

Annual Meeting of the Israeli Neurosurgical Society

May 15-13, 2026 | Galilion Hotel, Israel

www.israelneurosurgery.com

Scientific Program

Wednesday, May 13, 2026

13:00 *Registration, Light Lunch and Visit the Exhibition*

13:30-13:50 OPENING REMARKS

Mony Benifla, President, Israeli Neurosurgical Society

Annual Report

Audit of Neurosurgery and Neurosurgeons in Israel - Current State and Trends

Iddo Paldor, Secretary, Israeli Neurosurgical Society

Financial Report

Ido Strauss, Treasurer, Israeli Neurosurgical Society

13:50-15:20 SESSION I - TRAUMA

Chairs: **Elad Avraham**, Israel
Nevo Margalit, Israel

FREE PAPERS

13:50 Penetrating Head Injuries in Wartime: Interim Analysis and Early Insights from the First Months of the Israel-Gaza Conflict
Elad Avraham, Israel Melamed
Dept. of Neurosurgery, Soroka Medical Center, Beer Sheva, Israel

13:57 Venous Outflow Resistance in Elevated ICP - an Important and Overlooked Parameter
Guy Rosenthal¹, Yuliya Zadka², Ofer Barnea²
¹Dept. of Neurosurgery, Hadassah-Hebrew University Medical Center, ²Dept. of Bioengineering, Tel Aviv University, Israel

14:04 Discharge Outcomes Following Prehospital Administration of Tranexamic Acid in Adults with Combat-Related Head Injury
Amit Rimon^{1,2}, Meir Schechter^{1,2}, Raquel C. Gardner³, Noa Sofer¹, Irina Radomislensky^{1,4}, Israel Trauma Group⁵, Roy Nadler¹, Cole D. Bendor¹, Danielle Akler¹, Tomer Talmy^{1,2,4,5}
¹Israel Defense Forces, Surgeon General Headquarters, Israel Defense Forces Medical Corps, Tel Hashomer, Ramat Gan, ²Dept. of Military Medicine, Faculty of Medicine, Hebrew University, Jerusalem, ³Joseph Sagol Neuroscience Center, Sheba Medical Center, Ramat Gan, ⁴The Gertner Institute for Epidemiology & Health Policy Research, Sheba Medical Center, Ramat Gan, ⁵Division of Anesthesia, Intensive Care & Pain Management, Tel-Aviv Medical Center, Tel-Aviv, Israel affiliated with the Gray Faculty of Medicine and Health Sciences, Tel Aviv University, Israel





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Wednesday, May 13, 2026 (cont.)

13:50-15:20 SESSION I - TRAUMA (cont.)

FREE PAPERS (cont.)

- 14:11 The Role of CTV in Children with Mild Head Injury and Isolated Linear Skull Fractures Overlying Dural Venous Sinuses
Lottem Bergman¹, Segev Gabay¹, **Omer Harnof¹**, Jonathan Roth^{1,2}
¹Dept. of Pediatric Neurosurgery, Dana Children's Hospital Tel Aviv Sourasky University Medical Center, Tel Aviv, ²Tel Aviv University, Tel Aviv, Israel
- 14:18 The Brain-Abdomen-Kidney Axis: Real-Time Interactions Between ICP, IAP, and Urine Output
Stefan Mausbach¹, Anas Bachar², Roni Eichel², Nevo Margalit³
¹Neurocritical Care, ²Neurology, ³Neurosurgery, Shaare Zedek Medical Center, Israel
- 14:25 Use of Oxygen Therapies In the Management of Postoperative Pneumocephalus: A Systematic Review
Yevgeny Karepov¹, Mihir H. Majeethia², Nishant K Soni², Munashe Veremu¹, Alexandra Lisitsyna¹, Youssef Chedid¹, Matthew Kingham¹, Conor S Gillespie¹, William H Cook¹, George Brown¹
¹Dept. of Clinical Neurosciences, Addenbrooke's Hospital, Cambridge, ²Leicester Medical School, University of Leicester, UK
- 14:32 When Post-Craniotomy Headache Is Not "Just a Headache": Identifying and Treating Occipital Neuralgia
Sami Heymann, Guy Rosenthal, Jose E Cohen, Andres Vargas, Moatasem Shweiki, Zvi Israel
Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, Israel
- 14:39 Initial Clinical Experience with a 3-Dimensional Camera-Based Image-Guidance System for Open Cranial Surgery
Samuel Moscovici, Stephany Morales Viquez, Guy Rosenthal
Dept. of Neurosurgery, Hadassah-Hebrew University Medical Center, Jerusalem, Israel
- 14:46 Discussion





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13:50-15:20 SESSION I - TRAUMA (cont.)

FLASH TALKS

- 15:00 Initial Multicenter Surgical Experience with Responsive Neurostimulation (RNS) for Intractable Epilepsy: A Three-Patient Case Series
Abu Husen Raslan¹, Sami Heymann¹, Lilach Goldstein², Shimrit Uliel Sibony³, Firas Fahoum², Jonathan Roth⁴, Dana Ekstein⁵, Zvi Israel¹, Ido Strauss⁴
¹Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, ²Epilepsy Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, ³Pediatric Epilepsy Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, ⁴Dept. of Neurosurgery, Tel Aviv Sourasky Medical Center, Tel Aviv, ⁵Dept. of Neurology, Hadassah Medical Center, Jerusalem, Israel
- 15:03 A Case Study of Palido Thalamic Tract Focused Ultrasound (FUS) Treatment 12 Years after Successful Ventral Intermediate Nucleus (VIM) FUS Treatment in Parkinson's Disease Patient
Alon Sinai¹, Ilana Schlesinger², Maria Nassar², Noam Shalem¹, Lior Lev Tov¹
¹Dept. of Neurosurgery, ²Dept. of Neurology, Rambam Health Care Campus, Haifa, Israel
- 15:06 Minimal Invasive, Robotic Radiofrequency Ablation for Disconnective Procedures in Children
Jonathan Roth¹, Shimrit Uliel-Sibony², Anat Gauzman¹, Ido Strauss³
¹Dept. of Pediatric Neurosurgery, Dana Children's Hospital, ²Pediatric Neurology Unit, Dana Children's Hospital, ³Dept. of Neurosurgery, Tel Aviv Medical Center, Israel
- 15:09 Vagal Nerve Stimulation as Treatment for Drug Resistant Epilepsy Caused by Genetic Mutations - A Retrospective Review
Adi Kempfner, Ido Strauss, Anat Gauzman, Segev Gabay
Dept. of Neurosurgery, Tel Aviv Medical Center, Tel Aviv, Israel
- 15:12 Identifying S3 and S2 as Key Pain-Sensitive Targets in High-Frequency Ultrasound Therapy for Sacroiliitis
Paz Kelmer¹, Itay Goor-Aryeh², Ruth Gur², Tal Harel², Roe Sheinfeld², Oded Jacobi², Lior Ungar^{1,2}
¹Dept. of Neurosurgery, ²Pain Center, Sheba Medical Center, Israel
- 15:15 Burning Mouth Syndrome as a Central Pain Disorder: A Case Study Demonstrating Response to Occipital Nerve Block Treatment
Jose Asprilla, Shachar Zion Shemesh, Paz Kelmer, Lior Ungar, Zvi Cohen
Dept. Neurosurgery, Sheba Medical Center, Ramat Gan, Israel
- 15:18 Discussion





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Wednesday, May 13, 2026 (cont.)

15:20-16:10 SESSION II - VASCULAR

Chairs: **Nahshon Knoller**, Israel
Guy Rosenthal, Israel

15:20 **Invited Lecture**
Combat-Related Penetrating Traumatic Brain Injury: Lessons Learned from a Modern War
Prof. Andrii Sirko
Professor of Neurosurgery, President of the Ukrainian Neurosurgical Association, Head of the Center of Cerebral Neurosurgery, Mechnikov Dnipropetrovsk Regional Clinical Hospital, Dnipro, Ukraine

FREE PAPERS

15:40 Flow Diversion with Hydrophilic Polymer Coating with Prasugrel as Single Antiplatelet Therapy in the Treatment of Acutely Ruptured Intracranial Aneurysms: A Multicenter Case Series, Complication and Occlusion Rates
Magd Deen Shibli, Jose Cohen
Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, Israel

15:47 Timing of Antiplatelet Therapy Resumption in Chronic Subdural Haematoma: A Retrospective Cohort Study
Yevgeny Karepov¹, Alexandra Lisitsyna², Matthew Kingham², Conor S Gillespie², Midhun Mohan², Oliver D Mowforth², Benjamin M Davies², Mathew Guilfoyle², Stefan Yordanov², Thomas Santarius², Angelos Koliass^{2,3}, Peter JA Hutchinson^{2,3}
¹Division of Neurosurgery Department of Clinical Neurosciences, Cambridge University Hospitals NHS Foundation Trust & University of Cambridge, ²Division of Neurosurgery Dept. of Clinical Neurosciences, Cambridge University Hospitals NHS Foundation Trust & University of Cambridge, ³NIHR Global Health Research Group on Acquired Brain and Spine Injury, University of Cambridge, UK

15:54 Extracranial-Intracranial Bypass in Adult Moyamoya Disease and Moya Moya Syndrome: Surgical Strategy and Illustrative Case Series
Stephany Morales¹, Yoel Schwartzman², Ronen Leker², Jose E Cohen¹, Samuel Moscovici¹
¹Dept. of Neurosurgery, ²Dept. of Neurology, Hadassah Ein Kerem Medical Center, Jerusalem, Israel





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Wednesday, May 13, 2026 (cont.)

15:20-16:10 **SESSION II - VASCULAR (cont.)**

FREE PAPERS (Cont.)

- 16:01 Endovascular Treatment of Posterior Circulation Aneurysms with Flow Diverters with Hydrophilic Polymer Coating in Patients Receiving Prasugrel Single Antiplatelet Therapy: A Multicenter Case Series Presenting Complication and Occlusion Rates
Maria Del Pilar Anleu Saravia¹, Jose E Cohen¹, Samuel Moscovici¹, Ali Khanafer², Hans Henkes³
1Dept. of Neurosurgery, Hadassah Hebrew University Medical Center, Israel,
2Neuroradiology, Klinikum Stuttgart Katharinenhospital, Stuttgart, Germany,
3Institute of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Essen, Germany
- 16:08 Discussion
- 16:10 *Coffee Break and Visit to the Exhibition*

16:40-17:15 **SESSION III - COMPLICATION AVOIDANCE IN NEUROSURGERY - TBI AND CRANIOPLASTY**

Chairs: **Leon Levi**, Israel
Tal Shahar, Israel

- 16:40 Complication Avoidance in Decompressive Hemicraniectomy
Iddo Paldor
Dept. of Neurosurgery, Shaare Zedek Medical Center, Jerusalem, The Faculty of Medicine, The Hebrew University, Jerusalem, Israel
- 16:50 Avoiding Complications in Cranioplasty
Guy Rosenthal
Dept. of Neurosurgery, Hadassah-Hebrew University Medical Center, Jerusalem
- 17:00 Complication Avoidance in Operations for Evacuation of Acute Epidural Hematoma in Infants
Mony Benifla
President - The Israeli Neurosurgical Society
Head of the Pediatric Neurosurgery Unit, Epilepsy Surgeon, Rambam Health Care Campus; Technion- Israel Institute of Technology, Haifa, Israel
- 17:10 Discussion





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Wednesday, May 13, 2026 (cont.)

17:15-18:30 SESSION IV - AI AND COMPUTING

Chairs: **Shmuel Tobias**, Israel
Lior Unger, Israel

FREE PAPERS

- 17:15 MRI-Based Deep Learning for Prediction of Spinal Cord Lesions
Segev Gabay¹, Tomer Stern², Roe Berlowitz², Moran Artzi³, Oz Haim¹
¹Dept. of Neurosurgery, Tel Aviv Medical Center Affiliated to the Gray Faculty of Medical & Health Sciences, Tel-Aviv University, Tel Aviv, ²School of Biomedical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, ³Sagol Brain Institute, Tel Aviv Medical Center, and the Gray Faculty of Medical & Health Sciences and Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel
- 17:22 Rapid Versus Precise: Revisiting the ABC/2 Method Measurement for Epidural Hematomas Compared with Computer-Based Analysis, A Retrospective, Multicenter, Cohort Study
Segev Gabay¹, Katarina Horcickova², Melina Isabel Frech³, Shirley Shechter⁴, Dana Nir⁴, Alon Schwartz¹, Daor Hayu^{2,5}, Moran Artzi⁶, Ondrej Bradac², Jonathan Roth¹
¹Dept. of Neurosurgery, Tel Aviv Medical Center, Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel, ²Dept. of Neurosurgery, Second Medical Faculty, Charles University and Motol and Homolka University Hospital, Prague, Czech Republic ³University of Witten/Herdecke, Germany, ⁴Dept. of Radiology, Tel Aviv Medical Center, Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel, ⁵First Faculty of Medicine, Charles University in Prague, Czech Republic, ⁶Sagol Brain Institute, Tel Aviv Medical Center, and the Gray Faculty of Medical & Health Sciences and Sagol School of Neuroscience, Tel Aviv University, Tel-Aviv, Israel
- 17:29 A Textbook-Bound GPT-Based Educational Assistant for Neurosurgery Residency Training
Lidor Bitan¹, Jonathan Roth²
¹Dept. of Neurosurgery, ²Dept. of Pediatric Neurosurgery, Dana Children's Hospital, Tel Aviv Medical Center, Tel Aviv, Israel
- 17:36 What Do Different Naming Errors Reveal About the Neural Basis of Language?
Lee Azolai¹, Naomi Kahana Levy¹, Yarden Lumbroso², Naama friedmann², Carla Richetta¹, Lottem Bergman¹, Eric Khananashvili¹, Neomi Singer³, Guy Gurevitch³, Tal Shahr¹
¹Neurosurgery Department, Tel Aviv Sourasky Medical Center, Tel Aviv, ²Faculty of Life Sciences, Tel Aviv University, Tel Aviv, ³Sagol Brain Institute, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel





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Wednesday, May 13, 2026 (cont.)

17:15-18:30 SESSION IV - AI AND COMPUTING (cont.)

FREE PAPERS (cont.)

- 17:43 Spectral and Connectivity Signatures of Tumor-Infiltrated Cortex Identified by Unsupervised Clustering of Intraoperative ECoG
Dafna Dor¹, Neomi Kahana Levy¹, Akiva Korn¹, Irina Vendrov¹, Guy Gurevitch², Lottem Bergman¹, Jonathan Roth¹, Neomi Singer², Tal Shaha¹
¹Dept. of Neurosurgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
²Sagol Brain Institute, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 17:50 AI-Enhanced Neurosurgical Foresight: Predicting Complications, Prolonged Hospitalization, and 24-Month Survival after Safe Maximal Resection of Glioblastoma Using Real-World Clinical Records
Shachar Zion Shemesh^{1,2}, Rotem Bohbot^{1,3}, Anton Wohl^{1,2}, Zvi R Cohen^{1,2}, Tehila Kaisman-Elbaz¹
¹Neurosurgery, Sheba Medical Center, ²Faculty of Medical and Health Sciences, Tel Aviv University, ³Faculty of Medicine, Bar-Ilan University, Israel
- 17:57 Discussion

FLASH TALKS

- 18:05 Late Failure of Everolimus in a Patient with Tuberous Sclerosis Complex after 10 Years of Effective Response: An Illustrative Case
Carla Richetta¹, Shlomi Constantini^{1,2}, Rina Dvir^{2,3}, **Jonathan Roth**^{1,2}
¹Pediatric Neurosurgery, The Pediatric Brain Center, Dana Children's Hospital, Tel Aviv Medical Center, ²Tel Aviv University, ³Pediatric Hemato-Oncology, Dana Children's Hospital, Tel Aviv Medical Center, Israel
- 18:08 Herpes Simplex Virus Type 2 Encephalitis. Delayed Complication after a Craniotomy for Skull Base Tumor Resection
Stephany Morales¹, Tal Benoliel Berman², Hila Elinav³, Guy Rosenthal¹, Maria del Pilar Anleu Saravia¹, Samuel Moscovici¹
¹Dept. of Neurosurgery, ²Dept. of Neurology, ³Dept. of Clinical Microbiology and Infectious Diseases, Hadassah Ein Kerem Medical Center, Jerusalem, Israel





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17:15-18:30 SESSION IV - AI AND COMPUTING (cont.)

FLASH TALKS (cont.)

- 18:11 Rapid Intraoperative Classification of Pediatric CNS Tumors Using Nanopore Sequencing and Tailored DNA Amplicon Panels
Lee Azolai¹, Naama Gloor², Neri Golan², Ofri Bublil², Rani Shlayem², Avishay Spitzer³, Amit Ringel⁴, Jonathan Roth¹, Noam Shomron², Tal Shahar¹
¹Neurosurgery Dept., Tel Aviv Sourasky Medical Center, Tel Aviv, ²Tel Aviv University's Medical School, Functional Genomics Laboratory, Tel Aviv, ³Oncology Dept., Tel Aviv Sourasky Medical Center, Tel Aviv, ⁴Pediatric Hemato-Oncology Dept., Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

- 18:14 Five-Year Survival in Disseminated Infantile Choroid Plexus Carcinoma: A Multidisciplinary Neurosurgical and Neuro-Oncological Challenge
Hadil Seh, Israel Melamed, Mickey Gidon, Elad Avraham, Amit Azriel, Antonyo Khoury
Neurosurgery Dept., Soroka Medical Center, Beer Sheva, Israel

- 18:17 Microsurgical Resection of Cerebral Arteriovenous Malformations Following Endovascular Embolization: A Single-Center Experience
Simon Jarous¹, Nevo Margalit¹, Vladimir Borodetsky²
¹Dep. of Neurosurgery, ²Dep. of Interventional Neuroradiology, Shaare Zedek Medical Center, Jerusalem, Israel

- 18:20 Circulating MMP-9 as a Candidate Biomarker of Biological Aggressiveness in Grade IV Astrocytomas
Gal Oz^{1,2,3}, Daniel Yonathan^{2,3,4}, Shachar Zion Shemesh², Zvi R. Cohen^{1,2}, Anton Wohl², Michal Entin-Meer^{1,2}, Tehila Kaisman-Elbaz²
¹Gray Faculty of Medical and Health Sciences, Tel Aviv University, ²Dept. of Neurosurgery, Neurosurgical Oncology and Radiosurgery Unit, Sheba Medical Center, Ramat-Gan, ³Arrow Program for Medical Research Education, Sheba Medical Center, Ramat-Gan, ⁴Dina Recanati School of Medicine, Reichman University, Herzliya, Israel

- 18:23 Surgical Outcome of Spinal Adhesive Arachnoiditis: A Systematic Review and Institutional Case Series
Maya Nulman, Ran Harel
Spine Surgery Division, Dept. of Neurosurgery, Sheba Medical Center, Ramat Gan

- 18:26 Discussion

- 18:30 *End of Day's Sessions*

- 19:30 *Dinner*





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07:30 Registration, Coffee and Visit to the Exhibition

08:00-08:40 SESSION V - SRS AND RADIATION

Chairs: **Yossi Laviv**, Israel
Samuel Moscovici, Israel

FREE PAPERS

- 08:00 Temporal Profiling of Blood–Brain Barrier Remodeling Following Laser Interstitial Thermal Therapy for Radiation Necrosis
Daniel Yonathan^{1,2,3}, Gal Oz^{2,3,4}, Shachar Shemesh³, Zvi R. Cohen^{3,4}, Anton Wohl³, Michal Entin-Meer^{3,4}, Tehila Kaisman-Elbaz³
¹Dina Recanati School of Medicine, Reichman University, Herzliya, ²Arrow Program for Medical Research Education, Sheba Medical Center, Ramat-Gan, ³Dept. of Neurosurgery, Neurosurgical Oncology and Radiosurgery Unit, Sheba Medical Center, Ramat-Gan, ⁴Gray Faculty of Medical and Health Sciences, Tel Aviv University, Israel
- 08:07 Upfront Stereotactic Radiosurgery for Large Posterior Fossa Metastases: A Multicenter Evaluation of Clinical Outcomes
Ariel Ben-Shoshan¹, **Sami Heymann**², José Asprilla³, Paz Kelmer³, Samuel Moscovici², Yair Hillman¹, Noam Weizman¹, Rotem Bohbot⁴, Anton Wohl³, Zvi R. Cohen³, Yaakov R. Lawrence⁵, Marc Wygoda¹, Yigal Shoshan², Tehila Kaisman-Elbaz³, Tal Falick Michaeli^{1,6}
¹Dept. of Radiation Oncology, Sharett Institute of Oncology, Hadassah Medical Center, Jerusalem, ²Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, ³Dept. of Neurosurgery, Neurosurgical Oncology and Radiosurgery Unit, Sheba Tel HaShomer Medical Center, Ramat-Gan, ⁴Azrieli Faculty of Medicine, Bar-Ilan University, Safed, ⁵Faculty of Medical and Health Sciences, Tel Aviv University, Israel and Benjamin Davidai Dept. of Radiation Oncology, Sheba Tel HaShomer Medical Center, Ramat-Gan, ⁶Dept. of Developmental Biology and Cancer Research, Institute for Medical
- 08:14 Five-Fraction Stereotactic Radiosurgery Is Associated with Reduced Radiation-Induced Changes in Large Posterior Fossa Metastases
Paz Kelmer¹, José Asprilla¹, Ariel Ben-Shoshan², Maisun Haj¹, Yair Hillman², Sami Heymann³, Noam Weitzman², Rotem Bohbot⁴, Anton Wohl¹, Zvi R. Cohen¹, Yaacov R. Lawrence⁵, Marc Wygoda², Yigal Shoshan³, Tal Falick Michaeli², Tehila Kaisman-Elbaz¹
¹Dept. of Neurosurgery, Sheba Tel HaShomer Medical Center, ²Dept. of Radiation Oncology, Hadassah Medical Center, ³Dept. of Neurosurgery, Hadassah Medical Center, ⁴Azrieli Faculty of Medicine, Bar-Ilan University, ⁵Israel and Benjamin Davidai Dept. of Radiation Oncology, Sheba Tel HaShomer Medical Center, Israel





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08:00-08:40 SESSION V - SRS AND RADIATION (cont.)

FREE PAPERS (cont.)

- 08:21 Serum Proteomic Signatures Distinguish Post-Radiation Changes from Tumor Progression in Recurrent Glioblastoma
Shani Berkowitz^{1,2}, Efrat Shavit-Stein^{1,2}, Michal Entin-Meer^{2,3}, Shachar Zion Shemesh³, Valery Golderman^{1,2}, Zehavit Goldberg^{1,2}, Anton Wohl³, Zvi R. Cohen^{2,3}, Tehila Kaisman-Elbaz³
¹Dept. of Neurology, The Chaim Sheba Medical Center, ²Dept. of Neurology and Neurosurgery, Gray Faculty of Medical and Health Sciences, Tel Aviv University, ³Neurosurgical Oncology and Radiosurgery Unit, The Dept. of Neurosurgery, The Chaim Sheba Medical Center, Israel
- 08:28 Clinical Features and Outcomes of Stereotactic Radiosurgery for Radiation-Induced Meningiomas Following Childhood Tinea Capitis Irradiation
Ofir Sholy Ben Mouel, Shachar Zion Shemesh, Guy Dumanis, Hanan Abofani, Rotem Bohbot, Diana C. Bolívar V, Anton Wohl, Moshe Attia, Ory Haisraely, Alisa Talianski, Yaacov R. Lawrence, Zvi R. Cohen, Shifra Shvarts, Tehila Kaisman-Elbaz
Dept. of Neurosurgery, Neurosurgical Oncology and Radiosurgery Unit, Sheba Medical Center, Ramat-Gan, Israel, Israel
- 08:35 Discussion

08:40-09:20 SESSION VI - CONTROVERSIES IN NEUROSURGERY- PEDIATRIC TBI ICP MONITORING-WHAT IS THE EVIDENCE?

Chairs: **Ido Ben-Zvi**, Israel
Mickey Gideon, Israel

PRO: **Danny Eytan**
Pediatric Care Critical Unit, Rambam Healthcare Campus, Haifa

CON: **Jacob Zauberman**
Pediatric Neurosurgery Unit, Hadassah Medical Center, Jerusalem

Panel: **Sergey Abeshaus**
Mony Benifla
Mickey Gideon
Jonathan Roth

09:20 Discussion





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09:20-09:40 SESSION VII - INNOVATION I

Chairs: **Sergey Abeshaus**, Israel
Lior Gonen, Israel

09:20 Modern Warfare Head Injuries: A National Registry Study Across Two Conflicts
Raquel C. Gardner
Associate Professor, Tel Aviv University School of Medicine
Research Director, Sagol Neuroscience Center, Sheba Medical Center

09:40-10:35 SESSION VIII - INNOVATION II

Chairs: **Zvi R. Cohen**, Israel
Lior Ungar, Israel

09:40 From Bench to Neurosurgery: Novel Concepts in TBI Basic Science
Alon Friedman
Research Authority, Medical Center Headquarters, Sheba medical center,
Ramat Gan, Israel

10:10 The Evolution of Surgical Robots
Moshe Shoham
Technion - Israel Institute of Technology, Haifa, Israel

10:35 *Coffee Break and Visit to the Exhibition*

11:00-12:00 SESSION IX - MY WORST DISASTER

Chairs: **Andrew H. Kaye**, Israel
Iddo Paldor, Israel

Mony Benifla, Israel
Zvi Israel, Israel
Iddo Paldor, Israel
Andrii Sirko, Ukraine
Yuval Sufaro, Israel





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12:00-13:00 GUEST LECTURE

“Sexuality and AI”

Dr. Roey Tzezana

Yuval Ne’eman Workshop for Science, Technology and Security at Tel Aviv University

13:00-13:15 BEST PAPER AWARDS - Sponsored by Tzamal Medical

Chairs: **Mony Benifla**, Israel

Ido Strauss, Israel

13:00 **Best Resident Basic Science Research Award**

Real-Time Estimation of Intracranial Elastance from continuous Arterial Blood Pressure and Intracranial Pressure Waveforms

Michael Farberov¹, Guy Rosenthal¹, Abed Nassir², Ofer Barnea²

¹Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, ²Dept. of Biomedical Engineering, Tel Aviv University, Tel Aviv, Israel

13:07 **Best Resident Clinical Research Award**

Occipital Shuntalgia: Rethinking Post-Shunt Occipital Headache Etiology and Care

Shachar Zion Shemesh^{1,2}, Noa Rennert^{1,2}, Zeev Feldman^{1,2}, Paz Kelmer¹, Itay Goor Aryeh^{2,3}, Oded Jacobi^{2,3}, Gabriel Lichtenstein^{2,3}, Yotam Hadari^{2,3}, Zvi R Cohen^{1,2}, Lior Ungar^{1,2,3}

¹Dept. of Neurosurgery, Sheba Medical Center, ²Gray School of Medicine, Tel Aviv university,

³Pain Center, Sheba Medical Center, Israel

13:15 *Lunch and Visit the Exhibition*

מזכירות: **קומטקמד**, ת.ד. 68, תל-אביב 6100001, טל': 03-5666166, פקס: 03-5666177

Secretariat: **Comtecmed**, PO Box 68, Tel Aviv 6100001, Israel

Tel: +972-3-5666166, Fax: +972-3-5666177

E-mail: neurosurgery@comtecmed.com, Website: www.israelneurosurgery.com





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14:15-15:15 SESSION X - FROM INJURY TO RECOVERY

Chairs: **Amit Azriel**, Israel
Idit Tamir, Israel

- 14:15 Adopting Damage Control Resuscitation Principles Translates into Lives Saved
Elon Glassberg
Immediate past Surgeon General, Israel Defense Forces
Prof. of Surgery- Bar Ilan University (Israel)
Adjunct Professor of Surgery- USUHS (Bethesda, MD)
Board Certified in Healthcare Management
- 14:35 Neurological Rehabilitation - The Quality of a Saved Life
Osnat Granot
Head of the Traumatic Brain Injury Rehabilitation Department, Loewenstein
Rehabilitation Medical Center, Ra'anana
- 14:55 Discussion

15:15-16:45 SESSION XI - NEURO-ONCOLOGY

Chairs: **Iddo Paldor**, Israel
Amir Khriesh, Israel

FREE PAPERS

- 15:15 Skull Base Epidermoid Tumors: Influence of Subarachnoid Cistern Invasion and Extent of Resection on Recurrence and Outcomes
Stephany Morales¹, Samuel Moscovici¹, Nir Lavi^{2,3}, Andrew H. Kaye¹, Carlos Candanedo¹, Jose E. Cohen¹, Sergey Spektor⁴
¹Dept. of Neurosurgery, Hadassah Hebrew University Medical Center, Jerusalem,
²Hadassah Medical Center and Faculty of Medicine, The Hebrew University of Jerusalem, Leslie and Michael Gaffin Center for Neuro-Oncology, Jerusalem,
³Dept. of Neurology, Hadassah Medical Center and Faculty of Medicine, The Hebrew University of Jerusalem, Agnes Ginges Center for Human Neurogenetics, Jerusalem,
⁴Dept. of Neurosurgery, Assuta Medical Center, Tel Aviv, Israel
- 15:22 Determinants of Visual Recovery after Anterior Clinoid Meningioma Surgery: A Multimodal Clinical and Structural Analysis





Firas Jbareen¹, Daniel Rappoport², Nevo Margalit¹
¹Dept. of Neurosurgery, ²Dept. of Ophthalmology, Shaare Zedek Medical Center,
 Jerusalem, Israel

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15:15-16:45 SESSION XI - NEURO-ONCOLOGY

FREE PAPERS (cont.)

- 15:29 Medial Wall Resection of the Cavernous Sinus in Pituitary Adenoma Surgery:
 Systematic Review and Institutional Experience
Lee Azolai¹, Forsan Jahashan², Avraham Abergel², Lior Gonen¹
¹Dept. of Neurosurgery, ²Dept. of Ear, Nose and Throat - Head and Neck Surgery,
 Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

- 15:36 Pediatric Metastatic Medulloblastoma: Upfront Biopsy Followed by Oncological
 Treatment without Excision of the Primary Tumor
Rina Dvir¹, Ronit Elhasid¹, Jonathan Roth², Shlomi Constantini², Yair Peled¹,
Inna Ospovat³, Shelly Shiran⁴
¹Pediatric Hematooncology, ²Pediatric Neurosurgery, ³Radiotherapy,
⁴Pediatric Radiology, Tel Aviv Medical Center, Israel

- 15:43 Programmable Shunt Valves with a "virtual off" for Intrathecal Chemotherapy
 Delivery in Children with High-Grade CNS Tumors and Hydrocephalus
Rina Dvir¹, Yair Peled¹, Dror Levin¹, Ronit Elhasid¹, Shlomi Constantini²,
Manina Maja Etter³, Jehuda Soleman^{3,4}, Valentina Pennacchiotti⁵,
Ulrich-Wilhelm Thomale⁵, Jonathan Roth²
¹Pediatric Hematooncology, Tel Aviv Medical Center, Israel, ²Pediatric Neurosurgery,
 Tel Aviv Medical Center, Israel, ³Pediatric Neurosurgery, University Children's Hospital
 of Basel, Switzerland, ⁴Faculty of Medicine, University of Basel, Switzerland, ⁵Pediatric
 Neurosurgery, Charité Universitaetsmedizin Berlin, Germany

- 15:50 Surgical Management of Cushing Disease: Outcome Analysis from a Single Center
David Benhamou, Simon Jarous, Nevo Margalit
 Dept. of Neurosurgery, Shaare Zedek Medical Center, Jerusalem, Israel

- 15:57 Early Experience with Endoscopic Transorbital Approach for Skull Base Lesions
Lee Azolai¹, Ran Ben Cnaan², Igal Leibovich², Avraham Abergel³, Lior Gonen¹
¹Neurosurgery Dept., Tel Aviv Sourasky Medical Center, Tel Aviv, ²Ophthalmology Dept.,
 Tel Aviv Sourasky Medical Center, Tel Aviv, ³Dept. of Ear, Nose and Throat - Head and
 Neck Surgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel





Scientific Program

Thursday, May 14, 2026 (cont.)

15:15-16:45 SESSION XI - NEURO-ONCOLOGY

FREE PAPERS (cont.)

- 16:04 Extent of Resection and Survival in Astrocytoma According to IDH Mutation Status
Rotem Bohbot^{1,2}, Shachar Zion Shemesh¹, Anton Wohl¹, Alisa Talianski³,
Yaacov R. Lawrenc⁴, Zvi R. Cohen^{1,5}, Tehila Kaisman-Elbaz¹
¹Dept. of Neurosurgery, Neurosurgical Oncology and Radiosurgery Unit,
Sheba Medical Center, Ramat-Gan, ²The Azrieli Faculty of Medicine,
Bar-Ilan University, Safed, ³Neuro-Oncology Unit, Sheba Medical Center, Ramat-Gan,
⁴Benjamin Davidai Dept. of Radiation Oncology, Sheba Medical Center, Ramat-Gan,
⁵Faculty of Medical and Health Sciences, Tel Aviv University, Israel
- 16:11 Endoscopic Fenestration for Management of Supra-Tentorial Intra and
Para-Ventricular Cysts: A Multicenter International Study
Carla Richetta¹, Shlomi Constantini^{1,2}, **Jonathan Roth**^{1,2}
¹Dept. of Pediatric Neurosurgery, Dana Children's Hospital, Tel Aviv Medical Center,
²Tel Aviv University, Israel
- 16:18 Recurrent Meningiomas, When to Stop?
Ali Alkasim Kaadan, Jean Francois Soustiel
Dept. of Neurosurgery, Galilee Medical Center, Nahariya, Israel
- 16:25 Extradural Foramen Magnum Decompression with Multiple Superficial Dural Incisions
for Chiari I Malformation: A Multicenter Series of 91 Pediatric Patients
Olga Sergeenko¹, Jonathan Roth¹, Jehuda Soleman², Manina Maja Etter²,
Raphael Guzman², Akiva Korn³, Shlomi Constantini³
¹Dept. of Pediatric Neurosurgery, Dana Children's Hospital, Tel Aviv Medical Center,
Tel Aviv, Israel, ²Division of Pediatric Neurosurgery, University Children's Hospital of
Basel, Basel, Switzerland, ³Division of Neurosurgery, Tel Aviv Medical Center,
Tel Aviv, Israel
- 16:32 Discussion
- 16:45 *Coffee Break and Visit to the Exhibition*





Scientific Program

Thursday, May 14, 2026 (cont.)

17:00-17:40 SESSION XII - INNOVATION FROM DIAGNOSIS TO REHABILITATION

Chairs: **Sami Heymann**, Israel
Israel Melamed, Israel

- 17:00 Development, Validation, and Real-World Performance of a New Blood Test to Aid in Evaluation of Acute Traumatic Brain Injury
Raquel C. Gardner
Associate Professor, Tel Aviv University School of Medicine
Research Director, Sagol Neuroscience Center, Sheba Medical Center
- 17:20 Innovation in Acquired Brain Injury Rehabilitation
Osnat Granot
Head of the Traumatic Brain Injury Rehabilitation Department, Loewenstein Rehabilitation Medical Center, Ra'anana

17:40-19:00 SESSION XIII - FUNCTIONAL AND MISCELLANEOUS

Chairs: **Shadi Hayek**, Israel
Abed Sayag, Israel

FREE PAPERS

- 17:40 The Role of "Palliative Hemispherotomy" in Bilateral Encephalopathies
Jonathan Roth¹, Bruria Ben-Zeev², Andreea Nissenkorn³, Moran Hausman-Kedem⁴
¹Dept. of Pediatric Neurosurgery, Dana Children's Hospital, Tel Aviv Medical Center, ²Pediatric Neurology Unit, Safra pediatric hospital, Sheba Medical Center, ³Pediatric Neurology Unit, Wolfson Medical Center, ⁴Pediatric Neurology Unit, Dana Children's Hospital, Tel Aviv Medical Center, Israel
- 17:47 Tractography vs. Canonical Targeting for Tremor Control - Randomized Controlled Trial - Preliminary Results in 101 Patients (The Tract Trial)
Lior Lev-Tov^{1,2,3}, **Noam Shalem**^{1,3}, Alon Sinai¹, Ilana Erikh⁴, Inna Sederova⁴, Maria Nassar⁴, Mark Katson⁴, Ayelet Eran⁵, Ilana Schlesinger^{2,4}
¹Neurosurgery, Rambam Healthcare Campus, ²Medicine, Technion - IIT, ³Biomedical





Engineering, Technion - IIT, ⁴Neurology, Rambam Healthcare Campus, ⁵Radiology, Rambam Healthcare Campus, Haifa, Israel

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Thursday, May 14, 2026 (cont.)

17:40-19:00 SESSION XIII - FUNCTIONAL AND MISCELLANEOUS (cont.)

FREE PAPERS (cont.)

- 17:54 Antiseizure Medication Reduction after "Successful Hemispherotomy":
A Multicenter Perspective on Practice Patterns and Barriers
Lottem Bergman¹, Segev Gabay¹, Kalman A. Katlowitz², Daniel Zheng²,
Ariel Sacknovitz², Jeffrey Treiber², Howard Weiner², Thomas Blauwblomme^{3,4,5},
Laryssa Azevedo³, Lena-Luise Becker⁶, Ulrich-Wilhelm Thomale⁷, Sarat Chandra⁸,
Manjari Tripathi⁸, Shimrit Sibony-Uliel^{9,10}, Jonathan Roth^{1,10}
¹Pediatric Neurosurgery, Dana Children's Hospital; Tel Aviv Sourasky University
Medical Center, Tel Aviv, Israel, ²Neurosurgery, Baylor College of Medicine & Division
of Pediatric Neurosurgery, Texas Children's Hospital, Houston, TX, USA, ³Assistance
Publique Hôpitaux, Necker-Enfants Malades, Paris, France, ⁴Université de Paris, Paris,
France, ⁵INSERM U1163 Institut Imagine, Paris, France, ⁶Pediatric Neurology,
Center for Chronically Sick Children, Institute of Cell Biology and Neurobiology,
Charité-Universitätsmedizin, Berlin, Germany, ⁷Pediatric Neurosurgery,
Charité-Universitätsmedizin Berlin, Freie Universität Berlin,
Humboldt-Universität Zu Berlin, Berlin Institute of Health, Berlin, Germany,
⁸Center of Excellence for Epilepsy and MEG, All India Institute of Medical Sciences
(AIIMS), New Delhi, India, ⁹Pediatric Neurology Institute, Dana Children's Hospital;
Tel Aviv Sourasky University Medical Center, Tel Aviv, Israel, ¹⁰Tel Aviv University,
Tel Aviv, Israel
- 18:01 Deep Brain Stimulation for OCD - Toward a Personalized Approach
(And Pathophysiology Definition)
Lior Lev-Tov^{1,2,3}, **Noam Shalem**^{1,2}, Alon Sinai¹, Hagai Bergman⁴, Renana Eitan⁵
¹Dept. of Neurosurgery, Rambam Healthcare Campus, ²Biomedical engineering,
Technion - ITT, ³Faculty of Medicine, Technion- ITT, ⁴The Hebrew University of Jerusalem
⁵Kfar Shaul Mental Health Center
- 18:08 Can Intraoperative Brain Shift be Reliably Predicted Based on Preoperative
Assessments in Patients with Parkinson's Disease Undergoing Awake STN-DBS?
Eilat Sapirstein, Idit Tamir
Dept. of Neurosurgery, Beilinson Hospital, Rabin Medical Center, Israel



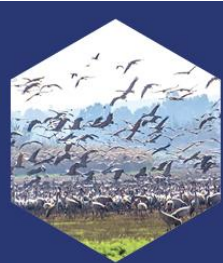


18:15

Ketamin Based Sedation During Dee Brain Stimulation Surgery

Mor Nimni

Dept. of Neurosurgery, Raanana Medical Center, Petach Tikva, Israel



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Scientific Program

Thursday, May 14, 2026 (cont.)

17:40-19:00 SESSION XIII - FUNCTIONAL AND MISCELLANEOUS (cont.)

FREE PAPERS (cont.)

- 18:22 O-Arm Navigated Cervical Pedicle Screw (CPS) Placement in the Setting of Failed Lateral Mass Instrumentation
Andres Vargas, Abraham Yisrael Benzaquen Vasquez
Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, Israel
- 18:29 Infectious Complications after Vagus Nerve Stimulator Implantation and Revision: Device Salvage with Antibiotic-First Management in a Single-Center Cohort
Zaki Hinnawi, Zeev Feldman, Lior Ungar, Shachar Zion Shemesh, Paz Kelmer, Jacob Zauberman, Zvi R Cohen, Noa Rennert
Dept. of Neurosurgery, Sheba Medical Center, Ramat Gan, Israel
- 18:36 Elaborative Intraoperative Language Mapping Extending Beyond Naming and Verb Generation During Awake Craniotomy Is Associated with Improved Postoperative Language Outcomes: A Two-Period Cohort Study
Adi Kempfner, Naomi Kahana Levy, Gal Sela, Lotem Bergmam, Neomi Singer, Guy Gurevitch, Akiva Koren, Tal Shchar
Dept. of Neurosurgery, Tel Aviv Medical Center, Tel Aviv, Israel

FLASH TALKS

- 18:43 HD-MLC-Based Stereotactic Radiosurgery for Trigeminal Neuralgia: Technique and Early Experience
Sami Heymann¹, Yair Hillman², Zvi Israel¹, Jon Feldman², Philip Blumenfeld², Marc Wygoda², Yigal Shoshan¹
¹Dept. of Neurosurgery, ²Dept. of Radiation Oncology, Sharett Institute of Oncology, Hadassah Medical Center, Jerusalem, Israel
- 18:46 Combined Hypothermia and Milrinone Therapy for Refractory Cerebral Vasospasm after Subarachnoid Hemorrhage: A Two-Case Report
David Benhamou, Henry Shapiro
Dept. of Neurosurgery, Sharee Tzedek Medical Center, Jerusalem, Israel
- 18:49 Discussion



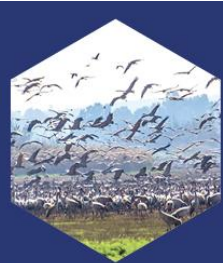


19:00

End of Day's Sessions

19:30

Dinner



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Friday, May 15, 2026

EDUCATION DAY FOR RESIDENTS

08:15 *Registration and Coffee*

08:30-10:00 PART I

08:30 Penetrating Brain Injuries of the Skull Base
Prof. Andrii Sirko
Professor of Neurosurgery, President of the Ukrainian Neurosurgical Association,
Head of the Center of Cerebral Neurosurgery, Mechnikov Dnipropetrovsk Regional
Clinical Hospital, Dnipro, Ukraine

08:50 The New Penetrating TBI Guidelines
Guy Rosenthal
Dept. of Neurosurgery, Hadassah Medical Center, Jerusalem, Israel

09:20 TBA
Elon Glassberg
Immediate past Surgeon General, Israel Defense Forces
Prof. of Surgery- Bar Ilan University (Israel)
Adjunct Professor of Surgery- USUHS (Bethesda, MD)
Board Certified in Healthcare Management

09:40 Decompressive Craniectomy
Yevgeny Karepov
Dept. of Clinical Neurosciences, Addenbrooke's Hospital, Cambridge, UK

10:00 *Coffee Break and Visit to the Exhibition*

10:15-12:00 PART II

10:15 Pediatric TBI - From Guidelines to practice
Amir Kershenovich
Pediatric Neurosurgery, Schneider Children's Medical Center of Israel,
Petah Tikva, Israel

10:40 Case Presentation I
Israel Melamed
Neurosurgery Dept., Soroka Medical Center, Beer Sheva, Israel





11:00

Case Presentation

Prof. Andrii Sirko

Professor of Neurosurgery, President of the Ukrainian Neurosurgical Association,
Head of the Center of Cerebral Neurosurgery, Mechnikov Dnipropetrovsk Regional
Clinical Hospital, Dnipro, Ukraine



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EDUCATION DAY FOR RESIDENTS (cont.)

10:15-12:00 PART II (cont.)

- 11:15 Case Presentation
Shmuel Tobias
Neurosurgery Dept., Ziv Medical Center, Zefat, Israel
- 11:45 *Closing Remarks and Feedback*
Mony Benifla
President - The Israeli Neurosurgical Society
Head of the Pediatric Neurosurgery Unit, Epilepsy Surgeon, Rambam Health Care
Campus; Technion- Israel Institute of Technology, Haifa, Israel
- 12:00 *Light Lunch*

