

Vivek Lal

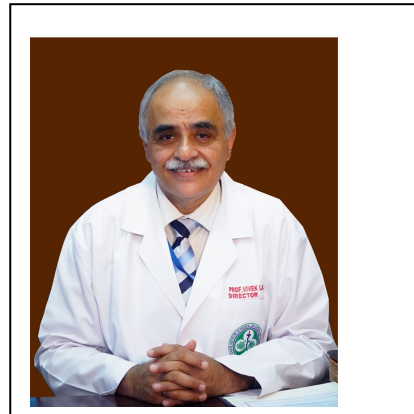
Director, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh

Prof and Head, Dept of Neurology, PGIMER

MD Internal Medicine, DM Neurology (PGIMER, Chandigarh)

Fellow Royal College of Physicians (FRCP Edin.)

Fellow Indian Academy of Neurology (FIAN)



CURRICULUM VITAE

Name: Dr Vivek Lal

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Nationality: Indian

SPECIAL ACHIEVEMENTS

- 1. Global Program Director and Chairperson- Teaching Course, Neuro-ophthalmology**
 - a. XXIII World Congress Neurology, Kyoto Japan; 2017**
 - b. XXIV World Congress Neurology, Dubai 2019**
 - c. XXIV World Congress Neurology, Italy, Rome 2021**
 - d. XXV World Congress of Neurology, Montreal, Canada 2023 (to be held)**
- 2. Visiting Guest Faculty (Neurology), University of Oxford, UK, March 2016**
- 3. Teaching Faculty, Medical ophthalmology Society (MOS), UK, March 2016**
- 4. Invited faculty and Chairperson- International Congress of Movement Disorders in Nice, France, 2019**
- 5. Invited faculty at Neurological conference at the Shupyk National Medical Academy of post graduate education (Kyiv, Ukraine): Feb 2020**
- 6. Invited Faculty Biannual meeting at Vietnamese Neurological Association 2019, Ho Chi Minh City, Vietnam**
- 7. Invited Faculty at the 2nd MAGNIMS-ESNR Course Neurology: Cairo, Egypt: 2019**
- 8. Master teachers award at SHINE: 2016 Chennai, India**
- 9. Visiting Neuro-ophthalmologist, University of Addis Ababa, Ethiopia: Nov 2015**
- 10. Teaching Faculty in Annual Conference of Association of Sri Lankan Neurologists, February 2022**
- 11. Teaching Faculty -Asia-Pacific Academy of Ophthalmology (APAO) Congress for the 38th APAO Congress to be held at the Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, Malaysia, Feb 23-28, 2023.**

HONORARY APPOINTMENTS

1. **Fellow of Royal College of Physicians, Edinburgh (FRCP- E)**
2. **Fellow of Indian Academy of Neurology (FIAN)**
3. **Member, Institute Body, All India Institute of Medical Sciences, Bhubaneswar, Odisha, India**
4. Appointed to the **Governing Body of Pt. Bhagwat Dayal Sharma University of Health Sciences, Rohtak**, for a term of two years with effect from 21.10.2010.
5. Appointed to the **Governing Body of the Central University of Gujarat, India** for a term of three years with effect from 14.10.2013
6. Appointed to the **Governing Body of Pt. Bhagwat Dayal Sharma University of Health Sciences, Rohtak, Haryana, India** for a term of two years with effect from 10.03.2015
7. Appointed as **Dean of the faculty of medical sciences of Baba Farid University of Health Sciences, Faridkot, Punjab, India** for a term of one year with effect from 1st February 2015
8. **Chairperson-** Neuro-ophthalmology subsection of Indian Academy of Neurology
9. On list of emergency **physicians of local military hospital**

SPECIAL INTERESTS

Neuro ophthalmology-

- a) Initiated weekly Sub-speciality Neuro ophthalmology Clinics
- b) Numerous publications on Neuro ophthalmology
- c) Delivered more than 100 National and International talks on the topic
- d) Organised many conferences, CMEs and public awareness campaigns for increasing awareness for neurological causes of blindness, their treatment and prevention.
- e) Global program director, chairperson and teaching faculty in various neuroophthalmology sessions in India and around the globe

EXPERIENCE IN NUTSHELL

Total Teaching experience: 30 years

Regular External Examiner - DM-Neurology, DNB Neurology and MD Medicine Students

Mentored Numerous **DM- Neurology; MD Medicine and PhD students** as Chief guide and Co-guide

Publications - > **200** (Peer reviewed National and International Journals and Book Chapters)

Editor in Chief of the book “**A Clinical Approach to Neuro-ophthalmic Disorders**” (Taylor and Francis Publication): 25 Chapters 368 Pages 183 Color & 91 B/W Illustrations Published October 28, 2022 by CRC Press

Associate Editor-1. Neuro-ophthalmology Journal; Taylor and Francis and European Journal of Neurology- Indian Edition

2. European Journal of Neurology- Indian Edition

Section Editor :

Section 11- Neuro-ophthalmology -----Yearbook of Neurology 2022. Ed Kalyan B BHATTACHARYA , Gagandeep Singh . Jaypee publications

Co-authored publication with Professor Louis Caplan, Professor of Neurology, **Harvard Medical School** (Lal and Caplan Neurology 2020)

International and National Invited Talks/ Lectures- > 100

International/ National Abstracts at Conferences- > 100

Organized of numerous International/ National/ Regional Conferences

Organized numerous Public Awareness Campaigns

Ongoing Research Projects

1. **Indian Council of Medical Research (ICMR) Project:** To assess the incidence of Ethambutol induced Optic neuropathy (EtON) and evaluate the role of high dose pulse methylprednisolone (IVMP) in these patients- **Principal Investigator**
2. To Study the NOD (Nucleotide binding oligomerization domain) like receptor gene profile in immune mediated optic neuropathies:- **Chief Investigator** (Intramural)
3. To assess the levels of cytokines and chemokines in patients of Idiopathic Intracranial Hypertension : *ICMR*- Coinvestigator
4. Evaluation of prevalence and severity of obstructive sleep apnea using overnight - polysomnography in patients with Idiopathic Intracranial hypertension – a cross sectional study with a comparison group: *ICMR*- Coinvestigator
5. Evaluation of Loop mediated isothermal amplification and polymerase chain reaction in clinical suspected and radiologically confirmed Neuro cysticercosis: *ICMR*- Coinvestigator
6. Secondary Prevention by structured semi interactive stroke prevention package in India: *ICMR*- Coinvestigator
7. A prospective, multicentre, randomized, double blind, placebo controlled Phase II clinical study to compare the safety and efficacy of PMZ-1620 therapy along with standard supportive care in subjects of mild moderate Alzheimer’s disease: *Pharmaz India Pvt Ltd*- Coinvestigator
8. Genetic architecture of Parkinson’s disease in India: Dept of Biotechnology, India- Coinvestigator
9. Indian Multiple sclerosis registry and research network *ICMR*- Coinvestigator
10. Development of gait training tools and mobility aids for Parkinson’s patients: *CSIO*- Coinvestigator
11. Genetic analysis in patients with Ethambutol induced Optic Neuropathy: *Intramural(Postgraduate Institute of Medical Education and Research)*- Coinvestigator
12. Assessment of sleep quality and sleep disorders among patients with movement disorders: *Non Funded* – Coinvestigator

UNDERGRADUATE AND POSTGRADUATE TRAINING

Examination	Board/ University	%	Attempt	Year
Final MBBS	Guru Nanak Dev University Amritsar, Punjab, India	68.08%	1 st	Nov 1985
MD Medicine	Postgraduate Institute of Medical Education and Research, Chandigarh India	NA	1 st	May 1990
DM Neurology	Postgraduate Institute of Medical Education and Research, Chandigarh, India	NA	1 st	Dec 1993

CLINICAL APPOINTMENTS/ JOB EXPERIENCE

Designation	Duration	Hospital	Job Description
<i>Junior Resident (Internal Medicine)</i>	3 years (July 87-June 90)	Postgraduate Institute of Medical Education and Research, Chandigarh, India- 160012	Clinical work - emergency Medicine duties, ward and outdoor work Research work: Thesis
<i>Senior Resident (Internal Medicine)</i>	1 year (July 90-June 91)	Postgraduate Institute of Medical Education and Research, Chandigarh India- 160012	Clinical work - emergency Medicine duties, ward and outdoor work Research work: Thesis
<i>Senior Resident (Neurology)</i>	3 years (July 91-May 94)	Postgraduate Institute of Medical Education and Research, Chandigarh India- 160012	Rotational posting in clinical neurology, neuroradiology, neurophysiology, neuropathology, neurosurgery Teaching Postgraduate students
<i>Assistant Professor</i>	May 1994 to July 2001	Postgraduate Institute of Medical Education and Research, Chandigarh India- 160012	Teaching postdoctoral neurology students and MD Medicine students Administrative responsibilities Departmental research activities
<i>Associate Professor</i>	July 2001	Postgraduate Institute of Medical Education and Research, Chandigarh	Teaching postdoctoral neurology students and MD Medicine students Administrative responsibilities

		India- 160012	Departmental research activities
<i>Additional Professor</i>	July 2005- July 2008	Postgraduate Institute of Medical Education and Research, Chandigarh	Teaching postdoctoral neurology students and MD Medicine students Administrative responsibilities
		India- 160012	Departmental research activities
<i>Professor</i>	July 2008- till date	Postgraduate Institute of Medical Education and Research, Chandigarh, India- 160012	Teaching postdoctoral neurology students and MD Medicine students Administrative responsibilities Departmental research activities
<i>Professor and Head</i>	May 1, 2014- till date	Postgraduate Institute of Medical Education and Research, Chandigarh	Teaching postdoctoral neurology students and MD Medicine students Administrative responsibilities
		India- 160012	Departmental research activities

DISTINCTIONS AND HONOURS DURING TRAINING

- **Second** with distinction in Physiology in first Prof. MBBS
- **First** in Biochemistry in first Prof. MBBS (*Silver medal*)
- **First** in Pathology in 2nd Prof. MBBS (*Silver Medal*)
- **First** with distinction in Forensic Medicine in 2nd Prof. MBBS (*Silver Medal*)
- **Distinction** in Pharmacology in 2nd Prof. MBBS
- **First** in 2nd Prof. MBBS Exam (*Silver Medal*)
- **Second** in Social and Preventive Medicine
- **Second** in ENT in Final Prof. MBBS
- **Second** in Medicine in Final Prof. MBBS

MEMBERSHIP OF INTERNATIONAL AND NATIONAL SCIENTIFIC BODIES

- Member of North American Neuro-ophthalmological society (NANOS)
- Member of Indian Academy of Neurology
- Member of Neurological society of India

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. 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.
3. Dass M, Aittan S, Muthumohan R, Anthwal D, Gupta RK, Mahajan G, Kumari P, Sharma N, Taneja RS, Sharma LK, Shree R, **Lal V**, Tyagi JS, Haldar S. Utility of cell-free transrenal DNA for the diagnosis of Tuberculous Meningitis: A proof-of-concept study. *Tuberculosis (Edinb)*. 2022 Jul;135:102213.
4. Sachdeva J, Goyal MK, Singh R, Kapila AT, 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.
5. 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.
6. Rishi V, Singh R, Goyal MK, Modi M, Garg V, Thakur JS, Sehgal RK, Khandelwal N, Jain G, Kumar AS, Choudhary A, Prabhakar S, **Lal V**. Exposure to *Toxocara Canis* is not Associated with New-Onset Epilepsy. *Neurol India*. 2022 Nov-Dec;70(6):2383-2387.
7. Sireesha Y, Shree R, Nagappa M, Patil A, Singla M, Padma Srivastava MV, et al., Impact of COVID-19 on Guillain-Barre Syndrome in India: A Multicenter Ambispective Cohort Study. *Ann Indian Acad Neurol*. 2022 Nov-Dec;25(6):1116-1121.
8. Choudhary N, Chakravarty K, Kharbanda PS, **Lal V**, Baishya J. Satisfaction and effectiveness of tele-medicine in follow-up of people with epilepsy in a resource-poor setting during COVID-19. *Epilepsy Behav*. 2022 Mar;128:108569.
9. Mehta S, **Lal V**. DHDDS Mutation: A Rare Cause of Refractory Epilepsy and Hyperkinetic Movement Disorder. *J Mov Disord*. 2023 Jan;16(1):107-109.
10. Mahajan S, Mehta S, Singh J, Tigari B, Balaini N, **Lal V**. Boucher Neuhäuser Syndrome in Twins: A Rare and Unusual Cause of Cerebellar Ataxia. *Mov Disord Clin Pract*. 2023 Feb 14;10(4):697-700.

11. Tripathi PP, Kumari S, Prabhat N, Lamba DS, Hans R, Goyal MK, **Lal V**, Sharma RR. Effectiveness of therapeutic plasma exchange in case of rare neurological disorder Isaacs syndrome. *Asian J Transfus Sci.* 2023 Jan-Jun;17(1):117-120.
12. Mehta S, Prabhat N, Radotra BD, Singh R, **Lal V**. A Rare Case of Dystonia: Leigh-like Syndrome. *Neurol India.* 2022 Jan-Feb;70(1):429-430.
13. Mehta S, Goel A, Singh D, Ray S, Tigari B, Takkar A, **Lal V**. Dystonia and Optic Neuropathy: Expanded Phenotype of Dynactin 1 Related Neurodegeneration. *Mov Disord Clin Pract.* 2022 Feb 16;9(4):535-539.
14. Karthigeyan M, Takkar AK, 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.
15. 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.
16. Rana V, Sharma KM, Arora A, Dogra M, Thakkar A, Sharma A, **Lal V**, Gupta V. A 12-year-old Asian Indian boy with bilateral rapidly progressive necrotizing Macular Retinitis. *Retin Cases Brief Rep.* 2022 Aug 25.
17. Nagarajan B, Kumar P, Sudeep KC, Suthar R, Biswal M, Muralidharan J, Sankhyan N, **Lal V**. Optic Neuritis, Miller Fisher Syndrome, and Guillain Barre Syndrome Overlap Secondary to Scrub Typhus in a North Indian Girl. *Ann Indian Acad Neurol.* 2022 Sep-Oct;25(5):958-959.
18. 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.
19. Ray S, Kathuria H, Chakravarty K, Rawat A, Takkar A, Mehta S, Goyal M, Ahuja C, Bhatia V, **Lal V**, Gupta K. Seronegative panencephalitis complicated by viral encephalomyelitis in a case of Good's syndrome - a neuropathological report. *Int J Neurosci.* 2022 Oct;132(10):1031-1036.
20. Kapila AT, Ray S, **Lal V**. Tolosa-Hunt Syndrome and IgG4 Diseases in Neuro-Ophthalmology. *Ann Indian Acad Neurol.* 2022 Oct;25(Suppl 2):S83-S90.
21. Ray S, Takkar A, **Lal V**. Idiopathic Intracranial Hypertension- The Eyes and Beyond. *Ann Indian Acad Neurol.* 2022 Mar-Apr;25(2):179-180.
22. **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.

23. 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.
24. Singh C, Jain A, Takkar A ... **Lal V**, Malhotra P, Prakash G. Successful Use of High Dose Methotrexate in Treatment of Primary CNS Lymphoma Patients Without Access to Serum Methotrexate Levels Monitoring: Challenges and Outcome. *Indian J Hematol Blood Transfus.* 2022 Jan;38(1):68-77. doi: 10.1007/s12288-021-01438-5.
25. Choudhary N, Chakravarty K, Kharbanda PS, **Lal V**, Baishya J. Satisfaction and effectiveness of tele-medicine in follow-up of people with epilepsy in a resource-poor setting during COVID-19. *Epilepsy Behav.* 2022 Mar;128:108569. doi: 10.1016/j.yebeh.2022.108569.
26. Goyal G, Kaur U, **Lal V**, Mahesh KV, Sehgal R. A study on neurocognitive disorders and demographic profile of neurocysticercosis patients. *Trop Parasitol.* 2021 Jul-Dec;11(2):108-112. doi: 10.4103/tp.TP_88_20.
27. Mehta S, **Lal V**. Exploring the Relationship between Bradykinesia and Cognitive Impairment in Parkinson's Disease. *Neurol India.* 2021 Sep-Oct;69(5):1507-1508. doi: 10.4103/0028-3886.329573.
28. Chakravarty K, **Lal V**, Ray S. A Novel Mutation in the CLCN1 Gene Causing Autosomal Recessive Myotonia Congenita in Siblings. *Ann Indian Acad Neurol.* 2021 Jul-Aug;24(4):605-606. doi: 10.4103/aian.AIAN_970_20.
29. Vinny PW, Garg R, Padma Srivastava MV, **Lal V**, Vishnu VY. Critical Appraisal of a Machine Learning Paper: A Guide for the Neurologist. *Ann Indian Acad Neurol.* 2021 Jul-Aug;24(4):481-489. doi: 10.4103/aian.AIAN_1120_20.
30. Magrinelli F, Mehta S, Di Lazzaro G, **Lal V**, Houlden H, Bhatia KP. Dissecting the Phenotype and Genotype of PLA2G6-Related Parkinsonism. *Mov Disord.* 2022 Jan;37(1):148-161. doi: 10.1002/mds.28807.
31. Chakravarty K, Aleti S, Kharbanda PS, **Lal V**, Baishya J. Knowledge, attitude, and barriers for epilepsy surgery: A survey among resident doctors in a tertiary care center in India. *Epilepsy Behav.* 2021 Sep 6;123:108280. doi: 10.1016/j.yebeh.2021.108280.
32. Chakravarty K, Ray S, Kharbanda PS, **Lal V**, Baishya J. Temporal lobe epilepsy with amygdala enlargement: A systematic review. *Acta Neurol Scand.* 2021 Sep;144(3):236-250. doi: 10.1111/ane.13455.

33. Bhatia R, Sylaja PN, ...**Lal V**, Salunkhe M, Gupta P; COVID-19 Stroke Study Group (CSSG) India. Clinical profile and outcome of non-COVID strokes during pandemic and the pre pandemic period: COVID-Stroke Study Group (CSSG) India. *J Neurol Sci*. 2021 Sep 15;428:117583. doi: 10.1016/j.jns.2021.117583.
34. Kumar N, Kaur S, Raj S, **Lal V**, Sukhija J. Causes and Outcomes of Patients Presenting with Diplopia: A Hospital-based Study. *Neuroophthalmology*. 2021 Mar 2;45(4):238-245. doi: 10.1080/01658107.2020.1860091.
35. Kumar AS, Naheed D, Balaini N, Mehta S, **Lal V**. "Mercedes Benz Sign: Osmotic Demyelination Syndrome". *Neurol India*. 2021 May-Jun;69(3):777-778. doi: 10.4103/0028-3886.319223.
36. Mehta S, **Lal V**. Exploring the Relationship between Bradykinesia and Cognitive Impairment in Parkinson's Disease. *Neurol India*. 2021 May-Jun;69(3):609-610. doi: 10.4103/0028-3886.319239.
37. 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.
38. Prabhat N, Chandel S, Takkar DA, 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.
39. Thirunavukkarasu B, Gupta K, Nada R, Sharma A, **Lal V**, Radotra BD. Neuropathological spectrum in systemic lupus erythematosus: A single institute autopsy experience. *J Neuroimmunol*. 2021 Apr 15;353:577518. doi: 10.1016/j.jneuroim.2021.577518.
40. Agarwal A, Sharm D, Mahajan S,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.

41. Kathuria H, Mehta S, Ahuja CK, Chakravarty K, Ray S, ...**Lal V**. Utility of Imaging of Nigrosome-1 on 3T MRI and Its Comparison with 18F-DOPA PET in the Diagnosis of Idiopathic Parkinson Disease and Atypical Parkinsonism. *Mov Disord Clin Pract*. 2020 Oct 2;8(2):224-230. doi: 10.1002/mdc3.13091.
42. Singla M, Sharma MK, Khurana D, **Lal V**. Role of High Frequency Ultrasound in Diagnosing Carpal Tunnel Syndrome as Compared with Conventional Nerve Conduction Studies. *Ann Indian Acad Neurol*. 2020 Sep-Oct;23(5):649-655. doi: 10.4103/aian.AIAN_469_19.
43. Prabhakar S, Vishnu VY....**Lal V**, Singla R, Kansal A, Avasthi A. Efficacy of Bacopa Monnieri (Brahmi) and Donepezil in Alzheimer's Disease and Mild Cognitive Impairment: A Randomized Double-Blind Parallel Phase 2b Study. *Ann Indian Acad Neurol*. 2020 Nov-Dec;23(6):767-773. doi: 10.4103/aian.AIAN_610_19.
44. Mehta S, Ray S, Chakravarty K, **Lal V**. Spectrum of Truncal Dystonia and Response to Treatment: A Retrospective Analysis. *Ann Indian Acad Neurol*. 2020 Sep-Oct;23(5):644-648. doi: 10.4103/aian.AIAN_542_20.
45. Garg VK, Goyal MK, Khullar M, **Lal V**, Shree R, Sachdeva J. Presence of allele CYP3A4*16 does not have any bearing on carbamazepine-induced adverse drug reactions in North Indian people with epilepsy. *Indian J Pharmacol*. 2020 Sep-Oct;52(5):378-382. doi: 10.4103/ijp.IJP_549_20.
46. Bhatkar S, Mahesh KV, Sachdeva J.... Patnaik SN, Prabhat N, **Lal V**. Magnetic resonance imaging (MRI) versus computed tomographic scan (CT scan) of brain in evaluation of suspected cavernous sinus syndrome. *Neuroradiol J*. 2020 Dec;33(6):501-507. doi: 10.1177/1971400920970921.

47. Ray S, Kathuria H, Chakravarty K.... Bhatia V, **Lal V**, Gupta K. Seronegative panencephalitis complicated by viral encephalomyelitis in a case of Good's syndrome - a neuropathological report. *Int J Neurosci*. 2020 Dec 15:1-6. doi: 10.1080/00207454.2020.1860040.
48. Rebello A, Ray S, Singh D, Sukriya S, Goyal MK, **Lal V**. Palatal Tremor in Amyotrophic Lateral Sclerosis. *Mov Disord Clin Pract*. 2020 Sep 30;7(8):990-991. doi: 10.1002/mdc3.13082.
49. Goel A, Shree R, Kathuria H, Mehta S, **Lal V**, Mahesh KV. Teaching Video Neuroimages: Jaw Clonus in Amyotrophic Lateral Sclerosis. *Neurology*. 2020 Oct 27;10.1212/WNL.0000000000011127. doi: 10.1212/WNL.0000000000011127.
50. Sharma K, Sharma M, Shree R ... **Lal V**, Sharma N, Ray P. Xpert MTB/RIF ultra for the diagnosis of tuberculous meningitis: A diagnostic accuracy study from India. *Tuberculosis (Edinb)*. 2020 Dec;125:101990. doi: 10.1016/j.tube.2020.101990. Epub 2020 Sep 7. PMID: 32920283.
51. Prabhat N, Ray S, Chakravarty K..... Lakhanpal V, Goyal MK, **Lal V**. Atypical neurological manifestations of dengue fever: a case series and mini review. *Postgrad Med J*. 2020 Dec;96(1142):759-765. doi: 10.1136/postgradmedj-2020-137533.
52. Takkar A, Mehta S, Gupta N, Bansal S, **Lal V**. Anti- RI antibody associated progressive supranuclear palsy like presentation in a patient with breast carcinoma. *J Neuroimmunol* 2020;347:57734. doi:10.1016/j.jneuroim.2020.57
53. Gupta S, Gupta P, Khalid S, Kumar A, **Lal V**, Rajwanshi A. Multiple calvarial lesions in an adult male: Cytopathology of a rare presentation. *Cytopathology* 2020;10.1111/cyt.12892. doi:10.1111/cyt.1289
54. Gupta P, Muthukumar N, Rajshekhar V, Tripathi M, ... **Lal V** ...Chandra PS. Neurosurgery and neurology practices during the Novel COVID-19 Pandemic: A consensus statement from India. *Neurol India* 2020;68(2):246-254. doi: 10.4103/0028-3886.283130.

55. 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;343:577229. doi: 10.1016/j.jneuroim.2020.577229.
56. Sachdeva J, Mahesh KV, Shree R, Jain G, Kapila AT, 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;52(1):49-52. doi: 10.4103/ijp.IJP_333_18.
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58. Takkar A, **Lal V**. Idiopathic intracranial hypertension: The monster within. *Ann Indian Acad Neurol* 2020;23(2):159-166. doi: 10.4103/aian.AIAN_190_19.
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64. Parihar AS, Vadi SK, Kumar R, Singh H, Takkar A ... **Lal V**. Unilateral lateral rectus paralysis showing incomplete "V" sign' on 18F-FDG PET/CT. *Clin Nucl Med* 2020;45(1):e53-e54. doi: 10.1097/RLU.0000000000002775.
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Contribution to Neuroophthalmology in India

I have been teaching, training and doing research in PGI for thirty years now which I consider my second home. **I described Ophthalmoplegic Migraine (OM) as a definite entity for the first time from India . I have authored many articles and co-authored a prominent article on this topic with Prof. Louis Caplan, Professor and Head, Department of Neurology at Harvard Medical School. I have been visiting guest faculty to University of Oxford. I am an elected International Rotary Scholar and have taken part in medical Rotary missions in African countries.**

Neuroophthalmology has been and is my passion since the time I joined Neurology.

I have been instrumental in introducing and promoting “**Neuroophthalmology**” in India, and have been **successful in salvaging vision in many of my patients.** I started the a dedicated Neuroophthalmology OPD which caters to patients with undiagnosed visual loss from across the country. I have been representing my motherland- India at various International Neurology and Neuroophthalmology forums as well. Besides organising multiple national conferences, **I have been Chairman and convener of Neuroophthalmology Courses in the World Congress of Neurology in Kyoto (2017), Dubai (2019), Rome (2021) and now Montreal (to be held in 2023).**

I have lectured on subjects related to Neuroophthalmology all over the world including different world congresses and have always held the national flag flying high.

I strongly believe in **Holistic medicine and** have been actively organizing lectures, seminars and campaigns for general public on headache, visual loss, and other topics on neuroophthalmology . These campaigns are focussed to help people connect-to, understand and accept their disease and its treatment. These meetings are fondly attended by patients and their relatives. I have been striving towards removal of societal taboos associated with these treatable neurological conditions.

I have numerous publications in Neuroophthalmology in National and International Indexed journals and have recently published a dedicated book on neuroophthalmology (A clinical approach to Neuroophthalmologic diseases(Taylor and Francis) which is a practical guide for students and physicians interested in the subject.

In my opinion the most important attributes of a teacher/researcher/health care worker are his commitment, sincerity towards work, truthfulness and honesty towards a cause.

