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EDUCATION AND APPOINTMENTS	
• Medical Student, Faculty of Medicine, Chulalongkorn University	1983 - 1989
• Resident in Neurology, King Chulalongkorn Memorial Hospital	1990 – 1993
• Instructor, Department of Medicine, Faculty of Medicine, Chulalongkorn University	1993 – 1994
• Clinical and Research Fellow in Cerebrovascular disease, Massachusetts General Hospital, Boston, U.S.A.	1994 – 1996
• Assistant Professor, Department of Medicine Faculty of Medicine, Chulalongkorn University	1997 – 2000
• Associate Professor, Department of Medicine Faculty of Medicine, Chulalongkorn University	2000 – 2009
• Professor of Neurology, Department of Medicine Faculty of Medicine, Chulalongkorn University	2009 – present

DEGREES AND CERTIFICATES	
Doctor of Medicine (First class Honor) Chulalongkorn University	1989
Graduate Diploma in Clinical Science (Medicine) Chulalongkorn University	1990
Board of Neurology (Thai Medical Council)	1993
Certificate in Neurosonology (American Society of Neuroimaging)	1996

POSITIONS
<ul style="list-style-type: none"> • President: The Neurological Society of Thailand
<ul style="list-style-type: none"> • Member of The Medical Association of Thailand
<ul style="list-style-type: none"> • Committee of Thai Medical Council
<ul style="list-style-type: none"> • Vice president: ASEAN Neurological Association (ASNA)
<ul style="list-style-type: none"> • Executive Committee (Treasurer): Asia Pacific Stroke Organization (APSO)

AWARDS	
<ul style="list-style-type: none"> • Best Academically Excellent Physician, The Medical Association of Thailand 	2018
<ul style="list-style-type: none"> • Best Personnel (Physician) of the year 2017, King Chulalongkorn Memorial Hospital , The Thai Red Cross Society 2017 	2017
<ul style="list-style-type: none"> • Best Academically Excellent Internist of the year 2014, The Royal College of Physicians of Thailand 2014 	2014
<ul style="list-style-type: none"> • Award on Academic Achievement and Honor, Faculty of Medicine, Chulalongkorn University 2013 	2013
<ul style="list-style-type: none"> • Outstanding Alumni Award; Faculty of Medicine, Chulalongkorn University 	2011
<ul style="list-style-type: none"> • Honorary Award on Academic Achievement, Faculty of Medicine, Chulalongkorn University 	2011
<ul style="list-style-type: none"> • BUPA Clinical Excellence Award for Stroke patient care 	2005
<ul style="list-style-type: none"> • Awarded by the Anandamahidol Foundation to study abroad 	1994

(Stroke Fellowship at Massachusetts General Hospital)	
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AWARDS (CHULALONGKORN STROKE CENTER)
<ul style="list-style-type: none"> • WSO Angel’s award (Platinum status) 2019
<ul style="list-style-type: none"> • Thailand Angel’s award (Diamond status) 2019
<ul style="list-style-type: none"> • Thailand Angel’s award (Platinum status) 2018
<ul style="list-style-type: none"> • Certified Stroke Center Award by the Healthcare Accreditation Institute of Thailand (Reaccredited) 2018
<ul style="list-style-type: none"> • Best Practice Award (Telestroke system for acute stroke care) by the Ministry of Public Health 2017
<ul style="list-style-type: none"> • Excellence Award on Quality Improvement Service (Telestroke system for acute stroke treatment) by the Office of the Public Sector Development Commission 2016
<ul style="list-style-type: none"> • Certified Stroke Center Award by the Healthcare Accreditation Institute of Thailand 2015
<ul style="list-style-type: none"> • Excellence Award on Public Services (Stroke Care System) by the Office of the Public Sector Development Commission 2010

STROKE ACTIVITIES WITH SOCIAL IMPACT

1. Pioneered the acute stroke treatment in Thailand. The first case of thrombolytic treatment was given in 1996 and the **“Stroke Fast Track” program** was established at King Chulalongkorn Memorial Hospital in 1998. This program became the model of stroke care in Thailand and the surrounding regions.
2. Initiated the establishment of **“Comprehensive stroke unit”** in Thailand at King Chulalongkorn Memorial Hospital, which involves multidisciplinary team and comprehensive care in 2001 and later, Stroke Intensive Care Unit (Stroke ICU) in 2017.
3. Initiated the **“Stroke Home Health Care” project** in cooperation with the Thai Red Cross Volunteer Bureau in 2000. Provided training to the Red Cross volunteers and nurses for home care management.
4. Initiated the **“Stroke club”** in 2007 to increase public awareness among general population and patients about stroke prevention and management.

5. Initiated the annual “**World Stroke Day**” public activity in Thailand to raise public awareness since 2009.
6. Initiated the “**Telestroke project**” in Thailand providing consultation on thrombolytic treatment to more than 20 spoke hospitals in 2015 and started the drip-and-ship program. The telestroke project also reached out to Laos PDR, which is the neighboring country, and provided thrombolytic treatment for the first time in Laos PDR in 2016.
7. Collaborate with the Ministry of Public Health to set up “**Bangkok Stroke network**” with the use of telemedicine in 2017.
8. Initiated the “**Teleneurology clinic**” for outpatient management after stroke in 2018. The project aims for patients with disability after stroke to be followed up using teleconsultation to prevent follow up losses and lessen the difficulties of traveling to the hospital.
9. Initiated the “**Atrial fibrillation screening for stroke prevention**” project where >13,000 elderly subjects in the provincial areas were screened. 2018-2019
10. Started the “**Stroke Home Care Robot**” project funded by the Thai government, in collaboration with Department of Engineering, Chulalongkorn University to create robots that can monitor and assist patients after discharge, 2019

PUBLICATIONS

Original Articles

1. Limotai C, Ingsathit A, Thadanipon K, Pattanapratchee O, Pattanateepaporn A, Phanthumchinda K, **Suwanwela NC**, Thaipsisuttikul I, Boonyapisit K, Thakkestian A Efficacy and economic evaluation of delivery of care with tele-continuous EEG in critically ill patients: a multicentre, randomised controlled trial (Tele-cRCT) study protocol. *BMJ Open*. 2020 Mar 4;10(3):e033195.
2. Kijpaisalratana N, Chutineta A, Akarathanawat W, Vongvasinkul P, **Suwanwela NC**. Outcomes of thrombolytic therapy in acute ischemic stroke: mothership, drip-and-ship, and ship-and-drip paradigms. *BMC Neurol*. 2020 Feb 3;20(1):45.

3. Chusiri S, Chutinet A, **Suwanwela NC**, Puttilerpong C .Incidence and Risk Factors of Postcontrast Acute Kidney Injury in Patients with Acute Ischemic Stroke. Stroke Res Treat. 2020 Apr 1;2020:7182826.
4. Chutinet A, Keosodsay S, Vorasayan P, Samajarn J, Akarathanawat W, Kijpaisalratana N, Norsakpeseuth N, Phetsiriseng K, Thongsna S, Vongvasinkul P, **Suwanwela NC**. The First 10 Thrombolysis for Acute Ischemic Stroke in Lao People's Democratic Republic under Teleconsultation from Thailand. J Stroke Cerebrovasc Dis. 2019 Sep 14:104327.
5. **Suwanwela NC**, Chen CLH, Lee CF, Young SH, Tay SS, Umapathi T, Lao AY, Gan HH, Baroque li AC, Navarro JC, Chang HM, Advincula JM, Muengtaweepongsa S, Chan BPL, Chua CL, Wijekoon N, de Silva HA, Hiyadan JHB, Wong KSL, Pongvarin N, Eow GB, Venketasubramanian N; CHIMES-E Study Investigators. Effect of Combined Treatment with MLC601 (NeuroAiDTM) and Rehabilitation on Post-Stroke Recovery: The CHIMES and CHIMES-E Studies. Cerebrovasc Dis. 2018;46(1-2):82-88.
6. Kijpaisalratana N, Chutinet A, **Suwanwela NC**. Hyperacute Simultaneous Cardiocerebral Infarction: Rescuing the Brain or the Heart First? Front Neurol. 2017 Dec 7;8:664.
7. Venketasubramanian N, Lee CF, Young SH, Tay SS, Umapathi T, **Suwanwela NC**, et al. Prognostic factors and pattern of long-term recovery with MLC601 (NeuroAiD™) in the Chinese medicine NeuroAiD efficacy on stroke recovery - Extension study. Cerebrovascular Diseases. 2017;43(1-2):36-42.
8. **Suwanwela NC**, Chutinet A, Mayotarn S, Thanapiyachaikul R, Chaisinanunkul N, Asawavichienjinda T, et al. A randomized controlled study of intravenous fluid in acute ischemic stroke. Clinical Neurology and Neurosurgery. 2017;161:98-103.
9. Sa-Ing V, Vorasayan P, **Suwanwela NC**, Auethavekiat S, Chinrungrueng C. Real-time 3D ultrasound denoising based on adaptive regularisation Savitzky-Golay filter. Electronics Letters. 2017;53(15):1029-31.
10. Rerknimitr P, Pongpairroj K, Kumtornrat C, Panchaprateep R, Hurst CP, **Suwanwela NC**, et al. Anterior Tragal Crease Is Associated with Atherosclerosis: A Study Evaluating Carotid Artery Intima-Media Thickness. Angiology. 2017;68(8):683-7.
11. Navarro JC, Chen CLH, Lee CF, Gan HH, Lao AY, **Suwanwela NC**, et al. Durability of the beneficial effect of MLC601 (NeuroAiD™) on functional recovery among stroke patients from the Philippines in the CHIMES and CHIMES-E studies. International Journal of Stroke. 2017;12(3):285-91.

12. Li W, **Suwanwela NC**, Patumraj S. Curcumin prevents Reperfusion injury following ischemic stroke in rats via inhibition of NF- κ B, ICAM-1, MMP-9 and caspase-3 expression. *Molecular Medicine Reports*. 2017;16(4):4710-20.
13. **Suwanwela NC**, Pongvarin N. Stroke burden and stroke care system in Asia. *Neurology India*. 2016;64:S46-S51.
14. Li W, **Suwanwela NC**, Patumraj S. Curcumin by down-regulating NF- κ B and elevating Nrf2, reduces brain edema and neurological dysfunction after cerebral I/R. *Microvascular Research*. 2016;106:117-27.
15. Jaruchart T, **Suwanwela NC**, Tanaka H, Suksom D. Arterial stiffness is associated with age-related differences in cerebrovascular conductance. *Experimental Gerontology*. 2016;73:59-64.
16. Eisen A, Bhatt DL, Steg PG, Eagle KA, Goto S, **Suwanwela NC**, et al. Angina and future cardiovascular events in stable patients with coronary artery disease: Insights from the Reduction of Atherothrombosis for Continued Health (REACH) registry. *Journal of the American Heart Association*. 2016;5(10).
17. Chaisinanunkul NN, Chatsuwat T, **Suwanwela NC**. Association between Chlamydia pneumoniae infection and atherosclerosis of cervical or intracranial cerebral vessels in Thai patients. *Asian Biomedicine*. 2016;10:S57-S62.
18. Venketasubramanian N, Young SH, Tay SS, Umapathi T, Lao AY, **Suwanwela NC**, et al. Chinese medicine NeuroAid efficacy on stroke recovery - Extension study (CHIMES-E): A multicenter study of long-term efficacy. *Cerebrovascular Diseases*. 2015;39(5-6):309-18.
19. Methawasin K, **Suwanwela NC**, Phanthumchinda K. The 2-year outcomes comparison between ischemic stroke patients with intracranial arterial stenosis without significant extracranial carotid stenosis and patients with extracranial carotid stenosis. *Journal of the Medical Association of Thailand*. 2015;98:S98-S105.
20. Chen CH, Chen MC, Gibbs H, Kwon SU, Lo S, **Suwanwela NC**, et al. Antithrombotic treatment for stroke prevention in atrial fibrillation: The Asian agenda. *International Journal of Cardiology*. 2015;191:244-53.
21. Tan KS, Navarro JC, Wong KS, Huang YN, Chiu HC, **Suwanwela NC**, et al. Clinical profile, risk factors and aetiology of young ischaemic stroke patients in Asia: A prospective, multicentre, observational, hospital-based study in eight cities. *Neurology Asia*. 2014;19(2):117-27.
22. Nilanont Y, Nidhinandana S, **Suwanwela NC**, Hanchaiphiboolkul S, Pimpak T, Tatsanavivat P, et al. Quality of acute ischemic stroke care in Thailand: A

- prospective multicenter countrywide cohort study. *Journal of Stroke and Cerebrovascular Diseases*. 2014;23(2):213-9.
23. Navarro JC, Gan HH, Lao AY, Baroque AC, Hiyadan JHB, **Suwanwela NC**, et al. Baseline characteristics and treatment response of patients from the Philippines in the CHIMES study. *International Journal of Stroke*. 2014;9(A100):102-5.
24. Lau AY, Zhao Y, Chen C, Leung TW, Fu J, , **Suwanwela NC**, et al. Dual antiplatelets reduce microembolic signals in patients with transient ischemic attack and minor stroke: Subgroup analysis of CLAIR study. *International Journal of Stroke*. 2014;9(A100):127-32.
25. Hanchaiphiboolkul S, Puthkhao P, Towanabut S, Tantirittisak T, Wangphonphatthanasiri K, **Suwanwela NC**, et al. Factors predicting high estimated 10-year stroke risk: Thai epidemiologic stroke study. *Journal of Stroke and Cerebrovascular Diseases*. 2014;23(7):1969-74.
26. Chutinet A, Roongpiboonsopit D, **Suwanwela NC**. Intracerebral hemorrhage after intravenous thrombolysis in patients with cerebral microbleeds and cardiac myxoma. *Frontiers in Neurology*. 2014;5(NOV).
27. Oh BH, Kaligis RWM, Wang Y, Punzalan FER, **Suwanwela NC**, Nguyen VL, et al. Survey of atherosclerotic disease in Asian subjects with cardiovascular disease risk factors who were not receiving lipid-lowering agents. *International Journal of Cardiology*. 2013;168(3):2761-6.
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29. Chen CLH, Young SHY, Gan HH, Singh R, Lao AY, **Suwanwela, N.C**, et al. Chinese medicine neuroaid efficacy on stroke recovery: A double-blind, placebo-controlled, randomized study. *Stroke*. 2013;44(8):2093-100.
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32. \Sailasuta N, Ross W, Ananworanich J, Chalermchai T, DeGruttola V, **Suwanwela, N.C.**, et al. Change in Brain Magnetic Resonance Spectroscopy after Treatment during Acute HIV Infection. *PLoS One*. 2012;7(11).

33. Likitjaroen Y, **Suwanwela NC**, Mitchell AJ, Lerdlum S, Phanthumchinda K, Teipel SJ. Isolated motor neglect following infarction of the posterior limb of the right internal capsule: A case study with diffusion tensor imaging-based tractography. *Journal of Neurology*. 2012;259(1):100-5.
34. Chutinet A, **Suwanwela NC**, Snabboon T, Chaisinanunkul N, Furie KL, Phanthumchinda K. Association between genetic polymorphisms and sites of cervicocerebral artery atherosclerosis. *Journal of Stroke and Cerebrovascular Diseases*. 2012;21(5):379-85.
35. Kwon SU¹, Hong KS, Kang DW, Park JM, Lee JH, **Suwanwela NC**, et al. Efficacy and safety of combination antiplatelet therapies in patients with symptomatic intracranial atherosclerotic stenosis. *Stroke*. 2011 Oct; 42(10): 2883-90. doi: 10.1161/STROKEAHA.110.609370. Epub 2011 Jul 28.
36. Hanchaiphibookkul S¹, Pongvarin N, Nidhinandana S, **Suwanwela NC**, Puthkhao P, Towanabut S, et al. Prevalence of stroke and stroke risk factors in Thailand: Thai Epidemiologic Stroke (TES) Study. *J Med Assoc Thai*. 2011 Apr;94(4):427-36.
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38. Toonkum P, **Suwanwela NC**, Chinrungrueng C. Reconstruction of 3D ultrasound images based on Cyclic Regularized Savitzky-Golay filters. *Ultrasonics*. 2011;51(2):136-47.
39. Sharma VK, Ng KWP, Venketasubramanian N, Saqqur M, Teoh HL, **Suwanwela NC**, et al. Current status of intravenous thrombolysis for acute ischemic stroke in Asia. *International Journal of Stroke*. 2011;6(6):523-30.
40. Wong KSL, Chen C, Fu J, Chang HM, **Suwanwela NC**, Huang YN, et al. Clopidogrel plus aspirin versus aspirin alone for reducing embolisation in patients with acute symptomatic cerebral or carotid artery stenosis (CLAIR study): a randomised, open-label, blinded-endpoint trial. *The Lancet Neurology*. 2010;9(5):489-97.
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42. **Suwanwela NC**. Atherothrombotic Disease. *International Neurology: A Clinical Approach* 2010. p. 6-8.
43. Likitjaroen Y, **Suwanwela NC**, Phanthumchinda K. Vasoreactivity induced by acetazolamide in patients with vascular dementia versus Alzheimer's disease. *J Neurol Sci*. 2009 Aug 15;283(1-2):32-5.

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45. Navarro JC, Bitanga E, **Suwanwela N**, Chang HM, Ryu SJ, Huang YN, et al. Complication of acute stroke: A study in ten Asian countries. Neurology Asia 2008; 13:33-39.
46. **Suwanwela NC**, Eusattasak N, Phanthumchinda K, Piravej K, Locharoenkul C. Combination of acute stroke unit and short-term stroke ward with early supported discharge decreases mortality and complications after acute ischemic stroke. Journal of the Medical Association of Thailand. 2007;90(6):1089-96.
47. Chaisam T, **Charnnarong N**. Risk factors of brain herniation in patients with acute middle cerebral artery occlusion. Chula Med J 2007 Jul-Aug; 51(7): 317-26.
48. Deerochanawong C, Buranakitjaroen P, Nitiyanant W, Suwantamee J, Piamsomboon C, **Suwanwela, N.C**, et al. The atorvastatin goal achievement across risk levels: (ATGOAL) study in Thailand. Journal of the Medical Association of Thailand. 2007;90(1):72-81.
49. **Suwanwela N**, Koroshetz WJ. Acute ischemic stroke: Overview of recent therapeutic developments. Annual Review of Medicine 2007. p. 89-106.
50. **Suwanwela NC**, Phanthumchinda K, Likitjaroen Y. Thrombolytic therapy in acute ischemic stroke in Asia: The first prospective evaluation. Clinical Neurology and Neurosurgery. 2006;108(6):549-52.
51. **Suwanwela NC**, Chutinet A, Phanthumchinda K. Inflammatory markers and conventional atherosclerotic risk factors in acute ischemic stroke: comparative study between vascular disease subtypes. J Med Assoc Thai. 2006 Dec; 89(12):2021-7.
52. Poungvarin N, **Suwanwela NC**, Venketasubramanian N, Wong KS, Navarro JC, Bitanga E, Yoon BW, Chang HM, Alam SM. Grave Prognosis on Spontaneous Intracerebral Haemorrhage: GP on Stage Score. J Med Assoc Thai. 2006 ;89 (suppl 5): s84-93.
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55. Suputtitada A, **Suwanwela NC**. The lowest effective dose of botulinum A toxin in adult patients with upper limb spasticity. *Disabil Rehabil*. 2005 Feb 18;27(4):176-84.
56. Langhorne P, Taylor G, Murray G, Dennis M, Anderson C, **Suwanwela N**, et al. Early supported discharge services for stroke patients: A meta-analysis of individual patients' data. *Lancet*. 2005;365(9458):501-6.
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59. **Suwanwela N**¹, Srikiatkachorn A, Tangwongchai S, Phanthumchinda K, Suwanwela N. Mutation of the Notch 3 gene in a Thai cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy family. *J Med Assoc Thai*. 2003 Feb;86(2):178-82
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