



האיגוד הישראלי לכירורגית לב וחזה
THE ISRAEL SOCIETY OF CARDIOTHORACIC SURGERY

האיגוד הקרדיולוגי בישראל
ISRAEL HEART SOCIETY



The 63th Annual Conference of the Israel Heart Society in association with the Israel Society of Cardiothoracic Surgery

April 12-13 • 2016 • Tel Aviv, Israel



SCIENTIFIC PROGRAM



Paragon Israel (Dan Knassim)
Tel/Fax: 03-5767730/7
secretariat@israelheart.com



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- 08:30-10:00** **Interventional Cardiology I** *Hall A*
Chairs: Ariel Finkelstein, Ran Kornowski, Israel
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- 08:30 **Effect of Diameter of Drug-Eluting Stents Versus Bare-Metal Stents on Late Outcomes: a propensity score-matched analysis**
Amos Levi^{1,2}, Tamir Bental^{1,2}, Hana Veknin Assa^{1,2}, Gabriel Greenberg^{1,2}, Eli Lev^{1,2}, Ran Kornowski^{1,2}, Abid Assali^{1,2}
¹*Cardiology, Rabin Medical Center, Israel*
²*Sackler Faculty of Medicine, Tel Aviv University, Israel*
- 08:41 **Percutaneous Valve-in-Valve Implantation for the Treatment of Aortic, Mitral and Tricuspid Structural Bioprosthetic Valve Degeneration**
Uri Landes¹, Abid Assali¹, Ram Sharoni^{1,2}, Hanna Vaknin-Assa¹, Katia Orvin¹, Amos Levi¹, Yaron Shapira¹, Shmuel Schwartzenberg¹, Ashraf Hamdan¹, Tamir Bental¹, Alexander Sagie¹, Ran Kornowski¹
¹*Department of Cardiology, Rabin Medical Center, Tel Aviv, Israel*
²*Department of Cardiac Surgery, Rabin Medical Center, Tel Aviv, Israel*
- 08:52 **Temporal Trends in Transcatheter Aortic Valve Implantation in Israel 2008-2014: Patient Characteristics, Procedural Issues and Clinical Outcome**
Uri Landes¹, Alon Barsheshet¹, Abid Assali¹, Hanna Vaknin-Assa¹, Israel Barbash³, Victor Guetta³, Amit Segev³, Ariel Finkelstein², Amir Halkin², Jeremy Ben-Shoshan², Ran Kornowski¹
¹*Department of Cardiology, Rabin Medical Center, Tel Aviv, Israel*
²*Cardiology, Sourasky Medical Center, Tel Aviv, Israel*
³*Cardiology, Sheba Medical Center, Tel HaShomer, Israel*
- 09:03 **Short Term Outcomes of Patients Undergoing TAVI with and without the Presence of an Anesthesiologist in the Catheterization Laboratory**
Maayan Konigstein, Jeremy Ben-Shoshan, Nir Flint, Gilad Margolis, Amir Halkin, Gad Keren, Shmuel Banai, Ariel Finkelstein
Cardiology, Department of Cardiology, Tel-Aviv Medical Center, Tel-Aviv, Israel and the Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel
- 09:14 **Short Term Outcomes of Transcatheter Aortic Valve Implantation with New Generation Devices**
Jeremy Ben-Shoshan, Maayan Konigstein, Udi Chorin, Arie Steinvil, Yaron Arbel, Leehee Barak, Michael Barkagan, Amir Halkin, Samuel Bazan, Gad Keren, Shmuel Banai, Ariel Finkelstein
Cardiology, Tel-Aviv Medical Center, Israel



- 09:25 **Balloon Post-dilatation and Outcome among Patients Undergoing Trans Aortic Valve Implantation**
 Noam Fink¹, Amit Segev¹, Ariel Finkelstein², Ran Kornowski³, Israel Barbash¹, Amir Halkin², Abid Assali³, Arie Steinvil², Hana Vaknin-Assa³, Jeremy Ben Shoshan², Paul Fefer¹, Victor Guetta¹, Zach Rosenbaum²
¹Leviev Heart Center, Sheba Medical Center, Tel Hashomer, Israel
²Department of Cardiology, Tel Aviv Medical Center, Tel Aviv, Israel
³Department of Cardiology, Rabin Medical Center, Petah Tikva, Israel
- 09:36 **Coronary Artery Disease Among Survivors of VT/VF Arrest**
 Dan Kiselnik, Jonathan Balkin, Michael Ilan, Aharon Medina, Adi Butnaru, David Rosenmann, Mady Moriel, Marc Klutstein, Rafael Wolff, Giora Weisz, Moshe Rav Acha
 Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel
- 09:47 **Comparative Matched Outcome of Evolut-R vs. CoreValve Transcatheter Aortic Valve Implantation**
 Uri Landes, Alon Barsheshet, Tamir Bental, Abid Assali, Hanna Vaknin-Assa, Amos Levi, Katia Orvin, Ran Kornowski
 Cardiology, Rabin Medical Center, Petah-tikva, Israel
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- 08:30-10:00 **Heart Failure – Advances in Prediction and Treatment** *Hall B*
 Chairs: Israel Gotsman, Offer Amir, Israel
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- 08:30 **Non-invasive Lung IMPEDANCE-Guided Preemptive Treatment in Chronic Heart Failure Patients: a Randomized Controlled Trial (IMPEDANCE-HF trial)**
 Simcha Meisel^{1,2}, Michael Shochat^{1,2}, Avraham Shotan^{1,2}, David S Blondheim^{1,2}, Mark Kazatsker^{1,2}, Iris Dahan^{1,2}, Aya Asif^{1,2}, Yoseph Rozenman^{1,2,3}, Ilija Kleiner^{4,5}, Jean Marc Weinstein⁵, Aaron Frimerman¹, Lubov Vasilenko^{1,2}
¹Heart Institute, Hillel Yaffe Medical Center, Hadera, Iceland
²Rappaport School of Medicine, Technion, Haifa
³Cardiovascular Institute, Wolfson Medical Center, Holon
⁴Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv
⁵Cardiology Department, Soroka University Medical Center, Beer Sheva
- 08:42 **Body Surface Area as a Prognostic Marker in Chronic Heart Failure Patients. Results from the Heart Failure registry of the European Society of Cardiology**
 Barak Zafir¹, Nabeeh Salman², Aldo P Maggioni³, Cecile Laroche³, Offer Amir²
¹Cardiovascular Division, Lady Davis Carmel Medical Center, Haifa, Israel
²Cardiovascular Department, Poryia Medical Center, Tiberius, Israel
³EURObservational Research Programme, European Society of Cardiology, Sophia-Antipolis, France





- 08:54 **Serum Potassium³ Levels and Clinical Outcome in Patients with Chronic Heart Failure**
Sara Hoss, Yair Elizur, David Luria, Andre Keren, Chaim Lotan, Israel Gotsman
Heart Institute, Hadassah University Hospital, Jerusalem, Israel
- 09:06 **The Management and Outcome of Israeli in Comparison with European Heart Failure Hospitalized and Ambulatory Patients: Results from ESC Heart Failure Long-term Registry**
Avraham Shotan¹, Tuvia Ben Gal², Alicia Vazan¹, David S Blondheim¹, Simcha R Meisel¹, Shochat Michael¹, Frimerman Aharon¹, Israel Gotesman³, Offer Amir⁴
¹*Heart Institute, Hillel Yaffe Medical Center, Hadera, Israel*
²*Heart Institute, Rabin Medical Center, Petah Tikva, Israel*
³*Heart Institute, Hadassah Medical Center, Jerusalem, Israel*
⁴*Heart institute, Baruch Padeh Medical Center, Poriya, Israel*
- 09:18 **The Effect of Multipoint Pacing on the Left Ventricular Mechanics in Heart Failure Patients**
Shai Tejman Yarden¹, Noa Bachner-Hinenzon², Offir Ertracht³, Maayan Perry⁴, Alain Serraf¹, David Mishali¹, Michael Glikson⁵
¹*Pediatric Cardiology, Seba Medical Center, Ramat Gan, Israel*
²*Cardiac, Analyze it Ltd, Tuval, Israel*
³*Eliachar Research Laboratory, Western Galilee Hospital,, Nahariya, Israel*
⁴*Cardiac, Gamida Ltd, Israel*
⁵*Davidai Arrhythmia Center, the Heart Center, Sheba Medical Center, Ramat Gan, Israel*
- 09:30 **The Hemodynamic Effect and Safety of Intermittent Sequential Pneumatic Compression Leg Sleeves in Patients with Congestive Heart Failure**
Amitai Bickel, Alexander Shturman, Michael Sergeiev, Shimon Ivry, Arie Eitan, Shaul Atar
Cardiology, Anesthesia and Surgery A, Galilee Medical Center, Nahariya, HaZafon, Israel
- 09:42 **Apoptotic Endothelial Cell-derived Microparticles to Mononuclear Progenitor Cells Ratio as a Novel Biomarker in Advanced Heart Failure Patients**
Alexander Berezin¹, Alexander Kremzer²
¹*Internal medicine, Medical University, Zaporozhye, Ukraine*
²*Clinical pharmacology, Medical University, Zaporozhye, Ukraine*



08:30-10:00 **Hot Topics in CIED Treatment** Hall C
Chairs: Alon Barsheshet, Mahmoud Suleiman, Israel

08:30 **Anemia and the Risk of Life-Threatening Ventricular Tachyarrhythmias: Prospective Real World Data from the Israeli ICD Registry**
Ido Goldenberg¹, Alon Barsheshet³, Avishag Laish-Farkash², Moshi Swissa⁴, Yoav Michowitz⁵, Glikson Michael⁶, Mahmoud Suleiman¹

¹Cardiology, Rambam Medical Center, Haifa, Israel

²Cardiology, Barzilai Medical Center, Ashkelon, Israel

³Cardiology, Rabon Medical Center, Petah Tiqwa, Israel

⁴Cardiology, Kaplan Medical Center, Rehovot, Israel

⁵Cardiology, Tel Aviv Medical Center, Tel Aviv, Israel

⁶Cardiology, Sheba Medical Center, Ramat Gan, Israel

08:42 **Characteristics and Outcomes of Diabetic Patients with an Implantable Cardioverter Defibrillator in a Real World Setting: Results From the Israeli ICD Registry**

Hillel Steiner¹, Ilan Goldenberg², Mahmoud Suleiman³, Michael Glikson², Moshe Swissa⁴, Gregory Golovchiner⁵, Boris Strasberg⁵, Alon Barsheshet⁵

¹Division of Cardiovascular Medicine, The Baruch Padeh Medical Institute, Poriya, Israel

²Department of Cardiology, The Heart Center, Chaim Sheba Medical Center, Sackler School of Medicine

³Department of Cardiology, Rambam Medical Center

⁴Department of Cardiology, Kaplan Medical Center

⁵Department of Cardiology, The Rabin Medical Center, Israel

08:54 **Cardiac Resynchronization Therapy with Pacing (CRT-P) versus with Defibrillation (CRT-D) in Octogenarian Patients with Heart Failure in a Real-World Setting**

Avishag Laish-Farkash¹, Sharon Bruoha¹, Amos Katz¹, Ilan Goldenberg², Mahmoud Suleiman³, Vladimir Khalameizer¹

¹Department of Cardiology, Barzilai Medical center, and The Faculty of Health Sciences, Ben-Gurion University of the Negev, Ashkelon, Israel

²The Israeli Association for Cardiovascular Trials, Leviev Heart Center, Sheba Medical Center, Tel Hashomer, Israel

³Department of Cardiology, Rambam Medical Center, Haifa, Israel

09:06 **Correction of Right Ventricular Pacing Induced Reduction in Coronary Flow by Left and Biventricular Pacing**

Dawod Sharif^{1,2}, Nemer Samniah^{1,2}, Ahmad Yehia², Yasmin Sharif², Amal Sharif-Rasslan³, Uri Rosenschein^{1,2}

¹Cardiology, Bnai Zion Medical Center, Haifa, Israel

²Medicine, Technion Israel Institute of Technology, Haifa, Israel

³Science and Technology, Technion Israel Institute of Technology, Haifa, Israel





- 09:18 **Propionibacterium Acnes Pacemaker Implant Infections: an Under-recognized Cause**
Shelly Kagan¹, Anat Wieder-Finesod², Debby Ben-David², Galia Rahav², Rafael Diamante¹, David Berlev¹, Igor Liphcenca¹, Osnat Gurevitz¹, Michael Eldar¹, Roy Beinart¹, Michael Glikson¹, Eyal Nof¹
¹Cardiology, Sheba Medical Center
²Infectious diseases, Sheba Medical Center, Israel
- 09:30 **Characterization of a New Clinical Phenomena: Shock Following Cardiac Implantable Electronic Device Extraction**
Orwa Younis¹, Roy Beinart¹, Nofrat Nehoray², Igor Lipchenca¹, Osnat Gurevitz¹, Shlomi Mateztky¹, Roy Beigel¹, Michael Eldar¹, Michale Glikson¹, Eyal Nof¹
¹Cardiology, Sheba Medical Center, Israel
²ER, Sheba Medical Center, Israel
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- 08:30-10:00 **Acute Cardiac Care ACS and Beyond** *Hall H*
Chairs: Zaza Iakobishvili, Idit Dobrecky-Mery, Israel
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- 08:30 **Coronary Artery Blood Flow in Acute Ischemic Stroke**
Dawod Sharif^{1,3}, Fadi Abu Ahmad², Yasmine Sharif³, Amal Sharif-Rasslan^{4,5}, Uri Rosenschein^{1,3}, Ayed Mahajneh^{2,3}, Boaz Weller^{2,3}
¹Cardiology, Bnai Zion Medical Center, Haifa, Israel
²Neurology, Bnai Zion Medical Center, Haifa, Israel
³Medicine, Technion - Israel Institute of Technology, Haifa, Israel
⁴Science and Technology, Technion Israel Institute of Technology, Haifa, Israel
⁵Mathematics, The Academic Arab College, Haifa, Israel
- 08:42 **Low-level Laser Therapy to the Bone Marrow to Stimulate Stem Cells that Home in on the Post-myocardial Infarction Tissue in Humans: Safety and Feasibility Study**
Alex Blatt^{1,3}, Gabby Elbaz-Greener^{1,3}, Oran Tzuman^{1,3}, Marina Leitman^{1,3}, Zvi Vered^{1,3}, Uri Oron²
¹Cardiology Division, Assaf Harofeh Medical Center, Zerifin, Israel
²Department of Zoology, Faculty of Life Sciences, Tel Aviv, Israel
³Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
- 08:54 **Ischemic Burden in Patients Experiencing Primary Ventricular Fibrillation**
Shaul Atar, Barak Erlich
Cardiology, Galilee Medical Center, Nahariya, HaZafon, Israel



09:06

Machine Learning for Prediction of 30 Day Mortality after ST Elevation Myocardial Infarction: an Acute Coronary Syndrome Israeli Survey Data Mining Study

Amir Hadanny^{2,3}, Roni Shouval^{1,3}, Nir Shlomo⁴, Zaza Iakobishvili⁵, Ron Unger³, Doron Zahger⁹, Ronny Alkalai⁶, Shaul Atar⁷, Shmuel Gottlieb⁸, Shlomi Matetzky¹⁰, Ilan Goldenberg¹⁰, Roy Beigel¹⁰

¹Internal medicine "F" Department, Chaim Sheba Medical Center, Ramat-Gan, Israel, Ramat Gan, Israel

²Sagol Center for Hyperbaric medicine and Research, Assaf HaRofe Medical Center, Zeriffin, Israel, Zeriffin, Israel

³The Mina and Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Ramat-Gan, Israel, Israel

⁴Israeli Association for Cardiovascular Trials, Sheba Medical Center, Tel Hashomer, Israel, Ramat Gan, Israel

⁵Cardiology Department, Beilinson Hospital, Rabin Medical Center, affiliated to the Sackler School of Medicine, Tel Aviv University, Tel-Aviv, Israel, Petah Tikva, Israel

⁶Heart institute, Hadassah Hebrew University Medical Center, Jerusalem, Israel 91120, Israel

⁷Department of Cardiology, The Western Galilee Medical Center, Nahariya, Bar-Ilan University, Ramat-Gan, Israel, Nahariya, Israel

⁸Department of Cardiology, Shaare-Zedek Medical Center, Bikur Cholim Campus, the Hebrew University School of Medicine, Jerusalem, Israel, Jerusalem, Israel

⁹Intensive Cardiac Care Unit, Department of Cardiology, Soroka University Medical Center, Be'er-Sheva, Israel, Be'er-Sheva, Israel

¹⁰Heart Center, Chaim Sheba Medical Center, Tel Hashomer, Sackler School of Medicine, Tel Aviv University, Israel, Ramat Gan, Israel

09:18

Contemporary Registry of Intermediate and High Risk Pulmonary Embolism Patients Presenting to a Large Tertiary Medical Center (PLATIS-PE)

Roy Beigel, Israel Mazin, Romana Herscovici, Orly Goitein, Yigal Kassif, Sagit Ben-Zekrey, Paul Fefer, Ehud Raanani, Elad Asher, Shlomi Matetzky Intensive Cardiac Care Unit, Cardiac Surgery, Cardiovascular Imaging, The Leviev Heart Center, Sheba Medical Center, Tel-Aviv University, Tel Hashomer, Israel





09:30 **The Need for Escalation Therapy and Mortality in Intermediate Risk Pulmonary Emboli Patients – Results of a Large Tertiary Center Registry (PLATIS - PE)**
Shlomi Matetzky, Israel Mazin, Orly Goitein, Romana Herscovici, Sagit Ben-Zekrey, Yigal Kassif, Paul Fefer, Ehud Raanani, Elad Asher, Roy Beigel
Intensive Cardiac Care Unit, Cardiac Surgery, Cardiovascular Imaging, The Leviev Heart Center, Sheba Medical Center, Tel-Aviv University, Tel Hashomer, Israel

09:42 **The Escalation and Mortality Dilemma in The Eyes of CTPA**
Israel Mazin¹, Orly Goitein², Roy Beigel¹, Romana Herskovitz¹, Sagit Ben Zekry³, Paul Fefer⁴, Elad Asher¹, Shlomi Matetzky¹
¹*Intensive Cardiac Care Unit (ICCU), Sheba Medical Center, Israel*
²*Radiology Department, Sheba Medical Center, Israel*
³*Non Invasive Cardiology Unit, Sheba Medical Center, Israel*
⁴*Invasive Cardiology Unit, Sheba Medical Center, Israel*

08:30-10:00 **New Frontiers in CV Regenerative Medicine**
Chairs: Alexander Battler, Gad Keren, Israel

Hall I

08:30 **Modelling of the Short QT Syndrome Using Human Induced Pluripotent Stem Cells**
Rami Shinnawi¹, Naim Shaheen¹, Irit Huber¹, Gil Arbel¹, Amira Gepstein¹, Anke Tijssen¹, Reiner Schimpf², Martin Boggrefe², Lior Gepstein¹
¹*Rappaport Faculty of Medicine and Research Institute, Technion – Israel Institute of Technology, Haifa, Israel*
²*Department of Medicine, University Hospital Mannheim, Mannheim, Germany*

08:42 **Patient/Disease-specific Pharmacological Screening Utilizing a Human Induced Pluripotent Stem Cells Model of CPVT2**
Leonid Maizels¹, Irit Huber¹, Gil Arbel¹, Anke Tijssen¹, Amira Gepstein¹, Asaad Khouri², Lior Gepstein³
¹*Physiology, The Sohnis Family Laboratory for Cardiac Electrophysiology and Regenerative Medicine, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel*
²*Pediatric Cardiology, Rambam Health Care Campus; Haifa Israel*
³*Cardiology Department, Rambam Health Care Campus; Haifa Israel*



- 08:54 **Left Atrial Appendage—an Untapped Source for Cardiac Repair after Myocardial Infarction**
Avishag Emanuelov, Jussi Leinonen, Sara Hoss, Yardanna Platt, Phillippe Yeonathan Bouaziz, Ronen Beeri
Cardiovascular Research Center Heart Institute, Hadassah- Hebrew University Medical Center, Jerusalem, Israel
- 09:06 **Attenuation of Diabetic Cardiomyopathy by Caloric Restriction Through PGC-1 α Activation**
Maayan Waldman^{1,2}, Keren Cohen^{1,2}, Michael Arad², Danny Gurfield¹, Dan Aravot¹, Edith Hochhauser¹
¹*Cardiac Research Laboratory, Felsenstein Medical Research Institute, Tel-Aviv University, Petah-Tikva, Israel*
²*Leviev Heart Center, Sheba Medical Center, Tel Aviv University, Ramat Gan, Israel*
- 09:18 **Haptoglobin Genotype as a Determinant of Benefit or Harm from Niacin in the AIM HIGH Study**
Rabea Asleh¹, Nina S. Levy², Gheorge Doros³, Tina Costacou⁴, Jennifer G. Robinson⁵, William E. Boden⁶, Debra L. Simmons⁷, Patrice Desvigne-Nickens⁸, George Grunberger⁹, Todd J. Anderson¹⁰, Andrew P. Levy²
¹*Department of Cardiology, Rambam Medical Center and Laboratory of Vascular Medicine, Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel*
²*Laboratory of Vascular Medicine, Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel*
³*Department of Epidemiology, Harvard Clinical Research Institute and Boston University School of Public Health, Boston, MA, USA*
⁴*Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, USA*
⁵*Colleges of Public Health and Medicine, University of Iowa, Iowa City, IA, USA*
⁶*Department of Medicine, Albany Stratton Veteran Affairs Medical Center, Albany, NY, USA*
⁷*Utah Diabetes and Endocrinology Center, University of Utah, Salt Lake City, UT, USA*
⁸*Division of Cardiovascular Sciences, National Heart Lung and Blood Institute, NIH, Bethesda, MD, USA*
⁹*Department of Endocrinology and Metabolism, Grunberger Diabetes Institute, Bloomfield Hills, MI, USA*
¹⁰*Department of Cardiac Sciences, Libin Cardiovascular Institute, Calgary, Alberta, Canada*





- 09:30 **EET, a Lipid Mediator, Upstream of PGC-1 α , is Required for HO-1 Activation and Mitochondrial Function During Adipocyte Differentiation**
Maayan Waldman^{1,2,3}, Luca Vanella^{1,4}, Lars Bellner¹, Joseph Schragenheim¹, Shailendra Singh¹, Daohong Lin¹, Anand Lakhkar¹, Marco Raffaele^{1,4}, Edith Hochhauser², Michael Arad³, Nader G. Abraham¹
¹*Department of Pharmacology, New York Medical College, NY, Valhalla, USA*
²*Cardiac Research Laboratory, Felsenstein Medical Research Institute, Tel-Aviv University, Petah-Tikva, Israel*
³*Levi Heart Center, Tel Aviv University, Sheba Medical Center, Ramat Gan, Israel*
⁴*Drug Science/Biochemistry, University of Catania, Department of . Catania, Italy and, Catania, Italy*
- 09:42 **The Modulation of Excitation-contraction Coupling in Isolated Cardiomyocytes by Microparticle-carried Sonic Hedgehog Protein**
Ludovit Paulis^{1,2}, Jeremy Fauconnier², Olivier Cazorla², Jerome Thireau², Raffaella Soletti³, Bastien Vidal², Aude Ouille², Marion Bartholome², Patrice Bideaux², Francois Roubille², Jean-Yves Le Guennec², Ramarosan Andriantsitohaina³, M. Carmen Martinez³, Alain Lacampagne²
¹*Institute of Pathological Physiology, Faculty of Medicine, Comenius University, Bratislava, Bratislava, Slovakia*
²*UMR CNRS 9214, Inserm U1046, Universite de Montpellier, CHRU Montpellier, Montpellier, France*
³*INSERM U1063, Stress Oxydant et Pathologies Metaboliques, LUNAM Universite, Angers, Angers, France*
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- 08:30-10:00 **Ami Cohen Award Competition** *Hall J*
Chairs: **Dan Bitran, Erez Sharoni, Dan Aravot, Israel**
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- 08:30 **Cefazolin versus Vancomycin and Ceftazidim for Prevention of Sternal Wound Infection after Cardiac Surgery**
Tomer Koler¹, Esther Houminer¹, Orit Blumenfeld², Amit Korach¹, Ehud Rudis¹, Uzi Izhar¹, Eldad Erez¹, Oz M. Shapira¹
¹*Department of Cardiothoracic Surgery, Hadassah Hebrew University Medical Center, Jerusalem, Israel*
²*Israel Center for Disease Control, Ministry of Health, Israel*



- 08:42 **Late Outcomes After Second Repair (Re-repair) for Degenerative Mitral Valve**
Amjad Shalabi¹, Hillit Cohen¹, Leonid Sternik¹, Boris Orlov¹, Alexanedr Kogan¹, Alexander Lipey¹, Uri Vaturi², Micha Feinberg², Ehud Raanani¹
¹Cardiac Surgery Department, Sackler School of Medicine, Tel- Aviv University, Israel
²Cardiology Derprtment, Sackler School of Medicine, Tel- Aviv University, Israel
- 08:54 **A Dedicated Slot in Honor for Prof. Francis Wellens**
Ehud Raanani
Israel
- 09:00 **Blood-brain Barrier Disruption Following Cardiopulmonary Bypass: Assessment by Postoperative Magnetic Resonance Imaging**
Dan Avramov¹, Oren Lev-Ran¹, s. Naparstek², Menachem Matsa¹, Lior Raichel¹, Tomer Kotek¹, Yaron Ishay¹, Shani Kaptzon¹, Mahmoud Abu salah¹, Gideon Sahar¹
¹The Department of Cardiothoracic Surgery, Soroka University Medical Center, Beer-Sheva, Israel
²The Department of Imaging, Soroka University Medical Center, Beer-Sheva, Israel
- 09:12 **Hemoglobin A1c Level in Patients with Diabetes Mellitus Predicts Adverse Outcomes Following Coronary Artery Bypass Surgery**
Muhammad Abu Tailakh^{1,2,3}, Yaron Ishay Shlomo^{2,3}, Janan Awesat², Michael Friger², Victor Novack^{1,2,4}, Gideon Sahar^{2,3}
¹Clinical Research Center, Soroka University Medical Center, Israel
²Faculty of Health Sciences, Ben Gurion University of the Negev, Israel
³Department of Cardiothoracic Surgery, Soroka University Medical Center, Israel
⁴Division of Medicine, Soroka University Medical Center, Israel
- 09:24 **Using Multidisciplinary Approach Pulmonary Thromboendarterectomy is Safe with Excellent Late Outcomes**
Ronny Ben-Avi¹, Michael Segel^{1,2}, Sergey Preisman^{1,3}, Leonid Sternik¹, Ehud Raanani¹, Hans-Joachim Schafers⁴, Alexander Kogan¹
¹Cardiothoracic Surgery, Sheba Medical Center, Tel Hashomer, affiliated with the Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
²Pulmonology, Sheba Medical Center, Tel Hashomer, affiliated with the Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
³Anaesthesiology, Sheba Medical Center, Tel Hashomer, affiliated with the Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
⁴Cardiothoracic Surgery, Universitatsklinikum des Saarlandes, Homburg, Germany





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- 08:30-10:00** **Heart Disease from Childhood to Adult Life** *Hall 3*
Chairs: **Sergey Yalonetsky, Joseph Danieli, Israel**
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- 08:30 **Ebstein's Anomaly in Childhood: Factors at Time of Diagnosis that are Associated with Death and Total Survival and Surgical Outcome. A Multicenter Long-term Study**
Livia Kapusta
The Netherlands
- 08:45 **Lymphatic System Abnormalities Imaging and Interventions in Patients with Heart Disease**
Yoav Dori
USA
- 09:00 **Atopic Predisposition among Kawasaki Patients – A Cross-Sectional Study among 1,187,757 Teenagers**
Ilan Merdler¹, Ayal Hassidim¹, Odelia Chorin², Ilan Dallal², Ehud Chorin³
¹*Medical Corps, Israeli Defense Forces, Israel*
²*Pediatrics, E. Wolfson Medical Center, Holon, Israel*
³*Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel*
- 09:12 **Identifying the Genetic Cause of Congenital Heart Defects using Exome Analysis**
Asaf Ta-Shma¹, Zeev Perles¹, Nael Al-lahham¹, Prof. Amiram Nir¹, Sagui Gavri¹, Julius Golender¹, Nurit Yaakobi-Simhayoff¹, Ibrahim Abu Zehira¹, Avraham Shaag², Azaria Rein¹, Orly Elpeleg²
¹*Department of Pediatric Cardiology, Hadassah, Hebrew University Medical Center, Jerusalem, Israel*
²*Monique and Jacques Roboh Department of Genetic Research, Hadassah, Hebrew University Medical Center, Jerusalem, Israel*



09:24

Characteristics and Health Services Utilization among Adults with Congenital Heart Malformations in Israel

Michal Benderly^{1,2}, Leonard Blieden^{2,3}, Jonathan Buber⁴, Alexander Dadashev^{2,3}, Ofra Kalter-Leibovici^{1,2}, Avraham Lorber⁵, Amiram Nir⁶, Sergei Yalonetsky⁵, Gabriel Chodick^{2,7}, Dalia Weitzman^{7,8}, Ran Balicer⁹, Havi Murad¹, Rafael Hirsch^{2,3}, On behalf of the Israeli Congenital Heart Disease Research Group¹

¹*Cardiovascular Epidemiology Unit, Gertner Institute for Epidemiology and Health Policy Research, Sheba Medical Center, Ramat-Gan, Israel*

²*Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel*

³*Adult Congenital Heart Disease Unit, Rabin Medical Center, Petach Tikva, Israel*

⁴*Heart Institute, Sheba Medical Center, Ramat-Gan, Israel*

⁵*Pediatric Cardiology and GUCH Unit, Technion Faculty of Medicine, Rambam Health Care Campus, Haifa, Israel*

⁶*Department of Pediatric Cardiology, Hebrew University Medical Center, Hadassah, Jerusalem, Israel*

⁷*Medical Division, Maccabi Healthcare Services, Tel Aviv, Israel*

⁸*Faculty of Health Sciences, Ben-Gurion University of the Negev, Negev, Israel*

⁹*Clalit Research Institute, Clalit Health Services, Tel Aviv, Israel*

09:36

Prevalence of Coronary Artery Disease, Risk Factors and Implications on Healthcare Services Utilization in a Large Cohort of Adults with Congenital Heart Disease in Israel

Yonatan Buber^{1,8}, Leonard Blieden^{2,8}, Alexandeer Dadashev^{2,8}, Rafael Hirsh^{2,8}, Ofra Kalter-Leibovici^{3,8}, Avraham Lorber^{4,9}, Amiram Nir^{5,10}, Sergei Yalonetsky^{4,9}, Gabriel Chodick⁶, Dalia Weitzman⁶, Ran Balicer⁷, Michal Benderly^{3,8}

¹*Cardiology, Sheba Medical Center, Ramat Gan, Israel*

²*Cardiology, Rabin Medical Center, Petach Tikva, Israel*

³*Cardiovascular Epidemiology Unit, Gertner Institute for Epidemiology and Health Policy Research, Ramat Gan, Israel*

⁴*Pediatric Cardiology and GUCH Unit, Rambam healthcare campus, Haifa, Israel*

⁵*Department of Pediatric Cardiology, Hadassah medical center, Jerusalem, Israel*

⁶*Medical division, Maccabi Healthcare Services*

⁷*Clalit Research Institute, Clalit health services, Israel*

⁸*Sackler Faculty of Health, Tel Aviv University, Tel Aviv, Israel*

⁹*Faculty of Medicine, Technion, Haifa, Israel*

¹⁰*Faculty of medicine, Hebrew university, Jerusalem, Israel*





09:48 **Use of the Amplatzer Vascular Plug II for Occlusion of the Native Right Ventricular Outflow Tract in Single Ventricle Palliation**
Sharon Borik, Tal Tirosh, Ihab Khatib, David Mishaly, Alain Serraf, Joseph Danieli
Safra International Congenital Heart Center, Chaim Sheba Medical Center and Tel Aviv University, Ramat Gan, Israel

08:30-10:00 **Epidemiology and Prevention I** *Hall 4*
Chairs: Yaakov Henkin, Ophir Avizohar, Israel

08:30 **Trends of AMI Hospital Admissions, In-hospital and One-year Post-discharge All-cause Mortalities Among Jews and Bedouins (2002-2012) – Population Based Study**
Ygal Plakht¹, Arthur Shiyovich², Harel Gilutz¹
¹*Faculty of Health Sciences, Soroka University Medical Center and Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Internal Medicine E, Rabin Medical Center, Beilinson Hospital, Petah-Tikva, Israel*

08:42 **Predictors of Long-term Mortality for Survivors of Out-Of-Hospital Cardiac Arrest**
Mony Shuvy^{1,2}, Laurie J. Morrison³, Damon C. Scales², Harindra C. Wijeyesundera^{2,4}, Feng Qiu⁴, Paul Dorian³, Richard Verbeek², Jason Buick³, Maria Koh⁴, Jack Tu⁴, Dennis T. Ko^{2,4}
¹*Heart Institute, Hadassah Hebrew University Medical Centre, Jerusalem, Israel*
²*Schulich Heart Centre, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada*
³*Rescu, Li Ka Shing Knowledge Institute,, St. Michael's Hospital, Canada, Ontario, Canada*
⁴*Institute for Clinical Evaluative Sciences, Institute for Clinical Evaluative Sciences, Canada, Ontario, Canada*

08:54 **Insulin Resistant States Predict Cognitive Performance and Cognitive Decline in Coronary Heart Disease Patients**
Miri Lutski¹, Galit Weinstein³, David Tanne², Uri Goldbourt^{1,4}
¹*Department of Epidemiology, Tel Aviv University, Tel Aviv, Israel*
²*Neurology, Sheba Medical Center, Tel Hashomer, Israel*
³*Faculty of Health Sciences, University of Haifa, Israel*
⁴*Neufeld Cardiac Research Institute, Tel Aviv University, Tel Hashomer, Israel*



- 09:06 **Decreased Admission Albumin Level is an Independent Predictor of Long-term (10-years) Mortality Following Acute Myocardial Infarction**
Arthur Shiyovich¹, Harel Gilutz², Ygal Plakht³
¹*Medicine E, Beilinson Hospital, Rabin Medical Center, Petah Tikva, Israel*
²*Cardiology, Soroka University Medical Center, faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel*
³*Unit of Nursing Research, Soroka University Medical Center, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel*
- 09:18 **CHADS2 and CHA2DS2VASc Scores in Patients with Cardiovascular Diseases Admitted to the Hospital**
Dmitry Dratva, Marc Klutstein, Mady Moriel, Tal Hasin, Rafael Wolff, Moshe Rav-Acha, Adi Butnaru, Aaron Medina, David Rosenmann, Jonathan Balkin, Dan Tzivoni, Giora Weisz
Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel
- 09:30 **Severe Familial Hypercholesterolemia: Prevalence and Characterization of Patients Presenting for Cardiac Catheterization**
Barak Zafir^{1,4}, Chen Shapira^{2,4}, Gil Lavie^{3,4}, David A Halon^{1,4}, Moshe Y Flugelman^{1,4}
¹*Cardiovascular Division, Lady Davis Carmel Medical Center, Haifa, Israel*
²*Director, Clalit Health Services, Haifa and Western Galilee District, Israel*
³*Department of Medicine, Lady Davis Carmel Medical Center, Haifa, Israel*
⁴*Ruth and Bruce Rappaport Faculty of Medicine, Technion - Israel Institute of Technology, Haifa, Israel*
- 09:42 **The Effectiveness of a Health Promotion Program in 5th-6th Grade Children in Beit Dagan - Second Year Follow Up**
Tal Aperman- Itzhak¹, Sigal Eilat- Adar^{1,2}, Zvi Vered³
¹*Department of Epidemiology and Preventive Medicine, Sackler Medical Faculty, Tel Aviv University, Tel Aviv, Israel*
²*Zinman College for Physical Education & Sports, Wingate Institute, Netanya, Israel*
³*Department of Cardiology Assaf Harofeh Medical Center, Tel Aviv University, Tel Aviv, Israel*

10:00-10:30 **Coffee Break, Exhibition & E-posters Visit** *Exhibition*





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|-------------|--|------------|
| 10:30-12:30 | Plenary I - Opening Ceremony Chairs: Michael Glikson, Ronen Rubinstein, Israel Heart Society Gil Bolotin, Erez Kachel, Israel Society of Cardio Thoracic Surgery | ABC |
| 10:30-12:30 | Plenary Session I - Opening Ceremony Opening Introductions: The Honorable Minister <i>Rabbi Yaakov Litzman</i> , Minister of Health <i>Michael Glikson</i> – President, Israel Heart Society <i>Gil Bolotin</i> - Chairman, Israel Society of Cardiothoracic Surgery Awarding of New Honorary Members of the Israel Heart Society: <i>Professor Elieser Kaplinsky</i> <i>Professor Chaim Lotan</i> <i>Professor Panos E. Vardas</i> Recognition of Educational Activity for Prevention of Heart Diseases <i>Mrs. Sara Ben Zvi</i> Fellowship Awards of the Israel Heart Society Recognition of the Industry Round Table of the Israel Heart Society and the Israel Society of Cardiothoracic Surgery | |
| 11:30-11:40 | Henry Neufeld Awards | |
| 11:40-12:10 | Neufeld Memorial Lecture Looking into the Future of PCSK9 Inhibition <u>C. Michael Gibson</u> <i>Chief of Clinical Research, Division of Cardiology</i> <i>Harvard's Beth Israel Deaconess Medical Center, Boston, USA</i> | |
| 12:10-12:30 | Heart Team <u>Jan C.A. Hoorntje</u> <i>Coordinator South Limburg</i> <i>Interventional Cardiology Platform, The Netherlands</i> | |
| 12:30-14:30 | Lunch & Lunch Sessions, Exhibition & E-Posters Visit | Exhibition |



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|-------------|--|---------------|
| 12:30-14:30 | Lunch Session - Sponsored By <i>Boehringer Ingelheim</i> Dabigatran 2016: Innovation in Anticoagulation Care CO-Chairs: Dan Atar, Norway, Michael Glikson, Israel | <i>Hall H</i> |
| 12:30-12:45 | Gathering | |
| 12:45-13:00 | Opening : Anticoagulation care 3.0 - NOACs in 2016 and beyond Dan Atar <i>Dept. of Cardiology B</i> <i>Vice-President of the ESC</i> <i>Oslo University Hospital, Norway</i> | |
| 13:00-13:20 | Real-world experience with dabigatran – reassurance for daily practice Yoseph Rozenman <i>Head, Cardiovascular Institute, The Edith Wolfson Medical Center</i> <i>Immediate Past President, Israel Heart Society, Israel</i> | |
| 13:20-13:40 | Innovation in anticoagulation care: Availability of the antidote – Closing the circle Chaim Lotan <i>Chairman of the Cardiovascular Division, Hadassah Medical Center</i> <i>Immediate Past President - Israel Heart Society</i> <i>Co-Course Director ICI meeting, Israel</i> | |
| 13:40-14:00 | Panel discussion – Clinical Cases in which the Antidote “Made the Difference” Michael Glikson <i>Director of Davidai Arrhythmia Center</i> <i>President of Israel Heart Society</i> <i>Leviev Heart Center, Sheba Medical Center, Israel</i> | |
| 14:00-14:10 | Q & A | |
| 12:30-14:30 | Lunch Session - Sponsored By <i>AstraZeneca</i> Prolonged DAPT Where Do We Stand Post PEGASUS & DAPT Trials? Chairman: Prof. Ran Kornowski | <i>Hall I</i> |
| 12:30-12:45 | Lunch – First Course | |
| 12:45-12:55 | Opening and case presentation Prof. Ran Kornowski | |
| 12:55-13:10 | The OPTIDUAL Randomized Trial: Twelve Vs 48 Months of Dual Antiplatelet Therapy after Drug-Eluting Stent Placement Prof. Gérard Helft | |
| 13:10-13:35 | Prolonged DAPT – Where Do We Stand Post PEGASUS & DAPT Trials? Prof. Shlomi Matetzky | |





TUESDAY, APRIL 12, 2016

- 13:35-14:00 **Panel Discussion**
Chairman: Prof. Ran Kornowski
Panel members: Prof. Gérard Helft, Prof. Eli Lev, Prof. Shlomi Matetzky, Prof. Doron Zahger
- 14:00-14:20 **Lunch**
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- 12:30-14:30 **Lunch Session - Sponsored By *Sanofi*** *Hall J*
PCSK9 Inhibition: Heraldng a New Era for Prevention of Cardiovascular Disease"
-
- Keynote speaker: M. John Chapman BSc (Hons), PhD, DSc, FESC**
Research Professor, University of Pierre and Marie Curie, Director Emeritus, INSERM Dyslipidemia and Atherosclerosis Research, Past-President, European Atherosclerosis Society, Pitie-Salpetriere University Hospital, Paris, France
- Expert panel: Prof. Dror Harats, Prof. Leitersdorf Eran, Prof. David Hasdai**
-
- 12:30-14:30 **Lunch - Annual Meeting of the Israeli Society of Cardiothoracic Surgery** *Gallery Hall*
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- 14:30-16:00 **Plenary II – Joint Session: European Society of Cardiology (ESC) – Israel Heart Society (IHS)–The ESC Presents** *ABC*
Chairs: Fausto J. Pinto, Portugal, Panos Vardas, Greece, Michael Glikson, Israel
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- 14:30 **Overview – ESC & IHS Long Term Relationship**
Fausto J. Pinto
Portugal
- 14:40 **Imaging in Heart Failure**
Jeroen J. Bax
The Netherlands
- 15:00 **Genetics of Cardiovascular Disease**
Eloisa Arbustini
Italy
- 15:20 **Therapies to Prevent Reperfusion Injury in STEMI: A Status 2016**
Dan Atar
Norway
- 15:40 **New Horizons in the Treatment of Atrial Fibrillation**
Gerhard Hindricks
Germany



TUESDAY, APRIL 12, 2016

16:00-16:30 **Coffee Break, Exhibition & E-posters Visit** *Exhibition*

16:30-18:00 **Interventional Cardiology II** *Hall A*
Chairs: Amit Segev, Eugenia Nikolsky, Israel

16:30 **Image-based FFR_{Angio} During Coronary Catheterization**
Ran Kornowski¹, Ifat Lavi¹, Hana Vaknin-Assa¹, Abid Assali¹, Orna Valtzer¹,
Mariano Pellicano², Vincent Flore², Bernard De Bruyne²
¹*Interventional Cardiology, 1Rabin Medical Center, Petach Tikva, Israel, Petach Tikva, Israel*
²*Interventional Cardiology, 2Cardiovascular Center Aalst, OLV Hospital, Aalst, Belgium, Aalst, Belgium*

16:42 **Impact of Renal Dysfunction on Transcatheter Aortic Valve Replacement Outcome in a Large Multicenter Cohort**
Amos Levi¹, Pablo Codner¹, Giuseppe Gargiulo², Fabien Praz³,
Kentaro Hayashida⁴, Amer Masalha¹, Yusuke Watanabe⁵, Darren Mylotte⁶,
Nicolas Debry⁷, Marco Barbanti², Thierry Lefevre⁵, Thomas Modine⁷,
Johan Bosmans⁸, Stephan Windecker³, Israel Barbash⁹,
Jan-Malte Sinning¹⁰, Alon Barsheshet¹, Ran Kornowski¹
¹*Cardiology, Rabin Medical Center, Petah-Tikva, Israel*
²*Cardiology, Ferrarotto Hospital, Italy*
³*Cardiology, Inselspital University Hospital, Bern, Switzerland*
⁴*Cardiology, Keio University Hospital, Japan*
⁵*Cardiology, Institute Cardiovasculaire Paris Sud, France*
⁶*Cardiology, Galway University Hospital, Ireland*
⁷*Cardiology Department, CHRU, Lille, France*
⁸*Cardiology, University Hospital, Antwerp, Belgium*
⁹*Cardiology, Sheba Medical Center, Ramat Gan, Israel*
¹⁰*Cardiology, Bonn University Hospital, Germany*

16:54 **Feasibility and Safety of The Antecubital Venous Access for Right Heart Catheterization in Pulmonary Hypertension**
Avital Avriel¹, Avi Shimony², David Kriaf², Romi Kon², Gabriel Rosenstein²,
Miri Merkin², Yael Raviv¹, Doron Zahger², Carlos Cafri²
¹*Pulmonology Institute, Department of Internal Medicine, Soroka University Medical Center, Ben-Gurion University, Beer-Sheva, Israel*
²*Cardiology Department, Soroka University Medical Center, Ben-Gurion University, Beer-Sheva, Israel*





- 17:06 **Aortic Valve Gradient and Mortality in Patients Undergoing Transcatheter Aortic Valve Implantation for Severe Aortic Stenosis**
Guy Witberg¹, Issy Barbash², Arik Finkelstein³, Abid Assali¹, Amit Segev², Amir Halkin³, Paul Fefer², Jeremy Ben-Shoshan³, Maayan Konigstein³, Victor Guetta², Ran Kornowski¹, Alon Barsheshet¹
¹Department of Cardiology, Rabin Medical Center, Petach Tikva, Israel
²Leviev Heart Center, Chaim Sheba Medical Center, Tel Hashomer, Israel
³Department of Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 17:18 **Urgent Transcatheter Aortic Valve Implantation in Patients with Severe Aortic Stenosis and Acute Heart Failure: Procedural and 30 Days Outcomes**
Uri Landes, Katia Orvin, Pablo Codner, Abid Assali, Hana Vaknin-Assa, Shmuel Schwartzberg, Amos Levi, Yaron Shapira, Alexander Sagie, Ran Kornowski
Cardiology, Rabin Medical Center, Petah-tikva, Israel
- 17:30 **Late Hemodynamic Improvement of Mitral Prosthesis After Transcatheter Mitral Valve In Valve Implantation**
Eyal Nachum¹, Israel Barabash², Victor Guetta², Amit Segev², Paul Pefer², Boris Orlov¹, Amihai Shinfeld¹, Ehud Raanani¹
¹Cardiac Surgery, Chaim Sheba Medical Center, Tel-Hashomer, Ramat-Gan, Israel
²Cardiology, Chaim Sheba Medical Center, Tel-Hashomer, Ramat-Gan, Israel
- 17:42 **Left Ventricular Mass to Coronary Blood Volume Ratio in Discrimination of Hypertrophic Phenotypes: Hypertrophic Cardiomyopathy and Hypertensive Heart Disease**
Ashraf Hamdan¹, Ehud Schwammenthal², Monakier Daniel¹, Ariel Gutstein¹, Gideon Shafir³, Abid Assali¹, Ran Kornowski¹
¹Department of Cardiology, Rabin Medical Center
²Department of Cardiology, Sheba Medical Center
³Department of Diagnostic Imaging, Rabin Medical Center
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- 16:30-18:00 **Joint Session: The Israel Working Group on Echocardiography and the Israel Society of Cardiothoracic Surgery** *Hall B*
Chairs: Ehud Raanani, Yaron Shapira, Rafael Kuperstein, Israel
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- 16:30 **Cardiac War Injuries, Management of Penetrating Cardiac Shrapnel**
Ziv Beckerman¹, Oved Cohen¹, Zvi Adler¹, Hany Bahouth², Yoram Kluger², Gil Bolotin¹
¹Cardiac Surgery, Rambam Healthcare Campus, Haifa, Israel
²General Suregry, Rambam Healthcare Campus, Haifa, Israel



- 16:42 **Late Outcomes After Aortic Valve Repair**
Eilon Ram, Hillit Cohen, Alexander Kogan, Shani Levin, Sagit Ben Zikri, Ehud Raanani
Departments of Cardiac Surgery and Echocardiography, The Leviev Heart Center, Sheba Medical Center, Ramat Gan, Israel
- 16:54 **Late Outcomes After Second Repair (Re-repair) for Degenerative Mitral Valve**
Amjad Shalabi¹, Hillit Cohen¹, Leonid Sternik¹, Boris Orlov¹, Alexanedr Kogan¹, Alexander Lipey¹, Uri Vaturi², Micha Feinberg², Ehud Raanani¹
¹*Cardiac Surgery Department, Sackler School of Medicine, Tel- Aviv University, Israel*
²*Cardiology Deptment, Sackler School of Medicine, Tel- Aviv University, Israel*
- 17:06 **Treatment of Mitral Bio-Prosthetic Valve Deterioration Using Trans Apical Valve in Valve Technique: Intermediate-term Outcomes**
Ram Sharony, Abid Assali, Hana Vaknin Assa, Yaron Shapira, Alexander Sagie, Isreal Kuznitz, Inbal Baruch, Dan Aravot, Ran Kornowski
Cardiothoracic Surgery and the Cardiology, Rabin Medical Center, Israel
- 17:18 **Prediction of Post-operative Left Ventricular Dysfunction in Patients with Severe Mitral Regurgitation**
Michal Laufer Per¹, Yan Topilsky¹, Yanai Ben Gal², Gideon Uretsky², Simon Biner¹
¹*Department of Cardiology, Cardiology, Tel Aviv, Israel*
²*Cardiothorasic Surgery Department, Cardiothorasic, Israel*
- 17:30 **Supra-annular (Intra-atrial) Mitral Valve Replacement in Patients with Extremely calcified Mitral Valve Annulus**
Boris Orlov¹, Yaron Moshkovitz², Ronny Ben-Avi¹, Alexander Kogan¹, Leonid Sternik¹, Ehud Raanani¹
¹*Cardiothoracic Surgery, Sheba Medical Center, Tel Hashomer affiliated with th Sackler School of Medicine, Tel Aviv, Israel*
²*Cardiothoracic Surgery, Assuta Medical Center, Tel Aviv, Israel*
- 17:42 **Does Concomitant Surgical Atrial Fibrillation Ablation Increase Immediate and Early Risk of Mitral Surgery?**
Leonid Sternik, Alexander Kogan, Roy Beinart, Michael Glikson, Shany Levin, Ehud Raanani
Cardiac Surgery and Cardiology Department, Sheba Medical Center, Tel- Hashomer.





16:30-18:00 **Kellerman Award Competition** Hall C
Chairs: Joseph Shemesh, Eli Lev, Israel

16:30 **Novel E-selectin Binding Polymers Reduce Atherosclerotic Lesions in ApoE^(-/-) mice**
Olga Tsoref^{1,2}, Natalie Landa¹, David Kain^{1,2}, Dalia Tyomkin³, Ayelet David³, Jonathan Leor^{1,2}

¹Sheba Medical Center, Tamman Cardiovascular Research Institute, Israel

²Tel-Aviv University, Neufeld Cardiac Research Institute, Israel

³Ben-Gurion University of the Negev, Department of Clinical Biochemistry and Pharmacology, Faculty of Health Sciences, Israel

16:42 **Direct Reprogramming of Fibroblasts in a Failing Heart Improves Cardiac Function**
Natali Molotski^{1,2}, David Kain^{1,2}, Uri Amit^{1,2}, Moshe Katz^{1,2}, Natalie Landa^{1,2}, Alina Levich^{1,2}, Jonathan Leor^{1,2}

¹Neufeld Cardiac Research Institute, Sheba Medical Center, Tel Aviv University, Israel

²Sheba Center for Regenerative Medicine, Stem Cell, and Tissue Engineering, Tel-Hashomer, Israel

16:54 **Body Mass Index in 2,298,130 Adolescents and Cardiovascular Mortality in Adulthood**
Gilad Twig^{1,2,3,4}, Gal Yaniv^{1,3}, Hagai Levine⁶, Adi Leiba^{1,3,4}, Nehama Goldberger⁵, Estela Derazne^{3,4}, Dana Ben-Ami Shor^{1,4}, Dorit Tzur³, Arnon Afek^{4,5}, Ari Shamiss^{1,4}, Ziona Haklaj⁵, Jeremy Kark⁶

¹Department of Medicine, Sheba Medical Center, Israel

²The Pinhas Borenstein, Talpiot Medical Leadership Program, Sheba Medical Center, Israel

³The Medical Corps, Israel Defense Forces

⁴The Sackler School of Medicine, Tel Aviv University, Israel

⁵, The Israeli Ministry of Health

⁶School of Public Health and Community Medicine, Hebrew University-Hadassah, Israel



17:06

The Effect of Moderate Wine Intake on Carotid Atherosclerosis in Type 2 Diabetes, A 2-year Intervention Study

Rachel Golan¹, Ilana Harman-Boehm², Dan Schwarzfuchs³, Ilan Shelef², Yftach Gepner¹, Shula Witkow¹, Idit F Liberty², Benjamin Sarusi³, Uta Ceglarek⁴, Michael Stumvoll⁴, Matthias Blüher⁴, Joachim Thiery⁴, Meir J Stampfer⁵, Assaf Rudich¹, Iris Shai¹, Yaakov Henkin²

¹*Department of Public Health, Ben-Gurion University of the Negev, Beer Sheva, Israel*

²*Soroka University Medical Center, Soroka University Medical Center, Beer Sheva, Israel*

³*Nuclear Research Center Negev, Nuclear Research Center Negev, Dimona, Israel*

⁴*Department of Medicine, University of Leipzig, Leipzig, Germany*

⁵*Department of Medicine, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard School of Public Health, Boston, MA, USA*

17:18

Gold Nanoparticles Coated with High Density Lipoprotein Enable Both Simultaneous Detection and Therapy of Macrophage-rich Plaques in Animal Models

Dorit Leshem-Lev¹, Rinat Ankri², Emanuel Harari¹, Menachem Motiei², Ran Kornowski¹, Edith Hochhauser¹, Dror Fixler², Eli Lev¹

¹*Cardiology Department Rabin Medical Center, Cardiovascular Research Laboratories, Felsenstein Medical Research Center, Petah-Tikva, Israel*

²*Bar-Ilan University, Faculty of Engineering and Institute of Nanotechnology and Advanced Materials, Ramat-Gan, Israel*

17:30

Development of Novel Human Engineered Heart Tissue Models by the Use of Human iPSCs-Derived Cardiomyocytes and Cardiac-specific Extracellular Matrix

Idit Goldfracht¹, Rami Shinnawi¹, Yael Efraim², Irit Huber¹, Gil Arbel¹, Amira Gepstein¹, Wolfram-Hubertus Zimmermann³, Marcel Machluf², Lior Gepstein¹

¹*Rappaport Faculty of Medicine and Research, Technion-Israel Institute of Technology, Israel*

²*Faculty of Food and Biotechnology Engineering, Technion-Israel Institute of Technology, Israel*

³*Institute of Experimental and Clinical Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf, Germany*





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- 16:30-18:00 Intensive Cardiac Care** *Hall H*
Chairs: Doron Zahger, Simcha Meisel, Israel
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- 16:30 **Contemporary Snapshot of the Heterogeneity Admixture of Patients Admitted to a Large Tertiary Center Intensive Cardiac Care Unit - PLATIS ICCU**
Shlomi Matetzky, Elad Asher, Israel Mazin, Nitza Levi, Paul Fefer, Roy Beigel
Intensive Cardiac Care Unit, The Leviev Heart Center, Sheba Medical Center, Tel-Aviv University, Tel Hashomer, Israel
- 16:42 **Contemporary Characteristics of Patients Admitted with and without an ACS to the Intensive Cardiac Care Unit – Results from a Large Tertiary Center Registry. PLATIS-ICCU**
Roy Beigel, Elad Asher, Israel Mazin, Nitza Levi, Paul Fefer, Shlomi Matetzky
Intensive Cardiac Care Unit, The Leviev Heart Center, Sheba Medical Center, Tel-Aviv University, Tel Hashomer, Israel
- 16:54 **Decreased Length of Stay in the Intensive Cardiac Care Unit with Preserved Clinical Outcome Over the Last Decade**
Amir Orlev, Arthur Pollak, Chaim Lotan, Israel Gotsman
Department of Cardiology, Hadassah-Hebrew University Medical Center, Jerusalem, Israel
- 17:06 **Clinical Predictors of the Level of Circulating Immature Platelets in Patients with Acute Coronary Syndrome**
Adi Lador¹, Adaya Weissler-Snir¹, Aryeh Abelow², Doron Lederfein³, Negba Hen Hanuka³, Ran Kornowski¹, Eli Lev¹
¹*Cardiology Department, Rabin medical center, Beilinson Campus, Petah-Tikva, Israel*
²*Internal Medicine A, Rabin Medical Center, Beilinson Campus, Petah-Tikva, Israel*
³*Hematology laboratory, Rabin Medical Center, Hasharon campus, Petah-Tikva, Israel*
- 17:18 **Association of Immature Platelets with Adverse Cardiac and Cerebrovascular Outcomes**
Adi Lador¹, Adaya Weissler-Snir¹, Aryeh Abelow², Doron Lederfein³, Negba Hen Hanuka³, Ran Kornowski¹, Eli Lev¹
¹*Cardiology Department, Rabin medical center, Beilinson Campus, Petah-Tikva, Israel*
²*Internal Medicine A, Rabin Medical Center, Beilinson Campus, Petah-Tikva, Israel*
³*Hematology and Coagulation Laboratory, Rabin Medical Center, Hasharon Campus, Petah-Tikva, Israel*



- 17:30 **Sensitivity and Specificity of Two Different Automated External Defibrillators (AED) Used in in-Hospital and Out-Of-Hospital Cardiac Arrest**
Joerg Carlsson^{1,2}, Johan Israelsson^{1,2}, Kristofer Årestedt², Burkard Von Wangenheim¹
¹*Dept. of Cardiology, Kalmar County Hospital, Kalmar, Sweden*
²*Faculty of Health and Life Sciences, Linnaeus University, Kalmar, Sweden*
- 17:42 **Respiratory Guard System: New Technology**
Zvi Peled¹, Avishai Zisser², Michal Fertouk¹, Keren Bitton-Worms¹, Victor Kerzman¹, Gil Bolotin¹
¹*Department of Cardiac Surgery, Rambam Health Care Campus, Technion – Faculty of Medicine, Haifa, Israel*
²*Department of Anesthesia, Rambam Health Care Campus, Technion – Faculty of Medicine, Haifa, Israel*
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- 16:30-18:00 **Joint Session: The Working Group on Myocardial & Pericardial Diseases / Heart Failure and Israel Society of Cardiothoracic Surgery: Surgical Treatment of Advanced Heart Failure** *Hall I*
Chairs: Jacob Lavee, Tuvia Ben-Gal, Israel
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- 16:30 **Trends of Early and Late Rejection Rates Following Heart Transplantation Over the Past Two Decades: Real world Data from a National Tertiary Center Registry**
Moshe Katz¹, Jacob Lavee², Yedael Har-Zahav¹, Michael Arad¹, Yedida Shemesh¹, Yigal Kassif², Nir Shlomo³, Ilan Goldenberg¹, Dov Freimark¹, Yael Peled¹
¹*Cardiology, Sheba Medical Center, Israel*
²*Cardiothoracic Surgery, Sheba Medical Center, Israel*
³*The Israeli Association for Cardiovascular Trials, Sheba Medical Center, Israel*
- 16:42 **The Impact of Gender Mismatching on Early and Late Outcomes Following Heart Transplantation**
Yael Peled¹, Moshe Katz¹, Jacob Lavee², Michael Arad¹, Yedida Shemesh¹, Yigal Kassif², Yedael Har-Zahav¹, Ilan Goldenberg¹, Dov Freimark¹
¹*Cardiology, Sheba Medical Center, Israel*
²*Cardiothoracic Surgery, Sheba Medical Center, Israel*
- 16:54 **Gender Differences in Mortality of Candidates for Heart Transplantation in Israel**
Sergei Amunts¹, Yigal Kassif¹, Yael Peled², Yedael Har-Zahav², Dov Freimark², Dan Admon³, Tuvia Ben Gal⁴, Jacob Lavee¹
¹*Cardiac Surgery, Leviev Heart Center, Sheba Medical Center, Israel*
²*Cardiology, Leviev Heart Center, Sheba Medical Center, Israel*
³*Cardiology, Hadassah Medical Center, Israel*
⁴*Cardiology, Rabin Medical Center, Israel*





- 17:06 **Left Ventricular Assist Device Therapy for Advanced Heart Failure – the Sheba experience**
Avishay Grupper, Dov Freimark, Yigal Kassif, Yedida Shemesh, Alexander Kogan, Sergey Preisman, Jacob Lavee
Levie Heart Center, Sheba Medical Center, Tel Hashomer, Israel
- 17:18 **Continuous Flow Left Ventricular Assist Devices: One Year Survival by Era. A Single Center Experience**
Daniel Murninkas¹, Binyamin Ben Avraham¹, Israel Mats¹, Tal Hassin¹, Victor Rubchevsky², Miriam Abuhazira², Dimitry Golubov², Viki Yaari¹, Yulia Zusman¹, Benjamin Medalion², Ran Kornowsky¹, Dan Aravot², Tuvia Ben Gal¹
¹*Cardiology, Rabin Medical Center, Petach Tikva, Israel*
²*Cardiac Surgery, Rabin Medical Center, Petach Tikva, Israel*
- 17:30 **Endothelial Dysfunction During Continuous Flow Left Ventricular Assist Device Support: Effects on the Number and Function of Endothelial Progenitor Cells**
Tal Hasin¹, Eli Lev^{2,3}, Dorit Leshem-Lev³, Daniel Murninkas², Benjamin Ben-Avraham², Miriam Abuhazira⁴, Dmitry Golubov⁴, Victor Rubchevsky⁴, Dan Aravot⁴, Ran Kornowski², Tuvia Ben-Gal²
¹*Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel*
²*Cardiology, Rabin Medical Center, Petah-Tikva, Israel*
³*Vascular Research, The Felsenstein Medical Research Institute, Petah-Tikva, Israel*
⁴*Cardiothoracic Surgery, Rabin Medical Center, Petah-Tikva, Israel*
- 17:42 **Peripheral Vein Saturation May be Used as a Surrogate Marker for Increased Susceptibility to Gastrointestinal Bleeding in LVAD Patients**
Yaron D. Barac¹, Victor Rubchevsky¹, Tuvia Ben-Gal², Ram Sharony¹, Daniel Murninkas², Miriam Abuhazira¹, Dimitry Golubov¹, Victoria Yaari², Tal Hasin², Ben Ben-Avraham², Benjamin Medalion¹, Eitan Snir¹, Ran Kornowski², Dan Aravot¹
¹*The Cardiothoracic Department, Rabin Medical Center, Petach Tikva, Israel*
²*The Cardiology Department, Rabin Medical Center, Petach Tikva, Israel*



TUESDAY, APRIL 12, 2016

16:30-18:00 **AFICARDIO - Management of Cardiotoxicity of Antineoplastic Drugs** *Hall J*
Chairs: Ariel Aaron Cohen, France, Bernard Belhassen, Israel

16:30 **Pathophysiology of Cardiotoxicity of Antineoplastic Drugs**
Atul Patak
France

16:50 **Evaluation of Toxicity with Biomarkers**
Zaza Iakobishvili
Israel

17:10 **Cardiac Imaging of Cardiotoxicity**
Avinoam Shiran
Israel

17:30 **Therapies to Prevent Cardiotoxicity**
Stephane Ederhy
France

17:50 **Discussion**

16:30-18:00 **Comprehensive Cardiac Imaging** *Hall 3*
Chairs: Tali Sharir, Jonathan Lessick, Israel

16:30 **Pulmonary Hypertension: A Nomogram Based on CT Pulmonary Angiographic Data for Prediction in Patients without Pulmonary Embolism**

Hezzy Shmueli², Galit Aviram, Sharon Adam¹, Ahiud Bendet¹, Tomer Ziv-Baran⁵, Arie Steinvil², Shlomo Berliner³, Nahum Neshet⁴, Yanai Ben-Gal⁴, Yan Topilsky²

¹*Radiology, TASMC, Tel Aviv, Israel*

²*Cardiology, TASMC, Tel Aviv, Israel*

³*Internal medicine E, TASMC, Tel Aviv, Israel*

⁴*Cardiothoracic Surgery, TASMC, Tel Aviv, Israel*

⁵*Epidemiology and Preventive Medicine, School of Public Health, Sackler Faculty of Medicine, TAU, Tel Aviv, Israel*





- 16:42 **Acute Pulmonary Embolism among Patients with and without Malignancy: Comparison of Cardiac Measurements Using CT Pulmonary Angiography**
Assi Milwidsky^{1,3}, Yitzhak Hadad², Eugene Soikher², Achiude Bendet², Sharon Greenberg¹, Yan Topilsky³, Tomer Ziv-Baran⁴, Shlomo Berliner¹, Galit Aviram²
¹*Department of Internal Medicine "E", Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
²*Department of Radiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
³*Department of Cardiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
⁴*Department of Statistical Science, Tel Aviv University, Tel-Aviv, Israel*
- 16:54 **Correlation of LBBB and Mechanical LV Dyssynchrony in Patients with Normal and Abnormal Left Ventricular Function and Prediction of Mortality**
Nili Zafrir, Tamir Bental, Boris Strasberg, Israel Mats, Ariel Gutstein, Ran Kornowski, Alejandro Solodky
Cardiology, Rabin Medical Center, Beilinson Center, Petah Tikva, Israel
- 17:06 **Prognostic Value of Left Ventricular Dyssynchrony by Myocardial Perfusion Gated SPECT in Patients with LVEF ≤ 35%**
Alejandro Solodky^{1,2}, Tamir Bental^{1,2}, Ariel Gutstein^{1,2}, Israel Mats^{1,2}, Ran Kornowski^{1,2}, Nili Zafrir^{1,2}
¹*Cardiology, Rabin Medical Center (Beilinson), Petach Tikva, Dan, Israel*
²*Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv*
- 17:18 **Quantitation of Left Ventricular Ejection Fraction Reserve from Early Gated Regadenoson Stress Tc-99m High Efficiency SPECT**
Yafim Brodov¹, Mathews Fish², Heidi Gransar¹, Daniel Berman¹, Guido Germano¹, Piotr Slomka¹
¹*Nuclear Cardiology and Cardiac Imaging, Cedars Sinai Medical Center, Los Angeles, California, USA*
²*Nuclear Medicine Department, Oregon Heart and Vascular Institute, Sacred Heart Medical Center, Springfield, Oregon, USA*
- 17:30 **Prognostic Value of Ultrafast Myocardial Perfusion Spect Imaging Using an Integrated Stress-first And Stress-Only Approach**
Tali Sharir¹, Boris Brodtkin^{1,3}, Beatriz Hemo², Judith Tsamir², Gil Kovalski⁴, Vitali Prochorov¹, Andrzej Bojko¹, Marina Pinski¹, Konstantine Merzon¹, Amos Katz^{1,3}
¹*Nuclear Cardiology, Assuta Medical Centers, Tel Aviv, Israel*
²*Assessment and Investigation, Maccabi Healthcare Services, Tel Aviv, Israel*
³*Cardiology, Barzilai University Medical Center, Ashkelon, Israel*
⁴*Nuclear Medicine, General Electric, Haifa, Israel*



17:42 **Pericardial Adiposity Trajectory during Long-term Lifestyle Intervention: CENTRAL-HEART MRI RCT Sub-study**
Gal Tsaban^{1,2}, Arik Wolak³, Hila Avni-Hasid¹, Yftah Gepner¹, Ilan Shelef², Dan Schwartzfuchs^{2,4}, Noa Cohen¹, Nitzan Brill¹, Michal Lerner¹, Dana Serfaty¹, Shira Kenigsbuch¹, Lilac Tene¹, Hila Zelicha¹, Anat Yaskolka-Meir¹, Oded Komy¹, Yoash Chassidim², Benjamin Sarusy⁴, Uta Ceglarek⁶, Michael Stumvoll⁶, Matthias Blüher⁶, Joachim Thiery⁶, Yaakov Henkin², Dror Diker⁵, Assaf Rudich¹, Meir J Stampfer⁷, Iris Shai¹
¹Faculty of Health Sciences, Ben-Gurion University of the Negev, Be'er-Sheva, Israel
²Soroka University, Medical Center, Be'er-Sheva, Israel
³Division of Cardiology, Sha'are-Tzedek Medical Center, Jerusalem, Israel
⁴Nuclear Research Center, Negev, Dimona, Israel
⁵Internal Medicine D, Rabin Medical Center, Campus Golda, Petach Tikva, Israel
⁶Department of Medicine, University of Leipzig, Leipzig, Saxony, Germany
⁷Channing Division of Network Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard School of Public Health, Boston, MA, USA

16:30-18:00 **Cardiac Rehabilitation** Hall 4
 Chairs: **Jacob Klein, Robert Klempfner, Israel**

16:30 **Association between Norton Scale Score and Long-term Mortality after Acute Myocardial Infarction**
Hagar Silber¹, Ygal Plakht², Arthur Shiyovich³, Harel Gilutz²
¹Primary Care Clinic, Clalit Health Services, Gedera, Israel
²Faculty of Health Sciences, Soroka University Medical Center and Ben-Gurion University of the Negev, Beer-Sheva, Israel
³Internal Medicine E, Rabin Medical Center, Beilinson Hospital, Petah-Tikva, Israel

16:42 **The Utility and Outcome of Multidisciplinary Cardiac Rehabilitation After Myocardial Infarction in The Modern Era**
Jacob Klein, Noa Raviv Ables, Michael Mazar, Ariel Karawan, Allon Kirschner, Rachel Aran, Zviya Mizrachi, Rivka Farkash, Jonathan Balkin, Marc Klutstein, Dan Tzivoni, Giora Weisz
 Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel





- 16:54 **Comparison between Moderate-high Interval Training and Continuous Training in a Real-life Cardiac Rehabilitation Program - 6 Months Follow-up**
Yael Pernick¹, Jonathan Moore², Hans-Peter Kubis², Itzhak Zyssman¹, Zvika Vered¹
¹Cardiology, Asaf Harofe, Israel
²School of Sport, Health, and Exercise Sciences, Bangor University, Bangor, Wales, UK
- 17:06 **Treatment Gaps in Management of Patients Following Acute Myocardial Infarction: Analysis of Real-World Data**
Dahlia Weitzman^{1,2}, Lori D. Bash³, Ofer Sharon⁴, Assi Milwidsky⁵, Gabriel Chodick^{1,2}, Varda Shalev^{1,2}
¹Department of epidemiology and database research, Maccabitech, Maccabi Healthcare Services, Tel Aviv, Israel
²Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, Israel
³Global Health Outcomes, C.O.R.E., Merck & Company, Inc., Rahway, NJ, USA
⁴Medical Affairs, MSD Israel, Hod Hasharon, Israel
⁵Internal department E, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 17:18 **A New Cardiac Rehabilitation Unit in Haemek Medical Center. The first Patients Demographic and Clinical Characteristics**
Menachem Nahir, Sophie Gordon, Ilia Lachman, Hagar Shumovitz
Cardiology, Cardiac Rehabilitation Unit, Israel
- 17:30 **Increase of Biomarkers after the Kalmar Ironman in Male and Female Non-Elite Triathletes**
Joerg Carlsson¹, Tony Ragnarsson², Tom Danielsson², Patrick Bergman²
¹Health and Caring Sciences, Linnaeus University, Sweden
²Sport Science, Linnaeus University, Sweden
- 17:42 **Atherosclerotic Burden and Heart Failure after Myocardial Infarction**
Yariv Gerber^{1,2}, Susan Weston², Maurice Enriquez-Sarano³, Sheila Manemann², Alanna Chamberlain², Ruoxiang Jiang², Véronique Roger^{2,3}
¹Epidemiology and Preventive Medicine, Tel Aviv University, Tel Aviv, Israel
²Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA
³Cardiovascular Diseases, Mayo Clinic, Rochester, Minnesota, USA



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| 08:30-10:00 | Interventional Cardiology III Chairs: Ronen Jaffe, Ariel Roguin, Israel | Hall A |
| 08:30 | Comparison of instantaneous wave-free ratio (iFR) and fractional flow reserve (FFR) <u>Oranit Shlomi</u> ¹ , Eli Lev ² , Amnon Eitan ¹ , Amir Solomonica ¹ , Katia Orvin ² , Sergey Yalonetsky ¹ , Eugenia Nikolsky ¹ , Anees Musallam ¹ , Ariel Roguin ¹ ¹ Cardiology, Rambam Medical Center, Haifa, Israel ² Cardiology, Hasharon Medical Center, Petach Tikva, Israel | |
| 08:42 | Trans-catheter Valve Implantation (TAVI) Versus Sutureless Aortic Valve Replacement in Elderly Patients <u>Amjad Shalabi</u> ¹ , Israel Barbash ² , Boris Orlov ¹ , Alexander Lipey ¹ , Amit Segev ² , Paul Fefer ² , Micha Feinberg ² , Alexander Kogan ¹ , Elad Maor ² , Victor Guetta ² , Ehud Raanani ¹ ¹ Cardiac Surgery Department, Chaim Sheba Medical Center, Sackler School of Medicine, Tel- Aviv University, Israel ² Cardiology Department, Chaim Sheba Medical Center, Sackler School of Medicine, Tel- Aviv University, Israel | |
| 08:54 | Left Ventricular Mass to Coronary Blood Volume Ratio in Patients with Severe Aortic Stenosis Undergoing Transcatheter Aortic valve Implantation <u>Ashraf Hamdan</u> ¹ , Ella Shaviv ² , Victor Guetta ² , Israel Barbash ² , Orly Goitein ³ , Eli Konen ³ , Amit Segev ² , Paul Fefer ² , Abid Assali ¹ , Ran Kornowski ¹ , Ehud Schwammenthal ² ¹ Department of Cardiology, Rabin Medical Center, Israel ² Department of Cardiology, Sheba Medical Center, Israel ³ Department of Diagnostic Imaging, Sheba Medical Center | |
| 09:06 | Iterative Model Reconstruction in Patients Undergoing CT before Transcatheter Aortic Valve Implantation: Reduction of Radiation and Contrast volume <u>Ariel Gutstein</u> , Ran Kornowski, Abid Asali, Hanah Vaknin, Ashraf Hamdan Cardiology/ Radiology, Rabin Medical Center, Petah Tikva, Israel | |
| 09:18 | Novel Insight into the "Geographical Miss Phenomenon": Device Motion Indicator, a New Feature to Evaluate Relative Axial Stent Movement inside Coronary Artery and to Facilitate its Precise Deployment Site <u>Rami Abu Fanne</u> , Simcha Ron Meisel, Avraham Shotan, Aharon Frimerman Cardiology Department, Hillel Yaffe Medical Center, Hadera, Israel | |





09:30 **Ventricular Septal Defect as a Complication of TAVI: Mechanism and Incidence**
Vicki Zeniou¹, Shmuel Chen¹, Dan Gilon¹, Amit Segev², Israel Barbash², Ariel Finkelstein³, Ronen Beeri¹, David Planer¹, Mony Shuvy¹, Chaim Lotan¹, Haim D. Danenberg¹
¹Cardiology, Hadassah Medical Center, Jerusalem, Israel
²Cardiology, Sheba Medical Center, Jerusalem, Israel
³Cardiology, Tel Aviv Medical Center, Jerusalem, Israel

09:42 **Transcatheter Aortic Valve Replacement in Patients Under the Age of 70**
Ehud Regev^{1,2}, Victor Guetta^{1,2}, Ran Kornowski³, Ariel Finkelstein⁴, Katia Orvin³, Amir Halkin⁴, Uri Landes³, Arik Steinvil⁴, Amos Levi³, Jeremy Ben Shoshan⁴, Israel Barbash^{1,2}, Paul Fefer^{1,2}, Amit Segev^{1,2}
¹Leviev Heart Center, Sheba Medical Center, Tel Hashomer, Israel
²Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
³Cardiology, Rabin Medical Center, Petach Tikva, Israel
⁴Heart Institute, Tel Aviv Medical Center, Tel Aviv, Israel

08:30-10:00 **Echocardiography Valvular Heart Disease** *Hall B*
 Chairs: Alik Sagie, Avinoam Shiran, Israel

08:30 **Flow Acceleration Time for the Diagnosis of Severe Aortic Stenosis**
Israel Mazin, Moshe Katz, Ori Vaturi, Rafael Kuperstein, Roy Beigel, Elad Asher, Micha S. Feinberg, Sagit Ben Zekry
 Non Invasive Cardiology Unit, Sheba Medical Center, Israel

08:42 **Complementary TEE to TTE in Aortic Stenosis Severity Assessment – Is there an Added Benefit ?**
Shmuel Schwartzberg, Alexander Sagie, Shirit Kazum, Mordechai Vaturi, Daniel Monakier, Ran Kornowski, Yaron Shapira
 Cardiology, Rabin Medical Center, Beilinson Hospital, Petach Tikva, Israel

08:54 **Impact of Negative Trans-thoracic Echocardiography in the Diagnosis of Infective Endocarditis**
Marina Leitman^{1,2}, Eli Peleg^{1,2}, Ruthie Shmueli¹, Zvi Vered^{1,2}
¹Department of Cardiology, Assaf Harofeh Medical Center, Israel
²Sackler School of Medicine, Tel Aviv University, Israel

09:06 **“Sound-based” Compared to “Ultrasound-based” Diagnosis of Valvular Pathologies by Final Year Medical Students**
 Lior Zeller¹, Tomer Maman¹, Tali Shafat Fainguelernt¹, Ianiv Fainguelernt¹, Leonid Barski¹, Sergio L. Kobal²
¹Internal Medicine F, Soroka University Medical Center, Beer-Sheva, Israel
²Cardiology Department, Soroka University Medical Center, Beer-Sheva, Israel



- 09:18 **Mechanisms of Effort Intolerance in Patients with Rheumatic Mitral Stenosis: Combined Echo and Cardio-Pulmonary Stress Protocol**
Yan Topilsky, Michal Laufer-Perl, Simon Biner, Gad Keren
Cardiology, Tel Aviv Medical center, Tel Aviv, Israel
- 09:30 **Impact of Tricuspid Regurgitation and Right Ventricular Dysfunction on Outcome of Patients Undergoing Trans-catheter Aortic Valve Replacement**
Zach Rozenbaum, Ariel Finkelstein, Gad Keren, Simon Biner, Yan Topilsky
Cardiology, Tel Aviv Medical center, Tel Aviv, Israel
- 09:42 **Organic vs. Functional Mitral Regurgitation in Patients Undergoing Transcatheter Aortic Valve Implantation for Severe Aortic Stenosis**
Elisha Ouzan¹, Bryan Kindya², Israel Gotsman¹, Vasilis Babaliaros², Ehan Gonen¹, Stamatios Lerakis², Eran Karayel¹, Vinod Thourani², Haim Danenberg¹, Chaim Lotan¹, Ronen Beerli¹, Dan Gilon¹, Kreton Mavromatis²
¹*Heart Institute, Hadassah Hebrew Univeristy Medical Center, Jerusalem, Israel*
²*Heart Institute, Emory Univeristy Medical Center, Atlanta, Georgia, USA*
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- 08:30-10:00 Ablation of Cardiac Arrhythmias** *Hall C*
 Chairs: **Roy Beinart, David Luria, Israel**
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- 08:30 **Treatment and Outcomes in Elderly and Very Elderly Patients Aged 75-85 and ≥ 85 Years with Atrial Fibrillation. A Prospective National Study.**
 Yoav Arns^{1,2,3}, Orna Reges², Moshe Hoshen², Yardena Rabi², Ran Balicer², Morton Leibowitz², Moti Haim^{2,4,5}
¹*Cardiology Department, Meir Medical Center, Tel Aviv, Israel*
²*Research Institute, Clalit Health Services, Tel Aviv, Israel*
³*Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel*
⁴*Cardiology Department, Soroka Medical Center, Beer Sheva, Israel*
⁵*Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel*
- 08:42 **Gender Differences in Success Rates of Catheter Ablation of Atrial Fibrillation**
Avi Sabbag¹, Younis Orwa¹, Yasmin Farhadian¹, David Luria², Osnat Gurevitz¹, Eyal Nof¹, Michael Glikson¹, Roy Beinart¹
¹*Leviev Heart Institute, The Chaim Sheba Medical Center, Tel-Hashomer, Ramat- Gan, Israel*
²*Cardiology, Hadassah Medical Center, Jerusalem, Israel*





- 08:54 **Poor Heart Rate Reserve Predicts New Onset Atrial Fibrillation in Middle Aged Adults**
Avi Sabbag¹, Yehezkel Sidi², Shaye Kivity², Roy Binart¹, Shlomo Segev³, Michael Glikson¹, Ilan Goldenberg¹, Elad Maor¹
¹Leviev Heart Institute, The Chaim Sheba Medical Center, Tel-Hashomer, ramat gan, Please Select, Israel
²Department of Internal Medicine C, The Chaim Sheba Medical Center, Tel-Hashomer, Israel, ramat gan, Please Select, Israel
³Institute for Medical Screening, The Chaim Sheba Medical Center, Tel-Hashomer, ramat gan, Please Select, Israel
- 09:06 **A New CARTO® Segmentation Module Software to Facilitate Ablation of Arrhythmias**
Oholi Tovia Brodie, Aharon Glick, Michael Barkagan, Raphael Rosso, Bernard Belhassen, Yoav Micowitz
Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 09:18 **Ablation-Induced Change in the Course of Fascicular Tachycardia**
Avishag Laish-Farkash¹, Avi Sabbag², Yoav Michowitz³, Vladimir Khalameizer¹, Aharon Glick³, Amos Katz¹, Michael Glikson²
¹Electrophysiology Unit, Cardiology Department, Barzilai Medical Center and the Faculty of Health Sciences, Ben-Gurion University of the Negev, Ashkelon, Israel
²Davidai Arrhythmia Center, Leviev Heart Center, Sheba Medical Center, Tel Hashomer, Israel
³The Department of Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
- 09:30 **Electrocardiographic Comparison of Ventricular Premature Complexes in Patients with Inherited Dilated Cardiomyopathy and in Patients with Ventricular Premature Complex induced Cardiomyopathy**
Miry Blich, Wisam Darawsha, Ibrahim Marai, Mahmoud Suleiman, Lior Gepstein, Monther Boulous
Division of Pacing and Electrophysiology, Rambam Health Care Campus and Bruce Rappaport Faculty of Medicine, Haifa, Israel
- 09:42 **Long Term Flecainide Therapy in Type-3 Long QT Syndrome**
Ehud Chorin¹, Rivki Taub², Aron Medina², Nir Flint¹, Sami Viskin¹, Jesaja Benhorin¹
¹Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
²Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel



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- 08:30-10:00** **Joint Session of the Israeli Heart Society and Society of Cardiovascular Computed Tomography (SCCT)** *Hall H*
Chairs: **Jonathon A. Leipsic, Canada, Orly Goitein, Israel**
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- 08:30** **MDCT to Reduce TAVR and Valve in Valve Complications**
Jonathon A. Leipsic,
Canada
- 08:50** **Automatic Estimation of Optimal Deployment Angles and Dimensions for Transcatheter Aortic Valve Implantation: Comparison between Edwards Sapien XT and Corevalve Prostheses**
Arthur Kerner¹, Sobhi Abadi², Roy Dotan³, Marcia Javitt², Jonathan Lessick¹
¹*Cardiology, Rambam Medical Centre, Haifa, Israel*
²*Radiology, Rambam Medical Centre, Haifa, Israel*
³*CT Division, Philips Healthcare, Haifa, Israel*
- 09:02** **Geometry of the Aorto-Ventricular Annulus as a Predictor of Pacemaker Implantation Following Transcatheter Aortic Valve Replacement – A Proof-of-Concept Study**
Michael Barkagan¹, Yan Topilsky¹, Arie Steinvil¹, Galit Aviram², Jeremy Ben-Shoshan¹, Leehee Barak¹, Ariel Finkelstein¹, Shmuel Banai¹, Gad Keren¹, Haim Shmilovich¹
¹*Cardiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
²*Radiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
- 09:14** **Automated 4-dimensional Regional Myocardial Strain Evaluation using Cardiac Computed Tomography**
Zvi Peled¹, Yehiel Lamash³, Keren Biton-Worms¹, Gil Bolotin¹, Anath Fischer³, Jonathan Lessick²
¹*Cardiothoracic Surgery, Rambam Medical Centre, Haifa, Israel*
²*Cardiology, Rambam Medical Centre, Haifa, Israel*
³*Mechanical Engineering, Technion, Israel Institute of Technology, Haifa, Israel*
- 09:26** **Predicting the Size of Left Atrial Appendage Occluder Using a Printed MDCT 3D Model – A Feasibility Study**
Orly Goitein¹, Noam Fink², Victor Guetta², Roy Beinart², David Luria³, Eli Konen¹, Elio Di Segni¹, Michael Glikson²
¹*Diagnostic Imaging, Sheba Medical Center, Ramat- Gan, Israel*
²*Heart Institute, Sheba Medical Center, Ramat- Gan, Israel*
³*Departemnt of Cardiology, Hadassah Medical Center, Jerusalem, Israel*





- 09:38 **High Incidence of Renal Artery Stenosis in Post TAVI Acute Kidney Injury**
Orly Goitein¹, Orna Komisar¹, Israel Barbash², Victor Guetta², Amit Segev², Paul Fefer², Elad Asher², Sagit Ben Zikri², Anat Berkovitz², Ashraf Hamdan³, Elio Di Segni¹, Boris Orlov², Eli Konen¹, Yafim Brodov^{1,2}
¹*Diagnostic Imaging, Sheba Medical Center, Ramat gan, Israel*
²*Heart instiute, Sheba Medical Center, Ramat Gan, Israel*
³*Department of Cardiology, Rabin Medical Center, Petach- Tikva, Israel*

08:30-10:00 **New Discoveries in Basic Researches I** Hall I
Chairs: Izhak Kehat, Mickey Scheinowitz, Israel

- 08:30 **TRPV2 Knockout Mice Demonstrate Better Cardiac Performance Following Myocardial Infarction Relative to Their Wild-type Counterparts Potentially due to Attenuated Macrophage-Dependent Phagocytosis**
Michal Entin-Meer^{1,2}, Lena Cohen^{1,2}, Ran Levy¹, Einat Hertzberg-Bigelman^{1,2}, Jeremy Ben-Shoshan^{1,2}, Gad Keren^{1,2}
¹*Cardiology, Cardiovascular Research Laboratory, Tel-Aviv, Israel*
²*Cardiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*

- 08:42 **Hypothesis: Low Level Laser Prevents Abdominal Aortic Aneurysm in Angiotensin-II-Induced Apolipoprotein E-Deficient Mice by Inhibiting Decay of Smooth Muscle Cell Mitochondrial Membrane Potential**
Lilach Gavish¹, Ronen Beeri², Dan Gilon², Chen Rubinstein³, Yacov Berlatzky³, S. David Gertz¹
¹*Institute for Medical Research (IMRIC), The Hebrew University-Hadassah Medical School, Jerusalem, Israel*
²*Department of Cardiology, The Hebrew University-Hadassah Medical School and Hadassah University Hospital, Jerusalem, Israel*
³*Department of Vascular Surgery, The Hebrew University-Hadassah Medical School and Hadassah University Hospital, Jerusalem, Israel*

- 08:54 **Characterization of Surface Markers of Reticulated Young Platelets Compared with Mature Platelets**
Adi Lador¹, Dorit Leshem-Lev², Galia Spectre⁴, Aryeh Abelow³, Ran Kornowski¹, Eli Lev¹
¹*Cardiology Department, Rabin Medical Center, Beilinson Campus, Petah-Tikva, Israel*
²*The Felsenstein Medical Research Center, Rabin medical center, Beilinson Campus, Petah-Tikva, Israel*
³*Internal Medicine A, Rabin Medical Center, Beilinson Campus, Petah-Tikva, Israel*
⁴*Department of Hematology, Rabin Medical Center, Beilinson Campus, Petah-Tikva, Israel*



- 09:06 **Heart Rhythm Analysis by Sparse Representation for Immediate Acute Stressful Event Detection**
Shai Tejman Yarden^{1,2}, Leng Ky³, Ofer Levi⁴, Yisrael Parmet⁴, Michael Saunders⁵, Imanuel Lerman⁶, Haim Berkenstadt⁷, Yonina Eldar⁸, Pavel Lifshits⁸, James C Perry², Dewleen G Baker⁶, Tobias Moeller-Bertram^{3,6}
¹*Pediatric Cardiology, Sheba Medical Center, Ramat Gan, Israel*
²*Pediatric Cardiology, UCSD, CA, USA*
³*Anesthesiology, UCSD, CA, USA*
⁴*Department of Industrial Engineering and Management, Ben Gurion University, Israel*
⁵*Department of Industrial Engineering and Management, Stanford University, CA, USA*
⁶*Center of Excellence for Stress and Mental Health, Veterans Affairs, CA, USA*
⁷*Anesthesiology, Sheba Medical Center, CA, USA*
⁸*The department of Electrical engineering, The Technion, Israel Institute of Technology, Haifa, Israel*
- 09:18 **First Description of Complete Deletion of the Lipoprotein Lipase Gene**
Sara Hoss¹, Shosi Shpitzen¹, Eran Leitersdorf¹, Daniel Schurr¹, Eti Granot², Chaim Lotan¹, Ronen Durst¹
¹*Department of Cardiology, Hadassah Medical Center, Jerusalem, Israel*
²*Department of Pediatrics, Kaplan Medical Center, Rehovot, Israel*
- 09:30 **Is Pulmonary Microvascular Recruitment Possible during Supine Bicycle Exercise?**
David Langleben¹, Stylianos Orfanos², Michele Giovinazzo¹, Robert Schlesinger¹, Fay Blenkhorn¹, John Catravas³
¹*Center for Pulmonary Vascular Disease, Div. of Cardiology, Jewish General Hospital, McGill University, Montreal, Quebec, Canada*
²*Pulmonary Hypertension Clinic, Dept. of Critical Care, Attikon Hospital, University of Athens, Athens, Greece*
³*Frank Reidy Research Center for Bioelectrics, Old Dominion University, Norfolk, VA, USA*





- 08:30-10:00** **Joint Session: The Israel Society of Cardiothoracic Surgery and Society of Cardiothoracic Surgeons of South Africa** *Hall J*
Chairs: Gil Bolotin, Oz Shapira, Israel; Robert Kleinloog, South Africa
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- 08:30 **Cardiac Surgery in SA – Past, Present and Future**
Robert Kleinloog
South Africa
- 08:42 **Concomitant Left Internal Thoracic Artery Revascularization of the Left Anterior Descending (LAD) and Diagonal Artery: Inverted J-technique (LAD-first) or Standard Sequential Grafting**
Oren Lev-Ran, Menachem Matsa, Dan Avramov, Yaron Ishay, Lior Raichel, Gideon Sahar
The Department of Cardiothoracic Surgery, Soroka University Medical Center, Beer-Sheva, Israel
- 08:54 **A Single Institution's Experience with Complex Thoracic Aortic Surgery in Resource Restricted Environment**
E. Zigiariadis, G Faqaawi, K Van der Donck
Division of Cardiothoracic Surgery, University of the Witwatersrand, South Africa
- 09:06 **Dealing with Heavy Atherosclerotic Burden in the Left Anterior Descending Artery with Coronary Endarterectomy or Onlay Patch Angioplasty**
Ohad Bitan¹, Eyal Leshem¹, Paul Pirundini², Carrie Consalvi², Kevin Lilly², Quincy King², Dan Loberman²
¹*Department of Medicine C, Sheba Medical Center at Tel Hashomer, Israel and the Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel*
²*Division of Cardiac Surgery, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA*
- 09:18 **Isolated Aortic Valve Replacement in a Rheumatic Population**
Jacques Scherman, Rodgers Manganyi, Paul Human, Peter Zilla
Chris Barnard Division of Cardiothoracic Surgery, University of Cape Town, South Africa
- 09:30 **Short and Longterm Results After Prosthetic Mitral Valve Implantation in Patients with Severe Mitral Annulus Calcification**
Ronny Ben-Avi, Boris Orlov, Leonid Sternik, Alexander Kogan, Micha Feinberg, Amjad Shalabi, Alexander Lipey, Ehud Raanani
Cardiothoracic Surgery, Sheba Medical Center, Tel Hashomer, affiliated with the Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
- 09:42 **Total Aortic Arch Endograft – FIM Study**
David Planer
Heart Institute, Hadassah Medical Center, Jerusalem, N/A, Israel



08:30-10:00 **Assessment and Outcomes of Myocardial Diseases** *Hall 3*
Chairs: Shemy Carasso, Sorel Goland, Israel

08:30 **Abnormal Multilayer Myocardial Mechanics in Genotype-Positive Left Ventricular Hypertrophy-Negative Patients with Hypertrophic Cardiomyopathy**

Lynne K Williams^{1,2}, James Misurka¹, Carolyn Y Ho³, Wan-Xian Chan¹, Anna Woo¹, Yoram Agmon⁴, Christine Seidman³, Harry Rakowski¹, Shemy Carasso¹

¹HCM Clinic, Division of Cardiology, Toronto General Hospital, University Health Network, Toronto, Ontario (ON), Canada

²Department of Cardiology, Papworth Hospital NHS Foundation Trust, Cambridge, UK

³Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, USA

⁴Cardiology, Rambam Health Care Campus; Technion - Israel Institute of Technology, Haifa, Israel

08:42 **Assessment of Diastolic Function in Hypertrophic Cardiomyopathy by Computed Tomography Derived Analysis of Left Ventricular Filling**
Itai Ghersin¹, Eduard Ghersin⁴, Sobhi Abadi³, Doron Aronson², Jonathan Lessick²

¹Medical Corps, Israel Defence Force, Israel

²Cardiology, Rambam Medical Centre, Haifa, Israel

³Radiology, Rambam Medical Centre, Haifa, Israel

⁴Radiology, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, USA

08:54 **Serum Levels of IgG4 in Patients Elevated in Acute Idiopathic Myocarditis**

Igor Volodarsky¹, Irena Fugenfirov¹, Eran Neumark², Liaz Zilberman¹, Jacob George¹, Sorel Goland¹

¹The Heart Institute, Kaplan Medical Center, Rehovot, Israel

²Department of Internal Medicine E, Meir Hospital, Kfar Saba, Israel





- 09:06 **Management and Outcome of Pregnancy in Non-peripartum Dilated Cardiomyopathy: Results from the Registry On Pregnancy And Cardiac Disease (ROPAC)**
Avraham Shotan¹, Uri Elkayam², Iris van Hagen³, Alicia Vazan¹, Simcha R Meisel¹, David S Blondheim¹, Michael Shochat¹, Aharon Frimerman¹, Lubov Vasilenko¹, Sorel Goland⁴, Alex Blatt⁵, Jolien W Roos-Hesselink³
¹Heart Institute, Hillel Yaffe Medical Center, Hadera, Israel
²Department of Medicine, Division of Cardiology, USC-LAC Medical Center, Los Angeles, CA, USA
³Cardiology, Erasmus University Medical Center, Rotterdam, Netherlands
⁴Cardiology, Kaplan Medical Center, Rehovot, Israel
⁵Cardiology, Assaf Harofeh Medical Center, Zerifin, Israel
- 09:18 **Preliminary Results of A Cardio-Oncology Clinic - the Rabin Medical Center Experience**
Zaza Iakobishvili^{1,4}, Moti Vaturi^{1,4}, Hadas Ofek-Epstein¹, Alexander Sagie^{1,4}, Baruch Brenner^{2,4}, Rinat Yerushalmi^{2,4}, Pia Raanani^{3,4}, Ran Kornowski^{1,4}
¹Cardiology, Rabin Medical Center, Petah Tikva, Israel
²Institute of Oncology, Davidoff Cancer Center, Rabin Medical Center, Petah Tikva, Israel
³Institute of Hematology, Davidoff Cancer Center, Rabin Medical Center, Petah Tikva, Israel
⁴Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
- 09:30 **Usefulness of Right Ventricular Ejection Fraction by First Pass Radionuclide Angiography and Gated SPECT Myocardial Perfusion Imaging in Patients with Heart Failure: One Center Experience**
Nili Zafrir, Tamir Bental, Israel Mats, Yosef Hassid, Ariel Gutstein, Tuvia Ben-Gal, Doron Belzer, Daniel Morninkas, Ran Kornowski, Alejandro Solodky
Cardiology, Rabin Medical Center, Beilinson Hospital, Petah Tikva, Israel
- 09:42 **Echocardiographic Ventricular Septal Motion Abnormalities and no Left Atrial Enlargement are Associated with Pre-capillary Pulmonary Hypertension in Patients with Preserved Left Ventricular Function**
Gingy Ronen Balmor², Michael Segel², Paul Fefer¹, Elad Maor¹, Jonathan Buber¹, Sagit Ben Zekry¹, Elio DiSegni¹, Issahar Ben-Dov¹, Amit Segev¹
¹The Heart Center, Chaim Sheba Medical Center, Tel Hashomer, Israel
²The Pulmonary Institute, Chaim Sheba Medical Center, Tel Hashomer, Israel



- 08:30-10:00** **Cardiovascular Pharmacology** *Hall 4*
Chairs: Michael Shechter, Ronen Durst, Israel
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- 08:30 **Monitoring Platelet Reactivity in Patients Treated with Prasugrel or Ticagrelor Prior to an Urgent Coronary Artery Bypass Surgery in Order to Shorten Operation Delay**
Katia Orvin¹, Yaron Barac², Ran Kornowski¹, Leor Perl¹, Pablo Codner¹, Victor Rubchevsky², Ram Sharoni², Eitan Snir², Dan Aravot², Eli Lev¹
¹*Cardiology, Rabin Medical Center, Petach Tikva, Israel*
²*Cardiothoracic, Rabin Medical Center, Petach Tikva, Israel*
- 08:42 **Cardiovascular Disorders Associated with Naloxone Monotherapy and in Combination with Opioids: Safety Data from International Surveillance**
Mori Krantz^{1,2}, Amneet Sandhu², David Kao², Mark Haigney³, Philip Mehler²
¹*Medicine, University of Colorado, Denver, Colorado, USA*
²*Medicine, University of Colorado, Denver, Colorado, USA*
³*Medicine, Uniformed Services University, Bethesda, Maryland, USA*
- 08:54 **The Role of Spironolactone in the Treatment of Patients with Resistant Hypertension**
Elisha Ouzan
- 09:06 **Trends in the Use of Anticoagulation as the Results of the Introduction of the Novel Anticoagulants**
Marc Klutstein, Moshe Rav-Acha, Michael Ilan, Aharon Medina, Benjamin Mazouz, Mady Moriel, David Rosenmann, Adi Butnaru, Elias Maazawi, Rivka Farkash, Giora Weisz
Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel
- 09:18 **Major Bleeding and Hemorrhagic Stroke with Direct Oral Anticoagulants in Patients with Renal Failure Systematic Review and Meta-analysis of Randomized Trials**
Bruria Raccach^{1,2}, Amichai Perlman^{1,3}, Haim Danenberg², Arthur Pollak², Mordechai Muszkat⁴, Ilan Matok¹
¹*Division of Clinical Pharmacy, School of Pharmacy, Faculty of Medicine, Hebrew University of Jerusalem, Israel*
²*Department of cardiology, Hadassah University Hospital, Jerusalem, Israel*
³*Department of Medicine, Hadassah University Hospital, Jerusalem, Israel*
⁴*Department of Medicine, Division of Clinical Pharmacology, Hadassah University Hospital, Jerusalem, Israel*





09:30 **Anticoagulation Therapy in Patients with Atrial Fibrillation in Ambulatory Consultant Cardiology Clinics after Availability of New Oral Anticoagulants**
 Dante Antonelli, Yuri Rivkin, Nahum Adam Freedberg, Ofir Koren, Yoav Turgeman
Cardiology, Ha Emek Medical Center, Afula, Israel

09:42 **Statin Therapy: Diabetes Risk and Cardiovascular Benefit per Euro-SCORE risk**
Avi Porath¹, Jonathan Eli Arbelle², Naama Fund³, Assaf Cohen³, Morris Mosseri⁴
¹Office of Chief Physician, Health Service Research department, Tel Aviv, Israel
²Southern Region, Maccabi Health Services, Beer Sheva, Israel
³Health Service Research department, Maccabi Health Services, Tel Aviv, Israel
⁴Cardiology Division, Meir Medical Center, Kfar-Saba, Israel

10:00-10:30 **Coffee Break, Exhibition & E-posters Visit** *Exhibition*

10:30-12:30 **Plenary III – 2nd Ceremony** *ABC*
 Chairs: Michael Glikson, Ronen Rubinshtein, Israel Heart Society
 Gil Bolotin, Erez Kachel, Israel Society of Cardio Thoracic Surgery

10:30 **Scholarship & Awards of the Israel Heart Society**
 Michel Mirowski Excellence in Cardiology Award
 Richard, Hilda and Ezra Meltzer Memorial Award
 Jan J. Kellerman Young Investigator in Cardiology Award
 Daniel Shiran Outstanding Cardiology Resident Award
 Best Publication Awards
 Outstanding Abstract Award
 Reaserch Grant of the Israel Heart Society

Scholarship & Awards of the Israel Society of Cardiothoracic Surgery
 Awarding of new Honorary members of the Israel Society of Cardiothoracic surgery:
Professor Francis Wellens
 Ami Cohen Young Investigators in Cardiac Surgery Awards
 Hanoch Milwidsky Outstanding Cardiac Surgery Resident Award
 ORBOTECH Grant for a Multicenter Study in Cardiac Surgery



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|-------------|--|-------------------|
| 11:10 | Joint Session: American College of Cardiology (ACC) – Israel Heart Society (IHS) Chairs: Richard Chazal, American College of Cardiology (ACC) Yoseph Rozenman, IHS Past Immediate President & Governor of the Israeli ACC Chapter | |
| 11:10 | The Use of Chest Pain Centers to Improve Patient Care, As well as Guidelines Adherence and System Efficiency <u>Richard Chazal</u> USA | |
| 11:30 | Stem Cell Research in Cardiology <u>Lior Gepstein</u> Israel | |
| 11:50 | Challenges Facing a Female Cardiologist <u>Cindy Grines</u> USA | |
| 12:10 | Heart Failure: Current Therapies and New Horizons <u>Mary N. Walsh</u> USA | |
| 12:30-14:30 | Lunch & Lunch Sessions, Exhibition & E-Posters Visit | <i>Exhibition</i> |
| 12:30-14:30 | Lunch Session - Sponsored By Pfizer From Rcts and Rwd to Your Own Practical Choices Chairperson: Michael Glikson, President Israel Heart Society, Eli Lev, Israel | <i>Hall H</i> |
| 13:00-13:12 | NOACs Efficacy in Unique Population <u>Shlomi Matetzky</u> Israel | |
| 13:12-13:24 | HOT Bleeding Issues <u>Raphael Rosso</u> Israel | |
| 13:24-13:36 | Stretching the Limits of NOACs Management <u>Eli Lev</u> Israel | |





- 13:36-14:00 **Imagination, Creativity and Adaptive Decisions as Principle-Mechanisms of the Human Brain**
Eilon Vaadia,
The Edmond and Lily Safra Center for Brain Sciences (Director)
The Jack H. Skirball Chair & Fund in Brain Research
Department of Medical Neurobiology, IMRIC, Faculty of Medicine
The Hebrew University of Jerusalem, Israel
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- 12:30-14:30 **Lunch Session - Sponsored By Novartis** *Hall I*
EnTRESTo - Redefine Heart Failure Treatment
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- 12:30-14:30 **Lunch Session - Sponsored By Bayer** *Hall J*
Xarelto - Confidence from Evidence and Real World Experience
Adempas - From PE to CTEPH
Chair: **Asher Winder M.D., Director, Department of Hematology**
Head, Thrombosis and Hemostasis Unit Wolfson Medical Center, Israel
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- 13:00-13:30: **Xarelto – Real World Data**
Fausto J. Pinto
President, European Society of Cardiology,
Lisbon University Medical School, Lisbon, Portugal
- 13:30-14:00 **Adempas for Chronic Thromboembolic Pulmonary Hypertension**
David Langleben
Director, Center for Pulmonary Vascular Disease,
Division of Cardiology, Jewish General Hospital,
Professor of Medicine, McGill University, Montreal, Canada



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| 14:30-16:00 | Plenary IV – Joint Session: American Heart Association (AHA) – Israel Heart Society (IHS) Chairs: Mark Creager, USA, Ronen Rubinstein, Gil Bolotin, Israel | ABC |
| 14:30 | The Crisis of Diabetes and Cardiovascular Disease: Strategies to Improve Cardiovascular Outcomes <u>Mark A. Creager</u> USA | |
| 14:50 | Israeli Innovations in Cardiovascular Medicine: The “Start Up” Nation Ecosystem <u>Ran Kornowski</u> Israel | |
| 15:10 | Assessing the Mitral Valve: Value of 3D Imaging <u>Roberto M. Lang</u> USA | |
| 15:30 | Percutaneous Versus Conventional Aortic and Mitral Valve Interventions: State of the Art, Future Directions and the Role of the Surgeon <u>Michael Reardon</u> USA | |
| 16:00-16:30 | Coffee Break, Exhibition & E-posters Visit | <i>Exhibition</i> |
| 16:30-18:00 | Joint Session: The Israel Interventional Cardiology Working Group and the Israel Society of Cardiothoracic Surgery Chairs: Gideon Sahar, Abid Assali, Israel | <i>Hall A</i> |
| 16:30 | Heart Team at Soroka University Medical Center: From Concept to Practice <u>Yaron Ishay</u> ¹ , Lior Raichel ¹ , Oren Lev-Ran ¹ , Menachem Matsa ¹ , Avshalom Cohen ² , Carlos Cafri ² , Doron Zagher ² , Gideon Sahar ¹ ¹ The Department of Cardiothoracic Surgery, Soroka University Medical Center, Beer-Sheva, Israel ² The Department of Cardiology, Soroka University Medical Center, Beer-Sheva, Israel | |





- 16:42 **Surgical Results of the First Pre-designed “Heart Team” in Israel: One-Year Follow-up**
Offer Amir¹, Erez Kachel¹, Abbed-al-Wahab Darawshe¹, Marwan Armaly¹, Roman Altshuler¹, Eyal Nachum², Amgad Shalabi², Leonid Sternik², Alexander Lipsey², Diab Sammer¹, Alexander Kogan², Diab Ghanim¹, Fabio Kuzniec¹, Shemy Carasso¹, David Meerkin¹, Ehud Raanani²
¹*Cardio-Vascular Division, Poriya Medical Center & Faculty of Medicine, Bar-Ilan University, Tiberias, Israel*
²*Cardiothoracic Surgery Department, Chaim Sheba Medical Center, Tel Hashomer & Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel*
- 16:54 **Are Two Internal Thoracic Grafts Better Than One?: Analysis of 4247 Cases between 1996- 2010**
Zahi Aizer², Rephael Mohr^{1,2}, Dmitry Pevni^{1,2}, Amir Kramer^{1,2}, Nachum Neshet^{1,2}, Yossi Paz^{1,2}, Benjamin Medalion^{1,2}, Yani Ben-Gal^{1,2}
¹*Department of Cardiothoracic Surgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel*
²*Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel*
- 17:06 **Long Term Percutaneous Coronary Interventions Outcomes in Cancer Survivors**
Uri Landes, Tamir Bental, Abid Assali, Hana Vaknin-Assa, Eli Lev, Ran Kornowski, Zaza Iakobishvili
Cardiology, Rabin Medical Center, Petah-tikva, Israel
- 17:18 **Long term Outcome of Revascularization with Composite T Grafts: is Bilateral Mammary Grafting Better than Single Mammary and Radial Artery?**
Nadav Teich¹, Pevni Dmitry¹, Yanai Ben-Gal¹, Rephael Mohr¹, Yosef Paz¹, Amir Kramer¹, Nahum Neshet¹, Benjamin Medalion²
¹*Department of Cardiovascular Surgery, Sourasky Medical Center, Tel Aviv, Israel*
²*Department of Cardiovascular Surgery, Belinson, Petach Tikva, Israel*
- 17:30 **Incidence and Outcomes of ST Elevation Myocardial Infarction Caused by Stent Thrombosis in Comparison to De-novo Thrombosis**
Amos Levi, Ran Kornowski, Hana Vaknin-Assa, Gabriel Greenberg, Abid Assali, Eli Lev
Cardiology, Rabin Medical Center, Israel
- 17:42 **One or Two Internal Thoracic Grafts? Long-term Follow-up of 1043 Off Pump Coronary Bypass Surgeries**
Esther Arfi-Levy, Nahum Neshet, Yanai Ben-Gal, Yosef Paz, Rephael Mohr, Zvi Raviv, Amir Ganiel, Amir Kramer, Dmitry Pevni
Cardiothoracic Surgery, Tel Aviv Sourasky Medical Center and Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel



16:30-18:00 **Echocardiography: General** Hall B
Chairs: Noah-Liel Cohen, Zvi Vered, Israel

- 16:30 **Echocardiography in Patients with Pulmonary Embolism at Baseline and 1 Year Follow-up: Insights from the Evaluation of Long-term Outcomes after Pulmonary Emboli (ELOPE) Study**
Avi Shimony^{1,2}, Lawrence Rudski², Andrew Hirsch², Margaret Beddaoui³, Arash Akaberi³, David Anderson⁴, Philip S Wells⁵, Marc Rodger⁶, Susan Solymoss⁷, Michael Kovacs⁸, Carole Dennie⁹, Chris Rush¹⁰, William H Geerts¹¹, Paul Hernandez⁴, Shawn Aaron⁵, John T Granton¹², Susan Kahn¹³
¹Cardiology, Ben Gurion University, Soroka Medical Center, Israel
²Medicine, Jewish General Hospital, Montreal, QC, Canada
³Center for Clinical Epidemiology, Lady Davis Institute, Montreal, QC, Canada
⁴Medicine, Dalhousie University, Halifax, NS, Canada
⁵Medicine, The University of Ottawa, Ottawa, ON, Canada
⁶Hematology, The University of Ottawa, Ottawa, ON, Canada
⁷Medicine, McGill University, Montreal, QC, Canada
⁸Medicine, Hematology, University of Western Ontario, London, ON, Canada
⁹Diagnostic Imaging, The University of Ottawa, Ottawa, ON, Canada
¹⁰Nuclear Medicine, Jewish General Hospital, Montreal, QC, Canada
¹¹Medicine, Sunnybrook Health Sciences Centre, Toronto, ON, Canada
¹²Medicine, University of Toronto, Toronto, ON, Canada
¹³Center for Clinical Epidemiology, McGill University, Jewish General Hospital, Montreal, QC, Canada
- 16:42 **Serial Echocardiographic Assessment of Left Ventricular Filling Pressure and Remodeling among ST Elevation Myocardial Infarction Patients Treated by Primary Percutaneous Intervention**
Yacov Shacham, Arie Steinvil, Yaron Arbel, Yan Topilsky, Shafik Khoury, Ben Sade, Gad Keren
Cardiology, Tel Aviv Sourasky Medical Center, Israel
- 16:54 **A Wireless Frequency Domain Beamforming Based Ultrasound Imaging**
Shai Tejman Yarden¹, Tanya Chernyakova², Regev Cohen², Yonina Eldar²
¹Pediatric Cardiology, Sheba Medical Center, Ramat Gan, Israel
²The department of Electrical Engineering, The Technion, Israel Institute of Technology, Haifa, Israel





- 17:06 **Clinical and Echocardiographic Characteristics of Patients in Sinus Rhythm, Normal Left Ventricular Function and Indeterminate Diastolic Function**
Matan Shimron¹, Yevgeni Hazanov², Nabeeh Salman², Diab Ghanim², Wadia Kinany², Offer Amir^{1,2}, Shemy Carasso^{1,2}
¹Galilee School of Medicine, Bar-Ilan University, Zefat, Israel
²Cardiovascular institute, B Padeh Medical Center, Poriya, Israel
- 17:18 **A Pilot Study of the Feasibility and Efficacy of Teaching Cardiac Ultrasound to Large Groups of Medical Students**
Sergio Kobal¹, Yotam Lior³, Alon Ben-Sasson³, Noah Liel-Cohen¹, Lior Fuchs²
¹Cardiology Department, Soroka University Medical Center, Beer-Sheva, Israel
²Department of Medical Intensive Care, Soroka University Medical Center, Beer-Sheva, Israel
³Clinical Research Center, Soroka University Medical Center, Beer-Sheva, Israel
- 17:30 **Limited Accuracy of Myocardial Deformation Imaging in Diagnosing Left Ventricular Segmental Dysfunction: is it Only a Limitation of the 2D Strain Software?**
Amnon Eitan¹, Izhak Kehat^{1,2}, Diab Mutlak^{1,2}, Yoram Agmon^{1,2}
¹Cardiology, Rambam Medical Center, Haifa, Israel
²Faculty of Medicine, Technion, Haifa, Israel
- 17:42 **Speckle Tracking Imaging Parameters in non Ischemic Stress Echocardiography**
Marina Leitman^{1,2}, Vladimir Tyomkin¹, Eli Peleg^{1,2}, Izhak Zissman, Izhak Zissman¹, Simha Rosenblatt¹, Edgar Sucher¹, Vered Gercenshtein¹, Zvi Vered^{1,2}
¹Department of Cardiology, Assaf Harofeh Medical Center, Israel
²Sackler School of Medicine, Tel Aviv University, Israel
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- 16:30-18:00 **Pearls in Cincial EP** Hall C
Chairs: Avishag Laish-Farkash, Nahum Freedberg, Israel
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- 16:30 **Study Of The Wearable Cardioverter Defibrillator in Advanced Heart-Failure Patients (SWIFT)**
Alon Barsheshet^{1,2}, Valentina Kutiyifa², Theodora Vamvouris¹, Arthur J Moss², Yitschak Biton², Leway Chen², Eugene Storozynsky², Chingping Wan³, Steve Szymkiewicz³, Ilan Goldenberg^{2,4}
¹Cardiology, Rabin Medical Center, Petah Tikva, Israel
²Cardiology, University of Rochester Medical Center, Rochester, NY, USA
³Zoll, company, Pittsburgh, PA, USA
⁴Cardology, Sheba Medical Center, Ramat Gan, Israel



- 16:42 **Potent Inhibition of hERG Channels in a Mammalian Cell Line by the Anti-Diarrheal Agent Loperamide**
Mori Krantz¹, Michael Klein², Philip Mehler¹, Naheed Fatima², Thomas Flagg², Mark Haigney²
¹Medicine, University of Colorado, Denver, CO, USA
²Cardiology, USU, Bethesda, MD, USA
- 16:54 **Incidence of Arrhythmia Induced Cardiomyopathy and Predictors for Recovery**
Moshe Katz¹, Eyal Nof¹, Amit Meitus², Avi Sabagg¹, Younis Orwa¹, Ilan Goldenberg¹, Robert Klempfner¹, Micha Feinberg¹, Michael Eldar¹, Michael Glikson¹, Roy Beinart¹
¹Cardiology, Sheba Medical Center, Israel
²Medicine, Tel-Aviv University, Israel
- 17:06 **Survival in Patients with Arrhythmia Induced Cardiomyopathy is Similar to Age and Sex-matched Patients with Paroxysmal Atrial Fibrillation**
Moshe Katz¹, Eyal Nof¹, Amit Meitus², Avi Sabagg¹, Younis Orwa¹, Ilan Goldenberg¹, Robert Klempfner¹, Micha Feinberg¹, Michael Eldar¹, Michael Glikson¹, Roy Beinart¹
¹Cardiology, Sheba Medical Center, Israel
²Medicine, Tel-Aviv University, Israel
- 17:18 **CHADSVASC Score is Predictive of Mortality in ICD Recipients**
Nicholay Teodorovich¹, Yonatan Kogan¹, Hilel Steiner², Mahmoud Suleiman³, Ilan Goldenberg⁴, Moshe Swissa¹
¹Cardiology, Kaplan Hospital, Rehovot, Israel
²Cardiology, Puria Hospital, Tiberias, Israel
³Cardiology, Rambam Hospital, Haifa, Israel
⁴Cardiology, Sheba Hospital, Ramat Gan, Israel
- 17:30 **Effectiveness and Cost-Efficacy of Syncope Workup in a Dedicated Outpatient Syncope Center**
Alexey Naimushin, David Bar-Lev, Igor Lipchenca, Ossi Gurevich, Roy Beinart, Eyal Nof, Michael Eldar, Michael Glikson
Lev Leviev Heart Center, Sheba Medical Center, Israel
- 17:42 **Real Life Experience of a Syncope Clinic Based on a Neurological and Cardiological Collaboration Model**
Mark Kazatsker¹, Sergiu Sabetay², Maguli Barel¹, Avraham Shotan¹, Yaron River²
¹Department of Cardiology, Hillel Yaffe Medical Center, Hadera, Israel
²Department of Neurology, Hillel Yaffe Medical Center, Hadera, Israel





16:30-18:00 **Acute Coronary Syndromes** *Hall H*
Chairs: Shlomi Matetzky, Doron Aronson, Israel

16:30 **Adherence with Guidelines for NSTEMI-ACS in the Emergency Department**
Harel Gilutz¹, Sevatlana Shindel², Ilana Shoham-Vardi²
¹*School of Medicine, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel*

²*Department of public Health, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel*

16:42 **ST- Elevation Myocardial Infarction in Patients Under 40 Years old- Observational Study of More than a Decade**
Amos Levi^{1,2}, Alon Eisen^{1,2}, Guy Topaz^{1,2}, Aviv Shaul^{1,2}, Hana Vaknin-Assa^{1,2}, Tamir Bental^{1,2}, Gabriel Greenberg^{1,2}, Eldad Rechavia^{1,2}, Eli Lev^{1,2}, Ran Kornowski^{1,2}, Abid Assali^{1,2}

¹*Cardiology, Rabin Medical Center, Petach Tikva, Israel*

²*Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel*

16:54 **Temporal Trends and Outcomes Associated with Atrial Fibrillation Observed during Acute Coronary Syndrome: Real World Data from the Acute Coronary Syndrome Israeli Survey (ACSIS) 2000-2013**
Aharon Erez¹, Ilan Goldenberg¹, Avi Sabbag¹, Eyal Nof¹, Doron Zahger², Shaul Atar³, Arthur Pollak⁴, Idit Dobrecky-Mery⁵, Roy Beigel¹, Shlomi Matetzky¹, Michael Glikson¹, Roy Beinart¹

¹*Leviev Heart Center, Sheba Medical Center, Tel HaShomer, Ramat Gan, Israel*

²*Intensive Cardiac Care Unit, Department of Cardiology, Soroka University Medical Center, Be'er-Sheva, Israel*

³*Cardiology Department, Galilee Medical Center, Nahariya, Israel*

⁴*Heart Institute, Hadassah-Hebrew University Medical Center, Jerusalem, Israel*

⁵*Department of Cardiology, Bnai Zion Medical Center, and the Ruth and Bruce Rappaport Faculty of Medicine, Technion - Israel Institute of Technology, Haifa, Israel*



- 17:06 **Cha2ds2-vasc Score and Clinical Outcomes of Patients with Acute Coronary Syndrome**
Zach Rozenbaum¹, Avishay Elis^{2,3}, Meital Shlezinger⁴, Ilan Goldenberg^{3,4}, Avi Leader⁵, Morris Mosseri^{3,6}, David Pereg^{3,6}
¹Department of Internal Medicine D, Sourasky Medical Center, Tel Aviv, Israel
²Department of Medicine, Beilinson Hospital, Rabin Medical Center, PetachTikva, Israel
³Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, Israel
⁴Department of Cardiology, Sheba Medical Center, Tel hashomer, Tel hashomer, Israel
⁵Department of Internal Medicine A, Meir Medical Center, Kfar Saba, Israel
⁶Department of Cardiology, Meir Medical Center, Kfar Saba, Israel
- 17:18 **Prognostic Implications of Fluid Balance in ST Elevation Myocardial Infarction Patients Complicated by Cardiogenic Shock**
Yacov Shacham, Ronen Mass, Ben Sade, Shafik Khoury, Gad Keren, Yaron Arbel
 Cardiology, Tel Aviv Sourasky Medical Center, Israel
- 17:30 **Association between Admission Hyperglycemia and Left Ventricular Function in ST-Segment Elevation Myocardial Infarction Patients undergoing Primary Coronary Intervention**
Nir Flint, Yan Topilsky, Arie Steinvil, Gad Keren, Arie Roth, Yacov Shacham
 Department of Cardiology, Tel-Aviv Sourasky Medical Center affiliated to the Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, Israel
- 17:42 **Clinical Value of Serum Procalcitonin in Diagnosis of Infection in Patients with Acute Myocardial Infarction**
Itzhak Vitkon Barkay¹, Zipora Lazarovich⁴, Dror Marchaim^{2,3}, Oran Tzuman¹, Chana Richter³, Zvi Vered^{1,3}, Sa'ar Minha^{1,3}
¹Cardiology, Assaf-Harofeh Medical Center, Be'er Ya'akov, Israel
²Infectious Diseases Control Unit, Assaf-Harofeh Medical Center, Be'er Ya'akov, Israel
³Sackler School of Medicine, Tel-Aviv University, Ramat-Aviv, Israel
⁴Microbiological laboratory, Assaf-Harofeh Medical Center, Be'er Ya'akov, Israel





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- 16:30-18:00** **New Discoveries in Basic Researches II** *Hall I*
Chairs: Moshe Flugelman, Michael Arad, Israel
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- 16:30 **Colony Forming Unites - Endothelial Progenitor Cells (CFU-EPCs) – A Surrogate Marker for Diabetic Retinopathy and High Cardiovascular Mortality Rate**
Arnon Blum, Dorina Socea, Nina Pastukh, Avi Peretz, Hanin Jabaly
Medicine, Baruch Padeh Poria Medical Center Faculty of Medicine Bar Ilan University, Tiberias, Israel
- 16:42 **Cytoplasmic Histone Dacetylase 4 Promotes Vascular Calcification**
Alon Abend¹, Omer Shkedi¹, Michal Fertouk^{1,2}, Lilac Caspi¹, Izhak Kehat^{1,3}
¹*The Rappaport Institute and the Bruce Rappaport Faculty of Medicine, Technion - Israel Institute of Technology, Haifa, Israel*
²*Department of Cardiac Surgery, Rambam Medical Center, Haifa, Israel*
³*Department of Cardiology and the Clinical Research, Rambam Medical Center, Haifa, Israel*
- 16:54 **Sustained Elevation of Vascular Endothelial Growth Factor Levels Following Transcatheter Aortic Valve Replacement**
Jeremy Ben-Shoshan^{1,2}, Arie Steinvil^{1,2}, Yaron Arbel^{1,2}, Yan Topilsky^{1,2}, Leehee Barak^{1,2}, Michal Entin-Meer^{1,2}, Ran Levy^{1,2}, Arie Schwartz^{1,2}, Gad Keren^{1,2}, Ariel Finkelstein^{1,2}, Shmuel Banai^{1,2}
¹*Cardiology, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel*
²*Sackler School of Medicine, Tel-Aviv University, Israel*
- 17:06 **The Association between Peripheral Blood Levels of B-regulatory Lymphocytes and Clinically Unstable Coronary Artery Disease**
Igor Volodarsky, Sara Shimoni, Daniel Hoberman, Yakov Fabrikant, Adi Zalik, Jacob George
The Heart Institute, Kaplan Medical Center, Rehovot, Israel
- 17:18 **Cross-bridge Dynamics is Determined by Two Velocity Dependent Kinetics; Implications on the Adaptive and Synchronous Cardiac Function**
Daria Amiad Pavlov¹, Michal Horowitz², Amir Landesberg¹
¹*Faculty of Biomedical Engineering, Technion IIT, Haifa, Israel*
²*Faculty of Medicine, Hebrew University, Jerusalem, Israel*



- 17:30 **The Effect of Vitamin D on Endothelial Progenitor Cells Function in Healthy Subjects and Patients with Diabetes Mellitus**
Yoav Hammer^{1,2}, Alisa Sudri², Yeela Talmor^{1,2}, Dorit Leshem-Lev^{1,2}, Ran Kornowski^{1,2}, Eli Lev^{1,2}
¹Cardiology division, Rabin Medical Center-Beilinson Campus, Israel
²Felsenstein Medical Research Center, Rabin Medical Center-Beilinson Campus, Israel
- 17:42 **The Ubiquitin Proteasome System as a Potential Target for Reverse Cardiac Remodeling in LVAD Patients**
Yaron D. Barac¹, F. Emrich², E. Krutzwald¹, S. Steinbach², K. Kellermann², M.-T. Dieterlen², J. Garbade², S. Lehmann², V. Rubchevsky¹, A. Ciechanover¹, F.-W. Mohr², D. Aravot¹
¹Cardiothoracic Department, Rabin Medical Center, Petach-Tikva, Israel
²Department of Cardiac Surgery, Heart Center Leipzig University, Leipzig, Germany
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- 16:30-18:00 **Women in Cardiology** *Hall 3*
 Chairs: Avital Porter, Israel, Mary N. Walsh, USA
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- 16:30 **Women in Cardiology in the 21st Century**
Cindy Grines
 USA
- 16:45 **Women's Career in Cardiovascular Research**
Eloisa Arbustini
 Italy
- 17:00 **Among Heart Failure Patients Women Fare Better than Men**
Avishay Grupper¹, Ofra Kalter-Leibovici², Havi Murad², Michal Benderly², Laurence Freedman², Arnona Ziv², Nurit Friedman³, Galit Kaufman³, Haim Silver³, Dov Freimark¹
¹Leviev Heart Center, Sheba Medical Center, Tel Hashomer, Israel
²Epidemiology & Health Policy Research, The Gertner Institute, Ramat Gan, Israel
³Maccabi Health Services, Maccabi Health Services, Tel Aviv, Israel
- 17:12 **Cardiogenic Shock Complicating Acute Myocardial Infarction: are there any Gender Differences?**
Gabriel Greenberg, Ran Kornowski, Hanna Vaknin-Assa, Tamir Bental, Eli I. Lev, Abid Assali
 Institute of Cardiology, Rabin Medical Center, Petach-Tikva, Israel





- 17:24 **Spontaneous Coronary Artery Dissection in Young Women Presenting with Acute Coronary Syndrome: Insights from the GENESIS-PRAXY Study**
Avi Shimony^{1,2}, Hatim Al Lawati³, Akshay Bagai³, Hassan Behloul⁵, Mark Eisenberg⁵, Derek So⁴, Igor Karp⁵, Louise Pilote⁵, Asim N. Cheema, GENESIS PRAXY TEAM .
¹Cardiology, Jewish General Hospital, Montreal, QC, Canada
²Cardiology, Ben Gurion University, Soroka Medical Center, Beer-Sheva, Israel
³Cardiology, St. Michael's Hospital, Toronto, ON, Canada
⁴Ottawa Heart Institute, Ottawa Heart Institute, Ottawa, ON, Canada
⁵Clinical Epidemiology, McGill University Health Center, Montreal, QC, Canada
- 17:36 **Endothelial Function Tests Among Women Referred for the Heart Clinic: A Glance to Women's Specific Risk Factors**
Avital Porter, Zaza Iakobishvili, Ilana Gezel, Ran Kornowski
The Women's Heart Clinic and The Department of Cardiology, Rabin Medical Center, Petah Tiqva, Israel

16:30-18:00 **Epidemiology and Prevention II**
Chairs: **Chaim Yosefy, David Rott, Israel**

Hall 4

- 16:30 **Anthropometric Assessment of Neck Adipose Tissue Volume and its Association with Cardiovascular Risk**
Ilya Litovchik¹, Hillel S Maresky², Sigal Tal², Noam Grysman³, Victoria Rum¹, Zvi Vered^{1,3}, Sa'ar Minha^{1,3}
¹Department of Cardiology, Assaf-Harofeh Medical Center, Zerifin, Israel
²Department of Radiology, Assaf-Harofeh Medical Center, Zerifin, Israel
³Sackler School of Medicine, Tel Aviv University, Ramat-Aviv, Israel
- 16:42 **CHADS-VASC Score and the Risk of New Onset Atrial Fibrillation among Middle Age Adults**
Anat Berkovitch^{1,2}, Avi Sabbag², Shlomo Segev³, Shaye Kivity⁴, Yechezkel Sidi⁴, Ilan Goldenberg², Elad Maor^{2,5}
¹Department of Internal Medicine D, the Chaim Sheba Medical Center, Tel Hashomer, Israel
²Leviev Heart Center, the Chaim Sheba Medical Center, Tel Hashomer, Israel
³Institute for Medical Screening, the Chaim Sheba Medical Center, Tel Hashomer, Israel
⁴Department of Internal Medicine C, the Chaim Sheba Medical Center, Tel Hashomer, Israel
⁵Pinchas Borenstein Talpiot Medical Leadership Program, the Chaim Sheba Medical Center, Tel Hashomer, Israel



- 16:54 **Impact of the Presence and Treatment Status of Diabetes on Long-term Mortality Following Coronary Angiography**
Barak Zafir, Ronen Jaffe, Johnny Shahla, Jacob Goldstein, Nader Khader, Nissan Yaniv, Basheer Karkabi, Ronen Rubinshtein, Amnon Merdler, Moshe Y Flugelman, David A Halon
Cardiovascular Division, Lady Davis Carmel Medical Center, Haifa, Israel
- 17:06 **The Predictive Value of Zerum Lipids and Glucose in New Onset Hypertension in Middle Aged Healthy Adults**
Maias Abd Alraheem, Yehezkel Sidi, Elad Maor, Shlomo Segev
Internal Medicine C, Haim Sheba Medical Center, Ramat-Gan, Israel
- 17:18 **Long-term Exposure to Traffic-related Air Pollution and Cancer Risk Among Survivors of Myocardial Infarction: a 20-year Follow-up Study**
Gali Cohen¹, Ilan Levy², David M. Broday², Jeremy D. Kark³, Noam Levin⁴, Yuval², David M. Steinberg⁵, Yariv Gerber¹
¹*Dept. of Epidemiology and Preventive Medicine, School of Public Health, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel*
²*Technion Center of Excellence in Exposure Science and Environmental Health, Technion Israel Institute of Technology, Haifa, Israel*
³*Epidemiology Unit, Braun School of Public Health and Community Medicine, Hebrew University and Hadassah Medical Organization, Jerusalem, Israel*
⁴*Dept. of Geography, Hebrew University of Jerusalem, Jerusalem, Israel*
⁵*Dept. of Statistics and Operations Research, School of Mathematical Sciences, Raymond and Beverly Sackler Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, Israel*
- 17:30 **Arab and non-Arab Coronary Artery Disease Patients: Comparing Risk Factors; the Smoking Mirrors of Ethnicity**
Fabio Kusniec¹, Offer Amir^{1,2}, Diab Ghanim^{1,2}, Abbed-al-Wahab Darawshe¹, Dahud Qarawani^{1,2}, David Meerkin¹, Nabeeh Salman¹, Khaled Taha¹, Shemy Carasso^{1,2}
¹*Cardiovascular institute, B Padeh Medical Center, Poriya, Israel*
²*Galilee School of Medicine, Bar-Ilan University, Zefat, Israel*
- 17:42 **The Influence of a Normal Myocardial Perfusion SPECT on Prescription of Preventive Cardiovascular Medications and Patients' Adherence**
Aryeh Shalev^{1,2}, Noga Michnovsky², Arik Wolak³, Victor Novack⁴, Ronen Toledano⁴, Yaakov Henkin^{1,2}
¹*Cardiology Department, Soroka University Medical Center, Be'er Sheva, Israel*
²*Faculty of Health Sciences, The Joyce & Irving Goldman Medical School, Ben Gurion University of The Negev, Be'er Sheva, Israel*
³*Cardiac Imaging Unit, Cardiology Department, Sha'are Zedek Medical Center, Jerusalem, Israel*
⁴*Clinical Research Center, Soroka University Medical Center, Ben Gurion University of The Negev, Be'er Sheva, Israel, Israel*





Pediatric Cardiology/ Adult congenital

- Clinical and Parental Status of Patients with Congenital Heart Disease Associated Pulmonary Arterial Hypertension**
Amiram Nir
Pediatric Cardiology, Hadassah, Hebrew University Medical Center, Jerusalem, Israel
- Approach to Hemangiomas Causing Congestive Heart Failure**
Roie Tal, Avraham Lorber
Pediatric Cardiology, Rappaport Children's Hospital, Rambam Medical Center, Haifa, Israel

Interventional Cardiology

- STEMI Due to Stent Thrombosis and Pain to Door Time: A Beneficial Association**
Avshalom Cohen¹, Yigal Plakht², Harel Gilutz¹, Doron Zahger¹, Carlos Cafri¹
¹*Cardiology, Soroka University Medical Center, Beer-Sheeva, Israel, Israel*
²*Faculty Of Health Science Ben-Gurion University, Soroka University Medical Center, Beer-Sheeva, Israel*
- The Influence of Demographic Factors on the Pain to Door Time in ST Elevation Myocardial Infarction**
Avshalom Cohen¹, Yigal Plakht², Harel Gilutz¹, Doron Zahger¹, Carlos Cafri¹
¹*Cardiology, Soroka University Medical Center, Beer-Sheeva, Israel*
²*Faculty Of Health Science Ben-Gurion University, Soroka University Medical Center, Beer-Sheeva, Israel*
- Comparison of Imaging Techniques to Assess Appendage Anatomy and Measurements of Left Atrial Appendage**
Ehud Chorin¹, Yuval Levy¹, Sebastiano Gili², Matteo Anselmino², Martin Swaans³, Galit Aviram⁴, Dov Wexler¹, Simon Biner¹, Amir Halkin¹, Sami Viskin¹, Raphael Rosso¹
¹*Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel*
²*Life Sciences, Università degli Studi di Torino, Italy*
³*Cardiology, St. Antonius Hospital, Nieuwegein, Netherlands*
⁴*Radiology, Tel Aviv Sourasky Medical Center, Israel*
- Long balloon, Long Shaft for SFA Intervention Using Trans Radial Approach**
Yoav Turgeman, Doron Sudarsky, Menachem Nahir, Alexander Feldman
Heart Institute, HaEmek Medical Center, Rappaport School of Medicine, Afula, Israel



7. **Long-Term Follow-Up of Patients with an Initially Normal Coronary Angiogram or Minimal Atherosclerosis at Baseline**
Joerg Carlsson¹, Antonia Breyne¹, Lars Brudin², Bo Lagerqvist³
¹*Dept. of Cardiology, Kalmar County Hospital, Sweden*
²*Dept. of Clinical Physiology, Kalmar County Hospital, Sweden*
³*National Registry Research, Uppsala Clinical Research Center, Sweden*
8. **Safety and Efficacy of Drug-eluting Stents in Bifurcation Lesions in Patients with Acute Myocardial Infarction**
Gabriel Greenberg, Ran Kornowski, Hanna Vaknin-Assa, Tamir Bental, Eli I. Lev, Abid Assali
Department of Cardiology, Rabin Medical Center, Petach-Tikva, Israel
9. **Transcatheter Aortic Valve Implantation: Clinical Results and Long-term Outcome**
Uri Landes¹, Abid Assali¹, Hanna Vaknin-Assa¹, Katia Orvin¹, Amos Levi¹, Ram Sharoni², Yaron Shapira¹, Tamir Bental¹, Gabriel Greenberg¹, Ashraf Hamdan¹, Ariel Gutstein¹, Alexander Sagie¹, Ran Kornowski¹
¹*Department of Cardiology, Rabin Medical Center, Tel Aviv, Israel*
²*Department of Cardiac Surgery, Rabin Medical Center, Tel Aviv, Israel*
10. **Early Clinical Experience with the InSeal Vascular Closure Device**
Ran Kornowski, Katia Orvin, Hana Vaknin-Assa, Abid Assali
Interventional Cardiology, Rabin Medical Center, Petach Tikva, Israel
11. **Renal Artery Denervation for Resistant Hypertension, Including Patients with Chronic Kidney Disease: A Long-term Follow-up**
Diab Ghanim, Tamer Sobeh
Cardiology, Baroch Padeh Medical Center, Poriya, Israel
12. **Treatment of Non-compressible Pelvic Bleeding with Endovascular Aortic Balloon Occlusion in the Pre-hospital Setting: the Next Frontier in Combat Potentially Preventable Death**
David Planer, Matan Golan, Yaacov Samet
Heart Institute, Hadassah Medical Center, Jerusalem, N/A, Israel
13. **Reduction of Radiation Hazard in the Catheterization Laboratory**
Nemer Samniah^{1,2}, Hatem Omari², Alla Lubovich^{1,2}, Ehod Goldhammer^{1,2}, Uri Rosenschein^{1,2}
¹*Faculty of Medicine, Technion, Haifa, Israel*
²*Cardiology, Bnai-Zion Medical Center, Haifa, Israel*





14. **Early Results of Acute Stroke Intervention Undertaken by Invasive Cardiologists Vs Neuro-Interventionalists**
Yoav Turgeman, Menachem Nahir, Ehud Rozner, Doron Sudarsky
Heart Institute, HaEmek Medical Center, Rappaport School of Medicine, Afula, Israel
15. **Prognostic Role of Neutrophil / Lymphocyte Ratio after Transfemoral Aortic Valve Implantation**
Ehud Chorin, Ariel Finkelstein, Shmuel Banai, Amir Halkin, Itzhak Herz, Yigal Abramowitz, Yacov Shacham, Jeremy Ben-Shoshan, Gad Keren, Yaron Arbel
Cardiology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
16. **Pre-counselling and Quality Assurance for Cardiac Catheterization – Experience of Maccabi Healthcare Services**
Yitzhak Abend, Yitzhak Katzir, Abraham Caspi, Oded Ayzenberg
Mediacal Division, Maccabi Healthcare Services, Israel
17. **Acute Kidney Injury after Primary Angioplasty: Is Contrast Induced Nephropathy the Culprit?**
Oren Caspi^{1,2}, Manhal Habib^{1,2}, Jennifer Le'or Fathy², Arthur Kerner^{1,2}, Ariel Roguin^{1,2}, Eitan Abergel^{1,2}, Monther Boulos^{1,2}, Robert Dragu^{1,2}, Michael R. Kapeliovich^{1,2}, Rafael Beyar^{1,2}, Eugenia Nikolsky^{1,2}, Doron Aronson^{1,2}
¹*Cardiology, Rambam Health Care Campus, Haifa, Israel*
²*The Bruce Rappaport Faculty of Medicine, The Technion- Israel Institute of technology, Haifa, Israel*
18. **The Impact of Radial Access in the Reduction of Bleeding in Patients with Acute Coronary Syndrome: Comparison between Two Israeli Surveys**
Gabby Elbaz-Greener^{1,4}, Eran Kalmanovich^{1,4}, Roy Beigel^{2,4}, Zaza Iakobishvili^{3,4}, Meital Shlezinger², Nir Shlomo, Ilan Goldenberg^{2,4}, Zvi Vered^{1,4}, Alex Blatt^{1,4}
¹*Department of Cardiology, Assaf Harofeh Medical Center, Zerifin, Israel*
²*The Heart Center, Chaim Sheba Medical Center, Tel HaShomer, Israel*
³*The Heart Institute, Rabin Medical Center, Petach-Tikva, Israel*
⁴*Sackler School of Medicine, Tel Aviv University, Israel*



19. **Transcatheter Aortic Valve Implantation in Patients with Previous Malignancy**
Anat Berkovitch^{1,2,5}, Victor Guetta^{1,5}, Israel Barbash^{1,5}, Noam Fink^{1,5}, Ehud Regev^{1,5}, Elad Maor^{1,3,5}, Rafael Kuperstein^{1,5}, Ehud Raanani^{4,5}, Amjad Shalabi^{4,5}, Shlomo Matetzky^{1,5}, Dan Elian^{1,5}, Micha Feinberg^{1,5}, Elad Asher^{1,5}, Amit Segev^{1,5}, Paul Fefer^{1,5}
¹Leviev Heart Center, Sheba Medical Center, Israel
²Department of Internal Medicine D, Sheba Medical Center, Israel
³Pinchas Borenstein Talpiot Medical Leadership Program, Sheba Medical Center, Israel
⁴Cardiac Surgery, Sheba Medical Center, Israel
⁵Sackler School of Medicine, Tel-Aviv University, Israel
20. **The Effects of Hyperlipidemia and Lipid Levels on Coronary Flow, Microcirculation and Left Ventricular Systolic Function in Patients with Acute STEMI Undergoing Primary Coronary Intervention**
Dawod Sharif^{1,2}, Ziad Arow², Amal Sharif-Rasslan³, Yasmin Sharif², Uri Rosenschein^{1,2}
¹Cardiology, Bnai Zion Medical Center, Haifa, Israel
²Medicine, Technion Israel Institute of Technology, Haifa, Israel
³Science and Technology, Technion Israel Institute of Technology, Haifa, Israel
21. **Clinical Triggering of ST-segment Elevation Myocardial Infarction: Correlation with Coronary Artery Disease Extent**
Jeremy Ben-Shoshan¹, Yafit Segman-Rosenstveig², Yaron Arbel¹, Ehud Chorin¹, Michael Barkagan¹, Zach Rozenboim³, Yoav Granot³, Ariel Finkelstein¹, Shmuel Banai¹, Gad Keren¹, Yacov Shacham¹
¹Cardiology, Tel-Aviv Medical Center, Israel
²Internal Medicine F, Tel-Aviv Medical Center, Israel
³Internal Medicine D, Tel-Aviv Medical Center, Israel
22. **Gender Differences of CT Measurements in Patients Undergoing Transcatheter Aortic Valve Implantation: Influence on Long-Term Clinical Outcomes**
Ella Shaviv¹, Israel Barbash¹, Victor Guetta¹, Ehud Schwammenthal¹, Amit Segev¹, Paul Fefer¹, Orly Goitein³, Eli Konen³, Ashraf Hamdan²
¹Department of Cardiology, Sheba Medical Center
²Department of Cardiology, Rabin Medical Center
³Diagnostic Imaging, Sheba Medical Center, Israel





23. **Transcatheter Aortic Valve Implantation in Patients with Large Annulus**
Anat Berkovitch^{1,3}, Paul Fefer^{1,3}, Israel Barbash^{1,3}, Noam Fink^{1,3},
Ehud Regev^{1,3}, Elad Asher^{1,3}, Sagit Ben-Zekry^{1,3}, Shlomo Matetzky^{1,3},
Dan Elian^{1,3}, Orly Goitein^{2,3}, Yafim Brodov^{1,2,3}, Micha Feinberg^{1,3},
Victor Guetta^{1,3}, Amit Segev^{1,3}
¹Leviev Heart Center, Sheba Medical Center, Israel
²Diagnostic Imaging, Sheba Medical Center, Israel
³Sackler School of Medicine, Tel-Aviv University, Israel

Myocardial /Pericardial Diseases, Heart Failure

24. **Acute Myocarditis , a Single Center Experience**
Mahmod Hammoud, Idit Dobrecky Mery, Dobrecky Mery Idit,
Uri Rosenschein
*Cardiology, Bnai-Zion Medical Center, the Bruce Rappaport Faculty of
Medicine, Technion-Israeli Institute of Technology, Haifa, Israel*
25. **Non Compaction Cardiomyopathy (NCCM), an Underdiagnosed
Disorder?**
Isis Abomouch¹, Dawood Sharif^{1,2}, Idit Dobrecky - Mery^{1,2},
Ehud Goldhammer^{1,2}, Uri Rosenschein^{1,2}
¹Cardiology, Bnai Zion Medical Center, Haifa, Israel
²Medicine, Technion High Institute of Technology, Haifa, Israel
26. **Outcomes of Contemporary Continuous Flow Left Ventricular Assist
Device Support in Patients with End Stage Heart Failure: A Single
Center Experience**
Daniel Murninkas¹, Binyamin Ben Avraham¹, Israel Mats¹, Hasin Tal³,
Victor Rubchevsky², Miriam Abuhazira², Dimitry Golubov², Viki Yaari¹,
Benjamin Medalion², Ran Kornowski¹, Ben Gal Tuvia¹, Dan Aravot⁴,
Dan Aravot², Tuvia Ben Gal¹
¹Cardiology Department, Rabin Medical Center, Petah Tikva, Israel
²Cardiothoracic Surgery, Rabin Medical Center, Petah Tikva, Israel
³Cardiology Department, Shaare Zedek Medical Center, Jerusalem, Israel
⁴Cardiothoracic Surgery, Rabin Medical Center, Petah Tikva, Israel
27. **Evaluation of Left and Right Ventricular Function Using 2D Strain
Imaging in Patients with Cardiac Amyloidosis**
Anna Turyan, Sara Hoss, Ronen Beerli, David Leibowitz, Sarit Dvir,
Doris Yossian, Chaim Lotan, Arthur Pollak
Department of Cardiology, Hadassah Medical Center, Jerusalem, Israel



28. **Adverse Events During the First Year on Continuous flow LVAD Support: The Rabin Medical Center Experience**
Benyamin Ben Avraham¹, Daniel Murninkas¹, Israel Mats¹, Tal Hassin¹, Alon Barsheshet¹, Merav Ben Avraham², Benjamin Medalion¹, Dan Aravot¹, Ran Kornowsky¹, Tuvia Ben Gal¹
¹Cardiology, RMC, Israel
²Family Care, Maccabi Health Services, Israel
29. **Percutaneous Mitral Valve Repair for Mitral Regurgitation: the Initial Kaplan Medical Center Experience**
Liaz Zilberman, Gera Gendelman, Irina Fugenfirov, Sara Shimoni, Jacob George, Sorel Goland
Heart Institute, Kaplan Medical Center, Rehovot, Israel
30. **Improvement in Functional Mitral Regurgitation after Coronary Catheterization with and Without Percutaneous Coronary Intervention**
Tal Hasin, David Rosenmann, Tatyana Weitsman, Rivka Farkash, Adi Butnaru, Liat Alper-Suissa, Zahi Khouri, Marc Klutstein, Giora Weisz
Cardiology, Shaare Zedek Medical Center, Jerusalem, Israel
31. **Obstructive Sleep Apnea in Continuous Flow LVAD Supported Patients: Incidence and therapeutic implications**
Daniel Murninkas¹, Binyamin Ben Avraham¹, Israel Mats¹, Tal Hasin¹, Victor Rubchevsky², Miriam Abuhazira², Dimitry Golubov², Viki Yaari¹, Yulia Zusman¹, Benjamin Medalion², Ran Kornowsky¹, Dan Aravot², Tuvia Ben Gal¹
¹Cardiology, Rabin Medical Center, Petach Tikva, Israel
²Cardiac Surgery, Rabin Medical Center, Petach Tikva, Israel
32. **The Cardiopulmonary Vascular System and the Ventilatory Reflex; Scientific Merits and Clinical Implications**
Anna Faingersh-Klebanov, Amir Landesberg
Faculty of Biomedical Engineering, Technion - IIT, Haifa, Israel
33. **Carbon Monoxide Poisoning in Young Healthy Patient: Case Study of Heart Failure Recovery after Hyperbaric Oxygenation Treatment**
Michael Kuniavsky^{1,3}, Marina Laitman², Yair Bechor¹, Shaj Efrati¹
¹Hyperbaric Oxygenation Clinic, Assaf Harofeh Medical Center, Beer Jaacov, Israel
²Cardiology, Assaf Harofeh Medical Center, Beer Jaacov, Israel
³ICU, Assaf Harofeh Medical Center, Beer Jaacov, Israel





- 34. Factors Associated with Adverse Outcomes in Ambulatory Heart Failure Patients**
Ilan Richter¹, Tal Hasin², Tamir Bental³, Tuvia Ben Gal³, Ran Kornowski³, Yariv Gerber¹
¹Department of Epidemiology and Preventive Medicine, Tel Aviv University School of Public Health, Tel Aviv, Israel
²Cardiology Department, Shaare Tzedek Medical Center, Jerusalem, Israel
³Cardiology Department, Rabin Medical Center, affiliated to the Sacker Faculty of Medicine, Tel Aviv University, Petah Tikva, Israel
- 35. Exercise Training after Cardiac Resynchronization Therapy (CRT)**
Eugeny Radzishovsky^{1,2,3}, Ehud Goldhammer^{1,2,3}, Nemer Samniah³, Idit Dobrecky-Mery^{1,2,3}, Uri Rosenschein^{1,2,3}
¹Faculty of Medicine, Technion, Haifa, Israel
²Cardiology, Bnai Zion Medical Center, Haifa
³Cardiology, Bnai Zion Medical Center, Haifa, Israel
- 36. Amission Blood Glucose and Long Term (10-year) Mortality among Patients Hospitalized with Heart Failure**
Osnat Itzhaki Ben Zadok¹, Ran Kornowski², Ilan Goldenberg³, Robert Klempfner³, Yitschak Biton³, Gregory Golovchiner², Ehud Kadmon², Alexander Omelchenko², Tuvia Ben Gal², Boris Strassberg², Alon Barsheshet²
¹Internal Medicine A, Rabin Medical Center, Petah-Tikva, Israel
²Department of Cardiology, Rabin Medical Center, Petah-Tikva, Israel
³Heart institute, Sheba Medical Center, Tel-Hashomer, Israel
- 37. Treatment Feeking Delay Among Latina and Non-latina Women with Acute Myocardial Infarction**
Mori Krantz^{3,4,5}, Bonnie Leeman-Castillo², Kitty Corbett¹, John Westfall⁵, Susan Dreisbach⁵, Philip Mehler^{4,5}
¹Behavioral Health, University of Waterloo, Ontario, Canada
²Health Research and Policy, Kaiser Permanente, Denver, Colorado, USA
³Cardiology, Denver Health, Denver, Colorado, USA
⁴Medicine, University of Colorado, USA
⁵Medicine, University of Colorado, Denver, Colorado, USA
- 38. Diagnostic Testing for Suspected Myocarditis: the "Real World" Practice**
Evgeny Radzishovsky^{1,2}, Ehud Goldhammer^{1,2}, Idit Dobrecky-Mery^{1,2}, Uri Rosenschein^{1,2}
¹Cardiology department, Bnai Zion Medical Center, Haifa, Israel
²Technion, Faculty of Medicine, Haifa, Israel



39. Cardiomyopathy Associated with Trace-Element Deficiency Post Bariatric-Surgery

Malka Yahalom¹, Ofir Koren¹, Ehud Rozner¹, Yoav Turgeman^{1,2}

¹Heart Institute, Ha'emek Medical Center, Afula, Israel

²Rappaport School of Medicine, Technion, Haifa, Israel

Pacing and Electrophysiology

40. Long-term Prognosis of Prior and New-Onset Atrial Fibrillation in ST-Elevation Myocardial Infarction Patients Undergoing Percutaneous Coronary Intervention

Guy Topaz, Nir Flint, Arie Steinvil, Arik Finkelstein, Shmuel Banai,

Gad Keren, Yacov Shacham, Lior Yankelson

Cardiology, Tel-Aviv Sourasky Medical Center and Sackler-School of Medicine, Tel Aviv University, Israel

Intensive Care

41. Effects of C-reactive Protein Level at Admission on Coronary Flow, Microcirculation and Left Ventricular Systolic Function in Patients with Acute STEMI Undergoing Primary Coronary Intervention

Dawod Sharif^{1,2}, Emad Khoury², Amal Sharif-Rasslan³, Yasmin Sharif², Uri Rosenschein^{1,2}

¹Cardiology, Bnai Zion Medical Center, Haifa, Israel

²Medicine, Technion Israel Institute of Technology, Haifa, Israel

³Science and Technology, Technion Israel Institute of Technology, Haifa, Israel

42. The Effect of Renal Function on the Treatment and Outcome of Patients with Acute Coronary Syndrome

Zach Rozenbaum¹, Sydney Benchetrit⁵, Mony Shuvy^{2,3}, Yoram Neuman^{4,5}, Meital Shlezinger⁶, Ilan Goldenberg^{5,6}, Morris Mosseri^{4,5}, David Pereg^{4,5}

¹Department of Internal Medicine D, Sourasky Medical Center, Tel Aviv, Israel

²Department of Nephrology and Hypertension, Meir Medical Center, Kfar Saba, Israel

³Heart Institute, Hadassah Hebrew University Medical Center, Jerusalem, Israel

⁴Department of Cardiology, Meir Medical Center, Kfar Saba, Israel

⁵Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv, Israel

⁶Department of Cardiology, Sheba Medical Center, Tel hashomer, Israel





43. **The Association of Desalinated Drinking Water and All-cause Mortality in Hospitalized Patients with Acute Myocardial Infarction from the Acute Coronary Syndrome Israeli Survey 2002-2013**
Meital Shlezinger², Michael Shechter¹, Ilan Goldenberg¹, Yona Amitai²
¹Cardiology, Leviev Heart Center, Chaim Sheba Medical Center, Ramat-Gan, Israel
²Management, Bar Ilan University, Ramat-Gan, Israel
44. **Read-back Improvement in Intensive Care Units – Cooperation for Sake of Patient Safety and Quality Improvement**
Michael Kuniavsky, Inbal Gazit, Orna Tal
Quality Assurance Unit, Assaf HaRofeh Medical Center, Beer Jaacov, Israel
45. **Fading Echoes of The Past – The Changing face of Intensive Cardiac Care Units**
Israel Mazin¹, Elad Asher¹, Paul Fefer², Nitza Levi¹, Roy Beigel¹, Shlomi Matetzky¹
¹Intensive Cardiac Care Unit (ICCU), Sheba Medical Center, Israel
²Invasive Cardiology Unit, Sheba Medical Center, Israel
46. **Evaluation and Treatment of Acute Ischemic Stroke in Cardiac Care Unit – 5 years' Experience**
Menachem Nahir¹, Ehud Rosner¹, Tzafrir Or¹, Doron Sudarsky¹, Muachamad Jabarin³, Yoav Turgeman^{1,2}
¹Cardiology, Ha'emek Medical Center, Afula, Israel
²Rappaport Medical School, Technion, Haifa, Israel
³Cardiology, Ha'emek Medical Center, Afula, Israel
47. **The “Burden” of Transcatheter Aortic Valve Implantation Patients Admitted to the Intensive Coronary Care Unit**
Elad Asher, Roy Beigel, Israel Barbash, Victor Guetta, Amit Segev, Paul Fefer, Dan Elian, Israel Mazin, Shlomi Matetzky
Leviev Heart Center, Sheba Medical Center, Ramat-Gan, Israel
48. **Improved Long-term Survival in the Patients with Prolonged Intensive Care Unit Stay After Cardiac Surgery: Influence of Quality Improvement program**
Alexander Kogan^{1,2}, Leonid Sternik^{1,2}, Jacob Lavee^{1,2}, Alexander Lipey^{1,2}, Amjad Shalabi^{1,2}, Ygal Kasiff^{1,2}, Ido Firstenfeld^{1,2}, Shany Levin^{1,2}, Ehud Raanani^{1,2}
¹Department of Cardiac Surgery, Sheba Medical Center, Tel Hashomer, Ramat Gan, Israel
²Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel



49. **Characteristics of Transient ST-Elevation versus ST-Elevation and Non-ST-Elevation Myocardial Infarction**
David S. Blondheim, Michael Shochat, Aaron Frimerman, Aya Asif, Mark Kazatsker, Lubov Vassilenko, Elena Neiman, Rami Abu Fane, Maguli Barel, Yaniv Levy, Avraham Shotan, Simcha R. Meisel
Department of Cardiology, Hillel Yaffe Medical Center, Hadera, Israel
50. **Clinical Sonar is Warranted in the Area of Big Data for Management of Acute Coronary Syndromes**
Harel Gilutz¹, Sevatlana Shindel², Ilana Shoham-Vardi²
¹*School of Medicine, Faculty of Health Sciences., Ben Gurion University of the Negev, Beer Sheva, Israel*
²*Department of public Health, Faculty of Health Sciences., Ben Gurion University of the Negev, Beer Sheva, Israel*
51. **Cardiac Rupture – What Changed During the Last Years?**
Marina Leitman^{1,2}, Ludmila Tsatskin^{1,2}, Alberto Hendler^{1,2}, Alex Blatt^{1,2}, Eli Peleg^{1,2}, Zvi Vered^{1,2}
¹*Department of Cardiology, Assaf Harofeh Medical Center, Israel*
²*Sackler School of Medicine, Tel Aviv University, Israel*
52. **The Impact of Admission Pathway and Reperfusion Modality on Long-term Mortality in STEMI patients**
Simcha Meisel, Michael Shochat, Aaron Frimerman, Luba Vassilenko, Rami Abu Fane, Aya Asif, Mark Kazatsker, David S Blondheim, Avraham Shotan
Heart Institute, Hillel Yaffe Medical Center, Hadera, Israel
53. **Blind Date without GRACE**
Harel Gilutz¹, Sevatlana Shindel², Ilana Shoham-Vardi²
¹*School of Medicine, Faculty of Health Sciences., Ben Gurion University of the Negev, Beer Sheva, Israel*
²*Department of public Health, Faculty of Health Sciences., Ben Gurion University of the Negev, Beer Sheva, Israel*
54. **Incidence of Pressure Ulcers due to Tube Fixation in Mechanically Ventilated Patients in Intensive Care Unit**
Michael Kuniavsky^{1,2,3}, Evgeni Vilenchik¹, Elina Lubenets¹
¹*ICU, Assaf Harofeh Medical Center, Beer Jaacov, Israel*
²*Quality Assurance Unit, Assaf Harofeh Medical Center, Beer Jaacov, Israel*
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Basic Science

55. **Downregulation of Cardiac Erythropoietin Receptor and its Downstream Activated Signal Transducer Phospho STAT-5 in a Rat Model of Chronic Kidney Disease**
Rami Barashi¹, Einat Hertzberg-Bigelman^{1,2}, Ran Levy¹, Jeremy Ben-Shoshan^{1,2}, Gad Keren^{1,2}, Michal Entin-Meer^{1,2}
¹*The Laboratory of Cardiovascular Research, Department of Cardiology, Sourasky Medical Center, Tel Aviv, Israel*
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56. **Immunogenicity of Cardiomyocytes Derived from Induced Pluripotent Stem Cells**
Katya Kovalev¹, Limor Zwi-Dantsis¹, Rostik Gorbatov¹, Maty Tzukerman², Lior Gepstein¹
¹*Sohnis Family Research Laboratory for Cardiac Electrophysiology and Regenerative Medicine, Bruce Rappaport faculty of Medicine, Technion- Israel Institute of Technology, Haifa, Israel*
²*Molecular medicine laboratory, Bruce Rappaport faculty of Medicine, Technion- Israel Institute of Technology, Haifa, Israel*
57. **Loss of Macrophage-Wnt Signaling Improves Remodeling and Function after MI in Mice**
Dahlia Palevski¹, David Kain¹, La-Paz Levin-Kotler¹, Natalie Landa¹, Tammy Ben-Mordechai¹, Tal Konfino¹, Nili Naftali-Shani¹, Natali Molotski¹, Richard A. Lang², Jonathan Leor¹
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²*The Visual Systems Group Divisions of Pediatric Ophthalmology and Developmental Biology, Cincinnati Children's Hospital Medical Center Research Foundation, Cincinnati, OH, USA*
58. **Histone Deacetylase Inhibitor An7 Increases Survival and May Attenuate Lv Dilatation in Mice with Chronic Volume Overload**
Lena Cohen^{1,3}, Michal Entin-Meer^{1,3}, Ada Raphaeli², Natali Tarasenko², Einat Hertzberg-Bigelman^{1,3}, Gad Keren^{1,3}
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59. **Effects of Colchicine on Apoptotic Cell Death of Cardiomyocytes**
Gilad Margolis^{1,2}, Einat Hertzberg-Bigelman^{2,3}, Ran Levy³,
Jeremy Ben-Shoshan^{1,2,3}, Gad Keren^{1,2,3}, Michal Entin-Meer^{2,3}
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60. **Double Anti Platelet Therapy and Cytokine Status after Coronary Revascularization**
Rawan Salman, V.I. Ruzov, L.G. Komarova, E.N. Altynbayeva,
L.T. Nizamova, A Salmin
University, U'lyanovsk state, Ulyanovsk, Russia
61. **Targeting E-Selectin Impairs Cardiac Function After Myocardial Infarction**
Osnat Cohen-Rosenboim^{1,2}, David Kain^{1,2}, Uri Amit^{1,2},
Tammy Ben-Mordehai¹, Natali Landa¹, Dalia Tyomkin³, Ayelet David³,
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Rehabilitation, Epidemiology, Prevention and Risk Factors/ Pharmacotherapy

62. **Characteristics and Long-Term Prognosis of Holocaust Survivors Presenting with Acute Myocardial Infarction**
Arthur Shiyovich¹, Ygal Plakht², Katya Belinski², Harel Gilutz²
¹Internal Medicine E, Rabin Medical Center, Beilinson Hospital, Petah-Tikva, Israel
²Faculty of Health Sciences, Soroka University Medical Center and Ben-Gurion University of the Negev, Beer-Sheva, Israel
63. **What can we Learn from Comparing Genetic from Non Genetic Hyperlipidemia?**
Ronen Durst
Cardiology, Hadassah Hebrew University Medical Center, Jerusalem, Israel





- 64. Cardiovascular Disease Knowledge, Physician Communication and Health Information Sources in Ultra-orthodox Hasidic Jewish Women**
Elisheva Leiter¹, Keren Greenberg¹, Sima Wetzler¹, Milka Donchin^{1,2}, Maha Nubani, Iva Littman¹, Maha Nubani¹, Sara Siemiatycki, Chaim Lotan, Sara Siemiatycki³, Chaim Lotan¹, Osnat Keidar, Donna R. Zwas, Osnat Keidar¹, Donna R. Zwas¹
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- 65. Acute Coronary Syndromes in patients with Non Alcoholic Fatty Liver Disease**
Dan Haberman¹, Yaakov Maor², Jacon George¹
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²Kaplan Medical Center, Institute of Gastroenterology and Hepatology, Hebrew university, Jerusalem, Israel, Rehovot
- 66. Prevalence and Influence of Atrial Fibrillation on Short-term Outcomes of Nonagenarians Undergoing Surgical Intervention for Hip Fractures**
Ladimir Zeldetz¹, Yigal Plakht², Yuri Goldberg³, Boris Punchik^{4,5}, Yan Press^{4,5}, Aryeh Shalev^{6,7}
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⁶Cardiology, Soroka University Medical Center, Be'er Sheva, Israel
⁷Faculty of Health Sciences, The Joyce & Irving Goldman Medical School, Ben Gurion University of The Negev, Be'er Sheva, Israel
- 67. The Frequency of Traditional and Additional Cardiovascular Risk Factors in Hypertensive Patients with Rheumatoid Arthritis and its Interrelation with Subclinical Atherosclerosis Manifestations**
Olexandr Kuryata, Oksana Sirenko
Onnere Medicine # 2, Dnipropetrovsk Medical Academy, Ukraine



68. **Survival Rate from Out of Hospital Cardiac Arrest in Patients Admitted into Intensive Coronary Care Unit**
Dante Antonelli, Ofir Koren, Ehud Rozner, Nahum A. Freedberg, Yoav Turgeman
Cardiology, Ha Emek Medical Center, Afula, Israel
69. **Low levels of High Density Lipoprotein (HDL) and Corneal Opacity Caused by Lecithin-Cholesterol Acyltransferase (LCAT) Deficiency**
Mordechai Golomb¹, Rafael Bitzur², Eran Leitersdorf¹, Shoshi Shpitzen¹, Chaim Lotan¹, Ronen Durst¹
¹*Department of Cardiology, Hadassah Medical Center, Jerusalem, Israel*
²*The Bert W Strassburger Lipid Center, Sheba Medical Center, Ramat Gan, Israel*
70. **Do Patients Participating in Multi-Center Cardiovascular Randomized Controlled Trials Gain Additional Clinical Benefit Independent of Study Result or Trial Arm Allocation?**
Shaul Atar, Amichai Berkowitz
Cardiology, Galilee Medical Center, Nahariya, Israel
71. **Cardiovascular Knowledge Deficits in Disadvantaged Communities**
Keren Greenberg¹, Elisheva Leiter¹, Milka Donchin^{1,2}, Iva Littman¹, Maha Nubani¹, Chaim Lotan¹, Osnat Keidar¹, Donna R Zwas¹
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72. **History of Abuse in Women Referred to the Women's Heart Clinic- Not so Rare**
Irit Heruti², Yishay Manor², Ilana Gezel¹, Ran Kornowski¹, Avital Porter¹
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²*The Psychology Department and The Women's Heart Clinic, Rabin Medical Center, Petah Tiqva, Israel*
73. **Gender Effect in the Efficacy and safety of Direct Oral Anticoagulants (DOACs) - Systematic Review and Meta-Analysis of Randomized Trials**
Bruria Raccah^{1,2}, Amichai Perlman^{1,3}, Ilan Matok¹, Mordechai Muszkat⁴
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³*Department of Medicine, Hadassah University Hospital*
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Cardiac Imaging

74. **Examining Efficiency of Coronary CT Exam vs. Stress Test (GXT) in Patients with Acute Chest Pain Admitted to the Emergency Department**
Ahmad Nama¹, Aluma Weiss^{2,3}, Ayelet Shaur², Yelena Milovanov³, Dorit Shaham³, Israel Gotesman², Yaakov Asaf³, Ronen Durst²
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³*Radiology Department, Hadassah Medical Hospital, Jerusalem, Israel*
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Cardiovascular Surgery

75. **Should Bilateral Internal Thoracic Artery Grafting be Used in Patients with Left Main Disease?**
Nadav Teich, Nachum Neshet, Dmitry Pevni, Rephael Mohr, Amir Kramer, Yosef Paz, Yanai Ben-gal
Department of Cardiovascular Surgery,, Sourasky Medical Center, Tel Aviv, Israel
76. **Are Two Skeletonized Internal Thoracic Artery Grafts Better than one in Patients with Insulin Dependent Diabetes?**
Amit Gordon¹, Benjamin Medalion², Rephael Mohr¹, Nahum Neshet¹, Amir Kramer¹, Dmitry Pevni¹, Yanai Ben-Gal¹
¹*Cardio-Thoracic Surgery, Sourasky, Tel Aviv, Israel*
²*Cardio Thoracic Surgery, Beilinson, Patah Tiqwa, Israel*
77. **Should Bilateral Internal Thoracic Artery Grafting be Used After Recent Myocardial Infarction?**
Amit Gordon, Dan Loberman, Dmitry Pevni, Raphael Mohr, Yosef Paz, Zahi Aizner, Amir Kramer, Nahum Neshet, Yanai Ben-Gal
Cardiothoracic Surgery, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel
78. **Four or More Anastomoses – Total Arterial Complete Revascularization-Safe Arteries Maximization**
Yaron Ishay, Lior Raichel, Oren Lev-Ran, Menachem Matsa, Dan Avramov, Shani Kaptzon, Tomer Kotek, Mahmoud Abu salah, Gideon Sahar
The Department of Cardiothoracic Surgery, Soroka University Medical Center, Beer-Sheva, Israel
79. **Pleura Preservation During Mammary Artery Harvesting for Coronary bypass Grafting: Impact on Short-term Outcome**
Salvatore Nicolardi, Marco Pano, Giuseppe Scracia, Domenico Rocco, Paolo Fellini, Sabina Diso, Antonio Scotto di Quacquaro, Salvatore Zaccaria, Giovanni Casali
Department of Cardiac Surgery, "Vito Fazzi" Hospital, Lecce, Italy



80. **Brain Scintigraphy Demonstration of BBB Disruption After Cardiac Surgery**
Dan Avramov, Lior Raichel, Yaron Ishay, Menachem Matsa, Shani Kaptzon, Mahmoud Abu salah, Tomer Kotek, Oren Lev-Ran, Gideon Sahar
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81. **Sutureless Aortic Valve Replacement is Useful in Extreme Surgical Conditions of the Aortic Root**
Ram Sharony¹, Shuli Silberman², Yaron Almagor², Victor Rubchevsky¹, Yaron Barac¹, Yaron Shapira¹, Alex Sagie¹, Dan Aravot¹, Dan Bitran²
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Echocardiography and Valvular Disease

82. **The Efficacy of Teaching Cardiac Ultrasound by Medical Students Compared to Qualified Trainers**
Yotam Lior¹, Alon Ben-Sasson¹, Jonathan Krispel¹, Moshe Rucham¹, Noah Liel-Cohen², Sergio L. Kobal²
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83. **Bicuspid Aortic Valve Area in Normal Heart**
Moshe Katz¹, Israel Mazin¹, Ori Vaturi¹, Rafael Kuperstein¹, Roy Beigel¹, Micha Feinberg¹, Ehud Raanani², Sagit Ben Zekry¹
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²*Cardiothoracic Surgery, Sheba Medical Center, Israel*
84. **Cardiac Structure and Function and Frailty in the Oldest Old**
David Leibowitz¹, Jochanan Stessman², Jeremy Jacobs², Lande-Stessman Irit², Ein Mor Ela², Dan Gilon¹
¹*Cardiology, Hadassah-Hebrew University Medical Center*
²*Geriatrics, Hadassah-Hebrew University Medical Center*
85. **Critical Value of the Aortic Valve Area in Very Severe Aortic Stenosis**
Valery Meledin, Nick Teodorovich, Jacob George, Sara Shimoni
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