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DECEMBER 2024

ISPR NEWSLETTER

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FOUNDED DEC. 2003 Pondicherry



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From the Desk of the President



Wishing all ISPR members a Happy Festive Season ! The newly elected executive of ISPR welcomes all its members as well as the newly formed sub-committees . We have some very talented and dynamic young dedicated Pediatric Radiologists who will carry forward the flag of ISPR. We have the upcoming ISPR Mid-Term CME on 09/03/2025 to be held at Mangalore Exciting times are ahead with ISPR and we want all to take part in the ISPR activities. Wishing all members a very happy New Year 2025 ahead.

Dr. Bijon Kundu President ISPR



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From the Secretary's Desk

Dear friends,

Season's Greetings!

I consider it a privilege and honour to be chosen and asked to continue as General Secretary for one more term.

I would like to once again congratulate Team Lucknow for a wonderful National Annual Conference in September 2024!

As you are aware, the Society is mandated to conduct a mid-term conference, and outreach CMEs in smaller cities, to take current concepts and good practice of paediatric radiology to all parts of the country.

To increase its visibility, and include more interested capable members in the functioning of the Society, new Committees have been formulated at the annual conference at Lucknow (see page #21).

Please keep sending your suggestions to take the Society to greater heights.

Best wishes for a Healthy, Peaceful 2025!

Warm regards, **Dr. Sridhar Gibikote** General Secretary ISPR



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Editor's Desk

Season's Greetings to all ISPR members!

This end-of-year edition of the Newsletter is packed with information highlighting the achievements of our esteemed ISPR

This year has seen the enthusiastic involvement of a new generation of paediatric radiologists who are eager to teach and encourage their residents to develop skills in paediatric radiology.

The ISPR Annual Conference at Lucknow in September 2024 was a resounding success with engaging lectures from both national and international experts. Congratulations Team Lucknow !

As we usher in 2025, I wish everyone happiness and health in the coming year.

May ISPR grow in strength, inspire and educate for many years to come !

Warm regards, **Dr. C.V.Kanimozhi** Editor ISPR Newsletter

community.



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Upcoming Events

SPR 2025 TRAUMA AND ER IMAGING SYMPOSIUM



LIVE ONLINE | JANUARY 30 - 31

SPR 2025 TRAUMA & ER IMAGING COURSE LIVE ONLINE | JANUARY 30-31

TOPICS INCLUDE:

- Techniques such as rapid MRI to enhance diagnosis and decision making
- Clinical perspectives and special consideration in emergency imaging
 Pathologies frequently encountered in
- Pathologies frequently encountered in the pediatric emergency and acute setting
- Panel discussions



- B. IN AND SHOULD NOU ATTEND?
 * Receive a recorded version of the Course!
 * Update your knowledge on pediatric
- emergency imaging techniques! Interact with presenters & participants!

Recordings of presentations will be available according to approval from the Course faculty.

LEARN MORE HER

For further details visit

https://www.spr.org/events/trauma-and-emergency-imaging-2025



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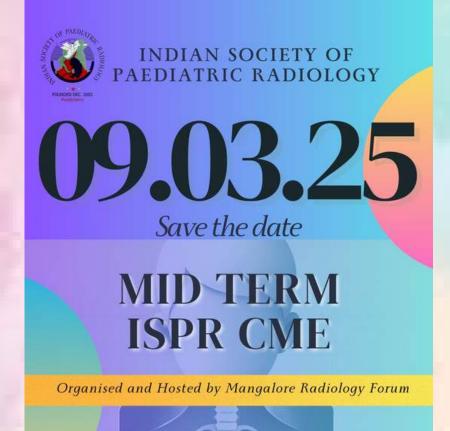
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Upcoming Events

ISPR Midterm CME March



MANGALORE



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Upcoming Events

SPR 2025, April



Annual Meeting and Courses

SPR 2025 ANNUAL MEETING

APRIL 7 - 11 | Hilton Hawaiian Village | Honolulu, Hawaii

ALOHA TO THE FUTURE OF PEDIATRIC RADIOLOGY: NAVIGATING THE WAVES OF CHANGE

SPR 2025 Annual Meeting

Monday, April 7, 2025 to Friday, April 11, 2025

 Hilton Hawaiian Village <u>2005 Kalia Road</u> <u>Honolulu, HI 96815</u> <u>United States</u>

ESPR 2025, June



WELCOME TO THE EUROPEAN CONGRESS OF PAEDIATRIC RADIOLOGY!

TOGETHER at E.S.P.R. 2025

For further details visit https://medcongresses.eventsair.com/espr2025/

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Upcoming Events

ISPR Annual conference September



INDIAN SOCIETY OF PAEDIATRIC RADIOLOGY

to the Cleanest City of India

INDORE

20-21 September 2025

Brilliant Convention Center, Indore

Save The Date





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QUIZ

<u>History</u>: 8 year old girl with complaints of protrusion of right eyeball since 1 year with associated loss of vision. What is the diagnosis?



Fig 1

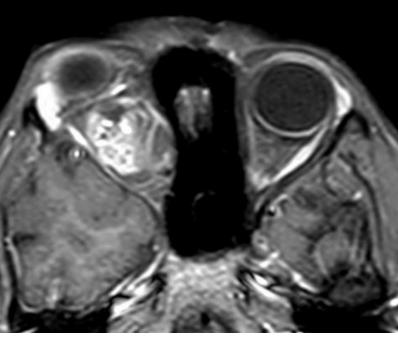


Fig 2



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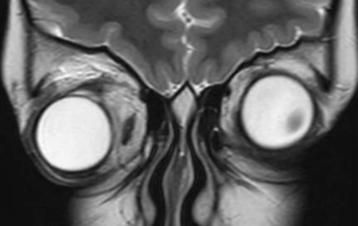


Fig 3

Fig 4

We encourage members to contribute interesting cases for this section and for the ISPR website.

Case contributed by

Dr. Ameya Dandekar, Junior Resident Dr. Arpita Sahu, Professor*Dept. of Radiodiagnosis, TMH, Mumbai*

Quiz answer on page 37

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ISPR Midterm CME Thiruvananthapuram, Kerala

The ISPR Midterm CME took place in Thiruvananthapuram, Kerala on 23, June, 2024, focusing on the theme of Paediatric Neuroradiology. This event was organised by the Department of Radiodiagnosis, Sree Chitra Tirunal Institute for Medical Sciences and Technology with Dr. C. Kesavadas serving as the Organising Chairperson and Dr. Bejoy Thomas as the Organising Secretary.

The primary objective of the CME was to enhance the participants' understanding of paediatric neuroradiology including the imaging techniques and diagnositic protocols. It was attended by neuroradiologists, radiology residents , neurologists and neurosurgeons from across the country. The CME program featured lectures, interactive case discussions and Q&A sessions. The program was well received by the participants who appreciated the comprehensive range of topics and the expertise of the faculty.





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ISPR Midterm CME Thiruvananthapuram, Kerala







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ISPR Annual Conference 2024 Lucknow

The 22nd Annual Conference of ISPR was held on the 21st and 22nd of September 2024 in Lucknow, with Dr. Neera Kohli as Organising Chairperson and Dr. Anit Parihar as Organising Secretary. The conference, attended by over 350 delegates, achieved remarkable success primarily due to the outstanding scientific content with its emphasis on advancements in imaging and management strategies. The pre-conference workshops, held on 20th of September, received positive feedback from all participants for the hands-on training and practical insights offered by experts in the field.

The ISPR Orations were conducted on the 21st of September. Dr. Balakrishna Shetty delivered the Prof. MVK Shetty Endowment Oration on 'Hypoxic Ischaemic Encephalopathy – the concepts and challenges'.

The Prof. Arcot Gajaraj Endowment Oration was delivered by Dr. Sikander Shaikh on 'Molecular Imaging in Paediatrics - the road less travelled'.

The Inauguration ceremony took place on the 21st of September with Dr. Soniya Nityanand , Vice-Chancellor, King George's Medical University, as the chief guest. The conference souvenir was officially released during this inauguration ceremony.



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ISPR 2024 Lucknow

Inauguration Ceremony



Official release of the souvenir





Lamp lighting by the dignitaries



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ISPR 2024 Lucknow



Dr. Akshay Saxena delivering the Presidential Address

Dr. Sridhar Gibikote delivering the Secretary's Report





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ISPR 2024 Orations

Dr. Balakrishna Shetty Prof. MVK Shetty Oration



Dr. Sikander Shaikh Prof. Arcot Gajaraj Oration





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ISPR 2024, Workshops







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ISPR GBM News 21st September 2024, Lucknow

Handing over of President's medal to Dr. Bijon Kundu



Newly elected office bearers and EC members





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ISPR GBM News New Committees

With the intention of increasing the Society's presence and reach to the younger generation of radiologists, the below committees were newly formed and constituted as follows.

<u>Digital:</u> Dr. Taruna Yadav, Dr. Manisha Jana, Dr. Arpita Sahu, Dr. Poonam Sherwani

Website: Dr. Hiren Panwala, Dr. Vasundhara, Dr.K. Gopinathan

<u>Outreach & Social commitment</u>: Dr. Priscilla Joshi, Dr. Anmol Bhatia, Dr. Anit Parihar.

Finance, Scientific and International Liaison committees are already in existence and work closely with the organisers of the various ISPR meetings to offer their assistance and counsel.

All committees run for a 2 year term, until the next elections which are held during the General Body Meeting at the National ISPR Conference.



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Presentations & Invited lectures

Dr. Kushaljit S. Sodhi, President Elect ISPR has the following presentations to his credit:

 Participated in the 44th Postgraduate Course and 58th Annual Conference of the European Society of Paediatric Radiology (ESPR) held in Seville from June 3 -7, 2024 and presented scientific material titled, 'Utility of ultrashort time echo (UTE) sequence in children with febrile neutropenia: A prospective pilot study'

2. Invited as faculty speaker and delivered two invited lectures titled, 'Spine Ultrasound in era of MRI' and 'Paediatric ultrasound - head to foot - technique -Do's and Don't's' at the Sonosummit
2024 Ultrasound conference held at Chennai, India from July 12-14, 2024.

 Invited as faculty speaker and delivered invited lecture titled 'Artifacts in Pediatric MRI: Tips and Tricks' at the 22nd Annual Scientific Meeting of the Asian and Oceanic Society for Paediatric Radiology (AOSPR) held at Bali, Indonesia from September 25 - 28, 2024.

4. Invited as faculty and moderated a session on Chest &
Cardiovascular Imaging at the 22nd Annual Scientific Meeting of
the Asian and Oceanic Society for Paediatric Radiology (AOSPR)
held at Bali, Indonesia from September 25 - 28, 2024.



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Invited lectures

ESPR 2024, Seville







AOSPR 2024, Bali



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Dr. Anmol Bhatia, Additional Professor, Radiodiagnosis and Imaging, PGIMER, Chandigarh, has the below presentations at international meetings to his credit.

1.Participated in the **58th Annual Conference of the European Society of Paediatric Radiology (ESPR) 2024** held at Seville, Spain from June 3- 7, 2024 and presented a research paper titled 'Shear wave elastography of kidneys in children: Utility in distinguishing steroid-resistant and steroid-sensitive nephrotic syndrome' in the oral paper presentation category.

2. Participated in **22nd Annual Scientific Meeting of the Asian and Oceanic Society for Paediatric Radiology (AOSPR) 2024** held at Bali, Indonesia from September 26–28, 2024 and presented a research paper titled 'Shear Wave Elastography of Spinal Cord in Children with Meningomyelocele' which was **selected as one of the Top 10 oral presentations at AOSPR 2024**.



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Presentations

ESPR 2024, Seville





AOSPR 2024 Bali



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Presentations & Invited lectures

Dr. Arpita Sahu, Professor, Department of Radiology, TMH, Mumbai, was invited as faculty speaker at the below meetings:

1.Invited as faculty speaker and delivered a lecture on 'Response assessment in pediatric brain tumors' at the Annual SPIN conference, Goa, October 2024.

2. Delivered a lecture on 'Pediatric brain tumors' in the ICRI webinar series on 25th September 2024.





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Publications by ISPR members

Dr. Kushaljit S. Sodhi, President Elect ISPR , has published the following original research articles.

1.Bhatia A, Kotia K, Mavuduru RS, **Sodhi KS**, Saxena AK. Radiolucent Calculi in Kidneys on Intravenous Urography: Red Color on Dual-Energy Computed Tomography Clinches the Final Diagnosis. Indian J Nephrol. 2024 Sep-Oct;34(5):538-539.

2: Kakar N, Rehman FU, Kaur R, Bhavani GS, Goyal M, Shah H, Kaur K, **Sodhi KS**, Kubisch C, Borck G, Panigrahi I, Girisha KM, Kornak U, Spielmann M. Multi-gene panel sequencing in highly consanguineous families and patients with congenital forms of skeletal dysplasias. Clin Genet. 2024 Jul;106(1):47-55. doi: 10.1111/cge.14509.

4: Bhatia H, Bhatia A, Mathew JL, Saxena AK, Kumar P, Nallasamy K, Tao T, **Sodhi KS**. Tracheobronchial abnormalities on computed tomography angiography in children with congenital heart disease. Pediatr Pulmonol. 2024 59(5):1438-1448. doi: 10.1002/ppul.26934.



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Publications by ISPR members

Dr. Manisha Jana, Professor, Department of Radiodiagnosis and Interventional Radiology, AIIMS New Delhi, has published the following original research articles.

- 1. Das G, Setlur K, Jana M, Ramakrishnan L, Jain V, Meena JP, Gupta AK, Dwivedi S, Seth R. Sarcopenic obesity in survivors of childhood acute lymphoblastic leukemia: prevalence, risk factors, and implications for cancer survivors. Support Care Cancer. 2024 Nov 26;32(12):826. doi: 10.1007/s00520-024-09025-w. PMID: 39592473.
- 2. Govindarajan S, Rajan A, Likhitha P, Mohankumar SP, Jain P, Jana M, Bagri NK, Hari P, Lodha R. Anasarca and Systemic Capillary Leak Syndrome as an Unusual Presentation of Juvenile Dermatomyositis: Report of Three Cases and Case-Based Review. Int J Rheum Dis. 2024 Nov;27(11):e15425. doi: 10.1111/1756-185X.15425. PMID: 39582283.
- 3. Yadav S, Madhumita RC, Gupta N, Chauhan S, Kusmakar S, Balakrishnan P, **Jana M**, Puri RD, Phadke SR, Kabra M. Isolated Lateralized Overgrowth - Phenotypic Spectrum and Molecular Alterations. Indian J Pediatr. 2024 Oct 19. doi: 10.1007/s12098-024-05273-0. Epub ahead of print. PMID: 39425824.
- 4. Kaur P, Govindarajan S, Jana M, Sinha A, Bagri NK. Constitutional symptoms of severe childhood-onset polyarteritis nodosa. Lancet Rheumatol. 2024 Sep 27:S2665-9913(24)00269-8. doi: 10.1016/S2665-9913(24)00269-8. Epub ahead of print. PMID: 39348837.

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Publications by ISPR members

5. Prasad G, Anand S, Yadav DK, Kandasamy D, **Jana M**, Gupta A, Kumar R, Sati HC, Bajpai M, Jain V, Dhua AK, Agarwala S, Verma A, Goel P. Assessment of ureteric jets as a supportive diagnostic modality for unilateral pelvi-ureteric junction obstruction and its utility in follow-up: A pilot study. J Pediatr Urol. 2024 Dec;20(6):1093-1098. doi: 10.1016/j.jpurol.2024.08.010. Epub 2024 Aug 30. PMID: 39289127.

6. Kumar S, Chugh A, Kumar SC, Punnen A, Bhat C, Patra P, Viswanathan V, Gupta A, Aggarwal M, Nayak AR, Lingappa L, Sharma J, Gupta N, Naranje P, **Jana M**, Bagri NK, Hari P, Ramanan AV. Clinical spectrum and outcome of children with deficiency of adenosine deaminase 2 (DADA2): multicentric experience from India. Rheumatology (Oxford). 2024 Sep 11:keae489.

doi:10.1093/rheumatology/keae489. Epub ahead of print. PMID: 39259214.

7. Sidhique R, Bagri NK, **Jana M**, Pandey RM, Pandey S, Venkatesh P, Azad SV, Gupta S, Kabra SK. Disease Damage in Juvenile Idiopathic Arthritis. Indian J Pediatr. 2024 Aug 30. doi: 10.1007/s12098-024-05239-2. Epub ahead of print. PMID: 39212855.

 8. Bhalla D, Jana M, Manchanda S, Bhalla AS, Naranje P, Kabra SK, Seth R. Endemic pediatric fungal infections in India: clues to diagnosis. Pediatr Radiol. 2024 Nov;54(12):1956-1966. doi: 10.1007/s00247-024-05974-w. Epub 2024 Jul 1. PMID: 38951195.
 9. Bhalla D, Sharma R, Jana M. Current status of pediatric radiology in India: a perspective. Pediatr Radiol. 2024 Nov;54(12):1941-1945. doi: 10.1007/s00247-024-05961-1. Epub 2024 Jun 6. PMID: 38842616.



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Publications by ISPR members

Dr. Taruna Yadav, Additional Professor, Dept. of Diagnostic and Interventional Radiology, AIIMS Jodhpur, has published the following original research articles.

1.. Sharma S, Tiwari S, **Yadav T**, Saini L, Mittal A, Khera D, Garg PK, Khera PS. Magnetic resonance imaging patterns and perfusion changes of posterior reversible encephalopathy syndrome in children with clinical outcome correlation. Pediatr Radiol. 202 Oct;54(11): 1884-1895.

2. Sharma S, Tiwari S, Saini L, **Yadav T**, Manjunathan S, Panda A, Choudhary B, Khera D. Dextromethorphan Associated Neurotoxicity with Cerebellar Edema (DANCE) Syndrome in Young Children: Neuroimaging Features. AJNR Am J Neuroradiol. 2024 Aug 16: ajnr.A8455.

3. Vig A, Sinha A, **Yadav T**, Krishnamurthy S, Bhatt S, Rathod KJ, Pathak M, Saxena R, Khera PS. Can Ultrasound Spot the Culprit – Evaluating the Effectiveness of Ultrasonography in Precisely Diagnosing Acute Appendicitis in Children. J Indian Assoc Pediatr Surg. 2024 Sep-Oct;29(5):479-483.



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Publications by ISPR members

Dr. Arpita Sahu, Professor, Department of Radiology, TMH, Mumbai, has published the following original research articles.

1.Vaidya, Tanvi; **Sahu, Arpita**; Epari, Sridhar Shetty, Omshree1; Gurav, Mamta1; Sahay, Ayushi, et al. Magnetic Resonance Imaging Features of Sporadic Optic Chiasmatic–Hypothalamic Gliomas and Correlation with Histopathology and BRAF Gene Alterations. Neurology India 72(4):p 747-755, Jul–Aug 2024. | DOI: 10.4103/neurol-india.ni_521_22

2.**Sahu A,** Venkatesh A, Snehil A, Mahajan A, Janu A, Sahay A, et al. Imaging of supratentorial ependymomas with radiopathological correlation. Explor Target Antitumor Ther. 2024;5:766–79.



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Publications by ISPR members

Dr. C.V. Kanimozhi, HoD Paediatric Radiology, KKCTH, Chennai has published the following review article.

Vendhan K, Seth R. Diagnostic imaging of child physical abuse: an Indian perspective. Pediatr Radiol. 2024 Nov;54(12):1967-1970. doi: 10.1007/s00247-024-06037-w. Epub 2024 Aug 27. PMID: 39187669.



Dr. Nisar A. Wani, Department of Pediatric Radiology, Govt Medical College, Srinagar, J&K, India has published the following original research article.

Wani NA, Malik I, Tariq S, Bhat AS, Qureshi UA. The role of CT brain findings in the early diagnosis of infantile encephalitic beriberi. Neuroradiology. 2024 Jun;66(6):1043-1047. doi: 10.1007/s00234-024-03346-7. Epub 2024 Apr 1. PMID: 38558180.



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Publications by ISPR members

Dr. Smily Sharma, Assisstant Professor, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Kerala has published the following original research articles.

- Sharma S, Sundaram S, Kesavadas C, Thomas B . An algorithmic approach to MR Imaging of Hypomyelinating Leukodystrophies. Journal of Magnetic Resonance Imaging. 2024. https://doi.org/10.1002/jmri.29558
- 2. **Sharma S**, Tiwari S , Saini L, Yadav T, Manjunathan S, Panda A, Choudhary B, Khera D. Dextromethorphan Associated Neurotoxicity with Cerebellar Edema (DANCE) Syndrome in Young Children: Neuroimaging Features. AJNR Am J Neuroradiol. Preprint published online on 16 August 2024. https://doi.org/10.3174/ajnr.A8455
- Sharma S, Tiwari S, Yadav T, Saini L, Mittal A, Khera D, et al. Magnetic resonance imaging patterns and perfusion changes of posterior reversible encephalopathy syndrome in children with clinical outcome correlation. Pediatric Radiology. 2024 Sep 9:1-12. https://doi.org/10.1007/s00247-024-06045



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Achievements & Awards

We extend our congratulations to **Dr. Kushaljit S. Sodhi**, President Elect ISPR , for his remarkable achievements detailed below.

1.Elected as the **Vice-President of Asian Oceanic Society of Pediatric Radiology (AOSPR)** at the 22nd Annual Scientific Meeting of the Asian and Oceanic Society for Paediatric Radiology (AOSPR) held at Bali,Indonesia from September 25 to 28, 2024.

2. Elected as the **Secretary, World Federation of Paediatric radiology (WFPI)** for the year 2024–2026.

3. Selected as the **Assistant Editor of Pediatric Radiology**, the official journal of SPR, ESPR and AOSPR.

4. Selected as the **Member of European Society of Paediatric Radiology (ESPR)- Task Force**- Cardiothoracic committee and Member of ESPR Task Force- Artificial Intelligence committee .

Congratulations



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Achievements & Awards

We congratulate **Dr. Dhananjaya KVN**, Paediatric Radiologist, Bengaluru, for successfully completing the required examinations and being awarded European Diploma in Paediatric Radiology (EDiPR) and the Fellowship of Society of Paediatric Neuroimaging (SPIN).



We congratulate **Dr. Abirami Mahadevan**, Assisstant Professor, Dept. of Radiodiagnosis, Madras Medical College, Chennai, for successfully completing the required examinations and being awarded the following qualifications : EDiR and DICRI



We congratulate **Dr. Poonam Sherwani**, Additional Professor, Department of Radiodiagnosis & Imaging, AIIMS Rishikesh for being awarded the Fellowship of Society of Paediatric Neuroimaging (SPIN). Also to Dr.Poonam's credit is an Observership in Paediatric Radiology from the Children's Hospital of Philadelphia that she completed in July 2024. .





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Achievements & Awards

We congratulate Dr. Anu Bhandari, Paediatric Radiology Department, SMS Medical College, Jaipur, who along with her team conducted a very successful workshop on Paediatric Neuroimaging at RAJPEDICON JAIPUR on 29th November 2024.

Congratulations



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FINDINGS:

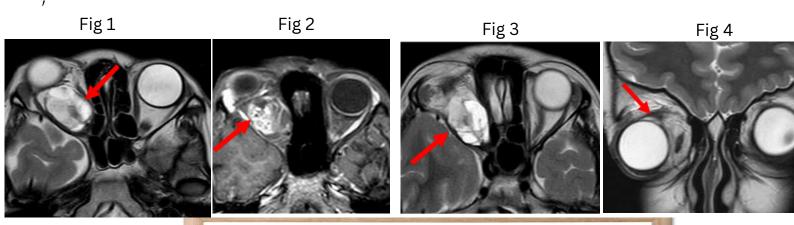
Fig 1 & Fig 2 : T2 hyperintense intraconal solid cystic lesion showing heterogeneous post-contrast enhancement involving the intraorbital and intracanalicular segment of the right optic nerve, suggestive of optic nerve glioma.

Fig 3: Right sphenoid wing dysplasia.

Fig 4: Inferolateral proptosis of the right eyeball.

DIAGNOSIS:

Right optic nerve glioma with right sphenoid wing dysplasia and associated inferolateral proptosis . Features indicate NF-1.



Case contributed by

Dr. Ameya Dandekar, Junior Resident Dr. Arpita Sahu, Professor Dept. of Radiodiagnosis, TMH, Mumbai



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QUIZ Answer Discussion

DISCUSSION:

Neurofibromatosis type 1 (NF1) is an autosomal dominant inherited neurocutaneous disorder or phakomatosis secondary to mutations in the NF1 suppressor gene (located at chromosome 17q11.2).

Key manifestations of NF1: café-au-lait macules, axillary or inguinal freckling, neurofibromas or plexiform neurofibromas, optic pathway gliomas, Lisch nodules, and osseous lesions such as sphenoid dysplasia, all of which are considered diagnostic features of NF1.

Other manifestations: low-grade gliomas, interstitial lung disease, various abdominopelvic neoplasms, scoliosis, and vascular dysplasia.

Cutaneous manifestions	Café-au-lait macules, axillary and inguinal freckling, neurofibromas, and plexiform neurofibromas.
Opthalmic manifestions	Lisch nodules
CNS manifestations	Focal areas of signal intensity (FASIs), Optic pathway gliomas, non–optic pathway intracranial gliomas, dural ectasia and meningocele
Pulmonary manifestations	Interstitial lung disease, cyst or bulla formation, and pulmonary hypertension
Abdominal manifestations	Neurogenic neoplasms, Interstitial Cells of Cajal neoplasms, neuroendocrine neoplasms, embryonal neoplasms

We encourage members to contribute interesting cases for this section and for the ISPR website.



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Dr. Kushaljit S Sodhi			(Place of issue)	
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Vice Presidents	Name of the Member				
Dr. Priscilla Joshi	Name of Speciality				
Dr. Jeetendra Sharma	D. Declaration :				
	I have studied (Name of the course)				
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Dr. Sridhar Gibikote	I am interested in Paediatric Radiology, an I will abide by the Constitution.	n eager to join the	o join the Indian Society of Paediatric Radiology.		
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)r. Tarupa Yaday			110		

Dr. Hiren Panwala Dr. Ishan Kumar