

**Biodata**

**Additional Prof. (Dr.) Paramdeep Singh, MD**

Department of **Radiology**, All India Institute of Medical Sciences  
(AIIMS), Bathinda (Punjab), India-151001

(An Autonomous Body Under **Government of** India and  
an Institute of National Importance)

Tel: +91-9872402236, 8847564253

E-mails: paramdeepdoctor@gmail.com,  
radiodiagnosis@aiimsbathinda.in

Date of Birth: 6<sup>th</sup> October 1982  
Citizenship: India

**Professional Web Pages**

ORCID: <https://orcid.org/0000-0003-4226-201X>

Institutional webpage: <https://aiimsbathinda.edu.in/DoctorDetail.aspx?FXoLDJ=sP3bavPId9CjYg6lx6UNTA==>

InterAcademy Partnership (IAP) : <https://www.interacademies.org/person/paramdeep-singh>

Twitter: <https://twitter.com/paramdeepdoctor>

**Education/Training**

1. 2007–2010; **Doctor of Medicine** (MD) ----- Dayanand Medical College and Hospital Ludhiana, India  
(**Radiology**)
2. 2001–2007; **Bachelor of Medicine, Bachelor of Surgery** (MBBS) -----Government Medical College, Patiala, India
3. 2012; **Fellowship Neuroradiology--** European Society of Radiology (ESR) Research and Clinical Fellowship, Department Neuroradiology, University of Freiburg (Germany)

**Other Qualifications**

1. 2020; **Global Health** (Certificate Course)—University of Yale (USA)
2. 2020; **Systematic Reviews and Meta-analysis** (Certificate Course)- John Hopkins University (USA)
3. 2019; Clinical Exchange Programme of World **Stroke** Organization: Department of Neuroradiology, University of Freiburg (Germany)
4. 2015; Medical Informatics ----- Certificate course in **Medical Informatics/Health Information Technology** (HIT); eHealth-Care Foundation, India

## **Professional Appointments** (Total Experience: 13 years approx.)

1. **Senior Resident:** Dayanand Medical College and Hospital, Department of Radiology, Ludhiana, India.
2. **Assistant Professor:** GGS Medical college and Hospital, Department of Radiology, Faridkot, India.
3. **Visiting Faculty (Honorary):** Advanced Cancer Diagnostic Treatment and Research Centre, Bathinda, India.
4. **Associate Professor of Radiology:** GGS Medical college and Hospital, Faridkot, India.
5. Presently working as an **Additional Professor of Radiology;** All India Institute of Medical Sciences (AIIMS), Bathinda (Punjab), India

## **Aims and Vision**

Develop academic clinician leaders by means of a thorough scholastic experience in medical research, education and clinical training. Improve abilities for scholarly analysis, quest of innovation, and spread of knowledge to others including ethical principles in research as well as clinical practice. Employ skills in the quest for life-long learning and providing clinical care to underprivileged populations along with working on preventive and affordable healthcare strategies. Improving the healthcare of the society by means of scientific evidence-based health policy and epidemiological research techniques.

## **Clinical Responsibilities**

- Use imaging techniques such as Computed Tomography (CT), Fluoroscopy, Mammography, Magnetic Resonance Imaging (MRI), Ultrasound, Positron-emission tomography (PET-CT) and X-rays to diagnose and manage a variety of medical conditions and write up the imaging reports.
- Offer specialist expertise and guidance to other doctors and staff from a range of medical specialties in hospital settings to ensure quality treatment.
- Examine patient anatomy, pathology, clinical history, previous imaging, select appropriate radiology techniques for patient diagnosis as well as perform and support patients through various diagnostic and interventional radiology procedures on routine as well as on emergency basis.
- Use Health Information Technology (HIT)/eHealth to provide Health care to patients in remote areas.

## **Specific Clinical Expertise and Interests**

Global Health, Neuroradiology, Evidence-Based Medicine (EBM)

## **MEMBERSHIPS OF NATIONAL/INTERNATIONAL ORGANIZATIONS/BODIES**

### **At National Level**

1. Member of Indian National Young Academy of Science (INYAS)
2. Member of National Academy of Medical Sciences (NAMS)
3. Member of Consultative Group of the Principal Scientific Advisor (PSA) to Government of India
4. Executive Committee member; Indian Society of Neuroradiology (ISNR)
5. ‘Subject Expert’ for National Board of Examinations (NBE)
6. Central Council (CC) Member of Indian Radiological and Imaging Association (IRIA)

## **At International Level**

1. Member of Global Burden of Disease (GBD) Collaborator Network at The Institute for Health Metrics and Evaluation (IHME) at the University of Washington
2. Member of the WHO Diagnostic Technical Advisory Group - Clinical Diagnosis, Imaging and Microscopy Cross Cutting Subgroup
3. United Nations (UN) Sustainable Development Solutions Network (SDSN)
4. Ambassador of Asian Council of Science Editors (ACSE)
5. e-Life Community Ambassador-2019
6. Member of the Global Working group on 'Open Science' consisting of young scientists from Global Young Academy (GYA) and National Young Academies (NYA) for providing inputs to UNESCO.
7. Member of General Council (The 'World Medical Sciences Council' of WAMS)
8. Member of International Board of Radiology of World Academy of Medical Sciences (WAMS)

## **Other Professional Affiliations**

1. International Forum of Teachers (UNESCO chair in Bioethics; Hafia)
2. International Network for Government Science Advice (INGSA)
3. Member of Punjab Academy of Sciences (PAS)
4. Fellow of World Academy of Medical Sciences (WAMS)
5. Fellow of International Medical Sciences Academy (IMSA)
6. Member of Society of Fetal Medicine (SFM)
7. Indian Radiological and Imaging association (IRIA)
8. European Society of Radiology (ESR)
9. Indian Society of Neuroradiology (ISNR)
10. Indian Society of Pediatric Radiology (ISPR)
11. Indian Science Congress Association (ISCA)
12. Indian College of Radiology and Imaging (ICRI)
13. World Stroke Organization (WSO)
14. International Child Neurology Association (ICNA)
15. Infantile Seizure Society (ISS)
16. Korean Society of Radiology (KSR)

**(Dr. Paramdeep Singh; Singh P)**

1. Singh P, Saggar K, Ahluwalia A. Dyke-Davidoff-Masson syndrome: Classical imaging findings. *J Pediatr Neurosci* 2010; 5:124-5.
2. Singh P, Sandhu P, Saggar K, Ahluwalia A. Annular pancreas. *Indian J Gastroenterol.* 2010; 29:250.
3. Singh P, Saggar K, Kalia V, Guleria M. Hair on end skull induced by renal cell carcinoma metastasis. *JK Science* 2010; 12:218.
4. Kaur S, Ahluwalia A, Gupta K, Singh P. Swyer James Syndrome / Macleod's Syndrome with bronchiectasis in Adult - rare presentation – *The Indian Practitioner* 2010;63:656-657.
5. Singh P, Saggar K, Sandhu P, Guleria M. Ulegyria: The mushroom gyri. *JK science* 2011;13: 53.
6. Singh P, Goraya JS, Gupta K, Saggar K, Ahluwalia A. Magnetic resonance imaging findings in Reye syndrome: case report and review of the literature. *J Child Neurol.* 2011;26: 1009-14.
7. Singh P, Saggar K, Ahluwalia A, Sandhu P. Teaching NeuroImages: Megaloencephalic leukoencephalopathy with subcortical cysts (Van der Knaap disease). *Neurology.* 2011; 76:e34.
8. Singh P, Goraya JS, Ahluwalia A, Saggar K. Teaching NeuroImages: Glutaric aciduria type 1 (glutaryl-CoA dehydrogenase deficiency). *Neurology.* 2011;77:e6.
9. Singh P, Saggar K, Kalia V, Sandhu P, Galhotra RD. Thoracic imaging findings in a case of disseminated cysticercosis. *Postgrad Med J.* 2011; 87:158-9.
10. Singh P, Ahluwalia A, Saggar K, Grewal CS. Wilson's disease: MRI features. *J Pediatr Neurosci* 2011;6:27-8.
11. Singh P, Goraya JS, Saggar K, Ahluwalia A. A report of Joubert syndrome in an infant, with literature review. *J Pediatr Neurosci* 2011;6:44-7.
12. Singh P, Gupta AK, Saggar K, Kaur M. Acute disseminated encephalomyelitis subsequent to *Leptospira* infection. *Ann Trop Med Public Health* 2011; 4:133-5.
13. Singh P, Bhandal SK, Saggar K. Hyperglycemia-induced hemichorea-hemiballism (HCHB). *Acta Neurol Belg.* 2012;112:109-10.
14. Singh P, Goraya JS, Saggar K, Ahluwalia A. Aicardi syndrome. *Singapore Med J.* 2012;53:e153-5.
15. Galhotra R, Gupta K, Kaur S, Singh P. Bilateral persistent hyperplastic primary vitreous: A rare entity. *Oman J Ophthalmol* 2012;5:58-60.
16. Galhotra R, Saggar K, Gupta K, Singh P. Primary isolated extramedullary plasmacytoma of mesentery: A rare case report. *Gulf J Oncolog.* 2012;1:81-4.
17. Singh P, Saggar K, Sandhu P. Hypoparathyroidism. *Asian J Neurosurg* 2012;7:45-6.
18. Singh P, Bhandal SK, Saggar K, Pooni PA, Jaswal RS. Pseudotumoral hemocerebellitis with hemorrhage. *J Pediatr Neurosci* 2012;7:49-51.
19. Singh P, Saggar K, Kaur M, Pannu DS. Magnetic resonance imaging in pantothenate kinase-2-associated neurodegeneration. *J Pediatr Neurosci* 2012; 7:27-9.
20. Singh P, Mittal G, Kaur R, Saggar K. Role of Magnetic Resonance Cholangiopancreatography (MRCP) and Cross-sectional MR Imaging in Malignant Biliary Obstruction: A Pictorial Review. *EPOS* 2012; C-0915. [Cited: 2018 September 25] Available from: <http://dx.doi.org/10.1594/ecr2012/C-0915>.
21. Singh P, Kaur M, Kaur R, Mittal G, Saggar K. Tuberculosis (TB) of the Central Nervous System: Clinical and MR Imaging Findings. *EPOS* 2012 March; C-0849. [Cited: 2018 September 25] Available from: <http://dx.doi.org/10.1594/ecr2012/C-0849>.
22. Singh P, Mittal G, Kaur R, Saggar K. Magnetic Resonance Imaging of Mesial Temporal Sclerosis (MTS): What radiologists ought to know? *EPOS* 2012 March; C-0856. [Cited: 2018 September 25] Available from: <http://dx.doi.org/10.1594/ecr2012/C-0856>.
23. Singh P, Mittal G, Kaur R, Saggar K. Spectrum of Brain MR Imaging Findings in Children with Epilepsy. *EPOS* 2012 March; C-0853. [Cited: 2018 September 25] Available from: <http://dx.doi.org/10.1594/ecr2012/C-0853>.
24. Kaur R, Singh P, Kaur A, Mahajan DS, Kaur H. Effect of Rimonabant on the components of Metabolic Syndrome: A Randomized Controlled Study done on Punjabi Population. *J Pharm Negative Results* 2013;4:46-53.
25. Singh P, Bajaj K, Kaur R, Mishra A, Riar HK. Ruptured Seminoma Of Undescended Testis Presenting As Acute Abdomen: Case Report With Literature Review. *Ann Med Health Sci Res* 2013;3:108-9.
26. Singh P, Kaur R, Kaur A. Clot composition and treatment approach to acute ischemic stroke: The road so far. *Ann Indian Acad Neurol* 2013;16:494-7.
27. Singh P, Kaur R, Kaur A. Endovascular treatment of acute ischemic stroke. *J Neurosci Rural Pract* 2013;4:298-303.

28. Aggarwal S, Garg N, Singh AMP, Singh P. Imaging in Non communicating Rudimentary horn pregnancy – A case report. *International Journal of Clinical Cases and Investigations* 2013;5:47-52.
29. Singh P, Doostkam S, Reinhard M, Ivanovas V, Taschner CA. Immunohistochemical analysis of thrombi retrieved during treatment of acute ischemic stroke: does stent-retriever cause intimal damage? *Stroke*. 2013;44:1720-2.
30. Singh P, Kaur R, Saggar K, Singh G, Kaur A. Qualitative and Quantitative Hippocampal MRI assessments in Intractable Epilepsy. *Biomed Research International*. 2013;2013:480524.
31. Singh P, Kaur R. In: Nema HV, Nema N, eds. *An update on Imaging in Neuro-ophthalmology. Recent advances in Ophthalmology*. 1st ed. New Delhi: Jaypee brothers; 2013. p. 341-355. (chapter in book)
32. Singh P, Kaur R, Kaur A. Frequency distribution of Hepatitis C virus in different geographical regions of Punjab: Retrospective study from a tertiary care centre in North India. *J Nat Sc Biol Med* 2014;5:56-8.
33. Aggarwal S, Singh P, Singh S, Kaur R. Imaging Section. *Baba Farid Univ Med Journal* 2014;1:45-48.
34. Singh P, Doostkam S, Reinhard M, Ivanovas V, Taschner CA. Histopathological analysis of thrombi retrieved by endovascular mechanical extraction during acute ischemic stroke. *Int J Stroke* 2014;9:143. (Abstract)
35. Singh R, Singh P, Kaur R, Rai R, Aggarwal S. Respiratory symptoms as an initial presentation of choriocarcinoma. *Clin Cancer Investig J* 2015;4:555-7
36. Singh R, Singh P, Rai R, Aggarwal S, Kaur R. A report of a case of desmoplastic small round cell tumor of peritoneum. *Clin Cancer Investig J* 2015;4:665-9.
37. Singh P, Kaur A, Kaur R, Aggarwal S, Singh R. Symmetrical central tegmental tract hyperintensities on magnetic resonance imaging. *J Pediatr Neurosci* 2015;10:235-6.
38. Kaur R, Kajal KS, Kaur A, Singh P. Telephonic Consultation and follow-up in Diabetics: Impact on Metabolic Profile, Quality of Life, and Patient Compliance. *N Am J Med Sci*. 2015;7:199-207.
39. Singh P, Aggarwal S, Singh Kapoor AM, Kaur R, Kaur A. A prospective study assessing clinician's attitude and knowledge on Radiation Exposure to patients during Radiological Investigations. *J Nat Sci Biol Med*. 2015;6:398-401.
40. Singh P, Kaur R, Saggar K, Singh G, Aggarwal S. Amygdala Volumetry in patients with Temporal lobe epilepsy and normal Magnetic Resonance Imaging. *Pol J Radiol*. 2016;81:212-8.
41. Singh P, Kaur R, Singh R, Kaur M. Oculomotor nerve schwannoma of orbit with extension into cavernous sinus. *Clin Cancer Investig J* 2016;5:278-80.
42. Singh P, Kaur R, Kaur M. Recurrent parotid pleomorphic adenoma with transcranial spread. *Clin Cancer Investig J* 2016;5:272-3.
43. Singh P, Kaur R. Diffusion-weighted magnetic resonance imaging findings in a case of metachromatic leukodystrophy. *J Pediatr Neurosci* 2016;11:131-3.
44. Kaur R, Garg S, Kaur N, Singh P. Disseminated hydatidosis with rare presentation as "cystovesical fistula". *BJR Case Rep* 2016; 2: 20150222.
45. Sulena, Singh P, Kaur R, Kumar N. Ischemic stroke due to occlusion of the artery of Percheron. *Indian J Crit Care Med* 2016;20:251-2.
46. Kaur R, Singh P, Kajal KS, Aggarwal S. Facial colliculus syndrome. *CHRISMED J Health Res* 2016;3:242-3
47. Singh P, Kaur R, Tapasvi C, Kaur R. Developmental delay in children with septo-optic dysplasia-plus. *Indian J Cereb Palsy* 2016;2:58-9.
48. Kaur R, Singh P, Kaur N, Bhatnagar S, Dahuja A. Role of Computed Tomography (CT) in localization and characterization of suprahyoid neck masses. *Pol J Radiol*. 2017;82:263-270.
49. Tapasvi C, Aggarwal S, Tapasvi C, Singh P, Gehlot K, Sharma A. Normal Measurements of Posterior Pituitary Bright Spot on Magnetic Resonance Imaging (MRI)- A Study in a tertiary care Hospital of North India. *Ind J Basic App Med Res* 2017;6:217-24.
50. Kaur R, Singh P. Central or atypical skull base osteomyelitis. *J NTR Univ Health Sci* 2017;6:200-1.
51. Kaur R, Aggarwal S, Singh P, Dahuja A. Intracranial schwannomas arising from cranial nerves: Case series and review of literature. *J NTR Univ Health Sci* 2017;6:55-9.
52. Singh P, Aggarwal S, Tapasvi C. Neurenteric Cyst: Magnetic Resonance Imaging Findings in an Adolescent. *J Pediatr Neurosci*. 2017;12:29-31.
53. Tapasvi C, Singh P, Tapasvi C, Sharma A, Singh S. Quantitative Determination of Normal Anterior Pituitary Gland Dimensions in North Indian Population by Magnetic Resonance Imaging (MRI). *Ind J Basic App Med Res* 2017;6:535-42.
54. Singh P, Kaur R. Dural ectasia associated with type-1 neurofibromatosis. *J NTR Univ Health Sci* 2018;7:154-5.
55. Khutan H, Kaur R, Singh G, Singh P, Kaur A. Case of disseminated community-acquired methicillin-resistant *Staphylococcus aureus*: Unique behavior of the organism in an immunocompetent adult. *Arch Med Health Sci* 2018;6:254-6.
56. Singh P, Kaur R, Kaur R. A report of cerebellopontine angle epidermoid presenting with trigeminal neuralgia. *CHRISMED J Health Res* 2019;6:184-6

57. Kaur M, Singh P, Saggar K, Kaushal RK, Bansal RK. Role of cine phase-contrast magnetic resonance imaging in the management of normal pressure hydrocephalus. *West Afr J Radiol* 2019;26:80-9.
58. Kaur R, Dahuja A, Singh P, Aggarwal S. Hemophilic arthropathy of the knee: A case report with discussion on the role of imaging with review of literature. *J Clin Sci* 2019;16:101-4.
59. Kaur R, Aggarwal S, Gadhavi S, Dahuja A, Singh P. Multiple intraventricular brain metastasis in a case of non-small cell lung carcinoma. *Vasc Invest Ther* 2019;2:82-4.
60. Singh R, Prakash S, Singh P, Kaur R, Rai R. Anterior spinal cord infarction as a complication of bronchial artery embolization in the management of recurrent hemoptysis. *Vasc Invest Ther* 2019;2:51-3.
61. Narang A, Maheshwari C, Aggarwal V, Bansal P, Singh P. Gorlin-Goltz Syndrome with Intracranial Meningioma: Case Report and Review of Literature. *World Neurosurg.* 2019;133:324-330.
62. Kaur R, Dahuja A, Garg S, Bansal K, Garg RS, Singh P. Correlation of acromial morphology in association with rotator cuff tear: a retrospective study. *Pol J Rad.* 2019;84:459-63.
63. Singh P, Tapasvi C, Kaur R, Aggarwal S, Kaur R. Prospective randomized comparison of Ultrasound guided percutaneous needle aspiration and percutaneous catheter drainage of Liver abscesses *J Med Sci* 2019;39:67-73.
64. Goyal LD, Bakshi DK, Arora JK, Manchanda A, Singh P. Assessment of fluoride levels during pregnancy and its association with early adverse pregnancy outcomes. *J Family Med Prim Care* 2020;9:2693-8.
65. Goyal LD, Dhaliwal B, Singh P, Ganjoo S, Goyal V. Management of mullerian development anomalies: 9 years' experience of a tertiary care center. *Gynecol Minim Invasive Ther* 2020;9:81-7.
66. Kochhar J, Soin D, Goyal LD, Aggarwal S, Garg R, Singh P, Khutan H. Clinicoradiological profile of cerebrovascular disease in hypertensive disease of pregnancy. *J Adv Med Dent Scie Res* 2020;8:197-202.
67. Kaur A, Kaur G, Dhir SK, Rai S, Sethi A, Brar A. Pediatric Risk of Mortality III score – Predictor of mortality and hospital stay in pediatric intensive care unit. *J Emerg Trauma Shock* 2020;13:146-50.
68. Singh P, Kaur R. Magnetic resonance imaging findings in case of Huntington's disease. *J Clin Sci* 2020;17:9-10.
69. Kaur A, Thukral CL, Khanna G, Singh P. Role of diffusion-weighted magnetic resonance imaging in the evaluation of vertebral bone marrow lesions. *Pol J Radiol.* 2020;85:e215-e23.
70. Singh P. Unsustainability and Pandemics: Exploring the relationship and finding the crucial underlying factor. *INGSA*; 15 May 2020. Available at: <https://www.ingsa.org/covidtag/covid-19-commentary/singh-unsustainability/>.
71. Singh P. Scientific Advice During Pandemics: Exploring The Role Of Clinicians. *INGSA*; 15 April 2020. Available at: <https://www.ingsa.org/covidtag/covid-19-commentary/singh-clinicians/>
72. Aggarwal V, Narang A, Maheshwari C, **Singh P**. Primary bilateral thalamic glioma with bipeduncle involvement of midbrain. *Vasc Invest Ther* 2020;3:97-8.
73. Singh R, Rai R, **Singh P**, Sethi S, Ahluwalia AP, Choudhary G. High-resolution computed tomography (HRCT) in pediatric and adult patients with unsafe chronic suppurative otitis media (CSOM) and its surgical correlation. *J Family Med Prim Care* 2020;9:4067-73.
74. Singh P. Why COVID-19 pandemic builds a convincing case for investing in 'Young Physician Leaders (YPL)'. *J Family Med Prim Care.* 2020 Nov 30;9(11):5432-5434.
75. Kaur R, Dahuja A, Kaur C, Singh J, Singh P, Shyam R. Correlation between Chondromalacia Patella and Patellofemoral Factors in Middle-Age Population: A Clinical, Functional, and Radiological Analysis. *Indian J Radiol Imaging.* 2021 Apr;31(2):252-258.
76. Aggarwal V, Narang A, Maheshwari C, Singh P. Acute subdural hematoma after spinal surgery. *Vasc Invest Ther* 2021;4:25-6.
77. Khan R, Chaturvedi P, Sahu P, Ludhiadch A, Singh P, Singh G, Munshi A. Role of Potassium Ion Channels in Epilepsy: Focus on Current Therapeutic Strategies. *CNS Neurol Disord Drug Targets.* 2022 Dec 27.
78. Peer S, Kaur S, Singh P, Kaur H, Kaur N, Kumar K, Singh R. Cerebrofacial venous metameric syndrome type 2+3: face is the index of brain. *Radiol Case Rep.* 2022 Oct 29;18(1):126-130. doi: 10.1016/j.radcr.2022.10.009.
79. Peer S, Jabbal HS, Singh P, M PS, Kakker S, Bhat P. A case report of successful percutaneous aspiration, injection, and re-aspiration (PAIR) technique for treatment of retrovesical pelvic hydatid cyst. *Radiol Case Rep.* 2022 Nov 15;18(1):331-334.
80. GBD 2019 Antimicrobial Resistance Collaborators. Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet.* 2022 Dec 17;400(10369):2221-2248.
81. Abhilash Ludhiadch, Sulena Sulena, Sandeep Singh, Paramdeep Singh. Genomic Variation Affecting MPV and PLT count in association with development of Ischemic Stroke and its Subtypes, 12 December 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-2333866/v1>].
82. Mathew BA, Katta M, Ludhiadch A, Singh P, Munshi A. Role of tRNA-Derived Fragments in Neurological Disorders: a Review. *Mol Neurobiol.* 2023 Feb;60(2):655-671. doi: 10.1007/s12035-022-03078-w.



83. Kaur H, Ahuja J, Singh P, Dhillon NK, Samagh N, Tiwari P. Necrotic mediastinal lymphadenopathy: Tuberculosis or Sarcoidosis, a diagnostic conundrum –A case report and review of the literature. *J Family Med Prim Care* 2022;11:7425-9.
84. Zou Z, Liu G, Hay SI, Basu S, Belgaumi UI, Dhali A, Dhingra S, Fekadu G, Golechha M, Joseph N, Krishan K, Martins-Melo FR, Mubarik S, Okonji OC, A MP, Rath P, Shetty RS, Singh P, Singh S, Thangaraju P, Wang Z, Zastrozhin MS, Murray CJL, Kyu HH, Huang Y. Time trends in tuberculosis mortality across the BRICS: an age-period-cohort analysis for the GBD 2019. *E Clinical Medicine*. 2022 Sep 17;53:101646.
85. GBD 2019 LRI Collaborators. Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. 2022 Nov;22(11):1626-1647. doi: 10.1016/S1473-3099(22)00510-2.
86. Jakhar K, Vaishnavi S, Kaur P, Singh P, Munshi A. Pharmacogenomics of GLP-1 receptor agonists: Focus on pharmacological profile. *Eur J Pharmacol*. 2022 Dec 5;936:175356. doi: 10.1016/j.ejphar.2022.175356.
87. GBD 2019 Cancer Risk Factors Collaborators. The global burden of cancer attributable to risk factors, 2010-19: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2022 Aug 20;400(10352):563-591. doi: 10.1016/S0140-6736(22)01438-6.
88. Singh T, Kaur P, Singh P, Singh S, Munshi A. Differential molecular mechanistic behavior of HDACs in cancer progression. *Med Oncol*. 2022 Aug 16;39(11):171.
89. GBD 2019 Adolescent Transport and Unintentional Injuries Collaborators. Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019. *Lancet Public Health*. 2022 Aug;7(8):e657-e669.
90. Chopra H, Brar R, Rathore DS, Dwivedi A, Prasad A, Rana S, Paramdeep Singh. A prospective study to evaluate the role of multiparametric magnetic resonance imaging in the grading of gliomas using magnetic resonance imaging perfusion and diffusion and multivoxel magnetic resonance spectroscopy. *J Clin Sci Res* 2022;11:150-6.
91. Kaur N, Kaur N, Chhabra HS, Singh M, Singh P. A case report of sciatic hernia as a cause of sciatica and lower back pain: Diagnostic dilemma for family physicians. *J Family Med Prim Care*. 2022 Jun;11(6):3304-3307.
92. Singh J, Thukral CL, Singh P, Pahwa S, Choudhary G. Utility of sonographic transcerebellar diameter in the assessment of gestational age in normal and intrauterine growth-retarded fetuses. *Niger J Clin Pract*. 2022 Feb;25(2):167-172.
93. Agashe D, Maheshwary S, Pattanaik JK, Prakash J, Bhatt P, Arya SS, Chatterjee S, Kumar P, Singh P, Abbas N, Sharma CK, Chaudhuri CR, Devi P. Career challenges for young independent researchers in India. *Curr Sci*. 2022;122(2):135-43.
94. Brar R, Rathore DS, Dwivedi A, Prasad A, Rana S, Garg S, et al. Viral encephalitis: A mere evil doppelganger or a mini-me of glioblastoma. *J Clin Sci Res* 2022.
95. Shankar A, Brar R, Dwivedi A, Rathore DS, Prasad A, Rana S, et al. Utility of percentage signal recovery derived from dynamic susceptibility contrast perfusion magnetic resonance imaging for differentiating glioblastoma, lymphoma, metastasis and meningioma: An observational prospective study. *J Clin Sci Res*, 2022.
96. Kumar S, et al. Study of Carotid Intimal Medial Thickness in Chronic Kidney Disease at Rural Teaching Hospital. *Ann Med Health Sci Res*. 2017; 7: 76-80.
97. Aggarwal V, Narang A, Maheshwari C, Singh P. Bilateral medulloblastoma. *Vasc Invest Ther* 2020;3:136-7.
98. Makhija P, Kaur R, Kaur S, Singh P. Diagnostic accuracy of cardiac biomarkers in chronic kidney disease patients for detecting occurrence of acute coronary syndrome: A comparative study. *Acta Med Int* 2020;7:130-6
99. Kumar K, Kaur S, Kaur R, Kaur T, Singh P. The role of contrast-enhanced ultrasound in the evaluation of hepatobiliary lesions and its correlation with pathological findings. *Pol J Radiol*. 2022 Dec 8;87:e661-e667.
100. GBD Fatty Liver Disease-SDG Collaborators. The global Fatty Liver Disease-Sustainable Development Goal country score for 195 countries and territories. *Hepatology* ();10.1097/HEP.0000000000000361, April 18, 2023. | DOI: 10.1097/HEP.0000000000000361
101. Singal, A., Chaudhary, P. & Singh, P. External occipital protuberance classification with special reference to spine type and its clinical implications. *Surg Radiol Anat* 45, 555–561 (2023). <https://doi.org/10.1007/s00276-023-03133-8>
102. Peer S, Jabbal HS, Singh P, M PS, Kakker S, Bhat P. A case report of successful percutaneous aspiration, injection, and re-aspiration (PAIR) technique for treatment of retrovesical pelvic hydatid cyst. *Radiol Case Rep*. 2022 Nov 15;18(1):331-334.
103. Kaur H, Ahuja J, Singh P, Dhillon NK, Samagh N, Tiwari P. Necrotic mediastinal lymphadenopathy: Tuberculosis or Sarcoidosis, a diagnostic conundrum –A case report and review of the literature. *J Family Med Prim Care* 2022;11:7425-9.
104. GBD 2019 LRI Collaborators. Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. 2022 Nov;22(11):1626-1647. doi: 10.1016/S1473-3099(22)00510-2.

105. Zou Z, Liu G, Hay SI, Basu S, Belgaumi UI, Dhali A, Dhingra S, Fekadu G, Golechha M, Joseph N, Krishan K, Martins-Melo FR, Mubarik S, Okonji OC, A MP, Rathi P, Shetty RS, Singh P, Singh S, Thangaraju P, Wang Z, Zastrozhin MS, Murray CJL, Kyu HH, Huang Y. Time trends in tuberculosis mortality across the BRICS: an age-period-cohort analysis for the GBD 2019. *EClinicalMedicine*. 2022 Sep 17;53:101646. doi: 10.1016/j.eclinm.2022.101646.
106. Peer S, Singh P. Intraluminal arterial transit artifact as a predictor of intracranial large artery stenosis on 3D time of flight MR angiography: Expanding the application of arterial spin labeling MRI in ischemic stroke. *J Clin Imaging Sci* 2023;13:17.
107. GBD 2021 Diabetes Collaborators. Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2023 Jul 15;402(10397):203-234. doi: 10.1016/S0140-6736(23)01301-6. Epub 2023 Jun 22.
108. Shin YH, Hwang J, Kwon R, Lee SW, Kim MS; GBD 2019 Allergic Disorders Collaborators; Shin JI, Yon DK. Global, regional, and national burden of allergic disorders and their risk factors in 204 countries and territories, from 1990 to 2019: A systematic analysis for the Global Burden of Disease Study 2019. *Allergy*. 2023 Aug;78(8):2232-2254.
109. Ludhiadch A, Sulena, Singh S, Chakraborty S, Sharma D, Kulharia M, Singh P, Munshi A. Genomic Variation Affecting MPV and PLT Count in Association with Development of Ischemic Stroke and Its Subtypes. *Mol Neurobiol*. 2023 Jul 15. doi: 10.1007/s12035-023-03460-2. Epub ahead of print.
110. GBD 2021 Anaemia Collaborators. Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990-2021: findings from the Global Burden of Disease Study 2021. *Lancet Haematol*. 2023 Jul 31:S2352-3026(23)00160-6. doi: 10.1016/S2352-3026(23)00160-6. Epub ahead of print.
111. GBD 2019 Meningitis Antimicrobial Resistance Collaborators. Global, regional, and national burden of meningitis and its aetiologies, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurol*. 2023 Aug;22(8):685-711. doi: 10.1016/S1474-4422(23)00195-3. PMID: 37479374.

#### Books Published

1. Chaudhary P, Peer S, Manaktala I, Singh P. *RadioCad: Correlative Atlas of Radiological and Cadaveric Anatomy of the Human Brain and Skull*. Notion Press. ISBN:9798888839188. 2022.
2. Singh P, Peer S, Randhawa KS (Ed.). (2022). *An Atlas of Signs in Neuroradiology* ISBN : 9789394238862.

#### **List of Honors, Grants, Awards and Memberships**

1. Fellowship of Indian College of Radiology (FICR)-2023
2. President appreciation award by Indian Radiological and Imaging Association (IRIA)-2023
3. Appointed as a member of the Global Burden of Disease (GBD) Collaborator Network by The Institute for Health Metrics and Evaluation (IHME) at the University of Washington-2022
4. Appointed as a member of the Diagnostic Technical Advisory Group- Clinical Diagnosis, Imaging and Microscopy Cross Cutting Subgroup by the World Health Organization (WHO)-2021
5. Scholarship to attend the World Health Assembly at WHO headquarters (Geneva)-2021
6. Invited as a Speaker at the World Health Summit-2020, Berlin (Germany)
7. Young Physician leader (YPL) by the InterAcademy Partnership (IAP)-2019
8. Focal point; United Nations (UN) Sustainable Development Solutions Network-2019
9. Educational Grant by Asia Pacific Intensive Care Forum-2019
10. eLife Community Ambassador-2019
11. Membership; Indian National Young Academy of Science (c/o Indian National Science Academy)-2019
12. Membership; National Academy of Medical Sciences (NAMS)-2019
13. Fellowship; International Medical Sciences Academy (IMSA)-2019
14. Fellowship; World Academy of Medical Sciences (WAMS)-2019
15. Clinical Exchange Programme Scholarship by World Stroke Organization (WSO)-2018
16. Young Investigator Award by World Stroke Organization-2016 (WSO).
17. Best Research Paper award at Annual Conference of Indian Society of Neuroradiology-2016 (ISNR).
18. Ambassador of the Asian Council of Science Editors-2016 (ACSE).



19. Membership of Punjab Academy of Sciences (PAS)-2015
20. Educational grant by Cerebrovascular Research and Educational Foundation-2015 (CREF).
21. Fellowship cum Scholarship Programme by European Society in Radiology-2012 (ESR).
22. German Remedies Travelling Fellowship by Indian College of Radiology and Imaging (ICRI)-2012.
23. 'Invest in the Youth' Programme Scholarship by European Society of Radiology (ESR)-2012.
24. International Travel Fellowship Grant by Indian Radiology and Imaging Association-2011 (IRIA).
25. Medical Student scholarship by International Society for Magnetic Resonance in Medicine-2008 (ISMRM).
26. 1<sup>st</sup> rank in Postgraduate Medical entrance examination in the state of Punjab-2007.
27. 'Subject Expert' for National Board of Examinations (NBE).

### **Administration and Leadership**

Served as the Chief Executive and Administrative head (President) of the Association of Doctors/Medical Teachers of institution. The undersigned is currently working as Head of the Radiology Department at AIIMS Bathinda and Chairperson of the Institutional Ethical Committee (IEC) of Central University of Punjab.

Involved in adequate organization of clinical, consultative or referral services and regularly participates in efforts to improve the administrative support and infrastructure of the department and institution (space, equipment, efficiency and organization of clinical services and research).

### **Starting new clinical services in the hospital/department for the benefit of society**

Introduction of newer MRI techniques for clinical use and for Neurosciences research.

Introduced all the non-vascular minimally invasive interventional procedures in the hospital for the benefit of the poor patients who cannot afford private treatment. These procedures comprise Percutaneous drainage of abscesses and collections (PCD), percutaneous-transhepatic biliary drainage (PTBD), Percutaneous Nephrostomy (PCN), Ultrasound guided Fine needle aspiration cytology (FNAC) and biopsies of Benign and Malignant lesions.

### **Teaching Responsibilities**

Clinical teaching of undergraduate students, post-graduate students (residents) and senior residents by means of case discussions, classroom lectures, out-patient clinics, Interdepartmental meets, interesting case discussions, seminars, journal clubs and mortality-morbidity conferences.

Assisting the residents in performing diagnostic and common interventional radiological procedures.

Training the residents in research activities including paper presentations, preparation of manuscripts, teaching them bioethics in research and mentoring them for their research projects/thesis.

### **Important Scientific Presentations at International meetings (Total Scientific Presentations – 60+)**

--Acute Stroke: State-of-the-art Imaging and recent advances-- presented at 7th International Stroke Summit (ISS-2011), held in Nanjing, China.

--Role of Magnetic Resonance Cholangiopancreatography (MRCP) and Cross-sectional MR Imaging in Malignant Biliary Obstruction--presented at Korean Congress of Radiology (Seoul-2011) Korea.

--Magnetic Resonance Imaging of Mesial Temporal Sclerosis (MTS): What the radiologist needs to know-- presented at European Congress of Radiology (ECR-2012) held in Vienna, Austria.

--Magnetic Resonance Imaging in Pediatric Epilepsy-- presented at Asian and Oceanian Congress of Neurology (AOCN-2014) held at Macau, China.

--Histopathological analysis of thrombi retrieved by endovascular mechanical extraction during acute ischemic stroke-- presented at World Stroke Congress (WSC-2016) at Hyderabad, India.

--Role of Magnetic Resonance Imaging (MRI) in Tuberculous Meningitis (TBM)--presented at World Congress of Neurology (WCN-2017) held at Kyoto, Japan.

--Comparison of Bedside Lung Ultrasound with Chest-rays in the evaluation of Chest Pathologies in critically-ill patients—presented at Asia Pacific Intensive Care Meeting (6th SG-ANZICS) held at Singapore-2019.

## **Current Funded Research Projects**

MRI Elastography in Pituitary adenomas, Functional MRI and genetics of patients with major depressive disorders, Hospital Based Stroke Registry, Hospital Based Cancer Registry

## **Other Academic Activities**

1. Editor/Editorial Board Member/Reviewer: Frontiers in Stroke, Indian Journal of Applied Radiology (IJAR), Journal of Biomedical Graphics and Computing, Nigerian Journal of Clinical Practice, Journal of Neurosciences in Rural Practice, The Cerebellum, Pediatric Neuroradiology and Indian Journal of Medical Research,
2. Organizing and conducting Continuing Medical Education (CME) for Specialists, Primary Health Care providers, Residents and Students by means of onsite training and through distance education.

## **Community Service**

Involved in Pulse Polio Immunization campaign, Serving Cancer patients as an Honorary Visiting Faculty at Advanced Cancer Centre, engaged in creating awareness among general public regarding prevention as well as detection of early symptoms of common communicable and non-communicable diseases, and participates in medical camps as a part of community outreach, participated in global projects ('No more plastic' and 'Innovation lab Schools' projects), Involved in Science Outreach activities in remotely located village school and colleges as a member of the Indian National Young Academy of Science (INYAS).

## **Special contributions to promotion and management of science**

- Practicing Evidence-Based Medicine (EBM) by integrating clinical experience and patient values with the best available research information. For instance, am involved in educating the patients and fellow clinicians regarding harmful effects of repeated exposure of ionizing radiation from radiological procedures, the need for justification and optimization of these procedures and the protection from the same.
- As a committee member, contributed and coordinated the efforts of the Institution in starting various job oriented, community oriented, need based education & training programmes in the institutions affiliated to the Baba Farid University of Health Sciences, which have helped many paramedical students in acquiring meaningful jobs in various sectors.
- As an Assistant Programme Coordinator, contributed in starting post-graduate medical courses in institution for the medical students from all over the country.
- Have participated in program aimed at serving remote areas by means of Telemedicine and delivering distance education by satellite network. This project has played an important role in the training and continuing medical education of healthcare professionals in remote areas.
- Contributed as a member of many institutional/government committees related to teaching, research, clinical practice and medico-legal issues.
- As a focal point for Sustainable Development Solutions Network (SDSN) and as a member of SDSN-Youth Solutions Hub, the undersigned is working in promoting practical solutions for sustainable development, including the implementation of the Sustainable Development Goals (SDGs).
- Contributed in publishing an Environmental justice guide for school students based on United Nations (UN) Sustainable Development Goals (SDG) in collaboration with Smithsonian Science Education Center (USA) and InterAcademy partnership (IAP).