

ANNUAL CONFERENCE OF THE ISRAELI LEAGUE AGAINST EPILEPSY



PROGRAM

29-30 March, 2022
Dan Hotel, Tel Aviv, Israel

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SCIENTIFIC PROGRAM



TUESDAY, MARCH 29, 2022

08:30 *Registration and coffee*

08:55 - 11:15

OPENING SESSION I

08:55 WELCOME AND OPENING REMARKS

Bruria Ben-Zeev, President, Israeli League Against Epilepsy

09:00 *Invited Guest Lecture*

NOVEL SURGICAL APPROACHES FOR CHILDHOOD EPILEPSY

George M. Ibrahim, Pediatric Neurosurgery, The Hospital for Sick Children;
Dept. of Surgery, University of Toronto, Canada

09:45 NEUROIMAGING AND EPILEPSY

Orna Aizenstein, Imaging Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

10:15 GENETICS OF EPILEPSY - PRACTICAL CURRENT AND FUTURE APPLICATIONS

Bruria Ben-Zeev, Pediatric Neurology, Sfara Ped Hospital, Sheba Medical Center, Ramat Gan,
Israel

10:45 THE GOOD, THE BAD AND THE UGLY - IN SEARCH OF NEW ANTISEIZURE MEDICATIONS

Sara Eyal, Institute for Drug Research, School of Pharmacy, The Hebrew University in
Jerusalem, Jerusalem, Israel

11:15 *Coffee break*

11:45 - 13:45

SESSION I

11:45 *Sponsored by Medtronic*

VISUALASE MR GUIDED LASER ABLATION FOR EPILEPTOGENIC FOCI

Ido Strauss, Functional Neurosurgery Unit, Neurosurgical Dept., Tel Aviv Sourasky Medical
Center, Tel Aviv, Israel

12:15 *Sponsored by Medison*

FENFLURAMINE - MODE OF ACTION, EFFICACY& CLINICAL INDICATIONS FOR THE
TREATMENT OF EPILEPSY

Shimrit Uliel-Sibony, Child Neurology and Developmental Unit, Dana-Dwek Children's
Hospital, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel



SCIENTIFIC PROGRAM (cont.)

TUESDAY, MARCH 29, 2022

11:45 - 13:45

SESSION I (cont.)

12:45 RESISTANCE!!!

THE INTERPLAY BETWEEN TREATMENT RESISTANT EPILEPSY AND TREATMENT RESISTANT DEPRESSION. WHAT HAVE WE LEARNED FROM VAGAL NERVE STIMULATION (VNS), AND WHERE CAN WE GO FROM HERE

Yoav Domany

Psychiatry C, and head of the Unit for advanced treatments for depression. Sheba, Tel-Hasomer, Israel

13:15 ***Sponsored by Neopharm***

SHARING BEST PRACTICE WITH BRIVARACETAM IN REAL WORLD SETTING

Pavel Klein, Mid-Atlantic Epilepsy & Sleep Center, Bethesda, Maryland, USA

13:45 *Lunch break and end of Day's Sessions*

WEDNESDAY, MARCH 30, 2022

08:00 *Registration, coffee and visit the exhibition*

08:30 - 09:30

OPENING SESSION II

08:30 WELCOME AND OPENING REMARKS

Bruria Ben-Zeev, President, Israeli League Against Epilepsy

08:35 ANNUAL REPORT OF THE ISRAELI LEAGUE AGAINST EPILEPSY

Meir Bialer, Secretary and Treasurer, International League Against Epilepsy

08:40 THE ISRAELI ASSOCIATION OF EPILEPSY PATIENTS - WORK PLAN FOR 2022

Anat Goren, Chairperson, EYAL ISRAELI EPILEPSY ASSOCIATION

08:50 *AWARD PRESENTATION*

Presented to Ilan Blatt by Nicola Maggio

Dept. of Neurology, Chaim Sheba Medical Center, Tel Hashomer, Ramat Gan, Israel

SCIENTIFIC PROGRAM (cont.)



WEDNESDAY, MARCH 30, 2022

08:30 - 09:30

OPENING SESSION II (cont.)

08:55 **Invited Talk**

ASM WITHDRAWAL IN THE WELL-CONTROLLED PATIENT: WHEN DO THE BENEFITS
OUTWEIGH THE RISKS

Ilan Blatt, Dept. of Neurology, Chaim Sheba Medical Center, Tel Hashomer, Ramat Gan, Israel

09:25 AWARD PRESENTATION

Presented to Israel Matot by Tal Gilboa

Child Neurology Unit, Epilepsy Center, Hadassah Medical Center, Jerusalem, Israel

09:30 - 10:10

SESSION II - ABSTRACT PRESENTATIONS

Chairpersons: **Felix Benninger**, Israel
Michal Tzadok, Israel

09:30 EPILEPSY FOLLOWING A FIRST SEIZURE - NOVEL EEG BIOMARKERS

Oded Shor¹, Daniel Zelig², Ilan Goldberg³, Dan Z Milikovsky⁴, Johnathan Ofer⁵, Hamsa Imtiaz⁶,
Alon Friedman^{6,2}, Felix Benninger^{7,4,1}

¹Felsenstein Medical Research Institute, Rabin Medical Center, Petach Tikva, Israel; ²Depts. of Physiology and Cell Biology, Cognitive and Brain Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel; ³Neurology, Rabin Medical Center, Petach Tikva, Israel; ⁴Sackler Faculty of Medicine, University of Tel Aviv, Tel Aviv, Israel; ⁵Depts. of Physiology and Cell Biology, Ben-Gurion University of the Negev, Beer Sheva, Israel; ⁶Dept. of Medical Neuroscience, Dalhousie University, Halifax, Canada; ⁷Neurology, Rabin Medical Center, Beilinson Hospital, Petach Tikva, Israel

09:42 ASD AND ELECTROLYTE DISTURBANCE - SINGLE CENTER STUDY

Alon Doron¹, Nir Hersh^{2,1}, Bronya Calvarysky³, Dana Yelin⁴, Oded Shor⁵, Felix Benninger^{6,7,5}

¹Neurology, Rabin Medical Center, Petach Tikva, ²Neurology Unit, Sanz Medical Center, Laniado Hospital, Netanya; ³Pharmacy Services, Rabin Medical Center, Petach Tikva, ⁴Infectious Disease Unit, Rabin Medical Center, Petach Tikva; ⁵Felsenstein Medical Research Institute, Rabin Medical Center, Petach Tikva; ⁶Neurology, Rabin Medical Center, Beilinson Hospital, Petach Tikva; ⁷Sackler Faculty of Medicine, University of Tel Aviv, Tel Aviv, Israel

SCIENTIFIC PROGRAM (cont.)



WEDNESDAY, MARCH 30, 2022

09:30 - 10:10

SESSION II - ABSTRACT PRESENTATIONS (cont.)

- 09:54 HOME-EEG LONG TERM MONITORING VERSUS IN HOUSE LONG TERM EEG MONITORING (HOME LTM)
Yael Michaeli^{1,2}, Lubov Blumkin^{2,3}, Mira Ginsberg², Ricki Sokol², Ronen Hadi-Cohen², Naama Yosha-Orpaz², Taly Lerman-Sagie^{1,2,3}, Andrea Nissenkorn^{1,2,3}
¹Pediatric Epilepsy Clinic, Edith Wolfson Medical Center, Holon; ²Pediatric Neurology Unit, Edith Wolfson Medical Center, Holon, Israel; ³Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
- 10:04 PSG WITH 10-20 EEG MONTAGE CONTRIBUTION TO THE MANAGEMENT OF EPILEPSY PATIENTS
Danielle Wasserman^{1,2,3}, Deniz Elmali⁴
¹Neurology Dept., Shaare Tzedek, Jerusalem, Israel ; ²Sleep Disorders Centre, Sourasky Medical Centre, Tel Aviv, Israel ; ³Sleep Disorders Centre, Guy's Hospital, London, UK ;⁴Dept. of Neurology, Guy's and St Thomas, London, UK
- 10:10 *Coffee and visit the exhibition*
-

10:40 - 12:50

SESSION III

Chairpersons: **Firas Fahoum**, Israel
Tal Gilboa, Israel

- 10:40 **Invited Guest Lecture**
BRAIN CONNECTOMICS INFORMING TREATMENT OF EPILEPSY AND EPILEPSY-RELATED COMORBIDITIES
George M. Ibrahim, Pediatric Neurosurgery, The Hospital for Sick Children; Dept. of Surgery, University of Toronto, Canada

ABSTRACT PRESENTATIONS

- 11:25 FIRST ISRAELI SEEG GUIDED RADIOFREQUENCY SERIES FOR REFRACTORY EPILEPSY IN ADULTS AND PEDIATRICS
Jehuda Sepkuty¹, Maya Weinstein², Nir Getter³, Itzhak Fried^{4,5}, **Mikael Levy**
¹Dept. of Neurology, Johns Hopkins University School of Medicine, Baltimore MD, USA; ²Dept. of Psychology, Bar-Ilan University, Ramat Gan, Israel; ³Dept. of Psychology, The Open University, Raanana, Israel; ⁴Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel; ⁵Dept. of Neurosurgery, University of California, Los Angeles, California, USA
- 11:37 EPILEPSY SURGERY IN INFANTS UP TO THREE MONTHS OF AGE: SAFETY, FEASIBILITY AND OUTCOMES: A MULTICENTER, MULTINATIONAL STUDY
Jonathan Roth¹, Shlomi Constantini¹, Shimrit Uliel-Sibony²
¹Pediatric Neurosurgery, Tel Aviv Medical Center, Tel Aviv; ²Pediatric Neurology, Dana Children's Hospital, Tel Aviv Medical Center, Tel Aviv, Israel

SCIENTIFIC PROGRAM (cont.)



WEDNESDAY, MARCH 30, 2022

10:40 - 12:50

SESSION III (cont.)

- 11:49 ROBOT ASSISTED NEUROSURGICAL INTERVENTIONS FOR INTRACTABLE EPILEPSY
Ido Strauss¹, Lilach Goldstein², Firas Fahoum²
¹Dept. of Neurosurgery, ²Dept. of Neurology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 11:59 THE ADDED VALUE OF CORPUS CALLOSOTOMY FOLLOWING VAGAL NERVE STIMULATOR IMPLANTATION IN CHILDREN WITH LENNOX-GASTAUT SYNDROME
Jonathan Roth¹, Lottem Bergman¹, Uri Kramer², Itzhak Fried³, Shimrit Uliel-Sibony²
¹Pediatric Neurosurgery, ²Pediatric Epilepsy Unit, Dana Children's Hospital, ³Dept. of Neurosurgery, Dana Children's Hospital, Tel Aviv Medical Center, Tel Aviv, Israel
- 12:11 TREATMENT-RESPONSE AND LONG-TERM OUTCOME IN PATIENTS WITH ELECTRICAL STATUS EPILEPTICUS IN SLEEP (ESES)
Hadar Weisman¹, Michal Tzadok², Gali Heimer², Efrat Zohar-Dayan², Omer Bar-Yosef², Bruria Ben-Zeev²
¹Pediatrics, ²Pediatric Neurology Institute, Chaim Sheba medical center, Ramat Gan, Israel
- 12:23 CACNA1A - RELATED PEDIATRIC EPILEPSY AN INTERNATIONAL MULTICENTER RETROSPECTIVE STUDY PRELIMINARY RESULTS
Yael Michaeli^{1,2}, Michael Schnapper⁴, Keren Yosovich⁶, Andrea Nemeth⁷, Ginerva Zanni⁸, Deborah A Sival⁹, Alfons Macaya¹⁰, Tal Gilboa¹¹, Inbar Hartmann¹², Iris Noyman¹³, Roni Cohen¹⁴, Ilan Linder¹⁵, Lilach Shemer Meiri¹⁶, Stephanie Libzon^{5,3}, Andreea Nissenkorn^{1,2,3}, Dorit Lev^{3,6}, Ehud Bann^{3,6}, Tamar Gur-Hartman^{5,3}, Tally Lerman-Sagie^{1,2,3}, Lubov Blumkin^{2,3,5}
Pediatric Epilepsy Clinic, Wolfson Medical Center, Holon, Israel, Pediatric Neurology Unit, Wolfson Medical Center, Holon, Israel², Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel³, Pediatric Department, Wolfson Medical Center, Holon, Israel⁴, Pediatric Movement Disorder Clinic, Wolfson Medical Center, Holon, Israel⁵, Institute of Medical Genetics, The Edith Wolfson Medical Center, Holon Israel⁶, Nuffield Department of Clinical Neurosciences, University of Oxford⁷, Unit of Neuromuscular and Neurodegenerative Disorders, Department of Neurosciences, IRCCS Bambino Gesù, Children's Hospital, Rome, Italy⁸, Dept. of Pediatrics, University Medical Center Groningen, University of Groningen, Groningen, the Netherlands⁹, Vall d'Hebron Research Institute, Pediatric Neurology Research Group, Autonomous University of Barcelona, Barcelona, Spain¹⁰, Child Neurology Unit, Epilepsy Center, Hadassah Medical Center, Jerusalem, Israel¹¹, Dept. of Pediatric Neurology and Epilepsy, Shamir (Assaf Harofe) Medical Center, Zrifin, Israel¹², Pediatric Neurology Unit, Soroka University Medical Center, Beer-Sheva, Israel¹³, Institute of Neurology at Schneider Children's Medical Center of Israel, Petach Tikva, Israel¹⁴, Pediatric Epilepsy & Neurology Service, Barzilai University Medical Center, Ashqelon, Israel¹⁵, Pediatric Neurology Unit, Carmel Medical Center, Haifa, Israel¹⁶

SCIENTIFIC PROGRAM (cont.)



WEDNESDAY, MARCH 30, 2022

10:40 - 12:50

SESSION III (cont.)

12:35 IS ALTERED GAIT A POTENTIAL BIOMARKER FOR DRUG RESISTANCE IN JUVENILE MYOCLONIC EPILEPSY?

Firas Fahoum^{1,2}, Mor Yam^{2,3}, Sigal Glatt², Lilach Goldstein¹, Anat Mirelman^{1,2,3,4}, Inbal Maidan^{1,2,3,4}

¹Neurological Institute, Tel Aviv Sourasky Medical Center, Tel Aviv, ²Neurology and Neurosurgery, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ³Laboratory of Early Markers of Neurodegeneration, Tel Aviv Sourasky Medical Center, Tel Aviv, ⁴Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel

12:45 COVID-19 PFIZER BIONTECH MRNA VACCINE AND THE INCIDENCE OF SEIZURES

Alon Doron¹, Tamar Eviatar-Ribak², Aya Vituri³, Shimon Shahar³, Firas Fahoum^{1,2}, **Lilach Goldstein**²

¹Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ²EEG and Epilepsy unit, Neurology Dept., Tel Aviv Sourasky Medical Center, Tel Aviv, ³Center for AI and Data Science, Tel Aviv University, Tel Aviv, Israel

12:50 *Lunch break*

14:00 - 15:00

SESSION IV

Chairpersons: **Dror Kraus**, Israel
Yitzhak Schiller, Israel

ABSTRACT PRESENTATIONS

14:00 NRF2 ACTIVATION SUPPRESSES THE DEVELOPMENT OF EPILEPSY

Sereen Sandouka¹, Aseel Saadi¹, Ety Grad¹, Tawfeeq Shekh-Ahmad¹,

Tawfeeq Shekh-Ahmad¹

¹Dept. of Pharmaceutics, Hebrew University of Jerusalem, Jerusalem, Israel

14:12 USING DEEP LEARNING TO PREDICT EPILEPTIC SEIZURES AND SLEEP STAGES

Dino Levy¹, Michal Tzadok²

¹Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, ²Pediatric Neurology Institute, Sheba Medical Center, Ramat Gan, Israel

14:24 DONEPEZIL AS TARGETED THERAPY FOR GAIN-OF-FUNCTION VARIANTS IN KCNQ2/KCNQ3 ENCEPHALOPATHY

Andreea Nissenkorn¹, Lior Bar², Tally Lerman-Sagie³, Bernard Attali⁴

¹Pediatric neurology, Wolfson, Hod Ha Sharon, ²Physiology Dept., Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; ³Pediatric Neurology, Wolfson, Holon, ⁴Physiology Dept., Sackler School of Medicine, Tel Aviv University, Israel

SCIENTIFIC PROGRAM (cont.)



WEDNESDAY, MARCH 30, 2022

14:00 - 15:00

SESSION IV (cont.)

14:34 EFFICACY AND TOLERABILITY OF ADD-ON CANNABIS TREATMENT FOR ADULT DRUG-RESISTANT EPILEPSY PATIENTS: EXPERIENCE FROM A SINGLE TERTIARY EPILEPSY CENTER IN ISRAEL

Itai Loushy¹, Sahar Hajyahia², **Thaera Arafat**¹, Tamar Eviatar-Ribak¹, Sara Eyal², Firas Fahoum^{1,3}

¹Epilepsy and EEG Unit, Neurological Institute, Tel-Aviv Sourasky Medical Center, Tel Aviv,

²Institute for Drug Research, Faculty of Medicine, Hebrew University of Jerusalem,

Ein Kerem, Jerusalem, ³Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

14:46 PREDICTIVE INDICES FOR EFFICACY OF GENETIC PANELS IN PEDIATRIC EPILEPSY – A RETROSPECTIVE COHORT STUDY

Sapir Glazer Levavi¹, Michal Tzadok^{1,2}, Omer Bar Yosef^{1,2}, Bruria Ben Zeev^{1,2}, Gali Heimer^{1,2}

¹Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, ²Dept. of Pediatric Neurology,

Safra Children's Hospital at Sheba Medical Center, Ramat Gan, Israel

15:00 *Coffee and visit the exhibition*

15:30 - 16:30

SESSION V

Chairpersons: **Lilach Goldstein**, Israel
Andreea Nissenkorn, Israel

ABSTRACT PRESENTATIONS

15:30 EPILEPTIC VS. PSYCHOGENIC NONEPILEPTIC SEIZURES: A VIDEO-BASED SURVEY BEFORE AND AFTER TRAINING ON THE DYNAMIC INDEX TOOL

Linor Avraham Gil¹, Danielle Wasserman², Moshe Herskovitz^{1,3}

¹Faculty of Medicine, Technion, Haifa, ²Neurology Dept., Shaare Zedek Medical Center, Jerusalem, ³Neurology Dept., Rambam Health Care Campus, Haifa, Israel

15:42 PREPARATORY BEHAVIOR AND DAILY TEMPORAL CHANGES IN PNES (PSYCHOGENIC NON EPILEPTIC) ATTACKS, AS COMPARED WITH PATIENTS WITH ES (EPILEPTIC) ATTACKS BASED ON VIDEO EEG

Galit Schneider¹, Lera Levin², Moshe Herskovitz^{3,1}

¹Medicine, Technion, Haifa, ²Psychiatry, Rambam Medical Center, Haifa, ³Neurology, Rambam Medical Center, Haifa, Israel

15:54 SSPE PRESENTING AS MYOCLONIC ASTATIC EPILEPSY

Machmud Shalbi¹, Adi Aran², Noa Bar Noy², Omer Bar Yosef¹, Michal Tzadok¹, Bruria Ben Zeev¹

¹Pediatric Neurology, Chaim Sheba Medical Center, Ramat Gan, ²Pediatric Neurology, Shaarey Zedek Medical Center, Jerusalem, Israel



SCIENTIFIC PROGRAM (cont.)

WEDNESDAY, MARCH 30, 2022

15:30 - 16:30

SESSION V (cont.)

- 16:04 RETHINKING FIRES - ARE WE MISSING THE SOURCE OF THE FLAMES?
Leo Arkush¹, Andreea Nissenkorn², Bruria Ben Zeev¹, Michal Tzadok¹
¹Pediatric Neurology Unit, Chaim Sheba Medical Center, Ramat Gan, ²Pediatric Neurology Unit, Wolfson Medical Center, Holon, Israel
- 16:14 EPIDIOLEX IN THE TREATMENT OF KCNQ2 EPILEPTIC ENCEPHALOPATHY
Dekel Avital, Jacob Bistritzer, Iris Noyman
Pediatric Neurology Unit, Soroka Medical Center, Beer Sheva, Israel
- 16:20 Best Paper Award
- 16:30 End of Day's Sessions