

Full Name as registered in IAN: ATANU BISWAS

Qualifications:

S No.	Institution/ Place	Degree Awarded	Year	Field of Study
1.	University of North Bengal	MBBS	1990	Medicine
2.	Banaras Hindu University	M.D	2003	Medicine
3.	University of Calcutta	DM	2006	Neurology

Current Affiliation(s):

Professor and Head, Department of Neurology, Institute of Post Graduate Medical Education & Research (IPGME&R) and Bangur Institute of Neurosciences, Kolkata

Areas of interest:

Cognitive Neurology and Movement Disorders

Achievements:

- Guided more than 20 DM (Neurology) and several MD students
- Mentoring 4 PhD scholars
- Supervised 3 candidates as Post-doctoral fellow
- Carrying out clinical and basic research in neurodegenerative disorders for 20 years
- Landmark publications:
 - First study on prevalence of Mild Cognitive Impairment from India published in *Neurology* in 2007
- Principal Investigator of several research projects
- Received research grants from ICMR, DBT and DST
- Reviewer of several international journals: *Neurology*, *Journal of International Psychological Society*, *BMC Neurology*, *International Journal of Geriatric Psychiatry*, *PLoS ONE*, *Frontiers*, *Gerontology and Geriatric Medicine*, *Acta Neurologica Scandinavica*, *Acta neurologica Belgica*, *The Indian Journal of Medical Research*, *Annals of Indian Academy of Neurology*, etc.
- Treasurer of Association of Neuroscientists of Eastern India (ANEI) (2023-27)
- Executive Member of Kolkata Neurological Association (KAN) (2023-27)

Awards:

- (a) Received **Certificate of Merit** from Governor of West Bengal for an essay competition in 1984
- (b) Received “**Sun Pharma Award for Best Paper on Epilepsy**” at the 12th Annual Conference of Indian Academy of Neurology.
- (c) Appointed as Honorary Associate Editor of **Annals of Medical Science & Research (AMSR)** in 2021

- (d) Appointed as Honorary Associate Editor of **Frontiers of Dementia**
- (e) **Fellow of Indian Academy of Neurology (FIAN)** in 2023 (to be awarded in IANCON 2023)

Publications

Google scholar citation: 3230, h-index: 24, i-index: 39 (as on 22.06.2023)

1. Wall JD, Sathirapongsasuti JF, Gupta R, **Biswas A**, *et al.* South Asian medical cohorts reveal strong founder effects and high rates of homozygosity. *Nat Commun* **14**, 3377 (2023). <https://doi.org/10.1038/s41467-023-38766-1>
2. Sadhukhan D, Mallick A, Mishra S, Mukherjee A, **Biswas A**, Hui SP, Biswas A. An Indian Young-onset Dementia With Parkinsonism With Double Heterozygous Mutations in ABCA7 and PRKN Identified Through Whole-exome Sequencing. *Alzheimer Dis Assoc Disord*. 2023 Apr-Jun 01;37(2):164-167. doi: 10.1097/WAD.0000000000000546. Epub 2023 May 8. PMID: 37253124.
3. Chakraborty U, Saha R, Rou US, **Biswas A**. Charcot Arthropathy of Elbow Joint in Syringomyelia. *Neurol India* 2023; 71: 366-7
4. Chakraborty AP, Mukherjee A, **Biswas A**. Limb to Cranial Overflow Dystonia in a Patient After Stroke. *JAMA Neurol*. 2023 May 1;80(5):529. doi: 10.1001/jamaneurol.2023.0058. PMID: 36877507.
5. Das S, **Biswas A**, Sinha Roy U, Roy BK. Reversible Cerebral Vasoconstriction Syndrome with Intracerebral Hemorrhage in a Thalassemic Child—An Extremely Rare Complication. *Journal of Pediatric Neurology* DOI: 10.1055/s-0043-1761483
6. Datta AK, Mukherjee A, **Biswas A**. Gastrointestinal, Respiratory, and Olfactory Neurotropism of Sars-Cov2 as a Possible Trigger of Parkinson's Disease: Is a Multi-Hit Multi-Step Process on the Cards. *Ann Indian Acad Neurol*. 2023 Mar-Apr;26(2):127-136. doi: 10.4103/aian.aian_767_22. Epub 2023 Jan 17. PMID: 37179662; PMCID: PMC10171009.
7. Bhattacharyya P, **Biswas A**, Biswas SC. Brain-enriched miR-128: Reduced in exosomes from Parkinson's patient plasma, improves synaptic integrity, and prevents 6-OHDA mediated neuronal apoptosis. *Front Cell Neurosci*. 2023 Jan 12;16:1037903. doi: 10.3389/fncel.2022.1037903. PMID: 36713778; PMCID: PMC9879011.
8. Mukherjee A, **Biswas A**. CSF P-tau 231 as biomarker of Alzheimer's disease. (Editorial Commentary) *Ann Ind Acad Neurol* 2022; 25(6): 995-96. DOI: 10.4103/aian.aian_858_22
9. Chakraborty A, Mukherjee A, Sarkar S, Sinharoy U, **Biswas A**. Evaluation of Non-Motor Symptoms in Wilson Disease Using the Parkinson's Disease Nonmotor Symptoms Questionnaire: A Pilot Cross-Sectional Study and Critical Assessment. *Ann Ind Acad Neurol* 2022; 25(6): 1062-66. DOI: 10.4103/aian.aian_1040_21
10. Chakrabarty M, Bhattacharya K, Chatterjee G, **Biswas A**, Ghoshal M. Pragmatic deficits in patients with schizophrenia and right hemisphere damage: A pilot study. *Int J Lang Commun Disord* 2022 <https://doi.org/10.1111/1460-6984.12778>
11. **Biswas A**. The health of the nation in 2100 – The hope and despair (Editorial). *Ann Med Sc Res* 2022; 1(2): 51-53. DOI: [10.4103/amsr.amsr_37_22](https://doi.org/10.4103/amsr.amsr_37_22)
12. Chakraborty AP, Mukherjee A, Bhattacharyya A, Bhattacharyya D, Ray BK, **Biswas A**. Gait apraxia with exaggerated upper limb movements as presentation of AARS2 related

- leukoencephalopathy. *Tremor and Other Hyperkinetic Movements* 2022; 12(1): 24. DOI: <http://doi.org/10.5334/tohm.705>
13. Kukkle PL, Geetha TS, Chaudhary R, Sathirapongsasuti JF, Goyal V, Kandadai RM, Kumar H, Borgohain R, Mukherjee A, Oliver M, Sunil M, Mootor MFE, Kapil S, Mandloi N, Wadia PM, Yadav R, Desai S, Kumar N, **Biswas A**, Pal PK, Muthane UB, Das SK, Sakthivel Murugan SM, Peterson AS, Stawiski EW, Seshagiri S, Gupta R, Ramprasad VL, Prai PRAOI. Genome-Wide Polygenic Score Predicts Large Number of High Risk Individuals in Monogenic Undiagnosed Young Onset Parkinson's Disease Patients from India. *Adv Biol (Weinh)*. 2022 Nov;6(11):e2101326. doi: 10.1002/adbi.202101326. Epub 2022 Jul 10. PMID: 35810474.
 14. Bhattacharyya B, Mukherjee R, Mukherjee A, Das G, Dogra AK, Das S, **Biswas A**. Adaptation and Validation of Addenbrooke's Cognitive Examination-III in Bengali for Screening MCI and Dementia. *Arch Clin Neuropsychol*. 2022 Oct 19;37(7):1619-1627. doi: 10.1093/arclin/acac041. PMID: 35780304.
 15. Bhat A, **Biswas A**. Cognitive Profile of Large-Vessel Vascular Dementia-An Observational Study from a Tertiary Care Center in Kolkata. *J Neurosci Rural Pract* 2022;13(3):411-416. Published 2022 May 13. doi:10.1055/s-0042-1744467
 16. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, **Biswas A**. Delineating caregiver distress and health condition of dementia sufferers during lockdown due to COVID-19 pandemic. *Ann Med Sc Res* 2022; 1(1): 19-24.
 17. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, **Biswas A**. Health status of persons with dementia and caregivers' burden during the second wave of COVID-19 pandemic: an Indian study. *Dement Neuropsychol* (Published online on 03 June 2022) <https://doi.org/10.1590/1980-5764-DN-2021-0100>
 18. Sadhukhan D, Biswas A, **Biswas A**, Ray K, Ray J. Genetic polymorphisms in *DRD4* and risk for Parkinson's disease among eastern Indians. *Neurol India* 2022; 70: 729-32. DOI: 10.4103/0028-3886.344670
 19. Gupta S, **Biswas A**, Chandra A, Ray BK, Dutta A, Pandit A. Post-varicella neurological complications: a preliminary observation from a tertiary care centre of Eastern India. *Ann Indian Acad Neurol* 2022; 25: 207-13. DOI: [10.4103/aian.aian_270_21](https://doi.org/10.4103/aian.aian_270_21)
 20. Banerjee S, Mukherjee A, Bhattacharyya B, Mohanakumar KP, **Biswas A**. Quality of life and concerns of Parkinson's disease patients and their caregivers during COVID-19 pandemic: An Indian study. *Ann Ind Acad Neurol* 2022; 25(4): 676-82. DOI: [10.4103/aian.aian_905_21](https://doi.org/10.4103/aian.aian_905_21)
 21. Chowdhury A, Datta AK, Biswas S, **Biswas A**. Parakinesia Brachialis Ositans – a rare post-stroke phenomenon. *Tremor and Other Hyperkinetic Movements* 2022; 12(1): 6. DOI: <http://doi.org/10.5334/tohm.680>
 22. GBD 2019 Ageing Collaborators. Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. *BMJ*. 2022;376:e068208. Published 2022 Mar 10. doi:10.1136/bmj-2021-068208
 23. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, **Biswas A**. Burden and Health Condition of Dementia Patients during Lockdown due to COVID-19 Pandemic. *Ann Ind Acad Neurol* 2022; 25(2): 235-38. DOI: 10.4103/aian.aian_439_21
 24. Bhat A, Das D, Mukherjee A, Mukherjee D, Gangopadhyay G, **Biswas A**. Comparative study of risk factors and cognitive profile of small- and large-vessel vascular dementia – a clinic based study. *Neurol India* 2022; 70:258-63. DOI: 10.4103/0028-3886.338653
 25. GBD 2019 Dementia Forecasting Collaborators. Estimation of the global prevalence of dementia in 2019 and forecasted prevalence in 2050: an analysis for the Global Burden of

- Disease Study 2019. *Lancet Public Health*. 2022;7(2):e105-e125. doi:10.1016/S2468-2667(21)00249-8
26. Bhattacharyya B, Mukherjee R, Chakraborty A, Mukherjee A, Das G, **Biswas A**. An online survey on stress, anxiety, and depression in terminal batch students of 2020 during lockdown due to COVID-19 pandemic. *Medical Journal of Dr D Y Patil Vidyapeeth* 15(7) DOI: 10.4103/mjdrdypu.mjdrdypu_715_21
 27. Sahu S, Mukherjee A, Biswas S, Leta V, Rukavina K, Das SK, **Biswas A**. Burden of nonmotor symptoms in Parkinson's disease patients from eastern India. *Ann Mov Disord* 2021; 4:121-30
 28. Chakraborty S, Joardar A, Roy S, Gangopadhyay G, **Biswas A**. Apo E ε4 and IL-6-174G/C polymorphism may lead to early onset of Alzheimer's disease with atypical presentation. *Neurol Ind* 2021; 69:1228-33
 29. Chaudhuri J, Biswas S, Gangopadhyay G, Biswas T, Datta J, **Biswas A**, Pandit A, Datta AK, Mukherjee A, Dutta AK, Bhattacharys P, Hazra A. Correlation of ATP7B gene mutations with clinical phenotype and radiological features in Indian Wilson's disease patients. *Acta Neurologica Belgica* 2022; 122:181-190 (Published online on 13 October 2021).
 30. GBD 2019 Dementia Collaborators. Use of multidimensional item response theory methods for dementia prevalence prediction: an example using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. *BMC Med Inform Decis Mak*. 2021 Aug 11;21(1):241. doi: 10.1186/s12911-021-01590-y. PMID: 34380485; PMCID: PMC8356410.
 31. Das G, Biswas S, Dubey S, Lahiri D, Ray BK, Pandit A, Saha SK, **Biswas A**. Perception about Etiology of Epilepsy and Help-Seeking Behavior in Patients with Epilepsy. *International Journal of Epilepsy* 2021; 7(01): 22-28. DOI: 10.1055/s-0041-1731933
 32. GBD 2019 Collaborators. Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019. *Alzheimers Dement (N Y)*. 2021;7(1):e12200. Published 2021 Jul 27. doi:10.1002/trc2.12200
 33. Bhat A, **Biswas A**, Das G, Lahiri D, Dubey S, Mukherjee A. Behavioral variations among vascular cognitive impairment subtypes – A comparative study, *Applied Neuropsychology* 2021: Adult, DOI: [10.1080/23279095.2021.1954002](https://doi.org/10.1080/23279095.2021.1954002)
 34. Kumar S, Gangopadhyay G, **Biswas A**, Dubey S, Pandit A, Das S, Ray BK. A comparison of cognitive performances between neuromyelitis optica spectrum disorder and multiple sclerosis patients in Indian context. *Egypt J Neurol Psychiatry Neurosurg* 57, 97 (2021). <https://doi.org/10.1186/s41983-021-00351-y>
 35. India State-Level Disease Burden Initiative Neurological Disorders Collaborators. The burden of neurological disorders across the states of India: the Global Burden of Disease Study 1990-2019. *Lancet Glob Health*. 2021;9(8):e1129-e1144. doi:10.1016/S2214-109X(21)00164-9
 36. GBD 2019 Dementia Collaborators. The Burden of Dementia due to Down Syndrome, Parkinson's Disease, Stroke, and Traumatic Brain Injury: A Systematic Analysis for the Global Burden of Disease Study 2019. *Neuroepidemiology*. 2021;55(4):286-296. doi:10.1159/000515393
 37. Gupta S, **Biswas A**, Dutta A, Das D, Ray B. Simultaneous cerebral venous and arterial involvement in the postpartum period: Rare presentation of antiphospholipid syndrome. *Neurology Asia* 2021; 26(2):431-436

38. Chaudhury, S.S., Sinha, K., Majumder, R. **Biswas A**, Das Mukhopadhyay C. COVID-19 and central nervous system interplay: A big picture beyond clinical manifestation. *J Biosci* 2021; 46, 47 <https://doi.org/10.1007/s12038-021-00165-3>
39. Chowdhury A, Mukherjee A, Sinharoy U, Pandit A, **Biswas A**. Non-motor features of amyotrophic lateral sclerosis: A clinic-based study. *Ann Ind Acad Neurol* 2021; DOI: 10.4103/aian.AIAN_51_21
40. Datta AK, Mukherjee A, Ray B, **Biswas A**. Anti MOG associated long segment myelitis presenting as anterior cord syndrome. *BMJ Case Reports* 2021; 14(5). DOI: [10.1136/bcr-2020-240055](https://doi.org/10.1136/bcr-2020-240055).
41. Mukherjee D, Bhattacharya S, Pattnaik S, Gupta S, Ray BK, **Biswas A**. Ataxia and Myoclonus with a Cherry-Red Spot Unfurling an Unusual Phenotypic Presentation of Sialidosis Type 1. *J Mov Disord.* 2021;14(3):256-258. doi:10.14802/jmd.20119
42. Acharya M, Banerjee S, Chatterjee A, Mukherjee A, Biswas S, Gangopadhyay G, **Biswas A**. Predicting Long-Term Outcome of Patients of Early Parkinsonism with Acute Levodopa Challenge Test. *Neurol Ind* 2021; 69(2):430-4. DOI: [10.4103/0028-3886.314539](https://doi.org/10.4103/0028-3886.314539)
43. Kukkle PL, Goyal V, Geetha TS, Mridula KR, Kumar H, Borgohain R, Mukherjee A, Wadia PM, Yadav R, Desai S, Kumar N, Gupta R, **Biswas A**, Pal PK, Muthane U, Das SK, Quinn N, Ramprasad VL; Parkinson Research Alliance of India (PRAI). Clinical Study of 668 Indian Subjects with Juvenile, Young, and Early Onset Parkinson's Disease. *Can J Neurol Sci.* 2022 Jan;49(1):93-101. doi: 10.1017/cjn.2021.40. Epub 2021 Mar 9. PMID: 33685545.
44. Biswas A, Sadhukhan D, **Biswas A**, Das SK, Banerjee TK, Bal PS, Pal S, Ghosh A, Ray K, Ray J. Identification of GBA mutations among neurodegenerative disease patients from eastern India. *Neurosci Lett.* 2021 Apr 23;751:135816. doi: 10.1016/j.neulet.2021.135816. Epub 2021 Mar 9. PMID: 33711404.
45. Datta AK, Pandit A, Biswas S, **Biswas A**, Roy BK, Gangopadhyay G. Spectrum of Anti-NMDA Receptor Antibody Encephalitis: Clinical Profile, Management and Outcomes. *Ann Indian Acad Neurol.* 2021 May-Jun;24(3):383-389. doi: 10.4103/aian.AIAN_817_20. Epub 2021 Mar 1. PMID: 34447002; PMCID: PMC8370154.
46. Local Burden of Disease Vaccine Coverage Collaborators. Mapping routine measles vaccination in low- and middle-income countries. *Nature.* 2021 Jan;589(7842):415-419. doi: 10.1038/s41586-020-03043-4. Epub 2020 Dec 16. PMID: 33328634; PMCID: PMC7739806.
47. Banerjee S, Mukherjee A, Mohanakumar KP, **Biswas A**. Effect of COVID-19 Related Lockdown on Nonmotor Symptoms of Parkinson's Disease. *Ann Indian Acad Neurol.* 2022 Jan-Feb;25(1):145-147. doi: 10.4103/aian.AIAN_65_21. Epub 2021 Apr 21. PMID: 35342257; PMCID: PMC8954299.
48. Saini D, Mukherjee A, Roy A, **Biswas A**. A Comparative Study of the Behavioral Profile of the Behavioral Variant of Frontotemporal Dementia and Parkinson's Disease *Dementia. Dement Geriatr Cogn Dis Extra.* 2020 Dec 15;10(3):182-194. doi: 10.1159/000512042. PMID: 33569074; PMCID: PMC7841718.
49. Das G, Dubey S, Sinharoy U, Mukherjee A, Banerjee S, Lahiri D, **Biswas A**. Clinical and radiological profile of posterior cortical atrophy and comparison with a group of typical Alzheimer disease and amnesic mild cognitive impairment. *Acta Neurol Belg.* 2021 Aug;121(4):1009-1018. doi: 10.1007/s13760-020-01547-4. Epub 2020 Nov 23. PMID: 33230741.

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51. Chaudhuri J, Dutta AK, Biswas T, **Biswas A**, Ray BK, Ganguly G. Charcot-Marie-Tooth disease type 4J with spastic quadriplegia, epilepsy and global developmental delay: a tale of three siblings. *Int J Neurosci*. 2022 Aug;132(8):783-786. doi: 10.1080/00207454.2020.1840373. Epub 2020 Oct 26. PMID: 33080143.
52. Sadhukhan D, Biswas A, Bhaduri A, Sarkar N, **Biswas A**, Das SK, Banerjee TK, Ray K, Ray J. Role of *LRRK2* variant p.Gly2019Ser in patients with Parkinsonism. *Indian J Med Res*. 2020 Jun;151(6):592-597. doi: 10.4103/ijmr.IJMR_25_18. PMID: 32719233; PMCID: PMC7602925.
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54. Chaudhuri J, Biswas T, Ganguly G, Datta S, Pandit A, **Biswas A**. Spectrum of anti-myelin oligodendrocyte glycoprotein antibody (MOG-Ab)-associated diseases: an Indian perspective. *Acta Neurol Belg*. 2021 Aug;121(4):927-931. doi: 10.1007/s13760-020-01356-9. Epub 2020 Apr 20. PMID: 32314270.
55. Hussain Z, Mukherjee A, Ganguly G, Joardar A, Roy S, Guin DS, Sinharoy U, **Biswas A**, Das SK. "Clinical Profile of Genetically Proven Huntington's Disease Patients from Eastern India". *Ann Indian Acad Neurol*. 2020 Mar-Apr;23(2):195-200. doi: 10.4103/aian.AIAN_505_19. Epub 2020 Feb 25. PMID: 32189861; PMCID: PMC7061496.
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57. Roy D, Chakrabarti SS, Banerjee A, Sharma P, **Biswas A**, Chakrabarti S. Serum 24-hydroxycholesterol in probable Alzheimer's dementia: Reexploring the significance of a tentative Alzheimer's disease biomarker. *Aging Med (Milton)*. 2019 May 25;2(2):74-81. doi: 10.1002/agm2.12068. PMID: 31942515; PMCID: PMC6880732.
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[Member of IAN Since \(Year\)](#): 2004

[Member of subsection since \(Year\)](#): Since 2006

[Contributions to subsection](#):

Worked as Convener of the subsection since 2016. Carried out several Teaching Courses in Cognitive Neurology (TCCN) in 2019-20 in various cities including Bengaluru, Hyderabad and Kolkata and also organised webinars

[Why do you want to become Chair / Convener of subsection](#):

If I become the Chairman of the subsection, I have plans to make the subsection an active and cohesive one to engage members through various activities throughout the year. The burden of dementia is steadily rising in India due to population growth, coupled with increase in life expectancy. We need to be prepared to provide service to the needy individuals with cognitive impairment. For this we need more trained cognitive neurologists in the country.

There is a need to impart training for students on Cognitive Neurology, which we initiated but was stopped due to pandemic. I shall make sure these courses are conducted in every region at least once a year. I shall also ensure regular lectures, case discussion, and journal clubs through webinars on a monthly basis.

I will increase public awareness and care-givers support as subsection program.