



Scientific Program

June 9(Thu), 09:10-11:35 _ Room 1~2

Plenary Session : Step into the cure of epilepsy

Chairpersons: Ki Joong Kim(Seoul National University Children's Hospital, Korea)
Seung-Chyul Hong(Samsung Medical Center, Korea)

PL1 **Mechanism-based treatment for pediatric epilepsy**

Carl E. Stafstrom(The Johns Hopkins University School of Medicine, USA)

PL2 **TBA**

Hee Hwang()

PL3 **How artificial intelligence influence in epilepsy care?**

Andrea Bernasconi(The Neuro - McGill University, Canada)

Q&A

June 9(Thu), 11:40-12:45_ Room 1

Satellite Symposium 1 (Eisai) : Fycompa as an earlier choice

Chairpersons: Sang Ahm Lee(Asan Medical Center, Korea)
Sung Eun Kim(Inje University Haeundae Paik Hospital, Korea)

SS1-1 **Sustained long-term effect of fycompa as 1st add-on**

Sang Ahm Lee(Asan Medical Center, Korea)

SS1-2 **Evaluation of persistence and healthcare utilization in patients treated with AEDs**

Sang Kun Lee(Seoul National University Hospital, Korea)

SS1-3 **Fycompa as a mono treatment (panel discussion)**

Won Gu Lee(Kosin University College of Medicine, Korea)

SS1-4 **Recent AEDs as a neurosurgeon perspective**

Ji Hoon Phi(Seoul National University Children's Hospital, Korea)

Q&A

June 9(Thu), 11:40-12:45_ Room 2

Satellite Symposium 2 (Samjin) : Optimal therapeutic solution for epilepsy. Levetiracetam

Chairpersons: Dong Jin Shin(Gachon University Gil Medical Center, Korea)
Young Se Kwon(Inha University Hospital, Korea)

SS2-1 **Treatment of epilepsy and efficacy of Levetiracetam**

Kyung-II Park(Seoul National University Hospital Healthcare System Gangnam Center, Korea)

SS2-2 **The new option of Levetiracetam therapy. XR Tab.**

Jin-Sun Jun(Hallym University Kangnam Sacred Heart Hospital, Korea)

Q&A



June 9(Thu), 11:40-12:45_ Room 3

Satellite Symposium 3 (GSK) : New journal update & epilepsy in specific population

Chairpersons: Sung-Pa Park(Kyungpook National University Hospital, Korea)

Hyunwoo Nam(Boramae Medical Center, Korea)

SS3-1 **What is new about Lamotrigine?**

Dong Wook Kim(Konkuk University Medical Center, Korea)

SS3-2 **Points to look over in life stages of women with epilepsy: 여성의 생애 주기와 관련된 고려 사항(청소년기, 가임기, 폐경기, 노년기)**

Keun Tae Kim(Keimyung University Dongsan Medical Center, Korea)

SS3-3 **How to treat epilepsy in adults with mood and behavioral disorders**

Sung-Pa Park(Kyungpook National University Hospital, Korea)

SS3-4 **How comorbidities affect the treatment of epilepsy in elderly patients**

Yong Seo Koo(Asan Medical Center, Korea)

Q&A

June 9(Thu), 12:50-13:50_ Room 1

Oral Presentation 1

Chairpersons: Kyoo Ho Cho(Ewha Womans University Medical Center, Korea)

Sung Chul Lim(The Catholic University of Korea, ST. Vincent's Hospital, Korea)

OP1-1

OP1-2

OP1-3

OP1-4

OP1-5

OP1-6

June 9(Thu), 12:50-13:50_ Room 2

Oral Presentation 2

Chairpersons: Jon Soo Kim(Chungbuk National University Hospital, Korea)

Young-Mock Lee(Gangnam Severance Hospital, Korea)

OP2-1



OP2-2

OP2-3

OP2-4

OP2-5

OP2-6

June 9(Thu), 12:50-13:50_ Room 3

Oral Presentation 3

Chairpersons: Kwang Ki Kim(Dongguk University Ilsan Hospital, Korea)
Ji Eun Choi(Boramae Medical Center, Korea)

OP3-1

OP3-2

OP3-3

OP3-4

OP3-5

OP3-6

June 9(Thu), 14:00-15:25_ Room 1

Special Interest Group 1 : SEEG- practical issue

Chairpersons: Soo Chul Park(Yonsei University College of Medicine, Korea)
Dae-Won Seo(Samsung Medical Center, Korea)

SIG1-1 **Planning of SEEG**

Ki Hyeong Lee(AdventHealth Medical Group Epilepsy at Orlando, USA)

SIG1-2 **SEEG procedure without robotic platform**

Jong Hyun Kim(Korea University Guro Hospital, Korea)

SIG1-3 **SEEG with ROSA platform**

Seunghoon Lee(Samsung Medical Center, Korea)

SIG1-4 **Brain network for SEEG**

Ji Yeoun Yoo(Icahn School of Medicine at Mount Sinai, USA)

Q&A



June 9(Thu), 14:00-15:25_ Room 2

Parallel Symposium 1 : Proposed ILAE classification and definition of epilepsy syndromes

2021

Chairpersons: Byung In Lee(Cha University Ilsan Medical Center, Korea)

Ki Joong Kim(Seoul National University Children's Hospital, Korea)

PS1-1 **Epilepsy syndromes in the neonate and infant**

Young Ok Kim(Chonnam National University Medical School, Korea)

PS1-2 **Epilepsy syndromes with onset in childhood**

Yun Jeong Lee(Kyungpook National University Hospital, Korea)

PS1-3 **Epilepsy syndromes with onset at a variable age**

Hyerim Shin(Dankook University Hospital, Korea)

PS1-4 **Idiopathic generalized epilepsy syndromes**

Se Hee Kim(Severance Hospital, Yonsei University College of Medicine, Korea)

Q&A

June 9(Thu), 14:00-15:25_ Room 3

Parallel Symposium 2 : Tumor-related epilepsy

Chairpersons: Seok Ho Hong(Asan Medical Center, Korea)

Byung-chul Son(The Catholic University of Korea Seoul St.Mary's Hospital, Korea)

PS2-1 **Autoimmune epilepsy & tumors**

Jin-Sun Jun(Hallym University Kangnam Sacred Heart Hospital, Korea)

PS2-2 **Antiepileptic drug management in pediatric patients with brain tumor-related epilepsy**

Ara Ko(Korea Advanced Institute of Science and Technology, Korea)

PS2-3 **Antiepileptic drug management in adult patients with brain tumor-related epilepsy**

Soo Hwan Yim(GangNeung Asan Hospital, Korea)

PS2-4 **Neurosurgery in patients with brain tumor-related epilepsy**

Seok Ho Hong(Asan Medical Center, Korea)

Q&A

June 9(Thu), 15:40-16:45_ Room 1

Parallel Symposium 3 : Pathomechanism and treatment for channelopathy in genetic epilepsies

Chairpersons: Young Se Kwon(Inha University Hospital, Korea)

Sung Eun Kim(Inje University Haeundae Paik Hospital, Korea)

PS3-1 **Sodium channelopathy**

Hyo Jeong Kim(Gachon University Gil Medical Center, Korea)

PS3-2 **Potassium channelopathy**

Joo Hee Seo(AdventHealth Medical Group Epilepsy at Orlando, USA)



- PS3-3 **Calcium channelopathy**
Donghwa Yang(National Health Insurance Service Ilsan Hospital, Korea)
Q&A

June 9(Thu), 15:40-16:45_ Room 2

Parallel Symposium 4 : Neonatal seizures and epileptic encephalopathies

Chairpersons: Sang-Ook Nam(Pusan National University Yangsan Hospital, Korea)
Ji Eun Choi(Boramae Medical Center, Korea)

- PS4-1 **Genetics and phenotypes of neonatal epilepsy syndromes**
Soo Yeon Kim(Seoul National University Hospital, Korea)
- PS4-2 **Diagnosis of neonatal seizures**
Eun Hee Kim(Chungnam National University Sejong Hospital, Korea)
- PS4-3 **Management of acute symptomatic neonatal seizures**
Sun Ah Choi(Ewha Womans University Mokdong Hospital, Korea)
Q&A

June 9(Thu), 15:40-16:45_ Room 3

Special Interest Group 2 : Somatic mutations in epilepsy

Chairpersons: Soo Ahn Chae(Chung-Ang University Hospital, Korea)
Hong Ki Song(Kangdong Sacred Heart Hospital, Korea)

- SIG2-1 **mTOR dysregulation in epilepsy**
Ji-Hoon Na(Gangnam Severance Hospital, Korea)
- SIG2-2 **Somatic SLC35A2 mutations in epilepsy**
SongEe Youn(Myongji Hospital, Korea)
- SIG2-3 **Epilepsy and BRAF mutations**
Yun Jin Lee(Pusan National University Yangsan Hospital, Korea)
Q&A

June 9(Thu), 16:50-17:50_ Room 1

Video Session 1 : Surgical technique in epilepsy surgery

Chairpersons: Ha-Young Choi(Jeonbuk National University Hospital, Korea)
Jong Hyun Kim(Korea University Guro Hospital, Korea)

- VS1-1 **Selective amygdalohippocampectomy (trans-gyral)**
Takehiro Uda(Osaka Metropolitan University, Korea)
- VS1-2 **Selective amygdalohippocampectomy (transsylvian)**
Chun Kee Chung(Seoul National University Hospital, Korea)
- VS1-3 **Hemispherectomy or hemispherotomy**
TBA



June 9(Thu), 16:50-17:50_ Room 2

Video Session 2 : Ictal phenomenology in adults

Chairpersons: Min Kyung Chu(Severance Hospital, Korea)

Kwang Ki Kim(Dongguk University Ilsan Hospital, Korea)

VS2-1 **Ictal phenomenology in temporal lobe epilepsy**

Kyung Min Kim(Yonsei University College of Medicine, Korea)

VS2-2 **Ictal phenomenology in extra-temporal lobe epilepsy**

Jangsup Moon(Seoul National University Hospital, Korea)

VS2-3 **Non-epileptic paroxysmal sleep disorders**

Hyeyun Kim(Catholic Kwandong University International St.Mary's Hospital, Korea)

VS2-4 **PNES and other seizure mimicking disorders**

Juhee Oh(The Catholic University of Korea, ST. Vincent's Hospital, Korea)

June 9(Thu), 16:50-17:50_ Room 3

Video Session 3 : Special semiology & EEG in pediatric age

Chairpersons: Se Hee Kim(Severance Hospital, Yonsei University College of Medicine, Korea)

JeeSuk Yu(Dankook University Hospital, Korea)

VS3-1 **Neonatal seizures & NICU monitoring**

Heejeong Kang(Hallym University Dongtan Sacred Heart Hospital, Korea)

VS3-2 **Special epilepsy syndromes in infancy (dravet syndrome, infantile spasm, etc)**

Soo Yeon Kim(Seoul National University Hospital, Korea)

VS3-3 **Special epilepsy syndromes in childhood (LGS, CSWS, FIRES, Reflex epilepsy)**

Jiwon Lee(Samsung Medical Center, Korea)

June 10(Fri), 09:10-11:10_ Room 1~2

Presidential Symposium : Recent advances in epilepsy research

Chairpersons: Baik-Lin Eun(Korea University Guro Hospital, Korea)

Hoon-Chul Kang(Severance Children's Hospital, Korea)

PR1 **Epilepsy research; past, now and prospect**

Baik-Lin Eun(Korea University Guro Hospital, Korea)

PR2 **Oxidative stress in epilepsy**

Won-Joo Kim(Gangnam Severance Hospital, Korea)

PR3 **Utilizing animal models of infantile spasms to define the pathmechanism**

Mi-Sun Yum(Asan Medical Center, Korea)

PR4 **Progress in the molecular mechanisms of genetic epilepsies using patient-induced pluripotent stem cells**

Hoon-Chul Kang(Severance Children's Hospital, Korea)

PR5 **Beyond exome; WGS to reveal new genes and improves molecular diagnosis**

Jong-Won Kim(Samsung Medical Center, Korea)



PR6 **Nano-magnetogenetics for remote, non-invasive neuromodulation**

Minsuk Kwak(Yonsei University, Korea)

Wrap up

Q&A

June 10(Fri), 09:00-10:00_ Room 3

Special Session 1 (Korean) : Special session for technicians, trainees, and other health-care workers: fundamental of EEG

Chairpersons: Daeyoung Kim(Chungnam National University Sejong Hospital, Korea)

Ki-Young Jung(Seoul National University Hospital, Korea)

SP1-1 **Physiologic basis of EEG (EEG signal generation & propagation)**

Jun-Sang Sunwoo(Kangbuk Samsung Hospital, Korea)

SP1-2 **Normal EEG, artifacts and normal variant of EEG**

Jung-Ick Byun(KyungHee University Medical Center, Korea)

SP1-3 **Abnormal EEG**

Su-Hyun Han(Chung-Ang University Hospital, Korea)

SP1-4 **EEG description & report**

Daeyoung Kim(Chungnam National University Sejong Hospital, Korea)

June 10(Fri), 10:10-11:10_ Room 3

Special Session 2 : Special session for technicians, trainees, and other health-care workers: technical issues

Chairpersons: Sung Koo Kim(Hallym University Dongtan Sacred Heart Hospital, Korea)

Young-Soo Kim(Gyeongsang National University Hospital, Korea)

SP2-1 **Optimal recording of routine & ICU EEG in adult patients**

Jin Park(Ewha Womans University Seoul Hospital, Korea)

SP2-2 **Optimal recording of routine & ICU EEG in pediatric patients**

Han Som Choi(Ewha Womans University Seoul Hospital, Korea)

SP2-3 **Optimal long-term video-EEG monitoring for epilepsy patients**

Jee-Eun Yoon(Uijeongbu Eulji Medical Center, Korea)

SP2-4 **Intraoperative neuromonitoring in epilepsy surgery**

Min-Jee Kim(Asan Medical Center, Korea)

June 10(Fri), 11:20-12:25_ Room 1

Satellite Symposium 4 (UCB)

Chairpersons: Se-Jin Lee(Yeungnam University Medical Center, Korea)

Won Seop Kim(Chungbuk National University Hospital, Korea)

SS4-1 **How early can seizures happen and control? Infant seizure and Keppra®**



ByungChan Lim(Seoul National University Hospital, Korea)

SS4-2 **Keppra®: A reasonable option for seizure management in elderly patients**

Sang Kun Lee (Seoul National University Hospital, Korea)

Q&A

June 10(Fri), 11:20-12:25_ Room 2

Satellite Symposium 5 (SK)

Chairpersons: Kyoung Heo(Severance Hospital, Korea)

Yun Jung Hur(Inje University Haeundae Paik Hospital, Korea)

SS5-1 **The use of Lacosamide in special populations**

Kyoung Heo(Severance Hospital, Korea)

SS5-2 **Lacosamide in refractory convulsive status epilepticus**

Hyang Woon Lee(Ewha Womans University Medical Center, Korea)

SS5-3 **The efficacy and safety of Lacosamide in pediatric patients**

Yun Jung Hur(Inje University Haeundae Paik Hospital, Korea)

Q&A

June 10(Fri), 11:20-12:25_ Room 3

Satellite Symposium 6 (Whan In) : The novel AED, once daily eslicarbazepine acetate

Chairpersons: Jae-Moon Kim(Chungnam National University Sejong Hospital, Korea)

Sung Min Cho(Dongguk University Ilsan Hospital, Korea)

SS6-1 **The advantage of Eslicarbazepine acetate in newly diagnosis epilepsy**

Sung Chul Lim(The Catholic University of Korea, ST. Vincent's Hospital, Korea)

SS6-2 **Efficacy and safety of Eslicarbazepine acetate for pediatric patients**

Jon Soo Kim(Chungbuk National University Hospital, Korea)

SS6-3 **Clinical benenefit of Eslicarbazepine acetate as adjunctive therapy in patients with focal siezure**

Ji Hyun Kim(Korea University Guro Hospital, Korea)

Q&A

June 10(Fri), 12:30-13:30_ Room 1

Oral Presentation 4

Chairpersons: Sang Hyeon Chang(Daejeon Eulji Medical Center, Korea)

ByungChan Lim(Seoul National University Hospital, Korea)

OP4-1

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OP4-3



KEC 2022

제27차 대한뇌전증학회 국제학술대회
27th Korean Epilepsy Congress

Hybrid Conference



OP4-4

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OP4-6

June 10(Fri), 12:30-13:30_ Room 2

Oral Presentation 5

Chairpersons: Won Seok Jang(Severance Hospital, Korea)

Seo-Young Lee(Kangwon National University Hospital, Korea)

OP5-1

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June 10(Fri), 12:30-13:30_ Room 3

Oral Presentation 6

Chairpersons: Ok Joon Kim(Cha University Bundang Medical Center, Korea)

Yong Seo Koo(Asan Medical Center, Korea)

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June 10(Fri), 13:40-15:05_ Room 1



Parallel Symposium 5 : Safe and effective use of medicines in patients with epilepsy

Chairpersons: In Goo Lee(Konyang University Hospital, Korea)

Seung Bong Hong(Samsung Medical Center, Korea)

PS5-1 **Meeting the unmet needs in epilepsy care in 2022**

Steve S. Chung(University Arizona, Phoenix, USA)

PS5-2 **Everolimus for tuberous sclerosis**

Yong D. Park(Augusta University, USA)

PS5-3 **Cannabidiol for dravet syndrome and Lennox-Gastaut syndrome**

Sookyong Koh(University of Nebraska, USA)

PS5-4 **Antidepressants for people with epilepsy**

David Y. Ko(Loma Linda VA Medical Center, USA)

Q&A

June 10(Fri), 13:40-15:05_ Room 2

Parallel Symposium 6 : Brain connectivity

Chairpersons: Heung Dong Kim(Severance Children's Hospital, Korea)

Yeong In Kim(Catholic Kwandong University International St.Mary's Hospital, Korea)

PS-1 **Structural connectivity in epilepsy patients**

Hye-Jin Moon(Soonchunhyang University Hospital Bucheon, Korea)

PS-2 **Functional connectivity in epilepsy patients**

Kang Min Park(Inje University Haeundae Paik Hospital, Korea)

PS-3 **Graph theoretical feature of epilepsy**

Kyoo Ho Cho(Ewha Womans University Medical Center, Korea)

PS-4 **Application of connectivity in epilepsy surgery & neuromodulation**

Zhi-Ji Wang(Severance Children's Hospital, Yonsei University, Korea)

Q&A

June 10(Fri), 13:40-15:05_ Room 3

Social Part : 뇌전증에 대한 사회적 차별과 이에 대한 대안

Chairpersons : Won Chul Shin(Kyunghee University Hospital at Gangdong, Korea)

SO1 **학교에서의 차별**

SongEe Youn(Myongji Hospital, Korea)

SO2 **직업선택과 직장에서의 차별**

Jiyoung Kim(Pusan National University Hospital,School of Medicine, Pusan National University, Korea)

SO3 **뇌전증 장애 현황과 문제점**

Kyoung Jin Hwang(KyungHee University, Korea)

Panel Discussion

Su-Hyun Han(Chung-Ang University Hospital, Korea), Deog Su Kim(Korea Bureau for Epilepsy, Korea)

Q&A



June 10(Fri), 15:10-16:35_ Room 1

Parallel Symposium 7 : MEG

Chairpersons: Chun Kee Chung(Seoul National University Hospital, Korea)

Hyeonmi Park(Gachon University Gil Medical Center, Korea)

PS7-1 **Magnetoencephalography is warming up from liquid-helium to room temperature**

Nobukazu Nakasato(Tohoku Univeristy Hospital, Japan)

PS7-2 **Functional brain mapping using MEG**

Won Seok Chang(Yonsei university)

PS7-3 **MEG source estimation and localization**

Chun Kee Chung(Seoul National University Hospital)

PS7-4 **Role of MEG for epilepsy surgery**

Hiroshi Otsubo(The Hospital for Sick Children, Japan)

Q&A

June 10(Fri), 15:10-16:35_ Room 2

Parallel Symposium 8 : Important issues beyond seizure control in pediatric epilepsy

Chairpersons: Young-Hoon KimChung(Uijeongbu ST. Mary's Hospital, Korea)

EunSook Suh(Soonchunhyang University Hospital Seoul, Korea)

PS8-1 **Epilepsy care in patients with autism spectrum disorders**

Woojoong Kim(Seoul National University Children's Hospital, Korea)

PS8-2 **Neuropsychological evaluation in pediatric epilepsy**

Jin-Hwa Moon(Hanyang Universtiy School of Medicine, Korea)

PS8-3 **Sleep issues in pediatric epilepsy**

Seung Soo Kim(Soonchunhyang University Hospital Cheonan, Korea)

PS8-4 **Social issues in pediatric epilepsy**

Jung Sook Yeom(Gyeongsang National University Hospital, Korea)

Q&A

June 10(Fri), 15:10-16:35_ Room 3

Special Interest Group 3 : Special session for technicians, trainees, and other health-care workers: fundamental of EEG

Chairpersons: Seung-Ho Yang(The Catholic University of Korea, ST. Vincent's Hospital, Korea)

Hae Yu Kim(Inje University Haeundae Paik Hospital, Korea)

SIG3-1 **Electrical stimulation mapping of language area using Seeg**

TBA

SIG3-2 **Plasticity of the language cortex in epilepsy: evidence from electrical cortical stimulation study**

TBA

SIG3-3 **Intraoperative subcortical mapping for language area**

Edward Chang(University of California, San Francisco, USA)



SIG3-4 **Electrical stimulation for language mapping - basics and concepts**

Seok Ho Hong(Asan Medical Center, Korea)

Q&A

June 10(Fri), 16:40-18:05_ Room 1

Parallel Symposium 9 : Bidirectional relationships of sleep and epilepsy

Chairpersons: Kyu Young Chae(Cha University Bundang Medical Center, Korea)

Chang-Ho Yun(Seoul National University Bundang Hospital, Korea)

PS9-1 **Sleep-related epilepsies**

Seonkyeong Rhie(Cha University Bundang Medical Center, Korea)

PS9-2 **Sleep disorders in epilepsy (with ASMs)**

Kwang Ik Yang(Soonchunhyang University Hospital Cheonan, Korea)

PS9-3 **Relationships between epileptiform activity, sleep spindles, and ripples**

Hyeon Jin Kim(Korea University Ansan Hospital, Korea)

PS9-4 **Role of sleep in sudden unexpected death in epilepsy (SUDEP)**

Yun Ho Choi(The Catholic University of Korea, Incheon ST. Mary's Hospital, Korea)

Q&A

June 10(Fri), 16:40-18:05_ Room 2

Parallel Symposium 10 : Vascular lesion related epilepsies

Chairpersons: Seung-Chyul Hong(Samsung Medical Center, Korea)

Jin Woo Chang(Severance Hospital, Korea)

PS10-1 **Post stroke seizure and epilepsy : general review**

Eun Jeong Koh(Jeonbuk National University Hospital, Korea)

PS10-2 **Epilepsy in Sturge-Weber syndrome: clinical manifestations and outcome**

Kyu-Won Shim(Severance Children's Hospital, Korea)

PS10-3 **Treatment strategies of epilepsy in cerebral cavernous malformations**

Eun Jung Lee(Seoul National University Hospital, Korea)

PS10-4 **Multimodal approaches to epilepsy associated with cerebral arteriovenous malformations**

Myung Ji Kim(Korea University Medical Center, Ansan Hospital, Korea)

Q&A

June 10(Fri), 16:40-18:05_ Room 3

Special Interest Group 4 : Seizure detection and forecasting using wearable devices

Chairpersons: Byung Ho Cha(Wonju Severance Christian Hospital, Korea)

Ji-Eun Kim(Daegu Catholic Univ. Medical Center, Korea)

SIG4-1 **Seizure detection and forecasting: introduction**

Dae-Won Seo(Samsung Medical Center, Korea)



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SIG4-2 **Wearable devices for seizure detection**

Hunmin Kim(Seoul National University Bundang Hospital, Korea)

SIG4-3 **Multimodal wearable seizure detection and forecasting: Pilot study**

Young Jun Ko(Chung-Ang University Gwang-Myeong Hospital, Korea)

SIG4-4 **Machine learning for seizure detection and forecasting**

Tae-Joon Kim(Ajou University School of Medicine, Korea)

Q&A