



## Dr Arvind Sukumaran

MBBS, MCh Neurosurgery(NIMHANS), FPNS, FFENS (Calgary, Canada) 12+ Years Experience

Dr Arvind Sukumaran is a top Neurosurgeon in Chennai at Apollo Children Hospital Chennai, Apollo Proton Cancer Centre . Book appointment online with Dr Arvind Sukumaran at Ask Apollo.

### Hospitals

Apollo Children's Hospital, Chennai ,

Doctor's Working  
Weekdays  
Mon - Fri

Doctor's Working  
Hours  
09:00 -11:00

Phone Icon  
Call Now

Calendar Icon  
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## Overview

Dr. Arvind Sukumaran is a highly qualified neurosurgeon based in Chennai, Tamil Nadu, with over 12 years of extensive experience in the field of neurosurgery. He holds an MBBS degree and has completed his MCh Neurosurgery from the prestigious National Institute of Mental Health and Neurosciences (NIMHANS). Further enhancing his credentials, Dr. Sukumaran pursued a post-doctoral fellowship in Paediatric Neurosurgery and Epilepsy/Functional Neurosurgery at the University of Calgary, Canada. This advanced training equips him with specialized skills to handle complex cases involving both children and adults.

Fluent in Tamil, English, Hindi, and Kannada, Dr. Sukumaran is committed to providing comprehensive care to his diverse patient base. His approach integrates advanced surgical techniques with a compassionate understanding of his patients' needs. Utilizing the latest medical technologies and evidence-based practices, he addresses a variety of neurological conditions, ensuring optimal outcomes for those under his care.

As part of the Apollo Hospitals group, Dr. Sukumaran benefits from a collaborative environment with access to leading-edge resources, which enhances patient care and safety. He is a true advocate for patient education, believing that informed patients contribute positively to their recovery process. Whether

managing epilepsy, conducting complex surgeries for brain tumors, or focusing on functional neurological disorders, Dr. Arvind Sukumaran exemplifies dedication, expertise, and compassion in neurosurgery.

## Experience

### Experience and Interests

- 14+ years of neurosurgical work experience
- **Areas of Interest:**
  - Epilepsy/Functional Surgery
  - Pediatric Neurosurgery
  - Neuro-oncology
- Performed 4000+ neurological surgeries with a 50/50 split between spine and cranial procedures
- Trained and worked at top institutes globally

### Expertise Areas

#### 1. Pediatric Neurosurgical Issues:

- Pediatric brain tumours
- Pediatric movement disorders (e.g., Tourette's syndrome)
- Abnormal head shape and craniosynostosis
- Complex hydrocephalus
- Spinal dysraphisms/spina bifida with complex malformations
- Chiari malformation
- Craniovertebral anomalies
- Selective dorsal rhizotomy/intrathecal baclofen for spasticity (adults and children)
- MoyaMoya disease
- Vascular anomalies (AVF, AVM, aneurysm)

#### 2. Medically Refractory Epilepsy in Adults and Children:

- Temporal lobe epilepsy
- Focal cortical dysplasia
- Hemispheric syndromes (e.g., Rasmussen's encephalitis)
- Post-stroke seizures
- Stereotactic EEG for localization
- Vagal nerve stimulation

#### 3. Post-Stroke or Head Injury Spasticity (Adults and Children):

- Baclofen pumps

- Rhizotomy

#### 4. **Movement and Psychiatric Disorders:**

- Parkinson's disease
- Dystonia
- Obsessive-compulsive disorder
- Severe tremors
- Candidate evaluation for Deep Brain Stimulation (DBS)

#### 5. **Refractory Bladder Dysfunction:**

- Neurogenic bladder or overactive bladder due to age, spinal cord or brain injury
- Symptoms: urgency, incontinence, frequency
- Spina bifida and non-obstructive urinary retention from cauda equina syndrome

#### 6. **Spinal Cord Stimulation:**

- For refractory pain (ischemic, peripheral, phantom limb, post-spinal surgery, etc.)
- Functional restoration of the spinal cord (post-traumatic para-/quadriplegia)

#### 7. **Neuro-oncology:**

- Awake craniotomy
- Fiber tracking (tractography)-based surgeries
- Fluorescence navigation-guided surgeries
- Endoscopic endonasal skull base surgeries

#### 8. **Spine Surgery:**

- Craniovertebral junction anomalies
- Spinal instrumentation

## Membership

### Licenses

- **MBBS, MCh (Neurosurgery)** – TNMC 69387: Tamil Nadu Medical Council, under Medical Council of India
- **CPSA** – Council of Physicians and Surgeons of Alberta: 030479

### Certificates

- 08/2004 – Course on Care, Breeding & Management of Laboratory Animals, Central Animal Research Facility (CARF), NIMHANS, Bengaluru
- 10/2018 – Cleared Part 1 of EANS (European Association of Neurosurgical Societies) Examination

### **Memberships in Honorary and Professional Societies**

- 04/2010 to Present – Life Member, Neurological Society of India
- 06/2012 to Present – Life Member, Indian Medical Association, Trichy Chapter
- 06/2018 to Present – International Member, European Association of Neurosurgical Societies (EANS)
- 09/2018 to Present – Life Member, Tamil Nadu Association of Neurosurgeons (TANS)
- 07/2020 to Present – Fellow Member, American Association of Neurological Surgeons (AANS)
- 10/2021 to Present – Life Member, Indian Society for Paediatric Neurosurgery (INDSPN)
- 10/2021 to Present – Life Member, Indian Society for Stereotactic and Functional Neurosurgery (ISSFN)
- 12/2021 to Present – Member, Spina Bifida Foundation of India
- 08/2022 to Present – Life Member, Indian Epilepsy Society (IES)
- 09/2022 to Present – Life Member, International League Against Epilepsy (ILAE)
- 11/2022 to Present – Life Member, Society for Neurocritical Care (SNCC)
- 01/2023 to Present – Life Member, International Society of Pediatric Neurosurgery (ISPN)
- 02/2023 to Present – Life Member, Indian Society of Neuro Oncology (ISNO)
- 06/2023 to Present – Life Member, Society for Intraoperative Neurophysiology (SION)

## **Awards**

- All India Topper in NIMHANS Entrance Examination
- Fellowship in Paediatric Neurosurgery, University of Calgary, Canada
- Fellowship in Epilepsy/Functional Neurosurgery, University of Calgary, Canada
- Fellowship in Epilepsy/Functional Neurosurgery, Ghent University, Belgium
- Awarded EANS 2018 (European Association of Neurological Surgeons) Travel Grant for Top 10 Abstracts
- First in Tamil Nadu to perform:
  - Endoscopic craniostomostomy surgery
  - Selective dorsal rhizotomy for spasticity
  - Directional and brain-sensing DBS (Deep Brain Stimulation) for Parkinson's disease

- Alpha-omega MER system for heatmap-based DBS
- Performed the highest number of DBS procedures in Tamil Nadu in the last 1 year
- Surgical Lead, Apollo Advanced DBS Center
- Holds a patent for an external fluorescence module for intraoperative microscop

## Research and Publication

- **Myelopathy in a dwarf: a case of Morquio's syndrome without odontoid hypoplasia**
  - Authors: Shukla D, Arvind S, Devi BI
  - *Neurol India*. 2011 Jan-Feb; 59(1):126-7
- **Differential expression of a novel voltage-gated potassium channel – Kv1.5 in astrocytomas and its impact on prognosis in glioblastoma**
  - Authors: Arvind S, Arivazhagan A, Santosh V, Chandramouli BA
  - *Br J Neurosurg*. 2012; 26:16-20
- **Results of invasive EEG from a large epilepsy centre**
  - Authors: Amber Perez Fernandez, Arvind Sukumaran, Dirk Van Roost
  - Presented at the Congress of Neurological Surgeons, Dominican Republic (June 2018)
- **Fluorescence guided glioma excision using a novel & cost-effective solution: Experience with 25 cases**
  - Authors: A. Sukumaran, R. Easwaran
  - E-poster presented at EANS 2018, Brussels (October 2018)
- **Pediatric to adult Hydrocephalus: A smooth transition**
  - Authors: Hong MA, Sukumaran A, Riva-Cambrin J
  - *Neurol India* 2021; 69:S376–80
- **Amygdalar cavernoma trans MTG resection: Educational video**
  - Author: Arvind Sukumaran
  - Published in ILAE Neurosurgical Educational Video Section
  - Link: <https://www.ilae.org/education/neurosurgical-education>
  - March 2023

## Frequently Asked Questions

1. Where does Dr. Arvind Sukumaran practice?

Dr. Arvind Sukumaran currently practices at Apollo Children Hospital, located in Chennai.

## **2. Who is Dr. Arvind Sukumaran?**

Dr. Arvind Sukumaran is a highly experienced Neurosurgeon with 12 years of expertise in the field. He is known for providing exceptional patient care and advanced medical treatments.

## **3. Why do patients choose Dr. Arvind Sukumaran?**

Patients trust Dr. Arvind Sukumaran for his expertise, patient-centric approach, and commitment to providing the highest standard of care. He is well-versed in the latest medical advancements and ensures personalized treatment for every patient.

## **4. What is Dr. Arvind Sukumaran's specialization?**

Dr. Arvind Sukumaran specializes in Neurosurgery, with expertise in Skull Treatment, Trigeminal Neuralgia Treatment.

## **5. What are Dr. Arvind Sukumaran's medical qualifications?**

Dr. Arvind Sukumaran holds prestigious qualifications, including MBBS, MCh Neurosurgery(NIMHANS), FPNS, FFENS (Calgary, Canada).

## **6. How many years of experience does Dr. Arvind Sukumaran have?**

Dr. Arvind Sukumaran has 12 years of experience in the medical field, treating various conditions related to Neurosurgery.

## **7. How can I book an appointment with Dr. Arvind Sukumaran?**

You can book an appointment with Dr. Arvind Sukumaran through: Online: Visit

[<https://www.apollohospitals.com/book-doctor-appointment/>](<https://www.apollohospitals.com/book-doctor-appointment/>) to schedule an appointment.