

Assoc. Prof. Cdr. Sorayouth Chumnanvej, M.D., Ph.D

Office:

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Education		
Degree MD. C C	Institution Faculty of Medicine, Thammasat University, Bangkok. Thailand.	Year 1997 ເວັດ ເຊ
Cert. Of Clin. Sci. (Surgery)	Faculty of Medicine Ramathibodi Hospital Mahidol University, Bangkok, Thailand.	2000
Thai Board of Neurosurgery	Faculty of Medicine Ramathibodi Hospital Mahidol University, Bangkok, Thailand.	2001
Thai Board of Family Medicine	The Royal College of Family Physicians of Thailand.	2003
Clinical Research Fellow in Cerebrovascular	Neurosurgery Department, Brigham and Women Hospital and Children Hospital Harvard Medical School, Boston MA USA.	2005
Royal Thai Naval Staff	Royal Thai Naval Staff College, Institute of Advanced Naval Studies.	2007
Certification In ELANA technique	Excimer Laser Assisted Non Occlusive Anastomosis, UMC Utrecht, The Netherlands.	2009
Certificate of Attendance	Full-Endoscopic Spine Surgery, Department of Spine Surgery and Pain T Center for Orthopaedics and Traumatology	Гһегару
of Attendance	St. Anna Hospital , Herne, Germany.	2010
Certificate of Completion	Mazor Robotics Renaissance Training Course Florida Hospital Nicholson Center Celebration FL USA.	2013
Doctor of Philosophy in Biomedical Engineering	Department of Biomedical Engineering, Faculty of Engineering Mahidol University, Bangkok, Thailand.	2019

Certificate of Completion

25th the Advanced International Training Course in Transplant Procurement Management (TPM) Barcelona Spain.

Job History

Neurosurgeon Neurosurgery Unit, Surgery Department Somdej Pra Pin Klao Naval Hospital, Bangkok, Thailand.

Neurosurgery Unit,

Surgery Department,

Faculty of Medicine,

Mahidol University Bangkok Thailand

Ramathibodi Hospital

(2002-2008)

Provide general neurosurgical care in a busy practice of four neurosurgeons. Work extensively with general surgical residents and registered nurses. Developed and taught in nursing skills for registered nurses and general surgical residents working in neurosurgical practice

(2008-NOW)

Teaching and service with neurosurgical residency training program are provided. Clinical research field of interest including cerebrovascular and spinal surgery and also the medical instrument technology and surgical robot is mainly contributed.

Publications

-Cranioplasty with "Pinklao" molding technique Sorayouth Chumnanvej, M.D. Bullentin of The Neurosurgical Association of Thailand 14, 2 (Oct-Dec 2546) 8-16.

-Comparison of Computed Tomographic An<mark>giography and Dig</mark>ital Subtraction Angiography in the Initial Management of Patients with Subarachnoid Hemorrhage

Ian F. Dunn, M.D., Sorayouth Chumnanvej, M.D., William B. Gormley, M.D., Robert M. Friedlander, M.D., Christos Gkogkas, M.D., Kai U. Frerichs, M.D., Arthur L. Day, M.D., Dong H.Kim, M.D. Neurosurgery. 2006 Aug ;59(2):456

-Short-term Phenytoin Use (3 days) after Subarachnoid Hemorrhage is Adequate for Seizure Prophylaxis and Decreases Adverse Events

Sorayouth Chumnanvej, M.D., Ian F. Dunn, M.D., Dong H. Kim, M.D. Neurosurgery. 2007 Jan ;60 (1):99-103

-The Full Endoscopic Uniportal Lumbar Discectomy: Our First 46-Cases Experience Report

Verapan Kuonsongtum, M.D., Sompoch Paiboonsirijit, M.D., Withawin Kesornsak, M.D., Worawut Chaiyosboorana, M.D., Pataravit Rukskul, M.D., M.Sc. (Clinical Science), Dr med, Sorayouth Chumnanvej, M.D., Sebastian Ruetten, M.D. J Med Assoc Thai. 2009 Jun;92(6):776-80.

- Traumatic Brain Injury Sorayouth Chumnanvej,M.D. Rama Med J. 2010;33: Jan-March, 33-41
- Chronic Subdural Hematoma: Drainage VS No Drainage Prasert Sarnvivard. M.D., Sorayouth Chumnanvej, M.D. J Med Assoc Thai. 2011 Dec;94(11):1352-6.
- CLINICON: A Service Robot Designed to Position and Transport Patient: First Conceptual Design and Applications Report Rama Med J. 2012;35: 247-256

-Accuracy of Needle-Tip Localization by Ultrasound Guidance Lumbar Selective Nerve Root Block: A Prospective Clinical Study of 78 Lumbar Nerve Roots Block

Sorayouth Chumnanvej, Narongdet Wetchagama, Verapan Kounsongtham J Med Assoc Thai. 2011 Dec;94(12):1451-6

- Full Endoscopic Lumbar Discectomy via Interlaminar Approach: 2-Year Results in Ramathibodi Hospital Sorayouth Chumnanvej, Withawin Kesornsak, Prasert Sarnvivad, Verapan Kuansongthum J Med Assoc Thai. 2011 Dec;94(12):1465-70
- Outcome Predictor of Spontaneous Intracerebral Hemorrhage Management: Ten-Year Neurosurgical Experience at Ramathibodi Hospital

Prasert Sarnvivad, Sorayouth Chumnanvej J Med Assoc Thai. 2011 Dec;94(12):1471-5

-Retrospective 5-Year Clinical Outcome of Interdisciplinary Treatment for Ruptured Cerebral Arteriovenous Malformation: The Lesson Learned Sorayouth Chumnanvej, Prasert Sarnvivad

Archives of Medicine, 2015 vol.7 NO.4:4

-Physical and Mechanical Characterizations of Oxidized Regenerated Cellulose/Polycaprolactone Composite for Use as a Synthetic Dura Mater

Thunyanun Theeranattapong,Ticomporn Luangwattanawilai, Jintamai Suwanprateeb, Waraporn Suvannapruk, Sorayouth Chumnanvej, Warinkarn Hemstapat Key Engineering Materials August 2015, 659:19-23.

-Bilayer oxidized regenerated cellulose/poly ε-caprolactone knitted fabric-reinforced composite for use as an artificial dural substitute

Jintamai Suwanprateeb, Ticomporn Luangwattanawilai, Thunyanun Theeranattapong, Waraporn Suvannapruk, Sorayouth Chumnanvej, Warinkarn Hemstapat Journal of Materials Science: Materials in Medicine, July 2016, 27:122.

-Visualization of Needle-Tip Localization by Ultrasound Guidance with Contrast Bubble in Lumbar Selective Nerve Root Block: Clinical Pilot Study.

Chumnanvej S, Kittayapirom K, Chumnanvej S.World Neurosurg. 2018 Mar;111:e418-e423. doi: 10.1016/j.wneu.2017.12.079. Epub 2017 Dec 21.

-Determination of spinopelvic parameters in degenerative lumbar spondylolisthesis patients undergoing lumbosacral spine fusion surgery: the lesson learnt.

Sorayouth Chumnanvej, Noppatee Segkhaphant. Turkish Neurosurgery. Jan. 2018. doi:10.5137/1019-5149.JTN.23442-18.1

-Pathway and workspace study of Endonasal Endoscopic Transsphenoidal (EET) approach in 80 cadavers. Sorayouth Chumnanvej, Suwiphat Chalongwongse, Branesh M. Pillai, Jackrit Suthakorn. International Journal of Surgery Open. Dec. 2018.

-Anatomical workspace study of Endonasal Endoscopic Transsphenoidal Approach. Sorayouth Chumnanvej, Duangkamol Pattamarakha, Thanwa Sudsang, Jackrit Suthakorn. Jun 2019. doi.org/10.1515/med-2019-0059.

-Surgical Robotic Technology for Developing an Endonasal Endoscopic Transsphenoidal Surgery (EETS) Robotic System.

Sorayouth Chumnanvej, Branesh M. Pillai, Jackrit Suthakorn. The Open Neurology Journal. Jun 2019.

Proceedings

- Peripheral Nerve Localization by Frequency-Based Electrical Stimulation.

Dilok Puanhvuan, Sorayouth Chumnanvej, Sarawin Khemmachotikun, Yodchanan Wongsawat. Neural Information Processing. Lecture Notes in Computer Science Volume 8226, 2013, pp 352-359.

-ANN-based nerve damage preservation system for neurosurgical operation

Dilok Puanhvuan, Sorayouth Chumnanvej, Sarawin Khemmachotikun, Yodchanan Wongsawat.

Soft Computing and Intelligent Systems (SCIS), 2014 Joint 7th International Conference on and Advanced Intelligent Systems (ISIS), 15th International Symposium

Poster Presentation

- The Efficacy of Fluoroscopy-Guided Procedures in Chronic Low Back Pain Management in Thailand. Nuj Tontisirin, Verapan Kounsongtum, Koravee Pasutharnchat, Piyamart Sirivararom, Sorayouth Chumnanvej, Suwanna Chanpradub, Wichai Ittichaikulthol, Varaporn Vikakul, Amara Panich. Poster Presentation at the ASRA 2009 Fall Pain Medicine Meeting in San Antonio Texas.Nov 19-22, 2009.

- Bilayer-Synthetic Tissue Substitute with Drug Delivery.

TechInnovation 2016 at Resorts World Sentosa Convention CentreResorts World Ballroom West, Basement 2 8 Sentosa Gateway, Sentosa Island, 20-21 Sep. 2016, Singapore 098269.

International Lecture

-AO Spine Advances Symposium in Spinal Controversy & Uncertainty (Inter-EA) Singapore, Singapore 02 Mar 2013 - 03 Mar 2013

-Cadaveric Workshop on Neuroplasty

The National University of Malaysia, Cheras, Kuala Lumpur 23 Mar 2014

-The 7th Annual Meeting of Taiwan Neurospinal Society Kaohsiung, Taiwan 7 Jun 2014- 8 Jun 2014

-The 1st International Symposium of High-Tech Spine Surgery Medical Science Research Center, The Catholic University of Korea, St. Mary's Hospital, Seoul, Korea 19 July 2014.

-Cell-Based Treatment for Spinal Cord Injury Patient Chiropractic Conference at Central Queensland University, Brisbane, Australia 4 October 2014.

Patents

-No. 1501007554 : THEKA: the Synthetic Dural Substitute

-No. 1601002611 : Preparations of poly(D,L-lactic-co-glycolic acid) microparticles control release Nicardipine Hydrochloride for Biomedical Application

-No. 1701003249 : Wireless ICP Sensor

-No. 1701006348 : Endonasal Endoscopic Transsphenoidal Approach Simulation Model

Awards

ICS Inventor Award 2019 (the International College of Surgeons)
44th Annual Scientific Congress of the Royal College of Surgeons of Thailand
3rd Joint Meeting with the Minister of Public Health
13-16 July 2019, Thailand

Professional Organizations

- -Thai Medical Council (Member)
- -Fellow of the Royal College of Surgeons of Thailand (FRCST)
- -Fellow of the Royal College of Neurological Surgeons of Thailand (FRCNST)

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Personal Interests

- -cerebrovascular surgery.
- -spinal surgery and instrumentation. -peripheral neve entrapment.
- -neuromodulation.
- -surgical robot.
- -robotic assisted surgery.

References Available Upon Request