

## **CURRICULUM VITAE**

Name: D. VASUDEVAN

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Chennai -600 083

India

Telephone Number: 23716681 (Resi)

Date of Birth: 23rd August 1964

Current Position: Sr. Consultant Neurologist; Prof. & HOD, Neurology, Saveetha Medical College

Present Professional Practice Address: The Brain, Spine & Nerve Centre,  
#33/15, 3<sup>rd</sup> Street, Postal Colony, West Mambalam, Chennai 33

Qualification: MD (Internal Medicine)

DM (Neurology)

Educational Details: University of Bombay I MBBS -1982 Class I

II MBBS -1984 Class I

III MBBS -1985 Class I

Compulsory Rotating Internship 1 year 1986

MD (Internal Medicine) -1990

DM (Neurology) -1994

Academic Achievements

.Stood first in school at the Maharashtra State Board Secondary School  
Certificate Examination (1979)

.Obtained Certificate of Merit from the Ministry of Education and Culture,  
Government of India (1979)

.Stood sixth at the Maharashtra State Board Higher Secondary Certificate .  
Examination in Junior College (1981)

.Obtained Distinction in the subject of Forensic Medicine and Toxicology at  
the second MBBS examination (1984)

### **Employment History:**

1987 to 1990: Rotating Residency in the departments of Internal Medicine,  
Cardiology (IncludingICCU), Gastroenterology, Haematology, Endocrinology,  
Neurology and Medical Intensive Care. This was part of the training for MD at  
the KEM Hospital.

During residency as a house officer in the department of Medicine, I obtained first  
hand clinical experience in dealing with medical emergencies as well as non-  
emergent patients. The job entailed attending to calls from the medical wards  
on a rota basis. The department of medicine also has an Intensive care  
facility which caters to various conditions including Tetanus, a large number  
of patients with Organophosphate poisoning, envenomation, respiratory  
failure due to various causes, infections, renal and cardiac complications,  
multiple organ system failure and the like. I was fortunate to be able to gather  
valuable experience in invasive procedures, Intensive respiratory I circulatory  
and renal care.

During my residency in the other departments mentioned above, I have had the  
opportunity to closely observe, learn and deal with diseases peculiar to the  
systems and obtain a specialty related over view of clinical approach to  
various systemic disorders.

1991: Having obtained my MD in Internal Medicine, I was appointed as a  
Lecturer in the department of Medicine at the Mahatma Gandhi Medical

College & Hospital, New Bombay, where I worked till 1992. The Mission runs three general hospitals and a College of Medicine in the city of New Bombay. The college had inducted its first batch of undergraduates into clinical medicine. As a Lecturer in the Department of Medicine, my job apart from attending to clinical duties also included teaching the undergraduates as well as counselling and initiating them into the science of clinical medicine, bedside behaviour and manners. I found this experience valuable and enriching. 1992-1994: Enrolled for specialization in Neurology, having cleared the All India Entrance Examination for DM (Doctor of Medicine) conducted by the Superspeciality Examination Board of the Govt of Maharashtra. I joined as a senior resident in the department of Neurology at the KEM Hospital in January 1992, completed the course in April 1994 and got accredited by the University of Bombay.

The department of Neurology at the Seth GS Medical College, to which KEM Hospital is attached is affiliated to and accredited by the University of Bombay for the specialization course (DM) in Neurology. The hospital is a large tertiary referral center with more than 1000 beds, houses all specialties and caters to a major bulk of the population of Bombay as well as referrals from all over the country. It is run by the Municipal Corporation of Greater Bombay. KEM Hospital is one of the largest teaching institutions in India and is recognized by the Medical Council of India.

I trained under Dr PU Shah (Prof & Head), Dr SK Bhabha and Dr NE Barucha, both professors in the Dept. of Neurology. During the course of my residency I had to attend both outdoor as well as indoor services.

Outpatients: The outpatient service of the department runs two Neurology clinics every week with an average annual attendance of about 2000 patients from all over the country. These include referrals from other major hospitals in the city of Bombay.

Since the department has a special interest in Epilepsy, a separate Epilepsy outdoor service also run biweekly caters to about 4000 newly registered as well as old patients annually. This vast clinical exposure has helped me tremendously in gaining a wealth of diverse clinical experience under the guidance of my teachers.

Inpatients: The inpatient service has 32 beds for male, female and pediatric patients. In addition there is a neuro-intensive care facility, which works in conjunction with the medical and neurosurgical intensive team. There are annually about 750 admissions to the neurology services of the hospital.

During my residency apart from attending four outpatient clinics every week, I had to look after the indoor admissions with my fellow residents. Emergency duties had to be attended to by rotation. Calls from other services as well as the neighbouring hospitals (Wadia Hospital for Children, Wadia Maternity Hospital and the Tata Memorial Cancer Hospital) both emergent and non emergent, were attended to by rotation.

Neurophysiology: Ever since I took up Neurology, I have been especially interested in neurophysiology and throughout my course I have taken pains to learn the fundamentals of this aspect of neurology. Fortunately the department had a full-fledged clinical neurophysiology unit which performs EEGs, EMG and NC studies and EP studies on indoor and outdoor patients.

Electroencephalography: On an average every week 40-50 EEGs were performed. As a resident I have spent three months in the EEG laboratory learning the procedures as well as reporting EEGs. At present I routinely report EEGs daily.

Electromyography/Nerve conduction/Evoked Potentials Studies: I was fortunate to have the guidance of a specialized electrophysiologist in learning EMG. As a resident I spent three months in the EMG laboratory where we performed routine as well as special studies. This is done four times every week at an average of twenty five patients per week. I have continued to work in the EMG laboratory regularly and am at present performing and reporting such studies daily.

**Neuropathology:** The department of Neurology was backed by an experienced Neuropathology unit. Apart from performing the investigations that we asked for, the neuropathology department took keen interest in matters clinical. Regular meeting attended by the Neurologists, neurosurgeons, neuroradiologists and the neuropathologists are conducted every week where detailed post-mortem analyses were done in which the clinical as well as the pathological aspects were discussed thread bare. The brains of such patients were examined macroscopically and cut for microscopic studies. An attempt was made to understand better and correlate the clinical and pathological features. Brain cutting is indeed a way of life at the KEM Hospital.

**Neuroradiology:** The department of Radiology takes special interest in Neuroradiology. Since the past twelve years weekly neuroradiology meeting are held at the KEM Hospital which is widely attended by neurologists and radiologists from various hospitals in Bombay. Clinical and radiological aspects of cases of interest are discussed and debated upon.

**Neurosurgery:** During the course of my residency I have spent one month in the department of Neurosurgery. I had the opportunity to observe various neurosurgical procedures, vascular surgery and interventional endovascular procedures which is a specialty of the Neurosurgery department at the KEM Hospital.

**Neuro Intensive Care:** The neurological intensive care functions as a member of a composite medical- neurological -neurosurgical intensive care unit. As a resident thereafter as well, I have worked three months every year in the ICU. The neurology unit caters to acute neuromuscular paralysis due to various causes, the majority of which are due to AIDP and Myasthenia Gravis. As part of care and treatment given to patients, I have acquainted myself with mechanical ventilators and principles of ventilatory support. ICU duties included assessment and selection of patients for ICU care and taking decisions regarding management strategies. I have also performed therapeutic procedures like plasmapheresis on patients requiring it. The other conditions, which were encountered in our ICU, were acute intracranial infections, acute parainfectious demyelination, acute inflammatory muscle diseases, Intracranial haemorrhages, Ischaemic strokes, status epilepticus and parasitic infestations (Cerebral Malaria)

I have also been fortunate, as a resident, to be able to come in contact with a wide spectrum of Paediatric Neurology in diagnosing and treating which the Paediatric Research Laboratory and Genetic Centre at the hospital has been

very active and enthusiastic.

Bombay Neurology Meeting: I have attended, participated and presented cases during the monthly neurology meetings which are attended by all the Neurologists, Neurosurgeons, Neuroradiologists and Neuropathologists in the city of Bombay

Bombay Electrophysiology Meetings: Once in three months, electrophysiology meetings are held in which interesting and unusual cases and the electrophysiological features are discussed.

### **Papers and Publications :**

1@ A Hospital Based Study Of Dementia : **Vasudevan D\***, Bhabha SK, Shah PU. Presented at the free paper session of the Geriatric Society Meeting, held at the KEM Hospital, Bombay, June 1996

2@ Clinical and Electrophysiological Features of Polymyoclonus **D. Vasudevan\***, J.Mani, KA Manuskhani, Ravan SH, Chaudhuri A, Shah PU: Presented at the 3rd Annual Conference of IAN September 1995, Chandigarh. Published in Supplement to Neurology India, September 1995

3@ Spectrum of Neurological Manifestations in Hematological Malignancies Ravat SH, **Vasudevan D\***, Chaudhary N, J Mani, Shah PU, Chaudhuri A: Presented at the 3rd Annual Conference of IAN September 1995, Chandigarh. Published in the supplement to Neurology India, September 1995.

4@ Analysis of 57 cases of Carpal tunnel syndrome. Suresh Kumar, Ramesh M, **Vasudevan D**, Vasanthi D, Ayyar SSK: Published in Supplement to Neurology India, Oct 1997

5@ Acute cerebrospinal demyelination -atypical presentation: **Vasudevan D**, Ramesh M, Suresh kumar, Ayyar SSK : Published in Supplement to Neurology India, Oct 1997

6@ Acute intracranial venous thrombosis in young adult males. Ramesh M, **Vasudevan.D**, Suresh kumar, Ayyar SSK: Published in Supplement to Neurology India, Oct 1997

7@ Sacral Evoked Potentials- Technique, normative data and usefulness in disorders of bladder bowel & sexual dysfunction. Ayyar SSK, **Vasudevan.D**, Ramesh M, Suresh Kumar: Published in Supplement to Neurology India, Oct 1997

8@ Brainstem Auditory Evoked Potentials in Infants and Children: Ayyar SSK, **Vasudevan D**, Ramesh M and Suresh Kumar, Published in Supplement to Neurology India, Oct 1997

9@ Effect of long term antiepileptic drug treatment on bone density : **Vasudevan D**, Velmurugendran CU et al, Supplement to Neurology India, 2005

10@ Diagnostic Markers to evaluate Alzheimer's Disease (AD) and Vascular Dementia (VaD) - a preliminary report in the Indian perspective, **Devanathan V**, Baben BJo, Ashok B. Sri Ramachandra Medical College & Research Institute (Deemed University), India In *JOURNAL OF THE NEUROLOGICAL SCIENCES* (Vol. 238, pp. S283-S283)

11@ DIAGNOSTIC UTILITY OF PLATELET AMYLOID PRECURSOR PROTEIN RATIO, RED BLOOD CELLS AND PLASMA BETA AMYLOID (Ab 1-42) LEVELS IN LATE-ONSET ALZHEIMER'S DISEASE Ben Ashok1 , B'joe Baben1 , **Vasudevan Devanathan**2 , Senthil Kumar3 , Jeyakumar Rajadhas4 , 1 Sri Ramachandra Medical College, Chennai, India; 2 Kamakshi Memorial Hospital, Chennai, India; 3 Central Leather Research Institute, Chennai, India; 4 Stanford University, Stanford, CA, USA, Alzheimer's & Dementia, July 2009, Vol 5, Issue 4, Supplement, pp 9-10

12@ Efficacy and safety of methylcobalamin, alpha lipoic acid and pregabalin combination versus pregabalin monotherapy in improving pain and nerve conduction velocity in type 2 diabetes associated impaired peripheral neuropathic condition. [MAINTAIN]: Results of a pilot study **D. Vasudevan**, Manoj M. Naik1 , Qayum I. Mukaddam1, Annals of IAN, Jan-Mar 2014, Vol 17, pp 19-24

13@ Traumatic Optic Neuropathy –A Conundrum

Vinoth Kanna Selvaraj,<sup>1</sup> Ramachandran Viswanathan,<sup>2</sup> and **Vasudevan Devanathan**

J Clin Diagn Res Mar 2016 Vol 10 (3) OD01-OD02

14@ Vestibular evoked myogenic potentials: A retrospective analysis **V Devanathan; L Vasudevan**

Clinical neurophysiology, 127, no. 9, (2016): e300-e301

15@ Efficacy and Safety of Safinamide (50 and 100mg/Day) Versus Placebo, in Patients With Mid-late Stage Parkinson's Disease, Principal Investigator **Vasudevan Devanathan**, Clinicaltrials.gov, Aug 23 2010

16@ Adjunctive brivaracetam for refractory partial-onset seizures: A randomized, controlled trial

J.A. French, C. Costanini, A. Brodsky, P. von Resentiel on behalf of the N01193 Study Group  
Articles | Neurology August 10, 2010, 75:6 519-525; published ahead of print June 30, 2010, **doi:10.1212/WNL.0b013e3181ec7f7f:1526-632X**; **Devanathan Vasudevan**, MD (Dr Kamakshi Memorial Hospital, Chennai, PI). Mexico –Leopoldo Rivera Castan˜o, MD (CIMA Chihuahua, Chihuahua, PI); Manuel Ojeda Chavarría, MD (Hospital Clinica del Parque, Chihuahua, PI); José Luis Oropeza de Alba, MD (Hospital Civil de Guadalajara, Guadalajara, PI); Lourdes Leo.

17@ Randomized, phase III study results of clobazam in Lennox-Gastaut syndrome

Y.T. Ng, JA Conry, R Drummond, J Stolle, MA Weinberg et al

Neurology October 11, 2011, 77:15 1473-1481; published ahead of print September 28, 2011, **doi:10.1212/WNL.0b013e318232de76: 1526-632X**

...(Mallikatta Neuro Center, Mangalore, Karnataka, Site Investigator), Maneesh Kumar Singh, MD (Chhatrapati Shahuji Maharaj Medical University, Uttar Pradesh, Site Investigator), Vrajesh Udani, MD (P.D. Hinduja Hospital and Medical Research Center, Mumbai, Maharashtra, Site Investigator), **Devanathan Vasudevan** (Dr. Kamakshi memorial Hospital, Chennai, Site Investigator).

18. Revisiting the Piriformis Syndrome : High Frequency Ultrasonography in Management – A Pilot Series

**D. Vasudevan**, P. M. Venkatasai; Br J Med Health Research, 2017,4(4) Research Article.

19. The impact of education ( or lack of it ) on awareness of thyroid and its disorders in the community.

**Vasudevan Devanathan**, Deepika Vasudevan; Br J Med Health Research, 2017,4(12) Research Article.

#### **CONFERENCES AND WORKSHOPS:**

\* Participated in the International Update on Neurosciences at the PD Hinduja National Hospital, Bombay, November 1993.

\* Participated in the International Congress on Stroke held in Bombay, December 1993.

\* Member, Organising Committee of the First National EEG Workshop, organised by Prof.PU Shah and conducted by Dr.Colin D Binnie from Maudsley Hospital, London. This was held at the KEM 'Hospital in February 1994.

\* Participated and presented paper on cognitive screening tests in the First International Conference on Organisation and Delivery of Neurological Services, New Delhi, November 1994

\* Participated and presented paper on usefulness of TDM in treatment strategies development in epilepsy in the XXVII Annual Conference of the Indian Pharmacological Society, KEM Hospital, Bombay December 1994.

\* Participated in the 3rd National Workshop on Movement Disorders organised by Prof. NH Wadia and conducted by Prof CD Marsden, Jaslok Hospital, Bombay January 1995.

\* Member of organising committee for a Seminar on Cognition and Epilepsy, KEM Hospital, Bombay February 1995.

\* Participated in the Third Annual Conference of the Indian Academy of

Neurology Chandigarh, September 1995, where two papers were presented

Participated in the the International Workshop on Electrophysiology, Institute of Neurology, Madras, September 29, 30 & Oct 1

Organised & conducted an international electrophysiology workshop in Jan 2005 at the SRMC & RI, Chennai along with Prof David Cornblath, USA

Participated as faculty in the Neurology update, Chennai, 2009 with live demonstration and hands on workshop on VEMP

Attended the WCN 2005, Sydney, Australia and presented paper on Biomarkers in Alzheimer's Disease and Ischemic Vascular dementia.

Attended the WCN 2013, Vienna, Austria

Panelist in the Neurologica 2012 and 2013 on treatment of refractory epilepsy.

Chaired numerous sessions in Neurology update, Chennai, and ECon 2007, 2008, 2009, 2010

Chaired Sessions in SHINE 2013, 2014 a program on clinical neurology.

Conducted the one day hands on workshop on EMG and NC at MYOCON 2014, Chennai

Lecture on EEG and Clinical Electrophysiology for postgraduates and consultant neurologists at the 1st International Conference of Clinical Neurology ( ICCN ) at Chennai in April 2015

Conducted a workshop on EMG at Thanjavur Medical College, March 2015.

Organised and conducted the SWEEP workshop in Saveetha Medical College, June 2016 for junior consultant neurologists and postgraduates (Clinical Electrophysiology).

Faculty in Preconference Electrophysiology workshop for NSI annual conference in December 2016, Chennai

Organised and conducted two colloquia "Beyond Brain" on matters related to Neuroscience and Consciousness from Feb 2015.

Numerous faculty lectures and presentations at teaching symposia SHINE and Back to Basics for postgraduate neurology students.

Part of organising committee of "Practice Pearls in Neurology" an annual refresher course for consultants and postgraduates in Clinical Neurology as applied to office practice.

### **Examinerships :**

- \* Examiner for MD and Diploma in Psychological Medicine ( April 1998 ) at the Tamil Nadu Dr MGR Medical University
- \* Examiner for MCH (Neurosurgery) with Tamil Nadu MGR Medical University
- \* Examiner for DM (Neurology) -Mumbai University
- \* Formerly Examiner for DM (Neurology) SRDU
- \* **PhD guide at Sri Ramachandra University 2002- 2006**
- \* **PhD guide at Saveetha University, 2017**

### **AREAS OF SPECIAL INTEREST:**

I am especially interested in the field of clinical neurophysiology, both conventional as well as specialised studies. The study of even related potentials in neuro degenerative disorders, evoked potentials and long latency reflexes in myoclonic disorders and the study of reaction times in patients with various types of dementia have been of interest to me. I have also been exploring the possibility of quantitative electrophysiologic investigations in qualitatively differentiating various types of dementias.

I am also interested in central electrophysiological studies (especially the study of reciprocal and recurrent inhibition at the spinal level) in spasticity and diseases which produce similar effects (Tetanus ).

My other area of special interest is neuropsychology. The study of the effect of education (or lack of it) on various extant screening devices for cognitive functions has been part of my research.

H Reflex & LLR in patients with spasticity -pre and post BTX in Stroke.

Putative markers in Alzheimer disease and Vascular Dementia.

Electrophysiological and Radiological Correlation in Carpal Tunnel Syndrome.

CURRENTLY WORKING ON:

1. Phrenic nerve conduction in neuromuscular respiratory paralysis.
2. Bone densitometry in patients on long term antiepileptic drugs and Vit. D deficiency.
3. Long latency reflexes in central motor disorders.
4. Short latency spinal responses in lumbosacral radiculopathies
5. Vestibular Evoked Myogenic Potentials
6. Electrophysiologic evaluation of Median entrapment neuropathies.
7. Electrophysiologic applications in Consciousness studies.

### **INVITED GUEST LECTURES:**

.IMA -Mayiladuthurai -1996 -Epilepsy

.IMA -Kumbakonam -1997 -Headache

.IMA -Chennai Chapter -1999 -Stroke

.API -Chennai Chapter -2001 -Stroke

.Railway Hospital (Perambur) -2004 -Botox

Lecture and Hands on Workshop on Botox for Neurologists at KGMC, Vizag, 2005  
.IMA -Vellore -2005 -Epilepsy  
.Reserve Bank Staff College -2005 -Neurological dtseases  
.CGHS -2005 -Botulinum  
.Saveetha College of Physiotherapy : Botulinum in spasticity 2006  
Lecture on Usefulness of Botox in Neurological disorders for medical staff of NLC GH, Neyveli, 2006  
.IMA Ambattur-Avadi 2007 : Vertigo and Headache  
.Neurology PG training seminars, Chennai 2008, 2009 : Electrodiagnosis of Brachial Plexus disorders, EEG reading and reporting  
VEMP : Overview and methodology.  
.IMA Adyar 2009 : Thrombolysis in acute ischemic stroke  
.IMA NAM 2009 : Vertigo  
.IMA Ambattur-Avadi 2011 : Treatment of acute stroke in the first 24 hrs.  
IMA Kodambakkam 2012 : Headache and treatment.  
Lions Club : Invited guest talk on " Neurology Demystified " 2013  
Sensitisation to Neurology- for staff of Tata –BlueScope Steel, Chennai, 2012

#### MEMBERSHIPS:

1. Life Member -Indian Academy of Neurology.
2. Life Member -Indian Epilepsy Association.
3. Life Member -Indian Medical Association.
4. Member - Association of Physicians of India.
5. Life Member - Indian Stroke Association
6. Life Member –Clinical Neurophysiology Subsection, IAN
7. Life Member –Movement Disorders Society of India
8. Overseas Corresponding Member : American Academy of Neurology.
9. Member : Movement Disorders Society (International).