3. Sella and Juxtapella: Imaging anatomy and pathology: Pictorial exhibit. European congress of radiology (ECR) 2016
4. Imaging features of different sub-types of osteogenic sarcomas. European congress of radiology (ECR) 2016
5. Urgent and emergent radiological diagnoses. Annual conference of Radiological Society of North America (RSNA) 2016
6. Leptomeningeal metastasis; can MRI compare with CSF analysis. European congress of radiology (ECR) 2015
7. Non-resolving pneumonia other than cancer in tertiary cancer care center: Imaging spectrum of various etiologies and role of tissue diagnosis. Annual conference of Indian radiological and imaging association- 2015
8. Laryngeal tuberculosis mimicking laryngeal cancer. An educational case report presented at Edurad meeting, Mumbai, 2014

### As co-author

1. MRI abdomen sequences: Basics from physics to pathology. ECR 2019
2. CNS Tuberculosis- The Great Masquerader. European congress of radiology (ECR) 2017.
3. Drug Induced Pulmonary Toxicity: A diagnostic Conundrum! European congress of radiology (ECR) 2017
4. Axial skeleton tumors: Orphan of pediatric oncology? European congress of radiology (ECR) 2017.
5. Role of imaging in uncovering peritoneum. European congress of radiology (ECR) 2016
6. A glimpse to genetics of glioma: Welcome to the era of radiogenomics. Annual conference of Radiological Society of North America (RSNA) 2016.
7. Imaging in head and neck squamous cancers, A checklist manifesto. Annual conference of Radiological Society of North America (RSNA) 2016.
8. Multiparametric analysis of intra-axial brain lesions on MRI' N A Jain, Annual conference of Radiological Society of North America (RSNA) 2016.
9. Pediatric head and neck rhabdomyosarcoma: what the radiologist need to know' N A Jain, Annual conference of Radiological Society of North America (RSNA) 2016.
10. Infratemporal fossa and its relation to masticator space. Annual conference of Radiological Society of North America (RSNA) 2016..

11. Correlating advanced MR techniques with MIB index to grade and prognosticate gliomas: Can perfusion and diffusion MR solve the riddle? Annual conference of Radiological Society of North America (RSNA) 2016.

## CONFERENCES ATTENDED

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- Regularly attended European congress of radiology from 2014
- National and state level radiological conferences

## QUALITY IMPROVEMENT PROJECTS

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### 1. Implementation of standard MR imaging protocol, 2016

*Aim:* Improve the imaging efficiency of MRI rectum for staging cancer

*Actions:* In collaboration with my professor, our efforts to replace the preexisting MR scanning protocol resulted in less scanning time including only fewer and relevant sequences. The protocols for MR protocol followed the recommendations from the European Society of Gastrointestinal and Abdominal Radiology (ESGAR)

### 2. Synaptic Reporting, 2015

*Aim:* Quality Improvement in the radiological reports

*Actions:* I prepared a checklist for all the common radiological examinations so that to never miss important findings which might lead to grave consequences. The approach was well appreciated by my professors and colleagues. The effort resulted in improved patient safety, for example picking up a small subdural hemorrhage.

### 3. Automatic reporting of normal Chest X-rays, 2015

*Aim:* Reduce the time reporting plain radiographs

*Actions:* With simple software, I automated reporting of normal chest radiographs with one click.

After seeing all the key areas and review areas of a plain chest radiograph, if it was normal, The software would take over the RIS system for automated reporting with one click.

## RESEARCH PROJECTS

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1. Analysis of anatomical variations of the celiac trunk and hepatic artery with CT angiographies, 2015

*Aim of the research:* To assess the incidence of clinically significant variations of the branching pattern of aorta focusing on celiac, superior mesenteric and renal arteries.

## TEACHING, TRAINING AND MANAGEMENT EXPERIENCE

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- During my residency, I was responsible for training junior residents in academics and help in writing dissertations, posters and presentations.
- Competent in effective patient communication with respect to radiological procedures or investigations about risks, benefits and complications.
- As a part of my training in one of the premier oncology institutes, I have learned time management while tending to a heavy caseload.
- I was a part of the new specimen mammography machine procurement team and I contributed by writing down the required technical specifications, comparative analysis and prioritizing the requirements based on cost-benefit and cost-effective analysis.

## OTHER INTERESTS

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- Played an active role in developing a TNM staging application, developed by TMC and published by IAEA. Link to google play, url: <https://goo.gl/NnY34y>

- Extremely interested in machine learning in healthcare. Earned several certificates in programming and machine learning related courses.
- Enrolled in imaging informatics course which combines healthcare and technical science.

## PROFESSIONAL MEMBERSHIPS

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FROM 2013: Radiological Society of North America (RSNA)  
 FROM 2013: American Roentgen Ray Society (ARRS)  
 FROM 2018: European society of radiology (ESR) from 2013 as a full member  
 FROM 2017: Indian Radiological and Imaging Association(IRIA)  
 FROM 2017: Society for Imaging Informatics in Medicine (SIIM)  
 FROM 2017: European Society of Medical Imaging Informatics (EuSoMII)

## SUB-SPECIALTY INTERESTS

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### Breast Imaging

During my residency, I was working in a tertiary cancer center with a huge caseload of screening and diagnostic mammography including MR mammography. Reporting was done according to the standard BIRADS lexicon for mammography, ultrasound and MRI.

I have assisted and performed independently mammography guided wire localization, ultrasound assisted sono-localization.

I was a part of an advisory team for acquiring a new specimen mammography system for intra-operative use.

### Oncological Imaging

I am well experienced in staging, post-treatment or post-operative imaging in oncology. I have worked with standard imaging protocols as well as reporting systems like RECIST criteria which are helpful for the treating oncologists. Some to mention are standard MR rectum, imaging in bone and soft tissue.

I am good with image-guided biopsies as well as basic interventional procedures.

### Research

I am looking for opportunities to work in a research setup for artificial intelligence or machine learning. I have good programming skills, and insights of statistics, mathematics which are essential for machine learning. In my free time, I work with machine learning projects as a hobby.

Research comes with a question of patient's safety. I have attended courses of basic and advanced clinical skills and good clinical practice (GCP) and well familiar with the research ethics and review process.

## PERSONAL QUALITIES

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- Fluent in English, Norwegian, Kannada and Hindi
- Quick learner and can adapt to new skills and imaging modalities.
- Great with technical aspects of radiology and healthcare.
- Thrives in a team environment and work well with others. Effective communicator with good interpersonal skills.
- Spends my free time in community volunteer works and presently learning British sign language (BSL)