

AASTHA TAKKAR

Dr.Aastha Takkar

Associate Professor

Dept of Neurology

Postgraduate Institute of Medical Education and Research (PGIMER)

Chandigarh, India

MBBS, MD - Medicine

DM- Neurology

Name : **Dr. Aastha Takkar Kapila**
Designation : Associate Professor
Complete Postal Address : Department of Neurology, PGIMER, Chandigarh
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Date of birth : 07. 06. 1982

Educational Qualifications

| Degree | Institution | Field(s) | Year |
|---------------|--|-----------------|-------------|
| M.B.B.S. | Dayanand Medical College, Ludhiana, Punjab, India | Medicine | 2000-2004 |
| Internship | Dayanand Medical College, Ludhiana, Punjab, India | Medicine | 2004-2005 |
| M.D. | SGRDIMSR, Amritsar, Punjab, India | Medicine | 2006-2009 |
| D.M. | Post Graduate Institute of Medical Education & Research | Neurology | 2012-2014 |

Research / Training Experience

| Designation | Duration | Institution |
|---|-------------------------|-----------------------------------|
| Associate Professor | 30/06/2019- Till Date | PGIMER, Chandigarh |
| Assistant Professor | April 2015 – 30/06/2019 | PGIMER, Chandigarh |
| Senior Resident Neurology(Non Academic) | Jan 2015-April 2015 | PGIMER, Chandigarh |
| Senior Resident, Neurology | Jan 2012- Dec 2014 | PGIMER, Chandigarh |
| Junior Resident, Medicine | 2006-2009 | SGRDIMSR, Amritsar, Punjab, India |

Research specialization (Major scientific fields of interest)

- Neuroophthalmology, Idiopathic Intracranial Hypertension
- Neuroimmunology, Neuromyelitis Optica and Autoimmune Encephalitis
- Neurogenetics

Special Achievements:

Awarded Distinction in

(during the tenure of MBBS)

Biochemistry

Pharmacology

Community Medicine and humanities

Awarded Gold MEDAL: Obstetrics and Gynaecology

First in MBBS Final Prof(part 1)

Awarded Silver Medal for the second best graduate in MBBS

Awarded Travel Fellowship by World Congress of Neurology (Chile, Santiago, South America)

Awarded Travel Fellowship by Indian Academy of Neurology

MEMBERSHIPS:

Life Member Indian Academy Neurology

Life member North American Neuroophthalmology Society

Life member American Academy Neurology

Life member Indian Academy Neurology

Life member Indian Stroke Association

Life member PGI Neurological Society

Member Sub Section- Neuroophthalmology/ Neuroimmunology of IAN

Member of Subsection of Neuroophthalmology (Indian Academy of Neurology)- Since 2018

Research Publications: 103 in various National and international indexed journals

Chapters in Books: 11

Associate Editor : *Section 11- Neuro-ophthalmology -----Yearbook of Neurology 2022. Ed Kalyan B Bhattacharya , Gagandeep Singh . Jaypee publications*

Associate Editor of *Approach and management strategies of medical ailments in women: Oorja – The power of Her.*

Publications

1. Prabhat N, Kaur K, **Takkar A**, Ahuja C, Katoch D, Goyal M, Dutta P, Bhansali A, Lal V. Pituitary dysfunction in Idiopathic Intracranial Hypertension - An Analysis of 80 patients. *Can J Neurol Sci.* 2023 Apr 4:1-19.
2. **Takkar A**, Kumar KVA, Katoch D, Singh P, Minz R, Anand S, Kathirvel S, Ravishankar K, Lal V, Caplan LR. Serum Calcitonin Gene-Related Peptide Is Elevated in Patients With Migraine and Ophthalmoplegia. *J Neuroophthalmol.* 2022 Oct 18. doi: 10.1097/WNO.0000000000001695. Epub ahead of print. PMID: 36255114.
3. **Kapila Aastha Takkar**, Ray S, Lal V. Tolosa-Hunt Syndrome and IgG4 Diseases in Neuro-Ophthalmology. *Ann Indian Acad Neurol.* 2022 Oct;25(Suppl 2):S83-S90. doi: 10.4103/aian.aian_457_22. Epub 2022 Oct 19. PMID: 36589035; PMCID: PMC9795703.
4. Wilson V, Kaur P, Singh S, Ramachandran RP, Jyothi V, Mahesh KV, **Takkar A**, Chandak G, Singh R. Clinical Profile of Patients with Leber Hereditary Optic Neuropathy (LHON): An Ambispective Study of North Indian Cohorts. *Ann Indian Acad Neurol.* 2022 Oct;25(Suppl 2):S65-S69. doi: 10.4103/aian.aian_532_22. Epub 2022 Oct 19. PMID: 36589039; PMCID: PMC9795704.
5. Sachdeva J, Goyal MK, Singh R, **Kapila Aastha Takkar**, Singh P, Saikia B, Lal V. Neuromyelitis Optica Spectrum Disorders in North Indian Population: Experience from a Tertiary Care Center. *Neurol India.* 2022 Jul-Aug;70(4):1500-1505. doi: 10.4103/0028-3886.355118. PMID: 36076650.
6. Ray S, **Takkar A**, Lal V. Idiopathic Intracranial Hypertension- The Eyes and Beyond. *Ann Indian Acad Neurol.* 2022 Mar-Apr;25(2):179-180. doi: 10.4103/aian.aian_847_21. Epub 2022 Feb 9. PMID: 35693645; PMCID: PMC9175430.
7. Lal V, **Takkar A**, Ray S, Mahesh KV. Neuroophthalmology - A Time to Revive Clinical Skills. *Ann Indian Acad Neurol.* 2022 Oct;25(Suppl 2):S47. doi: 10.4103/aian.aian_815_22. Epub 2022 Oct 19. PMID: 36589028; PMCID: PMC9795708.

8. Kaur P, Singh S, Kaur K, Mahesh KV, Tigari B, Sehgal V, **Takkar A**, Mehta S, Singh R, Malhotra S. The Genetics of Ethambutol-Induced Optic Neuropathy: A Narrative Review. *Neuroophthalmology*. 2022 Aug 2;46(5):304-313. doi: 10.1080/01658107.2022.2100916. PMID: 36337233; PMCID: PMC9635551.
9. Karthigeyan M, **Takkar A**, Salunke P, Kumar R, Ranjan R, Lal V. Spinal Arachnoiditis Ossificans: A Chronic Sequela of Tuberculosis. *Neurol India*. 2022 May-Jun;70(3):1322-1323. doi: 10.4103/0028-3886.349606. PMID: 35864710.
10. Balaini N, Goel A, Aleti S, **Takkar A**, Rastogi P, Singh H, Lal V. Whipple Disease and Orbital Inflammatory Syndrome-A Case Report. *J Neuroophthalmol*. 2022 Oct 19. doi: 10.1097/WNO.0000000000001724. Epub ahead of print. PMID: 36730999.
11. Markan A, **Takkar A**, Dogra M, Tigari B. Multimodal imaging in a case of optic disc drusen with peripapillary choroidal neovascular membrane. *BMJ Case Rep*. 2022 Nov 10;15(11):e253245. doi: 10.1136/bcr-2022-253245. PMID: 36357107; PMCID: PMC9660690.
12. Prinja N, Siwach G, Aleti S, Hans R, **Takkar A**, Mehta S, Sharma RR, Lal V. Report of plasma exchange in a rare case of association of myasthenia gravis with thymoma and parathyroid adenoma. *Asian J Transfus Sci*. 2022 Jul-Dec;16(2):263-265. doi: 10.4103/ajts.ajts_84_21. Epub 2022 May 26. PMID: 36687547; PMCID: PMC9855205.
13. Sharma A, Narang T, Mehta H, Mahajan R, **Takkar A**, Prakash M, Dogra S. Intra-cranial involvement of trigeminal nerve in a patient with borderline tuberculoid leprosy in type 1 lepra reaction. *Australas J Dermatol*. 2023 Feb;64(1):e87-e89. doi: 10.1111/ajd.13981. Epub 2023 Jan 22. PMID: 36683361.
14. Tom JP, Gupta P, Radotra BD, Gupta N, **Takkar A**, Singh S, Gupta V. Role of vitreous cytology in the diagnosis of primary central nervous system lymphoma: A report of an unusual presentation. *Diagn Cytopathol*. 2023 May 6. doi: 10.1002/dc.25152. Epub ahead of print. PMID: 37148480.
15. Multimodal imaging in a case of optic disc drusen with peripapillary choroidal neovascular membrane November 2022 *BMJ Case Reports* 15(11):e253245 DOI: 10.1136/bcr-2022-253245
16. Genetic abnormality of cytochrome-P2C9*3 allele predisposes to epilepsy and phenytoin-induced adverse drug reactions: genotyping findings of cytochrome-alleles in the North Indian population October 2022 *Future Journal of Pharmaceutical Sciences* 8(1):44 DOI: 10.1186/s43094-022-00432-6
17. A 12-year-old Asian Indian boy with bilateral rapidly progressive necrotizing Macular Retinitis August 2022 *Retinal Cases & Brief Reports Publish Ahead of Print* DOI:

10.1097/ICB.0000000000001344

18. Kapila A, **Takkar A** Neurological Disorders, Corticosteroids, and Fracture Risk: Hiding in the Hindsight! June 2022 Journal of Postgraduate Medicine Education and Research 56(2):61-62
DOI: 10.5005/jp-journals-10028-1570
19. Hans R, Prakash S, Sharma RR, Sankhyan N, **Takkar A**, Goyal M, Saikia B, Lal V, Marwaha N. Therapeutic Plasma Exchange in Neuromyelitis Optica Spectrum Disorders-Experience from Tertiary Care Center in North India. Neurol India. 2022 Mar-Apr;70(2):710-713.
20. Vinny PW, **Takkar A**, Lal V, Padma MV, Sylaja PN, Narasimhan L, Dwivedi SN, Nair PP, Iype T, Gupta A, Vishnu VY. Mobile application as a complementary tool for differential diagnosis in Neuro-ophthalmology: A multicenter cross-sectional study. Indian J Ophthalmol. 2021 Jun;69(6):1491-1497. doi: 10.4103/ijo.IJO_1929_20. PMID: 34011726; PMCID: PMC8302325.
21. **Takkar A**, Sachdeva J, Vojjala N, Lal V. Myoedema with pseudohypertrophic hypothyroid myopathy (Hoffman's syndrome). Pract Neurol. 2021 Mar 30;practneurol-2020-002898. doi: 10.1136/practneurol-2020-002898. Epub ahead of print. PMID: 33785566.
22. Prabhat N, Chandel S, **Takkar A**, Ahuja C, Singh R, Kathirvel S, Lal V. Sensitivity and specificity of neuroimaging signs in patients with idiopathic intracranial hypertension. Neuroradiol J. 2021 Mar 8;19714009211000623. doi: 10.1177/19714009211000623. Epub ahead of print. PMID: 33678064.
23. Agarwal A, Sharm D, Mahajan S, Prakash G, Sharma S, Kumar A, Sehgal S, Gupta N, **Takkar A**, Lal V, Gupta V. Diagnostic and Therapeutic Challenges (Monoclonal gammopathy of undetermined significance-related uveitis with recalcitrant macular edema). Retina. 2021 Jan 7. doi: 10.1097/IAE.0000000000003112. Epub ahead of print. PMID: 33438898
24. Tanavi Sharma, Keshava K. Datta, Munish Kumar, Gourav Dey, Aafaque Ahmad Khan, Kiran Kumar Mangalparthi, Poonam Saharan, C. Shobia, Ashish Aggarwal, Navneet Singla, Sujata Ghosh, Amit Rawat, Sivashanmugam Dhandapani, Pravin Salunke, Rajesh Chhabra, Dalbir Singh, **Aastha Takkar**, Sunil K. Gupta, T. S. Keshava Prasad, Harsha Gowda, Akhilesh Pandey, Hemant Bhagat Proteome-wide characterization and biomarker identification of intracranial aneurysm doi: <https://doi.org/10.1101/725473>
25. Sachdeva J, Mahesh KV, Shree R, Jain G, Kapila **Takkar A**, Shashikala TP, Goyal MK, Modi M, Lal V. Use of rituximab in muscle-specific tyrosine kinase antibody-positive myasthenia gravis: Preliminary observations from a tertiary care center in Northern India. Indian J Pharmacol. 2020 Jan-Feb;52(1):49-52. doi: 10.4103/ijp.IJP_333_18. Epub 2020 Mar 11.

26. Anuja Patil, Kartik Vinay Mahesh, Nandita Prabhat, Ramandeep Singh, **Aastha Takkar**, Sucharita Ray, Naresh Tandyala, Manoj Kumar Goyal & Vivek Lal (2019): Non-Arteritic Anterior Ischaemic Optic Neuropathy – Myths and Misconceptions: Experience from a Tertiary Care Centre in North India, *Neuro-Ophthalmology*, DOI: 10.1080/01658107.2019.1688356
27. Bansal S, Bansal R, Goyal MK, **Takkar A**, Singh R, Singh P, Lal V. Clinical, Etiological and Imaging Profile of Posterior Reversible Encephalopathy Syndrome: A Prospective and Follow-Up Study. *Ann Indian Acad Neurol*. 23(2):182-188. doi: 10.4103/aian.AIAN_379_18.
28. **Takkar A** Clinical and Neuro-ophthalmologic Predictors of Visual Outcome in Idiopathic Intracranial Hypertension. January 2018. *Neuro-Ophthalmology* DOI10.1080/01658107.2017.1400570
29. Sachdeva J, **Takkar A**, Goyal M, Lal V. Neuromyelitis optica spectrum disorders in North Indian population: Experience from a tertiary care center" : Provisionally accepted/ 2018; *Neurology India*
30. Modi M, Sharma K, Prabhakar S, Goyal MK, **Takkar A**, Sharma N, Garg A, Faisal S, Khandelwal N, Singh P, Sachdeva J, Shree R, Rishi V, Lal V. Clinical and radiological predictors of outcome in tubercular meningitis: A prospective study of 209 patients. *Clin Neurol Neurosurg*. 2017 Oct; 161:29-34. doi: 10.1016/j.clineuro.2017.08.006. Epub 2017 Aug 18.
31. Bhatkar S, Goyal MK, **Takkar A**, Mukherjee KK, Singh P, Singh R, Lal V*.Cavernous sinus syndrome: A prospective study of 73 cases at a tertiary care centre in Northern India. *Clin Neurol Neurosurg*. 2017;157:63-69.
32. Patil A, **Takkar A**, Goyal M, Singh R, Lal V*. Sequential NAION presenting as Pseudo-Foster Kennedy syndrome. *J NeurolSci*. 2017 May 15;376:49-51. doi: 10.1016/j.jns.2017.02.002.
33. Bhatkar S, Goyal MK, **Takkar A**, Modi M, Mukherjee KK, Singh P, Radotra BD, Singh R, Lal V*. Which Classification of Cavernous Sinus Syndrome is Better - Ishikawa or Jefferson? A Prospective Study of 73 Patients. *J Neurosci Rural Prac*. 2016;7(1):S68-S71.
34. 1. Ranjan R, Singh D, Mahesh KV, Takkar AK, Ray S, Lal V. Infectious ophthalmoplegias. *J Neurol Sci*. 2021 Aug 15;427:117504. doi: 10.1016/j.jns.2021.117504. Epub 2021 May 21. PMID: 34082150.
35. **Takkar A**, Lal V. Idiopathic Intracranial Hypertension: The Monster Within.

36. Ann Indian Acad Neurol. 2020 Mar-Apr;23(2):159-166. doi: 10.4103/aian.AIAN_190_19.
37. Takkar S, Jyotsna M, Goyal P, Chaudhary A, Vippera S.... **Takkar A** et al Consensus Scientific Statement on Advisory Working Guidelines and Recommendations for the Female Population in COVID-19 Era by WINCARS. Indian Journal of Cardiovascular Disease in Women WINCARS 2020; 5(03): 175-194 DOI: 10.1055/s-0040-1718607
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DOI: 10.1055/s-0040-1716134
39. Jangra K, Bhagat H, **Takkar A**. Acute Nontraumatic Muscle Weakness. J Neuroanaesthesiol Crit Care 2019;6:236–25
40. Mehta S, **Takkar A**, Singh D, Aggarwal A, Lal V. Unusual Presentation of *PLA2G6*-Related Neurodegeneration with Retinal Vasculitis. Mov Disord Clin Pract. 2021 Nov 18;9(1):113-117. doi: 10.1002/mdc3.13364. PMID: 35005075; PMCID: PMC8721824.
41. Prabhat N, Mahesh KV, **Takkar A**, Tripathi M, Ahuja C, Singh R. Mimics of Optic Neuritis in Neuromyelitis Optica Spectrum Disorder: A Case Report. Neuroophthalmology. 2020 Sep 22;45(5):334-338. doi: 10.1080/01658107.2020.1810285. PMID: 34556894; PMCID: PMC8409778.
42. Thirunavukkarasu B, Gupta K, Shree R, Prabhakar A, **Takkar A**, Lal V, Radotra B. Primary diffuse large B-cell lymphoma of the CNS, with a "Lymphomatosis cerebri" pattern. Autops Case Rep. 2021 Apr 20;11:e2021250. doi: 10.4322/acr.2021.250. PMID: 33968825; PMCID: PMC8087396.
43. Rana V, Gupta, V, Spaide, RF, Sukhija, J.... **Takkar, A**, Lal V. Venous Overload Choroidopathy Associated with Idiopathic Intracranial Hypertension. Retinal Cases & Brief Reports: December 09, 2021 . doi: 10.1097/ICB.0000000000001216
44. Mehta S, Goel A, Singh D, Ray S.... **Takkar A**, Lal V. Dystonia and Optic Neuropathy: Expanded Phenotype of Dynactin 1 Related Neurodegeneration. 09 February 2022
45. <https://doi.org/10.1002/mdc3.13424>
46. Mehta H, Handa S, Malhotra M, Patial S, Gupta A.....**Takkar A**... Erythema nodosum, zoster

duplex and pityriasis rosea as possible cutaneous adverse effects of Oxford-AstraZeneca COVID-19 vaccine: report of three cases from India. 21 September 2021.

<https://doi.org/10.1111/jdv.17678>

47. **Takkar A**, S Mehta, N Gupta, S Bansal, V Lal Anti-RI antibody associated progressive supranuclear palsy like presentation in a patient with breast carcinoma,. *Journal of Neuroimmunology* 347, 577345
48. Nandita Prabhat , Karthik Vinay Mahesh , **Aastha Takkar** , Manjul Tripathi , Chirag Ahuja & Ramandeep Singh (2020): Mimics of Optic Neuritis in Neuromyelitis Optica Spectrum Disorder: A Case Report, *Neuro-Ophthalmology*, DOI: 10.1080/01658107.2020.1810285
49. Salunke P, Karthigeyan M, Praneeth K, Kaur S, **Takkar A**. Convergence Weakness with Intact Medial Rectus Function in Proptosis due to Orbital Tumors. *Neurol India* 2020;68:840-2.
50. 'Spontaneous' Snout: A Frontal Release Phenomenon'
51. Prabhat N, Chakravarty K, Pattnaik SN, **Takkar A**, Ray S, Lal V. Systemic lupus erythematosus with autoimmune neurological manifestations in a carrier of chronic granulomatous disease - a rare presentation. *J Neuroimmunol.* 2020 Jun 15;343:577229. doi: 10.1016/j.jneuroim.2020.577229. Epub 2020 Mar 28.
52. Parihar AS, Vadi SK, Kumar R, Singh H, **Takkar A**, Mittal BR, Lal V. Unilateral Lateral Rectus Paralysis Showing Incomplete 'V' Sign' on 18F-FDG PET/CT. *Clin Nucl Med.* 2020 Jan;45(1):e53-e54. doi: 10.1097/RLU.0000000000002775.
53. Agarwal A, Testi I, Prakash G, Sharma S, Sehgal S, Kapila **Takkar A**, Gupta N, Lal V, Gupta V, Welch RJ, Park SS; PGI Ocular Lymphoma Study Group. Diagnostic and Therapeutic Challenges in Lymphoma. *Retina.* 2019 Sep 23. doi: 10.1097/IAE.0000000000002654.
54. Parihar AS, Vadi SK, Kumar R, Singh H, **Takkar A**, Mittal BR, Lal V. Unilateral Lateral Rectus Paralysis Showing Incomplete 'V' Sign' on 18F-FDG PET/CT. *Clin Nucl Med.* 2020 Jan;45(1):e53-e54. doi: 10.1097/RLU.0000000000002775.

55. Ray S, Balaini N, Chakravarty K, Pattanayak S, Goel A, **Takkar A**, Lal V. Special scenarios in the management of central nervous system aspergillosis: a case series and review of literature. *Postgrad Med J*. 2019 Jul;95(1125):382-389. doi: 10.1136/postgradmedj-2018-136095. Epub 2019 Jun 20. Review.
56. Sachdeva J, Bansal R, **Takkar A**, Singh R. Neuromyelitis optica spectrum disorder and adenocarcinoma of ovary: a novel association. *BMJ Case Rep*. 2019 Apr 24;12(4). pii: e227435. doi: 10.1136/bcr-2018-227435.
57. Menia NK, Behera R, Bansal R, Gupta N, **Takkar A**, Lal V. Bilateral vitritis as an initial presentation of primary central nervous system lymphoma. *Indian J Ophthalmol*. 2019 Feb;67(2):275. doi: 10.4103/ijo.IJO_773_18. No abstract available
58. Ritambhara Nada, Amanjit Bal, **Aastha Takkar**, Subhash Varma. Metastatic Adenocarcinoma: A Masquerade of Ring Enhancing Lesion of Brain. *Journal of Postgraduate Medicine, Education and Research*, Volume 53, pp 133-141; doi:10.5005/jp-journals-10028-1331
59. Karthik Vinay Mahesh, Ramandeep Bansal, Darakhshan Naheed, NareshTandyala, Ramandeep Singh & Aastha Takkar# (2019): Opsoclonus Myoclonus Syndrome Due to an Ovarian Teratoma: A Case Report and Review of Literature, *Neuro-Ophthalmology*, DOI: 10.1080/01658107.2019.1573374
60. Ray S, Balaini N, Chakravarty K, Pattanayak S, Goel A, **Takkar A**, Lal V. Special scenarios in the management of central nervous system aspergillosis: a case series and review of literature. *Postgrad Med J*. 2019 Jul;95(1125):382-389. doi: 10.1136/postgradmedj-2018-136095. Epub 2019 Jun 20. Review.
61. Kaur S, Sukhija J, Khanna R, **Takkar A**, Singh M. Diplopia after Excessive Smart Phone Usage, *Neuroophthalmology*. 2019 Nov; 43(5): 323–326.
62. Razmi T M, **Takkar A**, Chatterjee D, De D. Blepharochalasis: 'drooping eyelids that raised our eyebrows'. *Postgrad Med J*. 2018 Jun 23. pii: postgradmedj-2018-135706. doi: 10.1136/postgradmedj-2018-135706
63. Mehta S, **Takkar A**, Goyal MK, Lal V Unusual sites of primary dystonia in adults: A series of three patients. *Neurol India*. 2018 Mar-Apr;66(Supplement):S154-S155. doi: 10.4103/0028-3886.226456. No abstract available.

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65. **Takkar A**, Mahesh KV, Shree R, Sachdeva J, Mehta S, Lal V. Tuberculomas in "Critical" Locations of the Visual Pathway-A Masquerader. *TNeuroophthalmology*. 2017 Aug 9;42(2):109-111. doi: 10.1080/01658107.2017.1344866. eCollection 2018 Apr..
66. **Takkar A**, Naheed D, Dogra M, Goyal MK, Singh R, Gupta N, Gupta K, Mittal BR, Lal V. Infiltrative Optic Neuropathies: Opening Doors to Sinister Pathologies. *Neuroophthalmology*. 2017 May 8;41(5):279-283. doi: 10.1080/01658107.2017.1308519. eCollection 2017 Oct.
67. Bansal R, Singh R, **Takkar A**, Lal V Combined central retinal artery and vein occlusion with optic perineuritis following herpes zoster dermatitis in an immunocompetent child.. *Indian J Ophthalmol*. 2017 Nov;65(11):1233-1235. doi: 10.4103/ijo.IJO_480_17.
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69. Bansal R, **Takkar A**, Lal V, Bal A, Bansal S. Chronic Invasive Fungal Sinusitis Presenting as Inferior Altitudinal Visual Field Defect *Neuroophthalmology*. 2017 Mar 16;41(3):144-148. doi: 10.1080/01658107.2017.1292296.
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78. **Takkar A**, Goyal MK*, Modi M, Kharbanda PS, Yaddanpudi L, Lal V, Prabhakar S. Status epilepticus as presenting manifestation of H1N1 infection. *Int J of Epilepsy* 2015;2:84-86.
79. Kumar A, Choudary A, **Takkar A***. Retinal Nerve Fibre Layer Thinning Is Associated With Drug Resistance In Epilepsy: Promising Yet Open Ended; Re: Retinal nerve fibre layer thinning is associated with drug resistance in epilepsy. *Balestrini, et al. JNNP* 87:4 396-
80. Takkar B, Takkar A. Comment on: Retinal and Corneal Neurodegeneration and Its Association to Systemic Signs of Peripheral Neuropathy in Type 2 Diabetes. *Am J Ophthalmol*. 2020
81. Aug;216:286-287. doi: 10.1016/j.ajo.2020.02.028. Epub 2020 Jun 11. PMID: 32536415.
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83. **Takkar A**, Kharbanda PS*. Electrophysiological evaluation of snake bite. *Neurology India*. 2015;63(3):304.
84. Turel MK, Sridhar K, Paliwal V, Kohat AK, **Takkar A**, Yadav R, Tripathi M, Das KK, Mehrotra A.
85. A summary of some of the recently published, seminal papers in neuroscience. *Neurol India*. 2016 Jul-Aug;64(4):758-81. doi: 10.4103/0028-3886.185387
86. Turel MK, Sridhar K, Tripathi M, Yadav R, **Takkar A**, Das KK, Mehrotra A. A summary of some of the recently published, seminal papers in neuroscience. *Neurol India*. 2016 Sep-Oct;64(5):1016-32. doi: 10.4103/0028-3886.190294. No abstract available.
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Abstracts

| Sr. No. | Name of Journal | Year/Vol/Page/Title |
|---------|--------------------------------|--|
| 1. | Journal of Neurologic Sciences | 2019/405:369 Assessment of pituitary dysfunction in patients of idiopathic intracranial hypertension with empty sella |
| 2. | Journal of Neurologic Sciences | 2017/ 381/841/2335 Mutation analysis in a cohort of patients with Leber's hereditary optic neuropathy from India |
| 3. | Journal of Neurologic Sciences | 2017/ 381/ 841/ 2336 RADIOLOGICAL PROFILE AND OUTCOME IN PATIENTS OF IDIOPATHIC INTRACRANIAL HYPERTENSION |
| 4. | Journal of Neurologic Sciences | 2018/ 381/ 482 Tuberculomas in critical locations of visual pathway- A Masquerader |
| 5. | Journal of Neurologic Sciences | 2019/ 405/ 60-61 Calcitonin Gene Related Peptide In Peripheral Blood As A Diagnostic Marker In Recurrent Painful Ophthalmoplegic Neuropathy/ Ophthalmoplegic Migraine |
| 6. | Journal of Neurologic Sciences | 2015/ 0911/ e 47 Clinical and neuro-ophthalmologic predictors of visual outcome in idiopathic intracranial hypertension (IIH) |

7. Journal of Neurologic Sciences Sharma V, Chakravarty K, Ray S, Lal V, Takkar A, Kharbanda P. **Evaluation of prevalence and severity of obstructive sleep apnea using overnight - polysomnography in patients with idiopathic intracranial hypertension.** October 2021. 429: 119284
8. Journal of Neurologic Sciences Takkar A, Aleti S, Mahesh KV, Singh R, Ahuja C, Lal V. **The spectrum of optic perineuritis - A case series.** Journal Neurological Sciences. October 2021.429:118465
9. Journal of Neurologic Sciences Kaur K, Takkar A, Soundappan K, Ahuja C, Saikia, ... Lal V. **To assess the level of cytokines and chemokines in patients of idiopathic intracranial hypertension (IIH).** Journal Neurological Sciences.October 2021. 429:118471
10. Journal of Neurologic Sciences Vojjala N, Takkar A, Katoch D, Bhatia V, Lal V. **Clinical, neuro ophthalmological and radiological predictors of outcome in cerebral venous sinus thrombosis.** October 2021. Journal Neurological Sciences. 429:118469
11. Journal of Neurologic Sciences Lakhanpal V, Lal V, Ray S, Khurana D, Takkar A, Chakravarty K... **Transcranial doppler parameters and vasomotor reactivity in people with migraine versus people with idiopathic intracranial hypertension and normal controls: A comparative prospective study.** October 2021. Journal of Neurological Sciences. 429:119278
12. Journal of Neurologic Sciences Aleti S, Lal V, Takkar A, Goyal M, Minz R, Ahuja C. **Peripheral nervous system involvement in neuromyelitis optica spectrum disorders (NMOSD) and MOG antibody associated disorders (MOGAD).** October 2021. Journal of Neurological Sciences. 429:118203.

Chapters in Books

| Sr. | Name of the chapter | Name of the | Publisher | Year of | Pages Number |
|-----|---------------------|-------------|-----------|---------|--------------|
|-----|---------------------|-------------|-----------|---------|--------------|

| No. | | book | | publication | |
|-----|---|---|---------------------------------------|-------------|----------|
| 1 | Approach to Visual Loss | A Clinical Approach to Neuro-Ophthalmic Disorders | Taylor and Francis CRC Press | 2022 | |
| 1 | Neuromyelitis Optica Spectrum Disorders | Myelin. | Wolters Kluwer | 2018 | 113- 121 |
| 2 | Neuroophthalmology. | API Textbook of Medicine | CBS Publishers & Distributors Pvt Ltd | 2018 | |
| 3 | Neuroophthalmology. | Case based-Clinical Text book of Neurology. | Springer healthcare | 2019 | 61-62 |
| 4 | Idiopathic Intracranial Hypertension. | Case based-Clinical Text book of Neurology. | Springer healthcare | 2019 | 63-74 |
| 5 | Tolosa Hunt Syndrome | Case based-Clinical Text book of Neurology. | Springer healthcare | 2019 | 90-100 |
| 6 | Ischemic Optic Neuropathy | Case based-Clinical Text book of Neurology. | Springer healthcare | 2019 | 101-112 |
| 7 | Optic Neuritis; Neuromyelitis Optica | Case based-Clinical Text book of Neurology. | Springer healthcare | 2019 | 75-89 |
| 8 | Headache in | Emergencies in | Bywords | 2019 | 175-188 |

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|----|---|---|----------------------|------|-----|
| | Emergency | Neurology, | Books pvt limited | | |
| 9 | Neuroimmunology, Special considerations in women. | Approach and management strategies of medical ailments in women: Oorja – The power of Her | Jaypee Publications. | 2020 | 198 |
| 10 | Headache disorders . How are they different | Approach and management strategies of medical ailments in women: Oorja – The power of Her | Jaypee Publications. | 2020 | 195 |
| 11 | A Clinical Approach to Neuroophthalmic Disorders | Approach to Visual Loss | Taylor and Francis | 2022 | |

SPECIFIC CONTRIBUTIONS TO SUBSECTION

1. Promoting Neuroophthalmology at National and International Platforms
2. Various publications on Neuroophthalmology (Details attached above) in National and International Indexed journals
3. **Organising secretary of National Conference of Neuroophthalmology 2023 , organized in PGIMER, Chandigarh – 10th to 12th February 2023 – Over 400 delegates registered and faculty participated from all over the world**
4. **Convened the various IAN Neuroophthalmology – subsection meetings from 2019 to 2022**
5. **Organized and participated in various Webinars/ seminars CMEs and public awareness activities based on Neuroophthalmology (As Below)**

6. Multiple Ongoing Extramural (ICMR/ DST- SERB) and Intramural projects on Neuroophthalmology (List Attached Below)

INVITED TALKS/ CONFERENCES/ WEBINARS/ SEMINARS/ CMES AND PUBLIC AWARENESS TALKS AND ACTIVITIES IN NEUROOPHTHALMOLOGY

1. **Organizing secretary of National Conference of Neuroophthalmology 2023 , organized in PGIMER, Chandigarh – 10th to 12th February 2023 – Over 400 delegates registered and faculty participated from all over the world**
2. **Talks on Visual loss in DADA- 2Vasculitis, Headache in Neuroophthalmology during National Conference of Neuroophthalmology 2023 , organized in PGIMER, Chandigarh – 10th to 12th February 2023**
3. **Member of North American Neuroophthalmology Society- with effect from Jan- Feb 2023**
4. Faculty speaker : Idiopathic Intracranial Hypertension: Recent advances in Diagnosis and Management at Asian Oceanic conference of Neurology (AOCN) and Annual conference of Indian academy of Neurology (IANCON) 2- 6 November 2022, New Delhi
5. Convened the subsection meeting for Neuroophthalmology subsection of IAN as convener of the subsection at Asian Oceanic conference of Neurology (AOCN) and Annual conference of Indian academy of Neurology (IANCON) 2- 6 November 2022, New Delhi
6. Invited faculty at th World Neurosciences Summit – III New Delhi from 26 to 28 August organized by Medanta Institute of neurosciences and gave atalk on Acute vision Loss- Is it eye, optic nerve or brain?
7. Presented abstract on To Assess The Levels Of Cytokines And Chemokines In The Patients With Idiopathic Intracranial Hypertension Asian Oceanic conference of Neurology (AOCN) and Annual conference of Indian academy of Neurology (IANCON) 2- 6 November 2022, New Delhi
8. **Invited Faculty and gave a talk on “NeuroRehabilitation in Neurology and Neuro-ophthalmology -Why and When”, the first plenary session (under the Optometry track) on 23rd February during 11th International ADT Conference with the theme "Emerging Trends in Neuro-Rehabilitation: An Allied Healthcare Perspective” organized by Chitkara Institute on 22nd February, 2023**
9. Convener of Neuro-Ophthalmology Webseries (N.O.W) organized by the department of Neurology, PGIMER which spanned through four weeks(eight sessions were held). First And Second session on Aug 08, 2020 and Aug 09, 2020; Third and Fourth session on Aug 22, 2020

and Aug 23, 2020; Fifth and Sixth Session on Aug 29, 2020 and Aug 30, 2020; Seventh and Eighth Session on Sept 05, 2020 and Sept 06, 2020

10. Presented talk on IIH- Diagnosis and management in the Neuroophthalmology web series, organised by the department of Neurology, PGIMER.
11. Invited faculty in Forum of Indian Neurology Education, evening tutorials- Presented talk on – An Approach to Optic neuritis on 2 March 2021
12. Convened the IAN Neuroophthalmology Subsection webinar held on 16 August 2020.
13. Invited faculty and presented a case of Infectious optic perineuritis in AIIMS- PGI Neurology Update held on 26 November 2020
14. Invited faculty and presented a talk on Ocular Oscillations in AIIMS- PGI Neurology Update held on 29 November 2020
15. ICTRIMS, 2019; Kolkata Faculty- Presented a lecture on Eye and Neuroimmunology
16. External examiner in the subject/paper Neurology of the BPT 4't'year Annual
17. Guest Faculty at Brainstorm 2019 (First IAN-AINA Neurology Workshop and 2nd AIIMS PGI Neurology Update)- Delivered a lecture on Infiltrative Optic Neuropathies
18. Invited Faculty in 27th annual conference of IAN- IANCON, 2019 held in Raipur, India(27-30 Sept 2018) and presented talk on Idiopathic intracranial hypertension: Major preventable neurological cause of blindness in India
19. Appointed as moderator for the IAN- Neuroophthalmology subsection of Indian Academy of Neurology and Moderated the first subsection meeting at 26TH IANCON at Raipur, India
20. Was invited as Faculty and chaired a platform session at 25th Annual Conference of Indian Academy of Neurology (IANCON-2017) held at Chennai from September 7-10, 2017 and presented abstract on “Infiltrative Optic Neuropathies- Heraldng Beacont to Sinister Etiologies.
21. Delivered a talk on “Neuroophthalmologic of Movement Disorders” during the 1st AIIMS-PGI Update held at AIIMS in January 2018.
22. Presented posters on “Mutation analysis in a cohort of patients of Lebers Hereditary Optic Neuropathy” and “Radiological profile and Visual outcome in patients of Idiopathic Intracranial Hypertension” in XXIII World Congress of Neurology, held at Japan, Kyoto from September 16-21, 2017.
23. Invited talk on ‘Neuromyelitis Optica- An experience from PGIMER in ICTRIMS- 2016- An update on Neuromyelitis optica spectrum disorders(NMOSD), Multiple sclerosis and related diseases. Held in Mangalore under the aegis of Indian academy of neurology and Nitte university. 4th–5th June 2016.
24. Gave a talk on Neuromyelitis Optica in CME on Diagnostic markers of autoimmune

neuropathological disorders in clinic held by Department of neurology and immunopathology.

18 march 2017

25. Presented an abstract on "Neuro-ophthalmological Predictors of Visual Outcome in IHH" in XXII World Congress of Neurology held at Chile, Santiago which recurred Top Score and also received Travel fellowship from WCN.
26. Invited as Speaker in 29th Annual Conference of Association of Neuroscientists of Eastern India held at Darjeeling, Siliguri, West Bengal from November 21-22, 2015 and delivered a talk on "Management of Neuromyelitis Optica".

PROJECTS: EXTRAMURAL AND INTRAMURAL

| Sr No. | Project title | Role | Funding Agency | Total Budget |
|--------|--|------------------------|---|----------------|
| 1. | To assess the levels of cytokines and chemokines in patients with Idiopathic Intracranial Hypertension (IIH) | Principal Investigator | Extramural, ICMR | Rs 23,77,743/- |
| 2. | Genetic analysis in patients with Ethambutol-induced optic neuropathy | Principal Investigator | Intramural | Rs 3,30,000/- |
| 3. | Digitally monitored customised weight loss intervention in patients of Idiopathic Intracranial Hypertension (IIH) | Principal Investigator | Extramural, ICMR (Technically approved) | Rs 27,62,300/- |
| 4. | Establishing Cerebrospinal Fluid (CSF) and serum biomarkers in patients with Primary Central Nervous System Lymphoma (PCNSL)- A Case-Control Study | Principal Investigator | Intramural | Rs 9,00,000/- |
| 5. | To assess the community incidence of Ethambutol-induced Optic Neuropathy (EtON) and evaluate the role of high dose pulse methylprednisolone (IVMP) in these patients | Co-investigator | Extramural, ICMR | Rs 23,11,898/- |
| 6. | Evaluation of prevalence and severity of Obstructive Sleep Apnea using overnight polysomnography in patients with Idiopathic Intracranial | Co-investigator | Extramural, ICMR | Rs 22,27,428/- |

Hypertension- A cross-sectional study with comparison group

- | | | | | |
|----|---|-----------------|------------|---------------|
| 7. | To study the NOD like receptors, gene profile in Immune mediated optic neuropathies | Co-Investigator | Intramural | Rs 9,95,000/- |
|----|---|-----------------|------------|---------------|

Why Do I want to become Convener of the subsection of Neuroophthalmology ?

Neuroophthalmology is my passion and I feel it helps to reach out and link the intricate neurological pathways in a very systemic manner.

While it is an amalgam sub speciality, it draws lots of academic, research and practical interest due to the paucity of knowledge currently available.

In my experience of holding various seminars and being a part of various conferences and brain awareness themes based on neuroophthalmology, I realize that there is far more potential and it draws me further to work in this field.

I have various ongoing research projects based on neuroophthalmology and I believe being the convener of this subsection I can contribute further in bringing the more like-minded physicians on a common academic and research platform helping promote neuroophthalmology.