

## **PUBLICATIONS – Papers & Book Chapters**

1. Large Cerebral Arteriovenous Malformations. B Sadisavan, PYK Hwang  
**Surgical Neurology**, March 1996; 45(3):245-9
2. Video Endoscopic Sympathectomy for Palmar Hyperhidrosis. KH Lee, PYK Hwang  
**Journal of Neurosurgery**, March 1996;84(3):484-6.
3. Surgery for Ulnar Neuropathy –book chapter. PYK Hwang, P Blum  
in ‘ **Operative Neurosurgery**’ by A Kaye, P Black (Editors), Churchill  
Livingstone, London, 2000, p2115-2124
4. Peripheral nerve regeneration with sustained release of poly(phosphoester)  
microencapsulated nerve growth factor within nerve guide conduits. X Y Xu , W C  
Yee, Peter Y K Hwang et al. **Biomaterials** 24 (2003) 2405-2412
5. Spermine reduces infarction and neurological deficits in a rat middle cerebral artery  
occlusion model: an MRI study. **Neuroscience** 124 (2004) 299-304
6. Gene transfer to dorsal root ganglia by intra-thecal injection: effects on  
regeneration of peripheral nerves. X Wang, CY Wang, JM Zhang, XY Xu, PYK  
Hwang et al. **Molecular Therapy** (Impact factor 6 journal) 2005 Aug; 12(2):314-20
7. Surgery for previously coiled intracranial aneurysms-lessons learnt. T Minh, PYK  
Hwang, KC Nguyen , I Ng. **British Journal of Neurosurgery**, Oct 2006, 20(5): 306-  
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8. Endolymphatic sac tumour-a rare cause of vertigo. YK Ong, NWC Chee, PYK  
Hwang, J Goh. **Singapore Medical Journal** 2006, 47(7): 543-546
9. Minimally invasive carpal tunnel decompression using the knifelight. PYK Hwang,  
CL Ho. **Neurosurgery**, Feb 2007; 60(2 suppl 1) :ONS 162-169
10. Neuronavigation using an image-guided Endoscopic Transnasal-Spheno-  
ethmoidal approach to clival chordomas. PYK Hwang, CL Ho. **Neurosurgery**, Nov  
2007, 61(5 suppl 2): 212-218
11. Wang CY, Guo HY, Lim TM, Ng YK, Neo HP, Hwang PY, Yee WC, Wang S.  
Improved neuronal transgene expression from an AAV-2 vector with a hybrid CMV  
enhancer/PDGF-beta promoter. **J Gene Med.** 2005 Jul; 7(7):945-955
12. Lim T, Petersen ET, Ng IBH, Hwang PYK et al. MR regional perfusion imaging:  
visualisation of functional collateral circulation. **Am J Neuroradiol** 2007, Mar, 28:  
447-448

13. Peculiar geometric alopecia and trigeminal nerve dysfunction in a patient after Guglielmi coil embolisation of a cerebral aneurysm. J Thorat, P Y K Hwang. **J of stroke and cerebrovascular diseases**.2007;16, (1):40-42.
14. A Collaborative Virtual Reality Environment for Neurosurgical Planning and Training. R Kockro, A Stadie,E Schwandt, „P Hwang Et al. **Neurosurgery** 2007 Nov, 61 (5 suppl 2); 379-391
- 15.Virtual reality simulation for complex skull base surgery. Hwang P, Kockro R, et al. **Asian Journal of Neurosurgery** 2007; 1: 1-8
16. The Virtual Temporal bone-an interactive 3-dimensional aid for cranial base surgery. Kockro R, Hwang P. **Neurosurgery** 2009 may; 64( 5Suppl 2): 216-230
17. Surgical planning for resection of cerebral arteriovenous malformations using Virtual reality technology. Ng I, Hwang P et al. **Acta Neurochir (Wien)**. 2009, May; 151(5): 453-463
18. Dex-Ray: augmented reality neurosurgical navigation with a hand-held video probe. Kockro R, Yeo TT, Ng I, Hwang P et al. **Neurosurgery** 2009, Oct; 65: 795-808
19. The Epidemiology of Blunt Carotid and Vertebral artery Injury (BCVI) at a single State Trauma Centre. **Injury**. 2010 Jul;41(7):991-6. Epub 2010 Apr 2.
20. Extensive cranio-cervical pneumocranium. L Satgunseenalan, C McClean , V Cousins, P Hwang – **J Neurosurg**. 2011 Feb;114(2):497-504. Epub 2010 Oct 8
21. Post-operative intracranial haematoma-literature review and recommendations. M Seifman, P Lewis, J Rosenfeld, P Hwang. **Neurosurgery Review 2011 Jan 19 Epub ahead of print**

### **Papers submitted**

1. Calcitonin receptor immuno-reactivity associated with glioma cells in glioblastoma multiforme. Wookey P, Mclean C, Hwang P, Rosenfeld JV. submitted to **Histopathology**
2. Sustained Reversal of Severe Symptomatic MCA Vasospasm Induced by Aneurysmal Subarachnoid Hemorrhage with the Topical Application of Papaverine. A Preager, P Lewis, P Hwang. Submitted to **Clinical Neurology and Neurosurgery**.
3. Ruptured Pseudoaneurysm of the Internal Carotid Artery treated by combined surgical clipping and endovascular coiling. L Satgunseenalan, A Madan, P Hwang. Submitted to **Journal Of Neurosurgery**.

### **Book Chapters submitted**

1. Bleeding diatheses and anticoagulants in head injured patients. In Practical Head Injury (in press). J V Rosenfeld, ed. Elsevier publishers.
2. Head injuries in the elderly- management guidelines. In Practical Head Injury (in press). J V Rosenfeld, ed. Elsevier publishers.
3. Ward care of the head injured patient. In Practical Head Injury (in press). J V Rosenfeld, ed. Elsevier publishers.
4. Traumatic Carotid-Cavernous fistulas. In Practical Head Injury (in press). J V Rosenfeld, ed. Elsevier publishers.

### **Papers in preparation**

1. Basilar vasospasm secondary to Non-Aneurysmal Subarachnoid Haemorrhage causing bulbar palsy successfully treated with angioplasty. P Thomas, A Madan, P Lewis, P Hwang
2. Giant basilar trunk aneurysm treated by cervical vertebral artery cannulation for endovascular stent assisted coiling. P Hwang, A Madan.
3. Frameless Stereotaxy using Dyna-CT Datasets in the Surgical Treatment of Complex Cerebrovascular Lesions: Technique and Outcome. J Tee, A Madan, J Talis, P Hwang.

### **PUBLICATIONS- ABSTRACTS**

1. Head Injury Survey. E Ang, P Hwang, B A Lim. Singapore-Malaysia Congress of Medicine, Singapore, October 1990
2. Neural Repairs and Transfers for Brachial Plexus Injuries. PYK Hwang, RWH Pho, VP Kumar. 5<sup>th</sup> Asean Congress of Neurological Surgery, November 1992
3. Intracranial Pressure Monitoring and Management. PYK Hwang, P Pillay. Singapore General Hospital – Royal Melbourne Hospital Neuroscience Update, February 1995
4. Cerebral Aneurysms – The Singapore General Hospital Experience. PYK Hwang, C Chan. Annual meeting of the Clinical Neuroscience Society of Singapore, March 1995

5. Management of Carotid Stenosis and the TTSH experience PYK Hwang, PL Ong, N Ramani. Chapter of Surgeons' meeting, Academy of Medicine, June 1995
  
6. Management of Multiple Cerebral Metastases. PYK Hwang. Advanced Neurosurgical Trainees' seminar, October 1995, Melbourne, Australia
  
7. Diffuse Axonal Injury. PYK Hwang. Advanced Neurosurgical Trainees' seminar, March 1996, Auckland, New Zealand
  
8. Endoscopic Third Ventriculostomy – The Experience of 18 Years  
 PYK Hwang, RFC Jones  
 Presented at the Annual Scientific Meeting of the Royal Australasian College of Surgeons, May 1996, Melbourne, Australia  
 Presented at the Congress of Neurological Surgeons Annual Meeting, October 1996, Montreal, Canada  
 Published in NEUROSURGERY September 1996: Abstracts of oral presentations.
  
10. Skull base surgery at the National Neuroscience Institute of Singapore  
 P Hwang, T T Yeo, PL Ong, K K Tan, PY Ng, WT Seow  
 Presented at the 4<sup>th</sup> Asian Oceanian skull base surgery congress, Mumbai, India, November 2000
  
11. Management of posterior fossa tumours causing hydrocephalus  
 P Hwang, A Hanieh  
 Accepted for poster presentation American association of neurological surgeons (AANS) meeting, San Francisco, April 2000  
 Presented at the Singapore –Malaysia congress of medicine, Singapore, 4 August 2000
  
12. Corpectomy for cervical spondylotic myelopathy-report of 70 cases  
 P Hwang, K K Tan  
 Accepted for poster presentation, AANS meeting, San Francisco, April 2000  
 Presented at the Singapore-Malaysia congress of medicine, Singapore, 4 August 2000
  
13. The virtual temporal bone: training of skull base surgery in a virtual reality environment  
 R Kockro, SB Yeo, P Hwang, TT Yeo, C Goh, L Serra  
 Accepted for oral presentation at the 12<sup>th</sup> World congress of Neurosurgery, Sydney, Australia. September 2001
  
14. Cervical spondylotic myelopathy-results of corpectomy in 96 cases.  
 P Hwang, KK Tan  
 Accepted for podium and poster presentation at the 12<sup>th</sup> world congress of Neurosurgery, Sydney. September 2001-08-14

15. Incorporation of NGF-loaded biodegradable poly(phosphoester) microspheres into nerve guide conduits facilitates peripheral nerve regeneration  
P Hwang, S Wang, H Yu, J Kam  
Accepted for podium and poster presentation at the 12<sup>th</sup> World congress of Neurosurgery  
Sydney, Australia. September 2001
16. Training of skull base surgery in a virtual reality environment .Accepted for oral presentation  
and won excellent paper award, 6<sup>th</sup> Asian-Oceanian international congress on skull base surgery. (AOICCSBS) Tokyo, Japan. November 2001
17. The virtual temporal bone. Accepted for poster presentation.6th AOICCSBS, Tokyo, Japan  
November 2001
18. Synthetic temporal bone model for skull base surgery. Accepted for poster presentation.  
6<sup>th</sup> AOICCSBS .Tokyo, Japan, November 2001
19. Trans-nasal endoscopic approach for clival lesions report of 2 cases. PYK Hwang, B Liu. Oral presentation, and winner of excellent paper award. Asian-Oceanian International congress of skull base surgery, Taipei, Taiwan, April 2004.
20. Trans-orbital approach for intracranial aneurysms-experience with 40 cases. Oral presentation. PYK Hwang, CL Ho, B Liu. International Skull base surgery congress (ISBSC), Sydney, Australia. November 2004.
21. Development of a robotic arm for neurosurgery. C Lo, PYK Hwang, T T Yeo et al. Oral presentation, I International Skull base surgery congress (ISBSC), Sydney, Australia, November 2004
22. Minimally invasive carpal tunnel decompression-report of 30 cases. PYK Hwang, CL Ho. Oral poster. ASEAN Congress of Neurosurgery, Bali, Indonesia. December 2004
23. Petrosal keyhole approach for skull base lesions. Accepted for oral presentation. 6<sup>th</sup> International Congress on Minimally Invasive Neurosurgery. Nagoya, Japan. March 2005
24. Subtemporal keyhole approach for skull base lesions involving the cavernous sinus. Accepted for oral presentation. 6<sup>th</sup> International congress on Minimally Invasive Neurosurgery. Nagoya, Japan. March 2005
25. Training of neurosurgery in virtual reality environments. Oral presentation, 13<sup>th</sup> World congress of neurological surgery, Marrakesh, September 2005
26. Posterior skull base approaches. 1<sup>st</sup> National Neuroscience Institute international neurosurgery seminar (NNINS), incorporating virtual reality. May 2006

27. Lateral skull base approaches. 1<sup>st</sup> National Neuroscience Institute international neurosurgery seminar (NNINS), incorporating virtual reality. Singapore, May 2006
28. Endoscopic neurosurgery. 1<sup>st</sup> National Neuroscience Institute international neurosurgery seminar (NNINS), incorporating virtual reality. Singapore, May 2006
29. Endoscopic skull base surgery. 1<sup>st</sup> National Neuroscience Institute international neurosurgery seminar (NNINS), incorporating virtual reality. Singapore, May 2006
30. Transorbital keyhole surgery for cerebral aneurysms- report of 50 cases. Accepted for poster presentation, Congress of neurological surgeons (CNS) annual meeting, Chicago, October 2006.
31. Minimally invasive carpal tunnel decompression with knifelight- experience with 50 cases. Accepted for poster presentation, Congress of neurological surgeons (CNS) annual meeting, Chicago, October 2006
32. Endoscopic resection of clival chordomas- report of 3 cases. Accepted for poster presentation, Congress of neurological surgeons (CNS) annual meeting, Chicago, October 2006
33. Surgery for Ventricular tumours. 1<sup>st</sup> National Neuroscience Institute (NNI)-Aesculap Academy Neurosurgical conference with cadaveric dissection. February 2007, Singapore
34. Middle Fossa skull base approaches. 2nd National Neuroscience Institute international neurosurgery seminar (NNINS),. September 2007, Singapore
35. Peripheral nerve surgery for entrapment neuropathies. 2nd National Neuroscience Institute international neurosurgery seminar (NNINS),. September 2007, Singapore
36. Surgery for Pineal and Brainstem lesions. 2nd National Neuroscience Institute (NNI)-Aesculap Academy Neurosurgical conference with cadaveric dissection. February 2008, Singapore
37. Minimally invasive and keyhole approaches for cerebral aneurysms. 1st Australian Advanced Neuro-endoscopy workshop. November 22-24, 2007, Sydney, Australia
38. Minimally invasive neurosurgery- concepts and principles, Annual Scientific Conference, Academy of Filipino neurosurgeons, April 6-7, Baguio, Phillipines.
39. Minimally invasive approaches for cranial tumours. Annual Scientific Conference, Academy of Filipino neurosurgeons, April 6-7, Baguio, Phillipines
40. Endoscopic skull base surgery. Annual Scientific Conference, Academy of Filipino neurosurgeons, April 6-7, Baguio, Phillipines

41. Minimally invasive cerebrovascular surgery. Annual Scientific Conference, Academy of Filipino neurosurgeons, April 6-7, Baguio, Phillipines

42. Endoscopic and minimally invasive cerebrovascular surgery. 2nd Australian Advanced Neuro-endoscopy workshop. March 5-7, 2009; Sydney, Australia