

BHARATI VIDYAPEETH (DEEMED TO BE) UNIVERSITY

MEDICAL COLLEGE, PUNE

BHARATI HOSPITAL & RESEARCH CENTRE, PUNE

DEPARTMENT OF RADIODIAGNOSIS AND IMAGING



Facilities and Equipment:

The Department of Radiodiagnosis and Imaging of Bharati Vidyapeeth Medical College and Hospital is a state-of-the-art facility.

Equipment

1. 3 Tesla Philips Ingenia Elition X MRI

Advantages:

- Excellent in-bore experience to improve patient compliance
- Improved image quality
- Reduced scanning time
- Improved resolution for small joints MRI
- Provision for performing Cardiac MRI
- Advanced MR techniques including Perfusion imaging, Spectroscopy and tractography.

2. 1.5 Tesla Philips Achieva MRI



Special Investigations Include:

- Cardiac MRI
- Small joints MRI
- Perfusion imaging
- MR Spectroscopy
- Fetal MRI
- MRCP
- Diffuse Tensor Imaging
- Cartilage Mapping



3. 128-Slice Philips Incisive Pro CT Scan

Advantages:

- Improved image quality
- Reduced scan time
- Reduced intravenous contrast requirement
- Provision for performing Cardiac CT and CT coronary Angiography



4. 32-Slice Philips Access CT Scan

Special Investigations Offered:

- CT angiography (brain, pulmonary, abdominal, peripheral)
- CT cisternography.
- CT guided biopsy.
- 3D reconstruction of CT images



CT and MRI Console Room with workstation:



**DIGITAL FLUOROSCOPY SUITE
with top-of-the-line
Flexavision Shimadzu:**



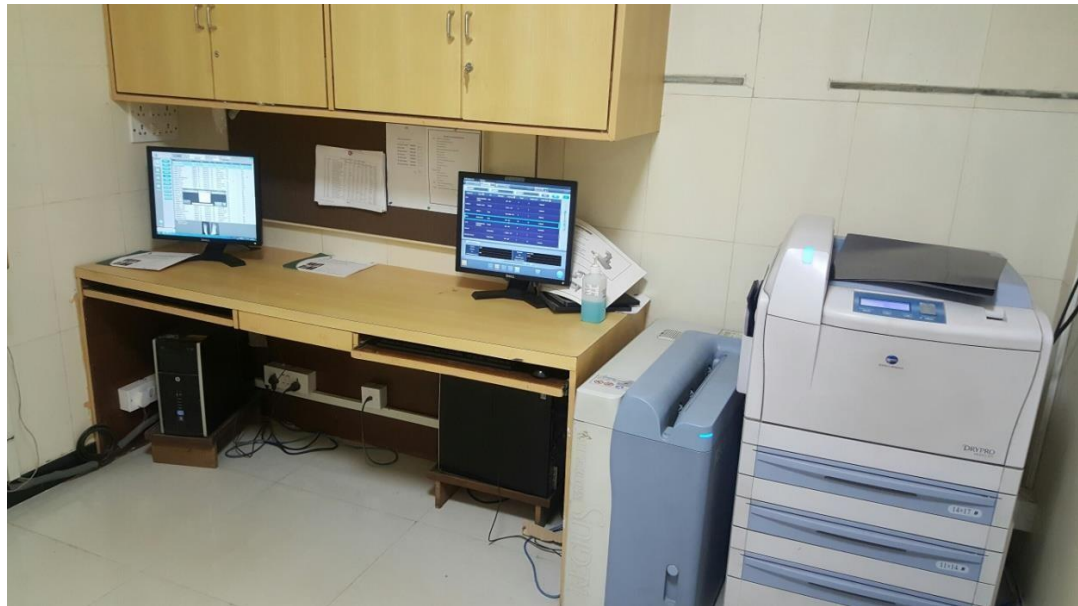
**BET Medical Mammography
equipment:**



5 Radiography Suites are available in the department with top-of-the-line Konica Minolta Aero Digital Radiography (DR) X-70. Along with in house portable X-ray units available in ICU and HDU.



Konica Minolta Digital CR Equipment and Reporting Station:



Eight USG Suites including top of the line GE Voluson E6, Philips IU -22, Philips Affiniti 70, Philips Affiniti 50 and Philips Affiniti 30 Equipment. In addition, there are in-house Sonography units in ICU, PICU, NICU, HDU and Labour Room.

Philips Affiniti – 70



GE Voluson E6



Philips IU-22



Special Features Include:

1. 3D, 4D and Doppler Imaging.
2. Elastography.
3. USG Guided Biopsy.



The department caters to in-house patients and outdoor patients referred from the OPDs & doctors from nearby localities and surrounding villages.

Residency Programme Information:



Dr. Priscilla Joshi, Professor and Head of Department

Dr Priscilla Joshi, a radiologist with 28 years of teaching experience and a special interest in paediatric radiology and body imaging, is the Head of the Department of Radiodiagnosis & Imaging at Bharati Vidyapeeth Medical College, Pune.

The residency training program in Radiodiagnosis at Bharati Vidyapeeth Medical College, Pune, was introduced in the year 2003. The institute offers a three-year M.D. program with rotations in various modalities. The residency program intake presently includes fifteen M.D. residents annually.

Fellowships offered by the department include paediatric radiology, body imaging, diagnostic neuroradiology and musculoskeletal imaging.

Program structure:

Our program is designed to provide an organized educational experience with exposure to current imaging modalities.

The PG residents work across different modalities on rotation and also have seminars, tutorials, journal club and film-reading sessions. They are encouraged to attend and participate in the various city, state and national-level CMEs.

Faculty:

We have a fully-staffed academic radiology department composed of trained specialists in all areas including neuroradiology, musculoskeletal and body imaging, paediatric radiology and thoracic imaging. The staff of five professors, three associate professors, one assistant professor and nine senior residents is highly committed to the ongoing education of the residents, and they take great pride in their congenial working relationships with the residents. Our faculty members also serve as mentors to the residents as they progress through their residency and are involved in research projects being pursued by the post graduates. Regular guest lectures by visiting professors and experts are arranged for the benefit of PGs and faculty members.



PG Teaching Program:

The department provides a robust teaching program for postgraduate residents, which include:

- Daily case discussions
- Spots every week for assessment
- Journal Club
- Webinars
- Seminars
- Interactive tutorials
- Film reading sessions
- Rotation in emergency medicine, interventional radiology and SPECT Lab

Inter-Departmental Meetings:

The department conducts regular inter-departmental meetings aimed at improving interpretation of imaging findings and the role of imaging. This also helps follow up of patients. The radiology residents learn how to interact with clinical specialities and answer the relevant questions. Presentation skills are also improved. These include:

- General surgery
- Gastroenterology
- GI surgery
- Orthopaedics
- Paediatrics
- Neurology (adult & paediatric)
- Urology
- Tumour board
- Foetal medicine

Conferences:

The department is actively involved in organizing CMEs/conferences.

The Conferences/CMEs/guest lectures organized by the department include:

01/03/2015	CME on Cardio-Vascular Imaging	Auditorium, Bharati Vidyapeeth Medical College, Pune.
03/03/2015	Pre RESCON Workshop	Conference Hall, Bharati Hospital and Research Centre, Pune
26/07/2015	Bharati Radiology Resident's Course – CME on CNS – Brain Imaging	Auditorium, Bharati Vidyapeeth Medical College, Pune.
22/11/2015	Bharati Radiology Resident's course (Part II) on Chest imaging on 22 November 2015	Bharati Radiology Resident's course (Part II) on Chest imaging on 22 November 2015
09/03/2016 – 10/03/2016	Pre RESCON workshop	Auditorium, Bharati Vidyapeeth Medical College, Pune.

08/09/2017	PG Alumni meet	Auditorium, Bharati Vidyapeeth Medical College, Pune.
09/09/2017 – 10/09/2017	XV Annual National Conference Indian Society of Pediatric Radiology	Sheraton Grand Hotel, RajaBahadur Mill Road, Pune.
8/11/2017	International Day Of RadiologyQuiz	Auditorium, Bharati Vidyapeeth Medical College, Pune.
24/2/2018	RADPRACT IV	Conference Hall, Bharati Hospital and Research Centre, Pune
09/03/2018 and 10/03/2018	Fetal Medicine Update with workshop	Conference Hall, Bharati Hospital and Research Centre, Pune
05/09/2018	Teacher's Day Inter-institute PG Quiz Felicitation of teachers	Auditorium, Bharati Vidyapeeth Medical College, Pune.
09/01/2019	Guest Lecture: "Artificial Intelligence in Healthcare" Dr Sonoo Thadaney-Israni, Stanford University, California, USA	Conference Hall, Bharati Hospital and Research Centre, Pune
05/08/2019	Guest Lecture: SPECT and Nuclear Medicine Dr S Solav	Conference Hall, Bharati Hospital and Research Centre, Pune
02/02/2020	CME on Musculoskeletal Ultrasound	Auditorium, Bharati Vidyapeeth Medical College, Pune.
14/03/2020	AMOGS NT Certification Course (in collaboration with Bharati Vidyapeeth Medical College)	Conference Hall, Bharati Hospital and Research Centre, Pune
11/04/2020	Guest Lecture: "Publish or Perish" Dr Vikram Dogra, University of Rochester, New York, USA	Conference Hall, Bharati Hospital and Research Centre, Pune

Radiologists of Bharati Origin Alumni Meet 08 Sept 2017



HONOURS/AWARDS/PRIZES DEPARTMENT OF RADIODIAGNOSIS AND IMAGING (2017)

ISPR CONFERENCE 2017 ORGANISED BY BHARATI VIDYAPEETH (DTU) MEDICAL COLLEGE PUNE



M.V.K. SHETTY ENDOWMENT ORATION AWARD

FIRST PRIZE QUIZ AT ISPR IN 2017



ISPR CONFERENCE IN 2017



Conferences and CME and workshop (2017-18)



INTERNATIONAL DAY OF RADIOLOGY INTER-INSTITUTE PG QUIZ



Teacher's Day – Felicitation of Teachers and inter-institute PG Quiz



Resources:

Textbooks, journals and teaching CDs/ DVDs are available for use in the departmental libraries. Residents also use the college book and digital library.

Residents have access to computers, internet and an LCD projector for learning and teaching. The department has a well-stocked film library available for the benefit of the post graduate residents.

Research:

Residents are encouraged to become involved in research and it is mandatory for the residents to present a paper and a poster at a national conference as well as to submit a manuscript of an article for publication.

PUBLICATIONS FROM THE DEPARTMENT INCLUDE:

a) ARTICLES PUBLISHED -

Sr. No.	Name of Authors	Name of the Article	Name of the Journal	Date of Publication
1	Dr. Priscilla Joshi, Dr. Vandana Jahanvi Dr. Mangal Mahajan Dr. Shivani Pawar Dr. Nivedita Ghule Patil Dr. Priyank Moradiya	Getting vaccinated helps: Prospective study reveals lower CT severity scores amongst COVID vaccine recipients	IJRI	Letter of acceptance Aug 2021
2	Dr. Vandana Jahanvi, Dr. Abhimanyu Kelkar	Chemical shift imaging: An indispensable tool in diagnosing musculoskeletal pathologies	SA Journal of Radiology	May 2021
3	Dr. Arsh Sukhija Dr. Mangal Mahajan Dr. Priscilla Joshi Dr. John Dsouza Dr. Nagesh D N Seth Dr. Karamchand H Patil	Radiological Findings in Covid-19, comparison between AI and radiologist	Indian Journal of Radiology and Imaging	Jan 2021
4	Dr. Ruchir Jyani Dr. Dilip Ranade Dr. Priscilla Joshi	Spectrum of Orbital Cellulitis on Magnetic Resonance Imaging	The Cureus Journal of Medical Science	Aug 2020
5	Dr. Priscilla Joshi, Dr. Aishvarya Vasishta, Dr. Mayank Gupta	Ultrasound of paediatric chest	Br J Radiol 2019; 92: 20190058	2019
6	Vasishta A, Kelkar A, Joshi P, Hapse R	The value of sonoelastography in the diagnosis of supraspinatus tendinopathy—a comparison study	Br J Radiol 2019; 92: 20180951	2019
7	Dr. Priyanka Khopade Dr. Abhimanyu Kelkar Dr. Priscilla Joshi Dr. Amol Bandgar Dr. Mangal Mahajan	Pancreatico-biliary pathologies : correlation of USG and MRCP	International Surgery Journal	May 2019
8	Dr. Sudhir Navale Dr. Amol Bandgar Dr. Sanket Jain	Evaluation of scrotal pathologies by ultrasound and color Doppler	International Journal of Radiology	Aug 2019
9	Dr. Anand Rahalkar Dr. Manali Rahalkar	CT evaluation of injuries to temporal bone in case of trauma, prospective study	IJCMSR	Letter of acceptance Aug 2019

10	Dr. Nikhil Vikram Dr. Anand Rahalkar Dr M D Rahalkar Dr A Halkude	Comparison of Mannitol and Meglumine Diatrizoate for Stomach and Small Bowel Wall Study by Computed Tomography, a Prospective Study.	IJCMSR	Letter of acceptance Aug 2019
11	Dr Astha Pruthi Dr. A M Rahalkar Dr. M D Rahalkar	To study coronary artery stenosis on CT in comparison with catheter angiography.	IJCMSR	Letter of acceptance Aug 2019
12	Dr Amol Bandgar, Dr Abhimanyu Kelkar, Dr Aditi Singh	MR imaging of cartilage and cartilaginous lesions of knee using T2 mapping and conventional sequences – A prospective study	Medpulse International Journal of Radiology. August 2019;11(2):42-46	2019
13	Mangal Mahajan, Yadav Munde, Priscilla Joshi, John D'Souza	A study of CT Versus MRI for the detection of intra articular lesions of knee joint at tertiary health care center.	Medpulse International Journal of Radiology. July 2019;11(1):01-04	2019
14	Mangal Mahajan, Amol Bandgar,, Priscilla Joshi, John Dsouza	A study of diagnostic efficacy of USG abdomen versus CT scans for the diagnosis of renal pathologies at tertiary health care center.	Medpulse International Journal of Radiology. July 2019;11(1):22-25	2019
15	Mangal Mahajan, Amol Bandgar, Priscilla Joshi, John Dsouza.	A study of diagnostic efficacy of USG with respect to FNAC for breast lesions at tertiary health care center.	Medpulse International Journal of Radiology. July 2019;11(1):29-31	2019
16	Yadav Waghaji Munde, Kiran V Naiknaware	A study of AV fistula salvage by angioplasty at tertiary health care center. Medpulse	Medpulse International Journal of radiology. June 2019;10(3):22-25	2019
17	Yadav Waghaji Munde, Kiran V Naiknaware	A study of uterine fibroid embolization with its therapeutic role and complication.	Medpulse International Journal of radiology. June 2019;10(3):22-25	2019
18	Dr. Priyanka Rana, Dr. John D'souza, Dr. Priscilla Joshi, Dr. Amol Bandgar, Dr. Mangal Mahajan, Dr. Nikhil Kulthe	Dynamic ultrasound in evaluating the spectrum of anterior abdominal wall lesions.	Inl. Surg. J. 2019 Jul;6(7): 2464-2468	2019
19	Dr. S Gaur, Dr. S Navale, Dr. J Dsouza Dr. P Joshi	A combination of ultasonography and Real time elastography (RTE) in differentiating benign and Malignant thyroid nodules, does it help?	International Journal of Contemporary Medicine Surgery and Radiology 2019 : 4 (3) C182-C186	2019

20	Wadhvani, N.S, Sundrani, D.P., Wagh, G.N. <i>et al</i>	The REVAMP study: research exploring various aspects and mechanisms in preeclampsia: study protocol.	<i>BMC Pregnancy Childbirth</i> 19, 308 (2019)	2019
21	D Sharma, J D'souza, P Joshi	Role of Colour Doppler in evaluation of venous abnormalities of the lower limb	International Journal of surgery 7 (1), 163-167	2019
22	Dr. Sudhir Navale Dr. Dhruv Vala Dr. Madhavi Gupta	Grading of non-alcoholic fatty liver disease on ultrasound and its correlation with lipid profile	International Journal of contemporary Medicine, Surgery and Radiology	2019
23	Mangal Subhash Mahajan, Anish Choudhary, Dsouza John, Priscilla C Joshi	Accuracy of transrectal strain elastography in detection of prostate cancer	West African Journal of Radiology. 2019;26(1):31-36	2019
24	A Sri Ramya, Mahajan Mangal S, Joshi Priscilla	Measurement of Cervical Length Using Ultrasonography in Predicting Preterm Labour.	Indian Journal of Applied Research. 2018;8(8)	2018
25	Dr.M D Rahalkar Dr Anand Rahalkar Dr K Sant Dr Kaurabhi Banode	CT cisternography and its utility for the treatment of CSF fistulae	Otorhinolaryngology Clinics - An International Journal	2018
26	Nandini Malshe, Priscilla Joshi, Lina A Ranchhod, Neel Tapryl, Jyoti Sharma	Kidney Length in Healthy Term Neonates.	Asian Journal of Pediatric Nephrology. 2018;1(1):8-11	2018

b) CHAPTERS IN TEXTBOOKS PUBLISHED –

1. Shroff M M, Shetty P.G., Priscilla Joshi. Chapter on Subarachnoid Haemorrhage Association of Physicians of India - Update on Stroke 1994
2. Dr. Priscilla Joshi, Dr. Jyoti Sharma. Chapter on Ultrasonography & magnetic resonance Urography of the Kidneys, Ureters & Bladder, Practical procedures in pediatric nephrology Jaypee Brothers Chapter 13 page 89 to 115.
3. Priscilla Joshi. Pediatric Endocrinology Imaging - evaluation of the Pituitary gland and a child with precocious puberty. Selected Topics from Pediatric Radiology Edited by Dr MD Rahalkar Publisher Blue Rose Chapter 35 Pgs 803 to 831
4. Priscilla Joshi. IAP Imaging in Pediatric Endocrine disorders: Text book on Pediatric Endocrinology 2019 : Section 20 chapter 59 Page 581 – 593

Awards Received:

NAME	CONFERENCE	PRIZE
Dr. Amish Qazi	IRIA 2014	Best Paper
Dr. Ruchita Shah	USCON 2015	1 st prize (Poster)
Dr. Ruchita Shah	Ultrafest 2016	3 rd prize (Poster)
Dr. Nivedita Divekar	Rescon 2016	2 nd prize (Paper)
Dr. Aditi	USCON 2016	1 st prize (Poster, non-Obs category)
Dr. Priyanka Rana	USCON 2016	1 st prize (Poster, Obs category)
Dr. Nivedita Divekar	USCON 2016	1 st prize (Paper)
Dr. Dinika Sharma	ISPR 2017	1 st prize (Poster)
Dr. Nikhil Kulthe	ISPR 2017	1 st prize (Quiz)
Dr. Aishvarya Vasishta	ISPR 2017	1 st prize (Quiz)
Dr. Nikita Ranglani	ISPR 2020	3 rd prize (Paper)
Dr. Ishtiyah Shaikh	ISPR 2021	2 nd prize (Poster)
Dr. Nikita Ranglani	GRS 2021	1 st prize (Poster)