

CURRICULUM VITAE

PERSONAL PARTICULARS

Name : **REGUNATH KANDASAMY**
Date of Birth : 18th of November 1979
Sex : Male
Nationality : Malaysian
Current Position : Consultant Neurosurgeon & Senior Lecturer
Field of Specialization : Neurosurgery
Tel. : 006097676321
Fax. : 006097673833



PROFESSIONAL QUALIFICATIONS

Bachelor of Medicine & Bachelor of Surgery (MBBS): 1999 - 2004, University Malaya

Membership of Royal College of Surgeons in Ireland: 22nd August, 2008, Royal College of Surgeons in Ireland

Master of Surgery (Neurosurgery): June 2008 - May 2012, Universiti Sains Malaysia

JCMT Fellowship in Pituitary & Hypothalamic Surgery: September – November 2014
(Toranomom Hospital, JAPAN)

Spine Fellowship AO – September - November 2016 (Royal Adelaide Hospital, Adelaide)

CURRENT POSITION

Consultant Neurosurgeon and Senior Lecturer (DU 54), Department of Neurosciences, Hospital Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia

Coordinator for Postgraduate Training & Examinations (Malaysian Neurosurgery Training Programme , USM)

MEMBERSHIP OF PROFESSIONAL BODIES

1. **Malaysian Medical Council** - Registration number: 41625
2. Member of **Neurosurgical Association of Malaysia** since 2011
3. Member of the **Academy of Medicine Malaysia**
4. Member of **Society for Neurosciences (SFN)**, Kelantan Chapter
5. Member of **AO Spine**
6. Member of **Asian Congress of Neurological Surgeons**
7. National Secretary of Malaysian Chapter 2016- **Walter E Dandy , Neurosurgical Society Malaysia**
8. Walter E Dandy Neurosurgical Global Society , Saint Loius

POSITIONS HELD

- **Founding Chairman** - Neurosurgical Trainees Academic Committee, Malaysia 2011-2012
- **Chief Resident for Residents in the Master of Neurosurgery Program** - USM Department of Neurosciences
- **Member of Organizing Committee** - 8th Asian Congress of Neurosurgery
- **Treasurer** – 14th Annual Scientific & General Meeting of the Neurosurgical Association of Malaysia, 16-17th August 2014
- **Coordinator, Department of Neurosciences, USM – ISO 9001:2008**
- **Coordinator, Department of Neurosciences, USM – Staff Education & Training**

- **Coordinator** – Masters of Neurosurgery Phase I, USM since 2014
- **Coordinator for Neuroscience Posting**-Undergraduate MD Programme Year 4, Phase III since 2012
- **Coordinator for Nervous System Block**-Undergraduate MD Programme Year 3, Phase II since 2012
- **Coordinator for Nervous System & Psychology Block** – Undergraduate MD Programme Phase I Year 2 – 2015 until 2017
- **Coordinator of Neuroanatomy** -Course GIN 603, Intergrated Neurosciences Programme (INP) USM since 2013
- **Organizing Chairman** – MS Neurosurgery Microvascular Anastomosis Course 2015
- **Organizing Chairman** – MS Neurosurgery Stereotaxy Training Course 2015
- **Member of Editorial Board for The Surgery Journal, Theime International**
- **Reviewer for** Malaysian Journal of Medical Sciences, Malaysian Journal of Medicine & Surgery International, Asian Journal of Neurosurgery, Alexandria Journal of Surgery.
- **Organizing Co- chairman & Course Director**- Society of Neurooncology International Symposium & Educational Course , KL 2016
- **Committee Member** – National Neurosurgery Collaborative Research Committee
- **Committee Member** – Microvascular & Cerebral Revascularization Course
- **Committee Member** – Stereotaxy & Image Guidance Course
- **Committee Member** – High Speed Drill Course
- **Committee Member** – Brain Awareness Week 2014
- **Coordinator for Pituitary Combined Services Clinic, USM**
- **Coordinator for NeuroOncology & SRS Clinic , USM**

PUBLICATIONS

1. **Kandasamy R.**, Abdullah J.M. Commentary Article: Microsurgical excisions of vestibular schwannomas: A tumor size–based analysis of neurologic outcomes and surgical complications. *Surg Neurol Int* 2011, 2:41.
2. **Regunath Kandasamy**, Hillol Kanti Pal, Mummedy Swamy, and Jafri Abdullah. Cerebrospinal fluid nitric oxide metabolite levels as a biomarker in severe traumatic brain injury. *International Journal of Neurosciences*. 2012. DOI: 10.3109/00207454.2012.761983. **ISI Impact Factor: 0.967.**
3. **Regunath, K**, Awang, S, Siti, S.B, Premananda, M.R, Tan, W.M, Haron, R.H. Penetrating injury to the head: case review. *Medical Journal of Malaysia* 2012; 67 (6): 622-624.
4. **Regunath Kandasamy***, John Tharakan, Zamzuri Idris, and Jafri M.Abdullah. Intracranial bleeding after induction of anaesthesia in a patient undergoing elective surgery for refractory epilepsy. *Surg Neurol Int*. 2013; 4: 124. DOI: 10.4103/2152-7806.119006.
5. **Regunath Kandasamy**, Jason Raj Johnson, Wan Nazaruddin, Abdul Rahman Izaini Ghani, Zamzuri Idris, Jafri Malin Abdullah. The Role of Stereotactic Aspiration, Multimodality Monitoring and Endoscopy in the Management of Intracranial Haemorrhage: The USM Perspective. Oral Presentation in the 5th World Congress of Intracerebral Haemorrhage 2-4th November 2013, Hong Kong.
6. Raffiq, M., Haspani, M., **Kandasamy, R.** & Abdullah, J. Decompressive craniectomy for malignant middle cerebral artery infarction: Impact on mortality and functional outcome. *Surgical Neurology International* 5, 102 (2014).

7. Idris, Zamzuri, Mustapha Muzaimi, Rahman Izaini Ghani, Badrisyah Idris, **Regunath Kandasamy**, and Jafri M Abdullah. "Principles, Anatomical Origin and Applications of Brainwaves: A Review, Our Experience and Hypothesis Related to Microgravity and the Question on Soul." *Journal of Biomedical Science and Engineering* 2014 (2014).
8. Z Idris, YC Tan, **R Kandasamy**, RI Ghani, JM Abdullah. Transfrontal Transaqueductal, Transtrigonal, and Suboccipital Infratentorial Supracerebellar Endoscopic Fenestration of Posterior Fossa Arachnoid Cysts: Three Surgical Cases .*Journal of Neurological Surgery Part A: Central European Neurosurgery* March 2016.
9. **Regunath Kandasamy**, Jafri Malin Abdullah. Cervical Spine Deformity Correction: An Overview. *World Neurosurgery*.
10. Ailani Ab. Ghani, Saiful Azli Mat Nayan, **Regunath Kandasamy**, Azmin Kass Rosman, Abdul Rahman Izani Ghani. Characteristics and Outcomes of Patients with Anterior Circulation Intracranial Aneurysm Managed with Clipping in Hospital Sungai Buloh. *Malaysian Journal of Medical Sciences*. Nov–Dec 2016; 23(6): 113-117.
11. Davendran Kanesen, **Regunath Kandasamy**, Zamzuri Idris. Occipital Falcine Anaplastic Hemangiopericytoma Mimicking Meningioma. *Journal of Neurosciences in Rural Practice*. Vol 8: Issue2, Apr – Jun 2017.
12. **Regunath Kandasamy**, Sim Sze Kiat, Nik Ruzman. An Innovative Modification of an Old Radiosurgery System. *Malaysian Journal of Medical Sciences*. Oct-Dec 2013; 20(5): 90-91.
13. Ee-Ling Tan, **Regunath Kandasamy**, Wan-Hitam Wan-Hazabbah, Thavaratnam Lakana-Kumar, Liza-Sharmini Ahmad Tajudin. Third Ventricular Ependymoma Mimicking Foster Kennedy Syndrome- A Case Report. *Ophthalmology Research: An*

International Journal. 3(2): 43-48, 2015, Article no.OR.2015.008. **ISSN: 2321-7227**.
DOI: 10.9734/OR/2015/13780.

14. **Regunath Kandasamy**, Zamzuri Idris, Badrisyah Idris, Tan Yew Chin, Abdul Rahman Izaini Ghani. Intraoperative Fluorescence Angiography for Cerebrovascular Neurosurgery in Universiti Sains Malaysia. Malaysian Journal of Medical Sciences. Jul-Aug 2014; 21(4): 69-7.
15. Zamzuri Idris, **Regunath Kandasamy**, Faruque Reza, Jafri M. Abdullah. Neural oscillation, network, eloquent cortex and epileptogenic zone revealed by magnetoencephalography and awake craniotomy. Asian Journal of Neurosurgery. Vol. 9, Issue 3, July-September 2014.
16. Jayaraman Kogilavaani, Ismail Shatria, **Kandasamy Regunath**, Abd Karim Ahmad Helmy. Bilateral orbital abscesses with subdural empyema and cavernous sinus thrombosis due to melioidosis in a child. Asian Pacific Journal of Tropical Disease. Dis 2014; 4(Suppl 2): S851-S853. DOI: 10.1016/S2222-1808(14)60744-1.
17. S K Sim, C H Chng, Y C Tan, **R Kandasamy**, J M Abdullah. Bilateral Subtentorial Empyema Complicated With Nosocomial Acinetobacter Ventriculitis: A Case Report. Medical Journal of Malaysia. Vol. 69, No. 2, April 2014.
18. Ahmad Ameilia, Thavaratnam Lakanakumar, Ismail Shatria, Wan Hazabbah Wan Hitam, **Kandasamy Regunath**. Cat Scratch Disease presenting as increased intracranial pressure and aseptic meningitis. Asian Pacific Journal of Tropical Disease. Dis 2015; 5(6): 500-501. DOI:10.1016/S2222-1808(15)60823-4.
19. Peter J. Hutchinson et. al, Malaysian Collaborators JM Abdullah, B.Idris, **R. Kandasamy**, N. Udin, Z. Idris. Trial of Decompressive Craniectomy for Traumatic

Intracranial Hypertension. *New England Journal of Medicine*. Vol. 375, No. 12, September 22, 2016.

20. Davendran Kanesan, Zaitun Zakaria, Chng Ewe Seng, Puneet Nandrajog, **Regunath Kandasamy**. Dermatofibrosarcoma protuberance of the scalp: Therapeutic challenges. *Australian New Zealand Journal of Surgery*, May 2017– In Press Impact Factor: 1.158. DOI: 10.1111/ans.14040.
21. Ailani Ab Ghani, Saiful Azli Mat Nayan, **Regunath Kandasamy**, Abdul Rahman Izani Ghani, Azmin Kass Rosman. Assessment of Pre- and Post-Operative Cerebral Perfusion in Anterior Circulation Intracranial Aneurysm Clipping Patients at Hospital Sungai Buloh Using CT Perfusion Scan and Correlations to Fisher, Navarro and WFNS Scores. *Malaysian Journal Medical Sciences*. Jan–Feb 2017; 24(1): 47–58. DOI: 10.21315/mjms2017.24.1.6.
22. Lim Liang Hooi, Diana Noma Fitzrol, Senthil Kumar Rajapathy, Tan Yew Chin, Sanihah Abdul Salim, **Regunath Kandasamy**, Badrisyah Idris, Abdul Rahman Izaini Ghani, Zamzuri Idris, John Tharakan, Sarun Nunta-Aree, Jafri Malin Abdullah. Deep Brain Stimulation (DBS) for Movement Disorders: An Experience in Hospital Universiti Sains Malaysia (HUSM) involving 12 Patients. *Malaysian Journal of Medical Sciences*. Mar–Apr 2017; 24(2): 87–93. DOI: 10.21315/mjms2017.24.2.11.
23. Wan Mohd Nazaruddin Wan Hassan, R. Paramasivam, **Regunath Kandasamy**, Mohamad Hasyizan Hassan, Rhendra Hardy Mohammad Zaini. An uncommon *Elizabethkingia meningoseptica* septicemia in hemorrhagic stroke with septic shock patient during prolonged neuro-intensive care management. Article in *Anaesthesia, Pain and Intensive Care* 21(2):268-271, April 2017.

24. Senthil Kumar Rajapathy, Zamzuri Idris, **Regunath Kandasamy**, Albert Wong Sii Hieng, Jafri Malin Abdullah. Inflammatory Biomarkers and Their Value in Predicting Survival and Outcome among Patients with Spontaneous Intracerebral Haemorrhage. *Malaysian Journal of Medical Sciences*. May–Jun 2017; 24(3): 51–65. DOI: 10.21315/mjms2017.24.3.7.
25. Norihan Ibrahim, Baharuddin Abdullah, **Regunath Kandasamy**, Nor Hayati Othman, Mohtar Ibrahim, Adil Hussein. Acute proptosis: Unusual initial presentation of sinonasal inverted papilloma. *Journal of Acute Disease*. Dis 2017; 6(3): 131-133. DOI: 10.12980/jad.6.2017JOAD_2016_72.
26. Vinodh VP, Rahmat Harun, Pulivendhan Sellamuthu, **Regunath Kandasamy**. A Case Report: Primary Central Nervous System Fibrosarcoma. *Journal of Neurosciences in Rural Practice*. August 2017. DOI: 10.4103/jnrp.jnrp_165_17.
27. Ang Song Yee, John Tharakan, Zamzuri Idris, Shalini Bhaskar, Sanisah Abdul Halim, Salmi Abd Razak, Zabidi Azhar Mohd Hussin, **Regunath Kandasamy**, Wan Mohd Nazaruddin Wan Hassan, Laila Mukmin, Mohamad Hasyizan Hassan, Tan Yew Chin, Badrisyah Idris, Abdul Rahman Izaini Ghani, Hillol Kanti Pal, Jain George, Sani Sayuthi, Mohamed Saufi Awang, Jafri Malin Abdullah. Epilepsy Surgery in Hospital Universiti Sains Malaysia: Our Experiences since 2004. *Malaysian Journal of Medical Sciences*. Nov–Dec 2017; 24(6): 97–102. DOI: 10.21315/mjms2017.24.6.12.

BOOK CHAPTERS

1. R Kandasamy, WMNW Hassan, Z Idris, JM Abdullah - Neurointensive Care: A Guide to Patient Safety, 2015 Page 263. Chapter 17:Acute Spinal Disorders
2. SC Theophilus, R Kandasamy, KA Bakar, JM Abdullah - Neurointensive Care: A Guide to Patient Safety, 2015 Page 303. Chapter 19:Neuroimaging in the Neuro-ICU
3. R. Kandasamy, Z. Idris, J.M. Abdullah. Surgical Management of Intracerebral Haemorrhage Neurovascular Surgery: Surgical Approaches for Neurovascular Diseases. ISBN 978-981-10-8950-3. Springer 2018

RESEARCH GRANTS HELD CURRENTLY

1. **MAKNA Cancer Research Collaboration Grant 2015** – Effects of Newcastle Disease Virus (NDV) on Large Non Human Primate Models – Pre-clinical study
2. **USM Short Term Grant (USM/PPSP/2013/JKP–66(66.3(9))**. Ratio of Nitric Oxide Metabolites in CSF and in Serum of Patients with Subarachnoid Hemorrhage: Correlation with Severity & Outcome.
3. **FRGS Grant 2016** Neural Plasticity, Functional Reorganization and Network Reconfiguration of the Human Brain after Traumatic Brain Injury in Cognitive, Language and Attention Processing.
4. **International Grant 2012-2017** CRASH 3 (Tranexamic Acid for Treatment of Significant TBI: An International Randomized, Double Blinded Placebo Controlled Trial). London School of Hygiene & Tropical Medicine. HUSM Co – Researcher.

PRESENTATIONS & CONFERENCE PROCEEDINGS

1. **Kandasamy R.**, Idris Z., Ghani R.I., Idris B., Nazaruddin W.M., Pal H.K., Abdullah J.M. A Case Report on Programmable Baclofen Pump Insertion for Medically Refractory Spastic Paraparesis: Our first experience in Universiti Sains Malaysia. Proceedings of the 8th Asian Congress of Neurological Surgeons 2010.
2. Pal H.K., **Kandasamy R.** Instrumentation in Spinal Tuberculosis. Proceedings of the 8th Asian Congress of Neurological Surgeons 2010.
3. **Regunath Kandasamy**, Jason Raj Johnson, Wan Nazaruddin, Abdul Rahman IzainiGhani, Zamzuri Idris, Jafri Malin Abdullah. The Role of Stereotactic Aspiration, Multimodality Monitoring and Endoscopy in the Management of Intracranial Haemorrhage: The USM Perspective. Oral Presentation in the 5th World Congress of Intracerebral Haemorrhage 2-4th November 2013, Hong Kong.
4. Oral Presentation: Nitric Oxide Metabolite Levels in CSF and Serum Correlate with Severity and Outcome in Patients with Subarachnoid Haemorrhage. EANS Congress 2016.
5. E Poster: Programmable Baclofen Pump Insertion for Medically Refractory spastic Paraparesis: Our first experience in Universiti Sains Malaysia. 2010. Asian Congress of Neurological Surgeons.
6. Oral Presentation: Surgery for Intracranial Aneurysms. National Neuroanaesthesia Symposium 2012. Organized by Dept of Anaesthesia USM, College of Anesthesiologists & Academy of Medicine Malaysia.
7. Oral Presentation: Pituitary Surgery. National Neuroanaesthesia Symposium 2012. Organized by Dept of Anaesthesia USM, College of Anesthesiologists & Academy of Medicine Malaysia.

8. Oral Presentation: Anatomy of the Brain, Skull & Spine. Terengganu Neurotrauma Symposium 2014. Neurosurgery Unit HSNZ.
9. Oral Presentation: Spine & Spinal Cord Injuries. Terengganu Neurosurgical Emergencies 2015. Neurosurgery Unit HSNZ.
10. Oral Presentation: Spinal Cord Injury (Acute Trauma Care) 2014 - 2016. PPSP USM.
11. Oral Presentation: Management of Traumatic Cauda Equina Injury. Neurosurgical Association of Malaysia (NAM). Neurospine Congress 2016.
12. Oral Presentation: Management of Spinal Deformities. Neurosurgical Association of Malaysia (NAM). Neurospine Congress 2016.
13. Oral Presentation: Spinal Cord Compression. 1st USM Emergency Neurological Life Support Course. October 2016.
14. Oral Presentation: Greg Wilkins Barrick Update in Neurooncology in Malaysia. 2016. Society for Neurooncology 21st Annual Scientific Meeting & Education Day. Scottsdale Arizona, USA.
15. Oral Presentation: Surgical approach to Endonasal Microscopic Transphenoidal Surgery. 2017. Endonasal Microscopic Transphenoidal Surgery Workshop HKL. Department of Neurosurgery HKL.
16. Oral Presentation: Silent Corticotroph Adenoma. 2017. 27th Annual Meeting of the Japanese society for Hypothalamic & Pituitary surgery. Tokyo, Japan.

ACADEMIC PORTFOLIOS

1. Coordinator – Masters of Neurosurgery Phase I, USM since 2014

2. Coordinator for Nervous System Block, Undergraduate MD Programme Year 3, Phase II since 2014
3. Coordinator of Neuroanatomy Course GIN 603, Integrated Neurosciences Programme (INP) USM since 2013
4. Supervisor for Masters of Emergency Medicine and Masters of Surgery Candidates in Neurosurgery Rotation
5. Examination Coordinator for National Masters of Neurosurgery Exam 2014- present
6. Founding member of Collaborative Council for Neurosurgical Research Malaysia 2016
7. Masters of Neurosurgery Selection Committee Member - 2016 till present
8. Member of Task Force “Penstrukturan Semula” Ward HUSM – 2017
9. Founding member and Organizing Co – Chair – Basic Neurosurgical Skills Course 2017 till present.
10. National Curriculum Writing Panel Member for Neurosurgery.
11. Scientific Co Chair- WFNS Symposia KL 2018
12. Scientific Committee - World Dandy Congress, Cabo Mexico 2018

SOCIAL PORTFOLIOS

1. Honorary Advisor – Indian Cultural Society of USM Health Campus
2. Honorary Consultant - Sivasanta Free Specialist Clinic, Penang

INVITED FACULTY

1. Invited Speaker - National Neuroanaesthesia Symposium December 2012
 - (i) Lecture 1 - Principles of Surgery for Intracranial Aneurysm

- (ii) Lecture 2 - Pituitary Surgery
- 2. Invited Speaker – Terengganu Neurotrauma Symposium 2014/2015/2016
 - (i) Lecture 1 - Introduction to Brain, Spine & Spinal Cord Anatomy
 - (ii) Lecture 2 - Management of Spinal Cord Injury
- 3. East Coast Skull Base Workshop 2015 – Lecturer and Surgical Demonstrator
- 4. Invited Speaker – Society for NeuroOncology 21st Annual Scientific Meeting & Education Day, Scottsdale Arizona, USA Nov 2016.
- 5. Invited Speaker – Malaysian Neurospine Congress 2016
 - (i) Surgical Approach to Cauda Equina / Conus Medullaris Injuries
 - (ii) Management of Spinal Deformities
- 6. Invited Speaker & Demonstrator – Transphenoidal Workshop, Hospital Kuala Lumpur, Jan 2017 – Performed Live Surgical Demonstration and gave Lecture on Transphenoidal Approaches
- 7. Invited Speaker & Honorary Faculty -World Dandy Congress, October 2017, Saint Louis, USA.
 - i) Complication Avoidance in Skull Base Surgery.
 - ii) Skull Base Cadaveric Workshop
- 8. Invited Speaker – PPSP USM 2014/2015/2016
 - (i) Spinal Cord Injury (Acute Trauma Care)
- 9. Invited Speaker – “Bengkel Peranan Paramedik Dlm Penjagaan Pesakit Neuro”, Clinical Support Unit HUSM 2015
 - (i) EEG Monitoring
 - (ii) Transcranial Doppler Monitoring
 - (iii) ICP Monitoring

10. Invited Speaker – 27th Annual Meeting of the Japanese Society for Hypothalamic & Pituitary Surgery. Tokyo, Japan 2017
 - (i) Silent Corticotroph Adenoma
11. Invited Speaker – The Annual General Meeting of Malaysian Medical Association Kelantan 2017
 - (i) Advances in Brain Tumour & Haemorrhagic Stroke Management
12. Invited Speaker & Honorary Workshop Faculty – Cambodian Neurosurgical Society, February 2018 -
 - i) Principles of Instrumentation of the Cervical Spine
13. Invited Speaker – Egyptian Neurosurgical Society & Continental African Society of Neurosurgery Annual Meeting, 21-24th of April 2018, Cairo . Egypt.
14. Invited Speaker & Faculty - Sarawak Neurosurgery Update and Hands on Spine Workshop – 30th June -1st July 2018.
 - i) Spinal Tumours
 - ii) Neurosurgical Emergencies

AWARDS

1. Academic Excellence

- **Best student** in Masters in Surgery (Neurosurgery) Professional I (11 – 21 May 2009)
- **Best student** in Masters in Surgery (Neurosurgery) Professional II (May 2012)
- **PADU Award** (Gold Medal) for Academic Excellence in Masters of NeuroSurgery 2012
- **Awarded Membership** to the Academy of Medicine Malaysia (2015)
- **Reviewer of the Year 2016 – Runner Up** – The Surgery Journal, Thieme Medical Publishers, Inc

- **Top 10 Research Publishers for 2017** – PPSP, USM
- **Top 30 Cited Lecturers 2017** – PPSP, USM

2. *Service Excellence*

- **Service Excellence Certificate**, 2007 granted by Penang State Health Department

RESEARCH INTERESTS

1. Pituitary & Hypothalamic Surgery
2. Skull Base
3. Spine Surgery
4. Biomarkers and Therapeutics for Traumatic Brain Injury