

DR GAURAV RAJ

EDUCATION & TRAINING:

- **Radiology Residency (MD):**
King George's Medical University, Lucknow
June 2004 – June 2007
- **Senior Resident Radiology (similar to instructor position)**
King George's Medical University, Lucknow
July 2007 - February 2011
- **Clinical Observership**
Neuroradiology and Body Imaging
Medical College of Wisconsin, USA,
- **Advanced training(CT guided procedures & biopsy)**
University Hospital, Frankfurt Germany,

ONE YEAR DEDICATED ABDOMINAL IMAGING FELLOWSHIP DEGREE FROM OTTAWA UNIVERSITY(2018-19), (special emphasis on abdominal MRI, malignancies and non vascular procedures)

Working as a **Additional Professor**

Established Department of Radiodiagnosis in Dr. Ram Manohar Lohia Institute of Medical Sciences in February 2011 .

Invited lectures/talks as invited faculty/speaker

<p>“The ABC of MRCP”</p>	<p>32nd Annual meeting of state chapter of IRIA (Indian radiological and imaging association) 6th & 7th October 2018- Orcha, Jhansi</p>
<p>Cross sectional imaging –what the anaesthetist needs to know</p>	<p>Central zone post graduate teaching assembly for anaesthesia held at luck now Feb. 2018</p>
<p>Faculty for hands on workshop on lung biopsies</p>	<p>5th preceptorship programme for lung biopsies held in Tata memorial cancer hospital ,Mumbai on aug 2017</p>
<p>Radiology panel faculty for clinico patho- radio interesting case discussions</p>	<p>Annual conference of neuropathology held at luck now Feb 2018</p>
<p>Macrocytic vs Linear MRI contrast</p>	<p>National meet of radiology technicians –Techspire held at Kolkata in may 2018</p>
<p>Non traumatic head and neck emergency</p>	<p>Annual meeting of state chapter of IRIA (Indian radiological and imaging association) October 2017- Aligarh Muslim University</p>

<p>Abdominal radiology quiz and spotters in GRASP (Guidance in radiology for aspiring students and post graduates)</p> <p>Skull base imaging –solving the puzzle</p> <p>Ligament injury of knee joint on MRI</p> <p>Radiological evaluation in common pediatric emergency and trauma 2016</p> <p>Subarachnoid hemorrhage and aneurysm</p> <p>Imaging of congenital anomalies of urinary system</p> <p>Imaging of pituitary lesions</p>	<p>Sanjay Gandhi Postgraduate Institute of medical sciences , February 2017</p> <p>Annual meeting of state chapter of IRIA (Indian radiological and imaging association) October 2016- Banaras Hindu University</p> <p>Mid term musculoskeletal CME IRIA (Indian radiological and imaging association)State chapter ,Agra 2016</p> <p>Orthopaedic & Trauma society meet in King Georges University, Lucknow, March 2016</p> <p>Annual meeting of state chapter of IRIA (Indian radiological and imaging association) 2015</p> <p>ISPR(Indian Society of Paediatric Radiology), national conference 2015, Lucknow</p> <p>Dr. G S Bathla Radiology CME 2015 held in Kanpur, June 2015</p> <p>State Conference of gynecology and obstetrics Kanpur Nov 201</p>		
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<p>Faculty of Ian Donald inter-university school of ultraspimd hands on ultrasound workshop</p> <p>1 Obstetrical MRI 2 Radiological approach to adnexal masses</p> <p>Evaluation of prostatic malignancy on MRI</p> <p>Conducted workshop as faculty on Liver Abscess Drainage</p> <p>Imaging of laryngeal malignancy</p> <p>Staging of carcinoma cervix on MRI</p> <p>Contrast reaction and management</p> <p>Interpretation of chest X-rays</p>	<p>State Conference of gynecology and obstetrics held in Kanpur 2015</p> <p>R.K Goulati national radiology CME 2015, held in SGPGIMS (Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow)</p> <p>Image-guided therapy national conference AIIMS(All India Institute of medical sciences) in December 2015</p> <p>IRIA (Indian radiological and imaging association), Uttar Pradesh chapter, Gorakhpur Oct 2014 for</p> <p>IRIA(Indian radiological and imaging association)annual conference Jan 2014</p> <p>Techspire- radiology technician teaching program 2014</p> <p>Annual Conference of the Association of Physicians of India 2013</p>			
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Received Best resident Paper presentation "Role of MRI in Gynaecological Malignancy" Award - "PC Srivastava Oration Award" IRIA (Indian radiological and imaging association) State Chapter held at Jhansi in November'2008

Received best oral paper presentation radiology resident award in radiology meet IRIA(held in 2005 Kanpur)for Role of Ophthalmic Ultrasound in Trauma

Received Certificate of honor in E.N.T. & Physiology in Medical school(MBBS)

Received Best Overall Student Award for final semester exam in medical school (MBBS)

Publications

TITLE	AUTHORS IN SERIAL ORDER	JOURNAL
"Evaluation of the relationship between blood cell parameters and vascular calcification in dialysis dependent end stage renal disease patients."	<i>abhilash chandra, DM; Gaurav Raj, MD; Namrata P Awasthi, MD; Namrata Rao, DM; Divya Srivastava, MD</i>	In press -Clinical and Experimental Nephrology Springer Journals
Quantitative Extra Long PCR to Detect DNA Lesions in Patients Exposed to Low Doses of Diagnostic Radiation	<i>Kainat Khan¹, Shikha Tewari², Madhup Rastogi³, Gaurav Raj Agarwal⁴, Surendra Prasad Mishra³, Nuzhat Husain</i>	Asian Pacific Journal of Cancer Prevention, Vol 19 issue5_Pages 1367-1373 DOI:10.22034/APJCP.2018.19.5.1367
Flow cytometric detection of gamma-X2AX to evaluate DNA damage by low dose	<i>Kainat Khan¹, Shikha Tewari¹, Namrata Punit Asasthi, Surendra Prasad Mishra, Gaurav Raj Agarwal, Madhup Rastogi, Nuzhat Husain</i>	Medical-hypotheses June 2018, volume 115, Pages 22-28 DOI: https://dor.org/10.1016/i.mehy.2018.03.016
Dynamic contrast-enhanced (DCE) MRI-derived kinetic perfusion indices may help predicting seizure control in single calcified neurocysticercosis"	<i>Alok Kumar Singh; Ravindra Kumar Garg; Rakesh Kumar Gupta; Hardeep Singh Malhotra; Gaurav Raj Agrawal; Nuzhat Husain; Chandra Mani Pandey; Prativa Sahoo; Neeraj Kumar</i>	<u>Magnetic Resonance Imaging</u> . 2018 Jan 20. pii: S0730-725X(18)30007-9.

B-scan measurement of optic nerve sheath diameter as a marker of elevated intracranial pressure

Gaurav Raj, Ragini Singh, Manish Deodhar*, Abhishek Chauhan, Tushant Kumar, Manju Gaur

International Journal of Research in Medical Sciences | June 2017 | Vol 5 | Issue 6

Role of dynamic contrast enhanced 3T MRI for differentiation of benign and malignant breast lesions with histopathological correlation

Dr Gaurav Raj, Dr Ragini Singh, Dr Manju Dr. Abhishek Chauhan, Dr. Ashish Singha, Dr Nuzhat Husain

International Journal of Scientific Research, volume-6 | issue-5 | may - 2017 | issn no 2277 - 8179 |

Synovial hemangioma: a pictorial essay of two cases

Gaurav Raj1, Manish S. Deodhar1*, Abhishek Chauhan1, Sachin Avasthi2, Anil Rawat1, Chandrashekhar Verma2

International Journal of Research in Medical Sciences *Raj G et al. Int J Res Med Sci. 2017 May;5(5):2264-2266*

Estimation of Adrenal Gland Morphology in Adult North Indian Population: A CT study

Gaurav Raj, Tushant Kumar, Ashok Kumar Gautam

International Journal of Current Medical and Applied Sciences, 2017, April 4(2), 61-62

Utility of Multiparametric 3T MRI in Grading of Gliomas

Gaurav Raj, Manish Deodhar, Ragini Singh, Abhishek Chauhan, D.K. Singh, Nuzhat Hussain

International Journal of Scientific Research, vol 6, issue 2, , Feb 2017, 62-65

<p>Proton NMR Metabolic profiling of CSF reveals distinct differentiation of meningitis from negative controls,</p>	<p><i>Tanushri Chatterji a,f,1, Suruchi Singh e,1, Manodeep Sen a, 2, Ajai Kumar Singh b , Gaurav Raj Agarwal c , Deepak Kumar Singh d , Janmejai Kumar Srivastava f , Alka Singh g , Rajendra Nath Srivastava g , Raja Roy e</i></p>	<p>Clinica Chimica Acta 469 (2017) 42–52 Mar 15 2017</p>
<p>Secondary torsion of the greater omentum due to long-standing inguinal hernia: A case report</p>	<p>Gaurav Raj, Manju Gaur, Ragini Singh, Tushant Kumar,</p>	<p>European Journal of Pharmaceutical & Medical Research, <i>EPJMR</i>, 2017,4(3), 29-31</p>
<p>Percutaneous “T” and “Y” stenting for palliation of malignant biliary obstruction</p>	<p><i>Abhishek Chauhan, Ragini Singh, Gaurav Raj, Akash Agarwal;</i></p>	<p>International Journal of Scientific Research (Medical Sciences); Volume 5, Issue 9 Sept2016,38-39</p>
<p>MDCT Depiction of Single Coronary Artery and Associated Cardiac Anomalies: Experience from Tertiary Care Hospital-</p>	<p><i>Abhishek Chauhan, , Ragini Singh, Gaurav Raj, Tushant kumar</i></p>	<p>Indian journal of applied research (medical sciences)-vol 6, Issue 9 sept2016 ,695-697</p>
<p>EGFR and HER- 2/neu Expression in Gallbladder Carcinoma: An Institutional Experience.</p>	<p><i>R. Hadi, M.C. Pant, N. Husain, A. Singhal, R. Khurana, G.Raj, S. Masood, N. P. Awasthi .</i></p>	<p>Gulf Journal of Oncology Issue No. 20 - Jan 2016, 12-19</p>
<p>Elevated CA 125 in Disseminated Tuberculosis:</p>	<p><i>D. Kulshreshtha, Gaurav Raj, S. Singh, P. Kumar Maurya, a. K. Singh and a. K. Thacker.</i></p>	<p>A Case Report QJM (oxford press)November 18, 2014, 729-730</p>

<p>Tetralogy of fallots with quadrialvular stenosis a rare coexistence</p>	<p><i>Sudarshan Kumar Vijay, Bhuwan Tiwari, Mukul Misra, Gaurav Raj.</i></p>	<p>BMJ Case Rep 2014. doi:10.1136/bcr-2014-204407</p>
<p>Multiple Tumefactive Demyelinating lesions demonstrated on 3TMRI case report.</p>	<p>Gaurav Raj, Dinkar Kulshrestha, Abhisekh Chauhan, Ajay Singh</p>	<p>Journal of Medicine and Medical Sciences Vol. 5(1) 2014, 41-44.</p>
<p>Aggressive Vertebral Hemangioma : Case Report</p>	<p>Gaurav Raj, Neera Kohli, Simran Singh and Abhishek Chauhan.</p>	<p>Indian journal of life sciences 3(1), 2013, volume 2, 143-145</p>
<p>Vascular skull metastasis from thyroid demonstration by multidetector CT- a case report</p>	<p>Gaurav Raj, Neera Kohli, Abhishek Chauhan, Richa Maheshwari</p>	<p>Indian journal of life sciences 3(1), volume 2, 2013, 147-150</p>
<p>Coronary-cameral fistula from the sinoatrial nodal branch of the right coronary artery draining into the right atrium: demonstration by multidetector</p>	<p><i>Pallavi Aga & Gaurav Raj & Aditya Kapoor & Neera Kohli & Ragini Singh</i></p>	<p>Pediatric Radiology: Volume 41, Issue 12 (2011), 1583-1586, springerlink journals</p>

In Press

Evaluation of the relationship between blood cell parameters and vascular calcification in dialysisdependent end stage renal disease patients., with manuscript number SJKDT_320_18, Saudi Journal of Kidney Diseases and Transplantation

POSTER PRESENTATION

<p>"MDCT Features of Bowel Ischemia: Spotlight on Non Occlusive mesenteric Ischemia" (Abstract CID: 3224255), is accepted as a poster exhibit.</p> <p>Abstract entitled, "Gas producing infections of abdomen and pelvis: A pictorial review" (Abstract CID: 3224270), is accepted for Podium & Poster presentation.</p>	<p>The ASER 2019 Annual Scientific Meeting and Postgraduate Course in Emergency and Trauma Radiology, September 11 - 14, 2019 at the Hyatt Regency Gainey Ranch in Scottsdale, Arizona.</p>
<p>Secondary torsion of the greater omentum due to long-standing inguinal hernia</p>	<p>IRIA (Indian radiological and imaging association), State chapter, BHU (Banaras Hindu University) 2016</p>
<p>Anatomic variants of the biliary tree and implications --percutaneous transhepatic cholangiography a pictorial review</p>	<p>in Indian Society of Vascular and Intervention Radiology Annual Conference 2016</p>
<p>Evaluation of lung ultrasound for the diagnosis of pneumonia & B-scan measurement of optic nerve sheath diameter(ONSD) as a marker of elevated intracranial pressure</p>	<p>Annual Conference of Radiology, AIIMS (All India institute of medical sciences), New Delhi 2015</p>
<p>Identification of MRI Finding In Hypoxic Ischemic Encephalopathy</p>	<p>Indian society of Neuroradiology annual conference 2015 ,Indore.</p>

Effect of poor collimation practices with the use of digital technology on pediatric chest radiograph	13 th Annual Conference of Indian Society of Pediatric Radiology, KGMU (King Georges Medical University), Lucknow 2015
Ultrasound evaluation of renal trauma	the state chapter of IRIA 2015
Common congenital anomalies of CNS	14 th MRI teaching course Mumbai 2014

Research

The chief investigator in the following departmental ongoing/completed intramural project:

1. The role of dynamic contrast enhanced 3T MRI for differentiation of benign and malignant breast lesion with histopathological correlation.
2. The utility of multiparametric 3T MRI in grading of gliomas.
3. Role of dynamic contrast-enhanced and diffusion weighted images 3T MRI in prostate cancer.
4. MR cholangiopancreatography: Tool to define the extent of malignant hilar biliary obstruction and its use in prospective percutaneous interventions.
5. Determinants and accuracy of percutaneous CT guided spine biopsy & evaluation of robotic arm technique

Co-investigator in following intra and extramural ongoing projects:

- 1 Serial blood brain barrier qualification using DCE-MRI in patients with single calcified NCC while on epileptic therapy
- 2 Metabolomic study in body fluids for differentiation of pyogenic & TB meningitis in adults: A pilot study
- 3 Association of hypertension, ultrasonographic parameters of carotid artery and cerebral diffusion tensor imaging in small vessel disease
- 4 EGFR and HER-2/neu expression in gallbladder carcinoma
- 5 Relationship of blood cell parameters with vascular calcification in ESRD (end-stage renal diseases)patients
- 6 Proton MR metabolomic study in serum & urine for differentiating fertility & staging of intra-abdominal hydatid cyst – a pilot study
- 7 Metabolomic study in CSF, serum & urine for rapid diagnosis of cryptococcal meningitis in adults
- 8 Genotoxicity Assessment in Human Lymphocytes Following Exposure to CT scan and Radiotherapy

MEMBERSHIP

- Indian Radiological and Imaging Association (IRIA).
- Corresponding member of European Congress of Radiology.
- Corresponding member of European Society of Gastrointestinal & Abdominal Radiology.
- Indian Society of Neuro-Radiology.
- Indian Society of Paediatric Radiology.
- Radiological Society of North America (RSNA).
- American Roentgen Ray Society (ARRS).
- Society of Abdominal Radiology (SAR).
- Indian Society of Gastro-intestinal & Abdominal Radiology.
- American Society of Emergency Radiology(ASER).

International workshop/courses

- MR imaging course at National University Hospital Singapore
- Breast Ultrasound & Biopsy workshop July 2015 San't Andreas Hospital, Rome
- CT guided lung biopsy workshop at Gentofte Hospital, Copenhagen, Denmark
- Radiofrequency ablation training from interventional radiology unit, King Chulalongkorn Memorial Hospital,
- Attended European Congress of Radiology (Vienna) and international conference of pediatric radiology (Vancouver)

Certified teacher of MCI(medical council of India), did medical teachers training course conducted by MCI in Dec.2013

First radiologist in state to have started robotic guided CT biopsies