

Thai
.....
Journal
.....
of
.....
Neurology



Volume 38 No. 1
.....

January - March
.....

2022

Welcome Message

As the ASNA 2021 Congress Chair, I have the greatest pleasure of extending my invitation to all of you to join the 14th Biennial Convention of The ASEAN Neurological Association 2021 (ASNA 2021 Bangkok), co-hosted by the Neurological Society of Thailand and the ASEAN Neurological Association, during 19th – 21st October 2021.

The ASEAN Neurological Association (ASNA) is an academic network of neurologists within South East Asia region. Since the Biennial meeting starting in 1997, ASNA conference has always been a great place to update the knowledge, share local experiences and meet friends from across the region. However, due to the on-going global COVID-19 pandemic where traveling is not possible, the organizing committee has decided to hold the ASNA 2021 in a fully virtual format. This year's conference theme is "Fostering ASEAN Collaboration to Advanced New Technologies for Neurologists During COVID-19 Pandemic" in which we aim to deliver an exciting and all-rounded virtual scientific program that encompasses various topics relevant to research and clinical practices in the region. Correspondingly, the congress will emphasize on various aspects of the COVID-19 challenges. We expect that there will be more than 800 participants joining the conference.

With the virtual platform, participants will be able to join the scientific sessions and e-poster with ease. VDO on demand will be available in the system for 90 days after the meeting. Abstract submissions to share recent research and knowledge are strongly encouraged. Along with scientific program, we are also trying to maintain ASNA spirits during the opening ceremony, fellowship night, and video contest, which I strongly encourage you to participate in. Virtual exhibition booths from the leading companies in the field will also be available.

On behalf of the Neurology Society of Thailand and the ASEAN Neurological Association, I am truly looking forward to seeing you at this coming informative and enjoyable ASNA 2021 virtual congress.

Warmest regards,

Nijasri C. Suwanwela, M.D.
Professor of Neurology
ASNA 2021 Congress Chair

Welcome Message

It is my great pleasure to welcome you on behalf of the Neurological Society of Thailand and the ASEAN Neurological Association (ASNA) to "The 14th Biennial Convention of The ASEAN Neurological Association 2021 (ASNA 2021 Bangkok)", which will be held during 19th - 21st October 2021. The congress theme is "Fostering ASEAN Collaboration to Advanced New Technologies for Neurologists During COVID-19 Pandemic", which encompasses various topics relevant to research and clinical practices in the region and emphasizes on various aspects of challenges during the COVID-19 pandemic. With the virtual platform, participants will be able to join the sessions and to access VDO on demand for the periods of 90 days after the meeting.

It has been our privilege to convene this conference. My sincere thanks go to the conference organizing committee, for their dedication and hard work in creating this excellent program.

I hope that this inspiring ASNA 2021 virtual congress will result in acquiring new knowledge, collaborations, and friendships.

Very best wishes

Tasaneer Tantirittisak, MD.

President of Neurological Society of Thailand

ASNA Organizing And Scientific Committee

President:

Prof. Dr. Nijasri Charnnarong Suwanwela

Organizing committee:

1. Prof. Dr. Somsak Tiamkao
2. Prof. Dr. Roongroj Bhidayasiri
3. Assoc. Prof. Dr. Vorapun Senanarong
4. Assoc. Prof. Dr. Sombat Moungtaweepongsa
5. Asst. Prof. Dr. Suwanna Setthawatcharawanich
6. Assoc. Prof. Dr. Kanokwan Boonyapisit
7. Assoc. Prof. Dr. Aurauma Chutinet
8. COL. Dr. Chesda Udommongkol
9. Asst. Prof. Dr. Surat Tanprawate
10. Asst. Prof. Dr. Suwat Srisuwannanukorn

Treasurer:

1. Dr. Tasanee Tantirittisak
2. Lt. COL. Dr. Pasiri Sithinamsuwan
3. Dr. Metha Apiwattanakul

Social functions:

1. Asst. Prof. Dr. Charungthai Dejthevaporn
2. Dr. Arada Rojana-udomsart
3. Asst. Prof. Dr. Onanong Phokaewvarangkul
4. Dr. Thananan Thammongkolchai

Secretariat team:

1. Prof. Dr. Kongkiat Kulkantrakorn
2. Asst. Prof. Dr. Chatchawan Rattanabannakit
3. Dr. Yuvadee Pitakpatapee
4. Dr. Chaipat Chunharas
5. Dr. Wasan Akarathanawat
6. Dr. Pat Korathanakhun
7. Dr. Pichet Termsarasab
8. Dr. Chayasak Wantaneeyawong
9. Dr. Chutithev Teekaput
10. Dr. Jedsada Khieukhajee
11. Dr. Chaichana Sinthuwong

Scientific committee:

1. Chair: Prof. Dr. Roongroj Bhidayasiri
2. Co-Chair: Assoc. Prof. Dr. Kanokwan Boonyapisit
3. Prof. Dr. Kongkiat Kulkantrakorn
4. Assoc. Prof. Dr. Vorapun Senanarong
5. Dr. Tasanee Tantirittisak
6. COL. Dr. Parnsiri Chairangsaris
7. Asst. Prof. Dr. Surat Tanprawate
8. Dr. Metha Apiwattanakul
9. Asst. Prof. Dr. Supoch Tunlayadechanont
10. Asst. Prof. Dr. Suwanna Setthawatcharawanich
11. Assoc. Prof. Dr. Sarun Nunta-aree
12. Assoc. Prof. Chuthamanee Suthisisang
13. Assoc. Prof. Dr. Sukalaya Lerdum
14. Assoc. Prof. Dr. Aurauma Chutinet
15. Asst. Prof. Dr. Nutchawan Jittapiromsak
16. Dr. Poosanu Thanapornsangsuth
17. Asst. Prof. Dr. Pattamon Panyakaew

Pre-congress WORKSHOP 1				
Ultrasound in cerebrovascular diseases				
19 th October 2021, 13.30-15.30 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Girianto Tjandrawidjaja (Indonesia)	13.30-13.35	Welcome	Narayanaswamy Venketasubramanian Ramani (Singapore)	
Narayanaswamy Venketasubramanian Ramani (Singapore)	13.35-14.00	Introduction to neurosonology	Aurauma Chutinet (Thailand)	Describe the physics, anatomy and techniques of ultrasound in cerebrovascular disease
	14.00-14.25	Extracranial ultrasound	Tai Mei-Ling Sharon (Malaysia)	Extracranial ultrasound case studies including diagnostic criteria
	14.25-14.50	Transcranial ultrasound	Chang Hui Meng (Singapore)	Transcranial ultrasound including transcranial doppler ultrasound (TCD) and transcranial color-coded ultrasound (TCCD) case studies including diagnostic criteria
	14.50-15.15	Advanced applications	Jose Navarro (Philippines)	Case studies of advanced applications in neurovascular ultrasound
	15.15-15.25	General discussion	All faculties	
	15.25-15.30	Closing remarks	Girianto Tjandrawidjaja (Indonesia)	

Pre-congress WORKSHOP 2				
Botulinum toxin injection techniques for dystonia & spasticity				
19 th October 2021, 13.30-15.30 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Pairoj Boonkongchuen (Thailand)	13.30-14.10	Cervical dystonia	Arlene Ng (Philippines)	Demonstrate botulinum toxin injection techniques in patients with cervical dystonia
	14.10-14.50	Hemifacial spasm and blepharospasm	Priya Jagota (Thailand)	Demonstrate botulinum toxin injection techniques in patients with hemifacial spasm and blepharospasm
	14.50-15.30	Spasticity	Erle Lim (Singapore)	Demonstrate botulinum toxin injection techniques for patients with spasticity

Pre-congress WORKSHOP 3				
An electrophysiological approach to focal weakness and numbness in the upper and lower limbs				
19 th October 2021, 13.30-15.30 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Charunghai Dejthevaporn (Thailand)	13.30-15.30	Focal numbness and weakness of the upper and lower limbs	Jun Kimura (USA)	Demonstrate electrophysiological techniques in patients with focal numbness and weakness of the upper limbs

Pre-congress WORKSHOP 4				
Case-based evaluations for general neurologists: neuro-infection and neuro-immunology				
19 th October 2021, 16.00-18.00 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Siwaporn Chankrachang (Thailand)	16.00-16.25	Clinical aspects of neuro-infection vs neuroimmunology	Ahmad Rizal Ganiem (Indonesia)	Demonstrate clinical features of neuro-infection and neuroimmunological cases with clinical interpretation
Metha Apiwattanakul (Thailand)	16.25-16.50	Investigation pitfalls in neuro-infection and neuroimmunology	Abhinbhen Saraya (Thailand)	Review laboratory data of neuro-infection and neuroimmunological cases with clinical interpretation
	16.50-17.40	Case discussion	Amy M.L. Quek (Singapore) Jiraporn Jitprapaikulsan (Thailand)	Discuss real-life cases and the interpretation of laboratory findings
	17.10-18.00	Interactive Q&A		Review of unknown case submission from audience

Pre-congress WORKSHOP 5				
Case-based approach in atypical dementia syndromes				
19 th October 2021, 16.00-18.00 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Suwanna Setthawatcharawanich (Thailand)	16.00-17.00	Case-based approach to atypical dementia	Pirada Witoonpanich (Thailand) Chatchawan Rattanabannakit (Thailand)	Discuss a systematic approach of atypical dementia syndromes based on relevant clinical features
Yuan-Han Yang (Taiwan)	17.00-18.00	Case-based approach to biomarkers in dementia	Yuthachai Likitchareon (Thailand) Laksanun Cheewakriengkrai (Thailand)	Demonstrate the use neuroimaging and fluid biomarkers in the diagnosis of atypical dementia syndromes

Pre-congress WORKSHOP 6 Case-based headache interventions: Techniques and applications 19 th October 2021, 16.00-18.00 (Duration 120 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Kammant Phanthumchinda (Thailand) kammant@hotmail.com	16.00-16.30	Nerve block	Manjit Matharu (United Kingdom)	Demonstrate nerve block techniques in different headache disorders
	16.30-17.00	Botulinum toxin injection	Jonathan Ong (Singapore)	Demonstrate botulinum toxin injection techniques for migraine
	17.00-17.30	Transcranial Magnetic Stimulation	Pakorn Wivatvongvana (Thailand)	Discuss the applications of Transcranial Magnetic Stimulation in migraine and other headache disorders
	17.30-18.00	Detoxification procedure for medication-overuse Headache	Corina Macalintal (Philippines)	Discuss the role of detoxification procedure in medication overuse headache

Pre-congress symposium Challenges and opportunities of intravenous thrombolysis in acute ischemic stroke : A South East Asia Experience (Sponsored by Boehringer Ingelheim) 19 th October 2021, 18.30-19.15 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Nijasri C. Suwanwela (Thailand)	18.30-19.10	Cross country experience sharing 1. What is the current status of AIS care and the use of IV thrombolysis for eligible patients? 2. What are current local challenges in administering IV thrombolysis for AIS? 3. What are local opportunities in optimizing use of IV thrombolysis for AIS care	Khairul Azmi Ibrahim (Malaysia) Christina San Jose (Philippines) Thang Huy Nguyen (Vietnam) Deidre Anne De Silva (Singapore) DK Siti Nur Ashikin (Brunei)	Discuss the challenges and opportunities of intravenous thrombolysis in South East Asia

Session 1 : Plenary Sessions 1 Acute and long-COVID syndromes: South East Asian perspectives 20 th October 2021, 9.00-10.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Chong Tin Tan (Malaysia)	9.00-9.20	Acute neurological manifestations of COVID-19 infection	Ronald Dominic G. Jamora (Philippines)	Describe common acute neurological manifestations of COVID-19 infection in South East Asia
Supoch Tunlayadechanont (Thailand)	9.20-9.40	Long COVID syndrome: Neurological manifestations	Rizaldy Taslim Pinzon (Indonesia)	Describe neurological manifestations of long COVID syndrome in South East Asia
	9.40-10.00	A long road of COVID-19 infection	Thiravat Hemachudha (Thailand)	Discuss potential mechanisms for long-term sequelae of COVID-19 infection

Session 2 : Plenary Sessions 2 Applications of digital technology in neurological practice: South East Asian experiences 20 th October 2021, 10.00-11.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Suthipun Jitpimolmard (Thailand)	10.00-10.20	Digital technology primer for neurologists	Chaipat Chunharas (Thailand)	Understand basics of digital technologies and their possible applications in neurological disorders
Louis Tan Chew Seng (Singapore)	10.20-10.40	Building mHealth and digital ecosystems in neurology	Surat Tanprawate (Thailand)	Apply the concept from the Smile Migraine platform towards the universal mHealth and digital ecosystem in neurology
	10.40-11.00	Digital monitoring in neurological disorders	Wing-Lok Au (Singapore)	Discuss the role of digital monitoring in the management of neurological disorders and the implications for South East Asia

Session 3 : Teaching Course 1 Diagnostic pearls in neurological disorders 20 th October 2021, 11.00-12.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Somsak Laptikultham (Thailand)	11.00-11.30	Pearls in neurological examination	Thirugnanam Umapathi (Singapore)	Discuss tips and share experiences of examinations for diagnosis of neurological disorders
Yoshikazu Ugawa (Japan)	11.30-12.00	Diagnostic clinical signs in neurological disorders	Raymond L. Rosales (Philippines)	Discuss the utility of clinical signs in the diagnosis of neurological disorders

Session 4 : Teaching Course 2 Opening the ophthalmic black box: From cornea to cortex 20 th October 2021, 11.00-12.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Moon Keen Lee (Malaysia)	11.00-11.20	Optic neuritis	Panitha Jindahra (Thailand)	Demonstrate clinical examination techniques and discuss clinical relevance of optic neuritis in neurological disorders
Nguyen Thanh Binh (Vietnam)	11.20-11.40	Pupillary abnormalities	Vivek Lal (India)	Demonstrate clinical examination techniques and discuss clinical relevance of abnormal pupils in neurological disorders
	11.40-12.00	Abnormal eye movements	Jithanorm Suwantamee (Thailand)	Demonstrate clinical examination techniques and discuss clinical relevance of abnormal eye movements in neurological disorders

Session 5 : Symposium 1 Therapeutic plasma exchange in neurological diseases during the COVID-19 pandemic (SEATPEC) (Sponsored by Terumo) 20 th October 2021, 12.00-12.45 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Shanthi Viswanathan (Malaysia)	12.00-12.25	Indications and candidate selection	Natthapon Rattanathamsakul (Thailand)	Describe common indications and appropriate candidates for plasma exchange in neurological disorders
	12.25-12.45	Experience sharing in South East Asia	Shanthi Viswanathan (Malaysia)	Share clinical experience and management pitfalls of plasma exchange in South East Asia

Session 6 : Symposium 2 One-thousand centimetres alimentary journey in Parkinson's disease: A focus on three therapeutic strategies (Sponsored by Abbott) 20 th October 2021, 13.30-14.00 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
-	13.30-14.00	One-thousand centimetres alimentary journey in Parkinson's disease: A focus on three therapeutic strategies	Roongroj Bhidayasiri (Thailand)	Describe common gastrointestinal manifestations in Parkinson's disease and discuss evidence-based clinical management strategies

Session 7 : Parallel Session 1 COVID-19 vaccination: Practical recommendations in neurology 20 th October 2021, 14.00-15.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Hamidon Basri (Malaysia) hamidon@upm.edu.my	14.00-14.20	Immunity against SARS-CoV-2 in neurological patients	George F Gao (China)	Describe how immunity against SARS-CoV-2 can influence outcomes in neurological patients and those with immunosuppression
Somchit Voracht (Laos PDR)	14.20-14.40	Practical recommendations of COVID-19 vaccination in neurological patients	Metha Apiwattanakul (Thailand)	Provide practical recommendations of COVID-19 vaccination in patients with neurological disorders with an emphasis on risks and benefits
	14.40-15.00	Review of adverse events related to COVID-19 vaccination: Are they a concern?	Kevin Tan (Singapore)	Review and outline the management of neurological adverse events related to COVID-19 vaccination and how to address the public

Session 8 : Parallel Session 2 A survival guide in neurological emergencies: Review of practical guidelines 20 th October 2021, 14.00-15.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Artemio Roxas (Philippines)	14.00-14.20	Thrombolysis in acute stroke	Tasaneer Tantirittisak (Thailand)	Discuss updated guidelines on thrombolysis with experience sharing in South East Asia
Win Min Thit (Myanmar)	14.20-14.40	Status epilepticus	Marc Laurence L. Fernandez (Philippines)	Discuss updated guidelines on status epilepticus with experience sharing in South East Asia
	14.40-15.00	Neuromuscular emergencies	Kanokwan Boonyapisit (Thailand)	Discuss updated guidelines on neuromuscular emergencies with experience sharing in South East Asia

Session 9 : Symposium 3 Novel therapeutics in neuromyelitis optica spectrum disorder: From concept-to-practice (Sponsored by Roche) 20 th October 2021, 15.00-15.30 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Naraporn Prayoonwivat (Thailand)	15.00-15.30	Satralizumab in neuromyelitis optica spectrum disorder	Sasitorn Siritho (Thailand)	Discuss the mechanism and review clinical efficacy of satralizumab in neuromyelitis optica spectrum disorder

Session 10 : Symposium 4 Update in Endovascular thrombectomy (Sponsored by Medtronic) 20 th October 2021, 15.30-16.15 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Chesda Udommongkol (Thailand)	15.30-15.45	Vietnam experiences	Thang Huy Nguyen (Vietnam)	Discuss experiences of mechanical thrombectomy for treatment of acute ischaemic stroke in Vietnam
	15.45-16.00	Thai experiences	Thanaboon Worakijthamrongchai	Discuss experiences of mechanical thrombectomy for treatment of acute ischaemic stroke in Thailand
	16.00-16.15	Update on the latest clinical evidence	Andrew Demchuk (Canada)	Discuss the update on the latest clinical evidence on mechanical thrombectomy

Session 11 : Special lecture Advances in the treatment of Alzheimer's dementia 20 th October 2021, 16.15-16.45 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Yuthachai Likitchareon (Thailand)	16.15-16.45	Advances in the treatment of Alzheimer's dementia	Marwan Sabbagh (USA)	Discuss advances in clinical management of Alzheimer's dementia
	16.45-17.15	Primary prevention of Alzheimer's dementia	Prasert Bungerd (Thailand)	Discuss the evidences and experiences of primary prevention of Alzheimer's dementia

Session 12 : Plenary Sessions 3 Adopting telemedicine in neurology: Lessons from around the world 21 st October 2021, 8.00-9.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Hui Meng Chang (Singapore)	8.00-8.20	Tele-stroke	Nijasri C Suwanwela (Thailand)	Discuss the role and applications of tele-stroke in South East Asia
Hamidon Basri (Malaysia)	8.20-8.40	How to set-up teleclinics in neurology?	Sheila Martins (Brazil)	Describe the role and applications of teleclinics in neurology and how to implement these services
	8.40-9.00	Tele-education	Hoo Fan Kee (Malaysia)	Describe the role and applications of tele-education in South East Asia

Session 13 : Plenary Sessions 4 Past, present, future of neurodegenerative disorders in South East Asia 21 st October 2021, 9.00-10.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Ryosuke Takahashi (Japan)	9.00-9.20	Historical review of the original cases: Critique of clinical features	Pornpatr Dharmasaroja (Thailand)	Critique and highlight pertinent clinical features from original case reports that are relevant for diagnostic purposes
Christopher Chen Li-Hsian (Singapore)	9.20-9.40	Current diagnostic tools in motor neuron disorders	Ryuji Kaji (Japan)	Discuss the applications of available diagnostic tools in various forms of motor neuron disorders
	9.40-10.00	Neurodegenerative disorders: Emerging therapeutics	Eng King Tan (Singapore)	Discuss emerging therapeutics of neurodegenerative disorders on what may be applicable to South East Asia

Session 14 : Symposium 5 Targeted temperature management in neurology (Sponsored by Bard) 21 st October 2021, 10.00-10.30 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
-	10.00-10.30	Targeted temperature management in neurological disorders	Sombat Muengtawepongsa (Thailand)	Discuss the principles of targeted temperature management and outline clinical applications in neurology

Session 15 : Parallel Session 3 Secondary stroke prevention (Sponsored by Thai-Osuka) 21 st October 2021, 10.30-11.00 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Nijasri C Suwanwela (Thailand)	10.30-11.00	Secondary stroke prevention	Louis R. Caplan (USA)	Discuss the principle and the latest evidences of secondary stroke prevention.

Session 16 : Parallel Session 4 Immunomodulatory treatment in neuromuscular disorders 21 st October 2021, 10.30-11.00 (duration 30 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Rawiphan Wittoonpanich (Thailand)	10.30-11.00	Rational use of immunomodulatory treatment in neuromuscular disorders in South East Asia	Kongkiat Kulkantrakorn (Thailand)	Discuss rational use of immunomodulatory treatment in various neuromuscular disorders within South East Asia

Session 17 : Parallel Session 5 Adopting precision medicines in dementia 21 st October 2021, 11.00-12.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Prasert Boongird (Thailand)	11.00-11.20	Alzheimer's dementia	Nagaendran Kandiah (Singapore)	Discuss the role of precision medicine (e.g. genetic data, biomarkers) in the management of Alzheimer's disease dementia
Serge Gauthier (Canada)	11.20-11.40	Non-Alzheimer's dementia	Vorapun Senanarong (Thailand)	Discuss the role of precision medicine in the management of non-Alzheimer's dementia
	11.40-12.00	Imaging in dementia	Vincent Mok Chung Tong (Hong Kong)	Discuss the role of neuroimaging as part of precision medicine in management of dementia

Session 18 : Parallel Session 6 What is really practical for South East Asia ? 21 st October 2021, 11.00-12.00 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Supoch Tunlayadechanont (Thailand)	11.00-11.20	Genetic disorders in neurology	Teeratom Pulkas (Thailand)	Share experiences in genetic neurological disorders in South East Asia
Paulus Sugianto (Indonesia)	11.20-11.40	Neuro-infections	Chong Tin Tan (Malaysia)	Share experiences in neuro-infectious disorders in South East Asia
	11.40-12.00	Demyelinating diseases	Yeo Tianrong (Singapore)	Share experiences in demyelinating disorders in South East Asia

Session 19 : Symposium 6 Past, present and future of deep brain stimulation: Western and Asian perspectives (Sponsored by Medtronic) 21 st October 2021, 13.00-13.45 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Apichart Pisarnpong (Thailand)	13.00-13.25	Global experience	Sol DeJesus (USA)	Describe global experience on the new DBS technology (BrainSense™) in Parkinson's disease
	13.25-13.45	Asian experience	Onanong Phokaewvarangkul (Thailand)	Compare and contrast global literature with Asian experience on the new DBS technology (BrainSense™) in Parkinson's disease

Session 20 : Parallel Session 7 Common palliative care myths in neurological disorders 21 st October 2021, 13.45-14.45 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Myint Oo (Myanmar)	13.45-14.05	Principles of palliative care in neurological disorders	Prasert Assantachai (Thailand)	Discuss the principles of palliative care in neurological disorders and how cultural differences can influence its adoption
Paulus Anam Ong (Indonesia)	14.05-14.25	Experience sharing of palliative care in neurodegenerative disorders	Nortina Shahrizaila (Malaysia)	Share clinical experiences on how to integrate palliative care in current neurological practice
	14.25-14.45	Palliative care in neuro-oncology: Practical considerations	Sith Sathornsumetee (Thailand)	Discuss practical issues on palliative care management in neuro-oncology

Session 21 : Parallel Session 8 Management challenges in neurology 21 st October 2021, 13.45-14.45 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Pansiri Chairungsaris (Thailand)	13.45-14.15	Gait disorders	Pichet Termsarasab (Thailand)	Recognise and outline clinical management of common gait disorders
Banon Sukoandari (Indonesia)	14.15-14.45	Neuropsychiatric disorders	Annette Baustica (Philippines)	Recognise and outline clinical management of common neuropsychiatric disorders

Session 22 : Teaching Course 3 Challenges in neuroradiology 21 st October 2021, 14.45 – 15.45 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Sukalaya Lerdlum (Thailand)	14.45-15.05	Dementia	Orasa Chawalparit (Thailand) Chanon Ngamsombat (Thailand)	Demonstrate clinico-radiological correlations on various dementia syndromes
Nutchawan Jittapiromsak (Thailand)	15.05-15.25	Movement disorders	Supatporn Tepmongkol (Thailand) Nutchawan Jittapiromsak (Thailand)	Demonstrate clinico-radiological correlations on different movement disorder conditions
	15.25-15.45	Neuro-infectious disorders	Warinthorn Phuttharak (Thailand) Arunnit Boonrod (Thailand)	Demonstrate clinico-radiological correlations of common neuro-infectious disorders

Session 23 : Teaching Course 4 Video spot diagnosis in neurology 21 st October 2021, 14.45 – 15.45 (duration 60 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Cid Czarina E Diesta (Philippines)	14.45-15.05	Movement disorder	Pattamon Panyakaew (Thailand)	Demonstrate useful clinical signs that aid the diagnosis of movement disorder conditions
Ai Huey Tan (Malaysia)	15.05-15.25	Epilepsy	Yothin Chinvarun (Thailand)	Discuss pertinent semiology that aids the diagnosis of epileptic syndromes
	15.25-15.45	Neuromuscular and behavioral disorders	Ohnmar Ohnmar (Myanmar)	Demonstrate useful clinical signs that aid the diagnosis of neuromuscular disorders

Session 24 : Symposium 7 Updated science of migraine (Sponsored by Zuellig Pharma Ltd.) 21 st October 2021, 15.45-16.30 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Thanin Asawavichienjinda (Thailand)	15.45-16.05	Migraine pathophysiology: What's relevant to clinical practice?	Anan Srikietchachon (Thailand)	Discuss the pathophysiology of migraine with an emphasis on clinical translation
	16.05-16.30	Migraine stories: What do we hear from our patients?	Ravichankar V (India)	Share experiences on difficult migraine cases and identify 'point-of-care' management

Session 25 : Parallel Session 9 Clinical challenges in epilepsy: South East Asian perspectives 21 st October 2021, 16.30-17.15 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Kheng Seang Lim (Malaysia)	16.30-16.55	Medical management of difficult-to-treat epileptic syndromes	Somsak Tiamkao (Thailand)	Discuss and share experiences within South East Asia on medical management of difficult-to-treat epileptic syndromes
	16.55-17.15	Outcomes of epilepsy surgery in South East Asia: Efficacy vs. Challenges	Kheng Seang Lim (Malaysia)	Discuss outcomes and challenges of epilepsy surgery within South East Asia

Session 26 : Parallel Session 10 Common sleep symptomatology in neurological disorders: What neurologists should know? 21 st October 2021, 16.30-17.15 (duration 45 minutes)				
Chairs	Time	Presentation Titles	Faculty	Learning Objectives
Wattanachai Chotinaiwattarakul (Thailand)	16.30-16.55	Clinical approach and investigations	Zheyu Xu (Singapore)	Outline clinical approach and appropriate investigations of common sleep problems in neurological disorders
	16.55-17.15	Multi-disciplinary management: Where do neurologists fit in?	Jirada Sringean (Thailand)	Describe the role of neurologists in the clinical management of common sleep problems

Contents

ABSTRACT

P01	Acute Effect of Air Pollution on Ischemic Stroke and Hemorrhagic Stroke Admission: Time-Stratified Case-Crossover Study in Khon Kaen, Thailand ☆	2
P02	Predictors of Hospital Outcome among Patients with Posterior Reversible Encephalopathy Syndrome	4
P03	Factors Influencing Clinical Outcomes in Autoimmune Myopathy	6
P04	Predictors of 2-Year Seizure Free among the Patients with Cerebral Arteriovenous Malformation	8
P05	The Differences and Three-Year Survival of the Patients with Primary Central Nervous System Lymphoma with and without HIV Infection	10
P06	Predictors of Seizure in Patients with Cerebral Venous Thrombosis among Thai Population	12
P07	The Association between Developing Parkinson's Disease and β -Adrenoceptor Acting Agents Use: A Systematic Review and Meta-analysis	14
P08	Intravenous Thrombolysis in Hyperacute Stroke in Stroke Ready Hospitals without Neurologists: Beneficial Effects in Serial NIHSS and mRS Improvements ☆	16
P09	The Effect of Darkness on Gait Parameters in Patients with Parkinson's Disease	18
P10	A Clinical Score for Predicting In-Hospital Mortality and Clinical Outcomes of Status Epilepticus in Adults: The Comparative Retrospective Cohort Study	20
P11	Evaluation of Clinical Impact of Pharmacogenomics Testing for Carbamazepine Prescription	22
P12	Newly Diagnosed Neuromyelitis Optica Spectrum Disorders in Setting of Newly Diagnosed Human Immunodeficiency Virus Infection: First Thailand Report	24
P13	Spinal Cord Infarction Following Trans-arterial Chemoembolization of Hepatocellular Carcinoma: A Case Report	26
P14	Cost Effectiveness of Epilepsy Surgery in Drug-Resistant Epilepsy	28
P15	Evaluation of Motion Perception in Cognitive Impairment Using Rama Motion Perimetry	30
P16	Factors Affecting Epilepsy Surgery Outcomes and Post-Surgical Complications in Patients with Epilepsy in Resource-Limited Settings ☆	32
P17	Lymphomatosis Cerebri with Coexistent Anti-NMDA Receptor AntiBody: A Case Report	34
P18	The Correlation of Orthostatic Hypotension and Cognitive Dysfunction in Patients with Parkinson's Disease: A Cross-Sectional Comparative Study	36
P19	Metronidazole-induced Neurotoxicity: Case Illustration	38
P20	The New Multi-Textured Puzzles Improving Visuospatial Memory and Attention in MCI Patients	40
P21	Long Term Exposure of PM _{2.5} Components Air Pollution and Risk of Ischemic Stroke Admission in Thailand	42
P22	Progressive Dysarthria and Severe Limb Dystonia in ALS-FTD Associated with UBQLN2 Mutation: A Case Report	44
P23	Bihemiparesis and Multicranial Nerve Palsies as a Presentation of Brainstem Abscess in a Child: A Rare Case Report	46
P24	A Rare Cause of Ataxia with Spasticity: Not to be Missed!	48
P25	Familial Neuromyelitis Optica Spectrum Disorder: Systemic Review and Report of New Cases	50

P26	A Comparison of Clinical Characteristics of Neurosyphilis Between HIV Infected and Non-HIV Patients at Maharat Nakhon Ratchasima Hospital	52
P27	X-link Adrenoleukodystrophy Presented with Early Anterior and Posterior Visual Pathway Dysfunction: A Single Case Report	54
P28	Panautonomic Failure in a Patient with Primary Sjögren's Syndrome	56
P29	Facial Myositis as an Atypical Presentation in Anti-TIF1- γ Associated Myositis: A Case Report	58
P30	Osmotic Demyelination Syndrome after Liver Transplantation in Wilson's Disease	60
P31	Case Report of Sarcoidosis with Myelopathy after COVID-19 Vaccination	62
P32	Progressive Multifocal Leukoencephalopathy in an Immunocompetent Host: A Case Report	64
P33	Recurrent Headache and Abducens Nerve Palsy in a Man with Aspirin-Responsive Lymphocytic Hypophysitis	66
P34	Ischemic Stroke Associated with Invasive Fungal Sinusitis: A Case Report	68
P35	Autoimmune Glial Fibrillary Acidic Protein Astrocytopathy without Typical Hallmark Imaging Feature: A Single Case Report	70
P36	Five-Year Post Thymectomy Outcome as Evaluated by Dosage Requirement of Pyridostigmine, Prednisolone and Azathioprine between Thymomatous and Non-Thymomatous Myasthenia Gravis Patients ☆	72
P37	Effectiveness of Rivaroxaban Initiated within 48 Hours versus 7 Days after Ischemic Stroke due to Atrial Fibrillation on Stroke Prevention Detected by Magnetic Resonance Imaging: A Randomized Trial	74
P38	Meningioma Presenting as Rapidly Progressive Dementia and Visual Hallucination: A Case Report	76
P39	Paraneoplastic Neuromyelitis Optica Spectrum Disorder: Case Report and Systematic Review	78
P40	Is It the Vaccine? Case Reports and Systematic Review of Postvaccination Neuromyelitis Optica Spectrum Disorder	80
P41	A Quarter-Century Report on Siriraj Neuromyelitis Optica Spectrum Disorder Registry	82
P42	A Comparison Between Subjective and Objective Measurements of Spasticity in CNS Inflammatory Demyelinating Diseases Patients in Siriraj Hospital	84
P43	Predictors of Survival in Gliomas	86
P44	Ependymoma in Upper Spinal Cord Segments : A Rare Case Report	88
P45	Chemotherapy Induced Acute Cerebellar Syndrome: A Case Report	90
P46	Sleep Quality and Sleep Pattern among Residents and Its Relation to Anxiety and Depression during the Pandemic (COVID-19) in a Private Tertiary Hospital	92
P47	Clinical Features and Treatment Outcomes of Severe Strokes in Thailand: Real-World Practice in Hospitals Across Thailand	94
P48	Diagnostic Accuracy of Cerebral Peduncle and Middle Cerebellar Peduncle Widths in Differentiating Atypical Parkinsonian Syndromes from Parkinson's Disease	96
P49	Prediction of Post Stroke Cognitive Impairment in Patients with Mild Acute Ischemic Stroke by SIGNAL2 Score and Extracranial Internal Carotid Stenosis	98
P50	Studying the Prevalence of Mild Cognitive Impairment and Dementia in Thai Elderly High Experience Professional Mindfulness Practitioners	100

P51	Janus Kinase 1/2 Inhibition with Baricitinib is Not Only Ineffective but Possibly Harmful for Treatment of Anti-Signal Recognition Particle Immune-Mediated Necrotizing Myopathies	102
P52	Foville Syndrome in Hemorrhagic Stroke: A Neuroanatomical Review	104
P53	Anti N-Methyl-D-Aspartate Receptor Encephalitis: A Report from Myanmar	106
P54	The Relationship between Monocyte-to-HDL Cholesterol Ratio and Infectious Complication in Acute Ischemic Stroke Patient in Dr Sardjito General Hospital Yogyakarta	108
P55	The Efficacy of Platelet Rich Plasma on Optimization of Neurologic Function Improvement after Nerve Injury	110
P56	Machine Learning Models Predict the Spatial Representation of Visuospatial Attention	112
P57	Cerebral Venous Sinus Thrombosis in a Patient with Chronic Myeloid Leukemia : A Rare Case	114
P58	Cerebral Toxoplasmosis in Newly Diagnosed HIV Patients: A Case Report in Developing Country	116
P59	Hughes Syndrome Manifesting as Stroke, Dementia and Bihemiparesis: A Case Report to Distinguish from Chronic Inflammatory Demyelinating Polyneuropathy	118
P60	Case Series of Eosinophilic Meningitis and Their Etiologies	120
P61	Neutrophil-to-Lymphocyte Ratio and Leukocyte Count as a Simple Hematologic Predictor of Stroke Severity and Functional Outcome in Acute Ischemic Stroke Patients	122
P62	Impact of Coronavirus Disease 19 Pandemic on Neurology Care	124
P63	A 21-Years-Old Man with Cervical Pain and Collet-Sicard Syndrome after COVID-19 Vaccination: A Case Report	126
P64	Demography of Encephalopathy in Covid-19 Patients at Dr Sardjito General Hospital, Indonesia ☆	128
P65	Focus Group Discussion on Professional Caregivers for Adapting and Translating WHO's iSupport for Caregivers of People with Dementia	130
P66	Diagnostic Challenge in Artery of Percheron Infarction	132
P67	Scrub Typhus Case from Myanmar Complicated by Bilateral Frontoparietal Cortical Infarcts	134
P68	Insights into Patients' Concerns in Cervical Dystonia	136
P69	Does Needle Size Matter in Botulinum Toxin Injection? A Pilot Study of Microneedle in Patients with Hemifacial Spasm	138
P70	A 61-Year-Old Diabetic Man with Lumbar Radiculopathy and Deep Vein Thrombosis Showed Improvement Underwent Percutaneous Discectomy and Neuromodulation: A Case Report	140
P71	Chronic Lumbar Disc Herniation Accompanied by Acute Drop Foot Showed Improvement within Less Than 90 Minutes of Discectomy: A Case Report	142
P72	Pivotal Role for Parkinson's Disease Nurse Specialists in the Triage of Urgency During COVID-19 Lockdown: A Preliminary Analysis	144
P73	Association of Immune-Mediated Necrotizing Myopathy with COVID-19 Vaccine	146
P74	Acute Symptomatic Seizures in Renal and Hepatic Failures	148
P75	Benefit of Immunomodulation Therapy in Glutamic Acid Decarboxylase-65 Autoantibody Related Epilepsy	150
P76	Ischemic Strokes from Aortic Arch Atherosclerosis, The Prevalence in Suspected Embolic Stroke Population	152

P77	Experience in Immunotherapy for Neurological Diseases at Brunei Neuroscience, Stroke and Rehabilitation Centre During the Coronavirus Disease 2019 Pandemic	154
P78	The Profile of Clinical and Laboratory Findings of Hypoxic Encephalopathy and Septic Encephalopathy in Covid-19	156

.....

ORIGINAL ARTICLE

-	Role of Progesterone in Lennox-Gastaut Syndrome and Refractory Epilepsies: A Pilot Study	158
-	Efficacy and Safety of Non-Vitamin K Antagonist Oral Anticoagulants in Patients with Ischemic Stroke and Atrial Fibrillation Who Concurrently Take Antiepileptic Drugs	164
-	Prevalence of Acute Cardioembolic Stroke in Stroke Unit in Rajavithi Hospital	169
-	Development of the Thai Version of the Athens Insomnia Scale (AIS-Thai)	176

.....