

NEWSLETTER OF THE FRIENDS



האיגוד הקרדיולוגי בישראל
ISRAEL HEART SOCIETY



OF THE ISRAEL HEART SOCIETY



Editor's Note: Welcome to the Fall 2019 FIHS Newsletter. We wish all of our readers and members a Happy and Healthy New Year!

This year we will be finishing our 10th year (yes, 1 decade!) since the new format and current editorship. Ten years does fly by in the wink of an eye! We will have some lookbacks in our next issue at key articles and memories from the past 10 years- if anyone had a special moment, please contact us and we'll be

happy to include it! Jeff Goldberger will also be finishing his 10th year of leadership, which will be reflected in his Presidential message.



The current issue will include its usual features- a message from our President, Jeff Goldberger, announcements of Cardiology Meetings, Heart Beats section, and our new Classified Section will be moved to the end of the newsletter. In addition, we include other Israeli cardiology news of interest to our members. We will have pictures from the FIHS banquet at the American College of Cardiology meeting in March, as well as

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pictures from the Israel Heart Society Conference in April.

The usual Research section will be deferred to our Winter Issue due to the large number of stories we are covering.

Please note- the description of new technology in our Newsletter does not constitute an endorsement. We just want to give our readership a sense of the vast scope of Israeli ingenuity in the fields of Cardiology.

Remember, this Newsletter and Society belong to you, the membership. We look forward to enhancing this Society and the connections that we hope to foster between Israeli and non-Israeli cardiologists and

their institutions. Please feel free to email us with questions, answers, comments, criticisms, or just to tell us to keep working harder!

Our immediate goal is to try to grow our membership and participation to include any and all cardiologists and fellows from around the world who would be interested in supporting this bridging relationship. If you know of any cardiologists or cardiology fellows who we can contact, please email me (my email is jackstroh@usa.net) and feel free to forward this Newsletter.



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Message from the President

We extend to all the Friends of the Israel Heart Society our best wishes for a happy and healthy new year!

We have just marked the 10th year of this newsletter which is made possible by the dedicated efforts of Jack Stroh. We had the pleasure of honoring him for his service at the FIHS reception at ACC in New Orleans. This newsletter has become a tremendous source of information about the IHS and FIHS and is made possible singlehandedly by Jack – THANK YOU. After 10 years, we should all contemplate our roles and involvement in the Friends of the Israel Heart Society. There are many, ranging from the social aspects to financial support to building programs that support the Israel Heart Society community. We have several members that have dedicated themselves to helping with the training mission such as Dr. Charles Antzelevitch. I would ask

each of you to consider adding one small effort to help the Friends of the Israel Heart Society help the Israel Heart Society. The collective effort of all our friends can and will have substantial impact. The most critical need is to support subspecialty fellowship education programs. If you are interested in learning more about this effort, please contact me. Another important effort is to expand our membership base. I regularly meet cardiologists who do not know about the Friends of the Israel Heart Society, but are interested in being a part of this group. Given our extremely low membership dues, there are virtually no barriers to joining. We therefore need you to reach out to your colleagues to identify these individuals and forward us the contact information for inclusion.

In the coming year, an array of top-notch conferences is being planned in Israel. I encourage you to take a look at your

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calendar and find a meeting that will provide great professional venues and the opportunity to visit Israel and its many historic sites. For those of you who have not been there for more than a year, you will be amazed by all the advances and changes. Please take a look at the list of upcoming conferences.

We would like to hear from you regarding further programs or ideas that you would like to initiate. We could use your support!

It is also a good time to check if you have renewed your membership for 2019 - we would be delighted if you would consider a sponsorship level of support. We appreciate, in particular, those of you who have joined at one of the sponsorship levels. This enables us to continue to provide the educational support for fellows for key conference attendance. All the information is available on our website. Annual membership can be paid through

the FIHS website at:

<http://www.friendsihs.org/index.html>.

Special thanks to Larry and Janice Brown for all their organizational support.

Finally, I want to thank all of our members who have donated their time and effort for the benefit of the Israel Heart Society. Please remember that our members are encouraged to send in news – personal and/or professional – to include in our **FIHS Heart Beats** section.

Thank you for your continued support!

Once again, best wishes for a happy and healthy new year,

Jeff Goldberger, M.D.
President, Friends of the Israel Heart Society



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New Project to raise funds for Israeli Cardiology Fellows overseas (reprinted from the last Newsletter)

The Friends of the Israel Heart Society (FIHS) is an association of health care professionals from around the world dedicated to support the delivery of cardiovascular healthcare, training, and research in Israel. This is our Mission.

Recently, our President Jeff Goldberger spoke with Drs. Glikson and Kornowski (the former President and current President of IHS) about how our Society could best help Israeli Cardiology. Both agreed that they really need help supporting more Israeli cardiology fellows to do their subspecialty training in the USA or Canada so they can bring back to Israel advanced expertise and capabilities. The Israel Health System currently does not have the resources to provide this advanced training at home, and these opportunities are costly to support. We estimate each fellow position would require raising \$60,000.

We learned of a currently successful program at Lankenau Institute for

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Medical Research funded by the Lankenau-Israel Strategic Alliance (LISA) under the leadership of our Board Member Dr. Charles Antzelevitch, Executive Director of Cardiovascular Research at Lankenau Institute for Medical Research. This group raised enough for more than 2 fellowships with local fundraising dinners at donor homes, physicians and civilians.

Our hope is to expand on this excellent start in Philadelphia to the rest of North America. This video was produced by the IHS explaining the need for the program. If any of our readers have any ideas on how to raise funding or would like to spearhead the continental effort, please

contact me at
jackstroh@usa.net.



<https://www.youtube.com/watch?v=l00vxjoRAaQ&feature=youtu.be>



Our Annual ACC Banquet!!

As usual, we had a wonderful time at the 2019 ACC meeting at the Cambria New Orleans Hotel. Many of our members at the FIHS annual Banquet.

Your Editor was honored to be honored by the Friends of

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IHS for 10 years of service editing this Newsletter. In addition, Ran Kornowski and Ronen Rubinshtein presented me with a gift from the Israel Heart Society.

Thank you to our President Jeff Goldberger and all the people that have helped me over the years in Israel, Chicago, and elsewhere— invaluable help from Batia Ziv of the IHS (see later in this newsletter), Karen Davidson, Morton Lebowitz from Israel, and our current (Janice and Larry Brown) and past Society administrators here in America.

I want to thank all of the Presidents and Secretaries General of the Israel Heart Society for always being available for meetings and

interviews. Their guidance and friendship has been one of the highlights of my decade of service.

Finally, I want to thank you, our readership, for continuing to grow in number and help actualize our goal— to make connections between Israeli and international cardiologists and researchers and to further the educational opportunities for Israeli cardiology fellows. This makes our hard work worth it!

May we all continue to grow together for many years to come!!

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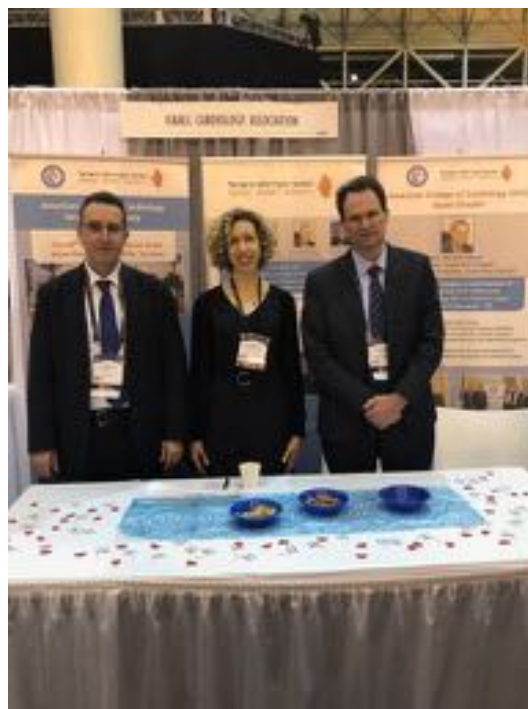
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Thanks for honoring me last night at the Friends of the Israel Heart Society (FIHS) annual banquet at American College of Cardiology in New Orleans! May our Newsletter continue to make direct connections between cardiologists in North America and Israel!

In these pictures are Robert Rubinfeld (Secretary General of the Israel Heart Society), Jeff Goldberger (President FIHS), Ron Karmali (President, Israel Heart Society), Boaz Levin (Past-President of the Israel Heart Society and Chair of the ESC Working Group for Cardiovascular Pharmacotherapy), Karen Davidson (Administrative Manager, IHS), and Doron Zinger (President-elect of the IHS).



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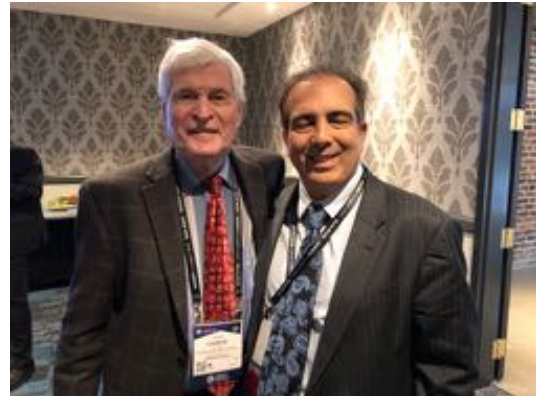
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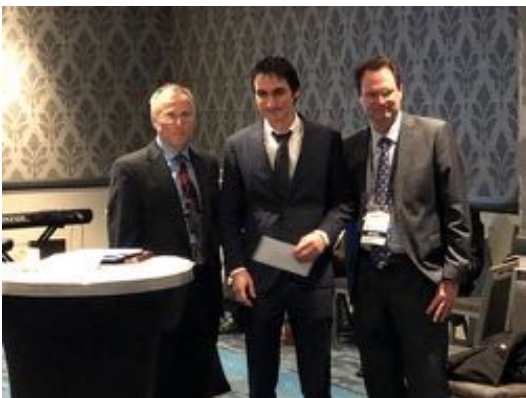


Dr. Yeela Talmor-Barkan

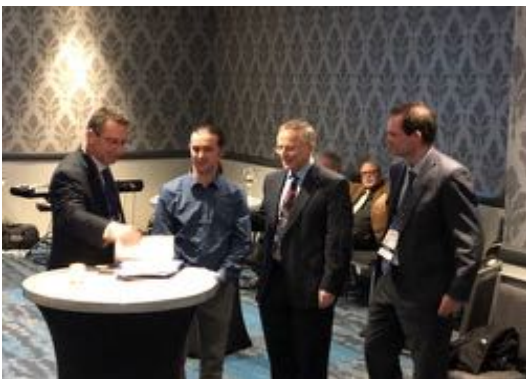
These 3 are our fellowship honorees.



Then President Kornowski receiving the Hilda and Ezra Meltzer Memorial Award check from President Goldberger, to be presented at the IHS Conference.



Dr. Zach Rozenbaum



Dr. Alexander Fardman



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Thanks to Stan Hillis and his band for once again providing his special brand of musical entertainment for the evening!

Thanks again to everyone that came out to our banquet at a busy ACC meeting! See you next year!!



Upcoming Meetings

ICI Meeting 2019: The Premier International Meeting for Innovation in Cardiovascular Systems

December 8-10, 2019

FIHS is on the web at <http://friendsihs.org/index.html>.

**David Intercontinental
Hotel, Tel Aviv**

<http://icimeeting.com/>

Faculty-

<http://icimeeting.com/meet-our-faculty/>

(See special flyer for the \$100,000 World Start-up Competition on the last page of this Newsletter!!)

ICI Meeting 2019 – the premier International Conference for Innovations in Cardiovascular Interventions (Heart, Brain and Peripheral Vessels) and High-Tech Life Science Industry, will be held in the **David InterContinental Hotel, Tel Aviv, Israel, December 8-10, 2019.**

The ICI Meeting is an acclaimed forum which aims to explore, fuel, spark and be involved in the innovations that will shape the future of our cardiovascular systems and BEYOND. Over the last 2 decades, Israel has become a medical “start-up nation”. ICI’s dynamic environment which allows rich exchanges on innovations has contributed to this process by facilitating global interaction between physicians, entrepreneurs, academia

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and industry and by building bridges leading to innovation.

The ICI meeting is preceded by the ICI Academy of Innovation Day – a full-day pre-conference educational workshop satellite, which trains participants in the entire medical innovation process, and by the Digital Health Day – a full-day pre-conference educational day, that will bring together medical professionals, international and local experts and innovative companies in the field of digital medicine.

We then continue to a 2-day conference focusing on advanced technologies to save hearts and lives. We challenge the horizons in coronary interventions, vascular interventions, transcatheter valvular therapies, stroke prevention/intervention, electrophysiology, cell therapy and heart failure. The popular “Technology Parade” offers biomedical technology start-ups from around the world the opportunity to present their latest developments. The unique “Wall-to-Wall – East Meets West” sessions concentrate on China-Israeli cooperation in the field. We look forward to having you join us for this exciting event!

Rafi Beyar and Chaim Lotan,
Meeting Directors



Rafael Beyar



Chaim Lotan

ICI MEETING 2019 TOPICS

- ACS and Antithrombotic Therapy
- Imaging, Physiology and Beyond
- Interventional Cardiology: Live from the Catheterization Laboratory

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- Stable and Unstable Coronary Syndrome
- Needs and Problems Around TAVR
- The Triangle of Innovation: Academy - Hospital - Industry
- Stents - Coating, Eluting and Beyond
- Stroke and Neurovascular Interventions
- Structural Heart Disease
- Cell Therapy and Regenerative Medicine
- Mitral Disease - A Challenge to Innovators
- TAVR - Outcomes and Related Issues
- Autonomic Modulation and Beyond
- The Pulmonary Vasculature Hypertension and Beyond
- Out of the Box Novel Interventions
- Advanced Coronary Interventions
- Brain: Interventions and Protection
- Present and Future in the Cath Lab
- My Crazy TAVR Case
- Diabetes and Hypertension in Cardiology- what do we need to know?
- Unfulfilled Needs & Therapeutic Achievements in Heart Failure
- Devices in the Management of Heart Failure
- Vascular Session I - Thoracic Aorta
- Vascular Session II - Abdominal Aorta
- Vascular Session III - Carotid & Lower Extremity Interventions
- Vascular Session IV - Venous, AV access & Others
- Updates on Mitral Interventions
- Funding and Regulation in a Changing Market
- Bioresorbable Scaffolds

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- Device Innovation
- Challenging Coronary Anatomy - CTO and Bifurcation
- The Tricuspid Valve - New Challenges
- TAVR - Current and Future
- DES, BRS & DCB - New Insights
- Developing Technologies in Heart Failure Diagnosis and Management
- Digital Health
- Electrophysiology - Imaging and Computation, Ablation, Devices

<https://2020.idss-ep.com/>

The 16th International Dead Sea Symposium IDSS on Innovations in Cardiac Arrhythmias is dedicated to emerging technologies and therapies and will comprise all phases of the innovation process.

The 16th International Dead Sea Symposium IDSS on Innovations in Cardiac Arrhythmias covers topics such as:

- Innovations in Ablation Techniques
- Innovations in Cardiac Implantable Devices
- Innovations in Non-Invasive Electrophysiology
- Innovations in Imaging and Navigation Techniques
- Wireless Device Diagnostics and Therapeutics
- Heart & Brain: Newest Approaches in Brain Protection
- Epicardial
- New Implanted Devices (leadless
- Etc)
- SubQ
- Cell-Based and Stem Cell Therapy
- Remote Monitoring of Implanted Devices
- Atrial Fibrillation



16th International Dead Sea Symposium on Innovations in Cardiac Arrhythmias

February 24-26, 2020

David Intercontinental Hotel, Tel Aviv

FIHS is on the web at <http://friendsihs.org/index.html>.

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- Sudden Cardiac Death
- Entrepreneurship in Electrophysiology Special Topics will include: Cardiac Pacing
- CHF
- Out-of-Hospital Cardiac Arrest
- ICD
- Arrhythmias in Childhood
- Genetic Aspects of Arrhythmia
- Syncope
- Arrhythmias in Athletes
- LAA Occluders
- Ablation of AF-various Techniques
- TAVI and Pacing
- Lead Extraction
- Arrhythmias in Out-patient Clinic
- Basic Aspects of Defibrillation
- Emotional & Ethical Considerations
- Management of Recalls: Legal
- Healthcare Economics of Pacing and ICD
- Pacing & ICDs Registry
- Cardiologists
- Clinical cardiologists
- Electrophysiologists
- Cardiac Surgeons
- Internists
- Sports Medicine (also Army Sports Medicine)
- Pediatric Cardiology
- Family doctors
- Sport and Exercise Cardiology
- Technicians and related occupations
- Cardiology Nurses
- Biomedical engineers
- Innovative scientists
- Entrepreneurs

Steering Committee

Eli Ovsyshcher
Michael Eldar
Michael Glikson
Roy Beinart



The 16th International Dead Sea Symposium IDSS on Innovations in Cardiac Arrhythmias brings together:

- Specialists in Cardiac Arrhythmias

**The 67th Annual
Conference of the Israel
Heart Society in
Association with the Israel**

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Society of Cardiothoracic
Surgery, under the
Auspices of the Israel
Cardiology Association

Expo Tel Aviv

May 13-14, 2020

More Info next issue!

<http://2020.israel-heart.org.il>



Israel Society of
Cardiothoracic Surgery



12th International
Conference: Acute
Cardiac Care

June 28-30, 2020

FIHS is on the web at <http://friendsihs.org/index.html>.

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<https://cardiology-2020.isas.co.il/>

Acute Cardiac Care has been undergoing a substantial transformation in recent years as the population ages and our patients become more complex and require more multidisciplinary care.

The **International Conference on Acute Cardiac Care**, held biennially in Israel, has long become one of the leading scientific events for acute cardiac care worldwide. In this meeting we cover the broad spectrum of contemporary acute cardiac care, including acute coronary syndromes, anti-thrombotic therapy, reperfusion and revascularization, acute heart failure, management of arrhythmias in the acute setting and general intensive care.

Our 12th meeting will take place in Tel Aviv on June 28-30, 2020 and will bring together health care professionals from all relevant disciplines, including cardiologists, intensivists, anesthesiologists, internists, cardiac surgeons, nurses, paramedics and other allied professionals. The meeting is held under the auspices of the Acute Cardiovascular Care Association of the ESC and the Israel Heart Society and is a major scientific event for all health care professionals working in acute cardiac care.

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Tel Aviv and Israel offer rich opportunities for tourism and entertainment with unique historic and cultural sites as well as a vibrant, sea-side experience.

On behalf of the organizing committee, we look forward to welcoming you to Tel Aviv.

Sincerely,
Joseph S. Alpert
Yonathan Hasin
Doron Zahger

Steering Committee

Joseph S. Alpert, USA, Co-Chair
Yonathan Hasin, Israel, Co-Chair
Doron Zahger, Israel, Co-Chair

Roy Beigel, Israel, Secretary General
Shlomo Matetzky, Israel, Scientific Secretary
Giora Landesberg, Israel, Anesthesiology
Ofra Raanan, Israel, Nursing Coordinator
Zaza Iakobishvili, Israel



Israel Heart Society **Conference 2019**

April saw another wonderful Annual Conference of the Israel Heart Society in Association with the Israel Society of Cardiothoracic Surgery, under the Auspices of the Israel Cardiology Association. Here are some images from the meeting:

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Incoming President of Israel Heart Society- Doron Zahger



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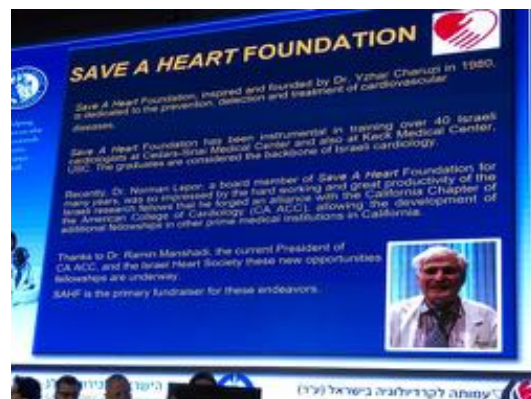
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With Karen Davidson, Administrative Manager, Israel Cardiology Association

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The Hilda, Ezra, and Richard Meltzer Memorial Award for outstanding Contribution in the field of non-invasive Cardiology and Prevention is awarded annually by through the Friends of the Israel Heart Society



The awardee was Dr. Alik Sagie of Rabin Medical Center, Petach Tikvah



The editor with Dory Altmann, New Brunswick, NJ



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Special Section Honoring Batia Ziv

When I was asked to take over as editor of this Newsletter 10 years ago, our President, Jeff Goldberger told me not to worry- if I needed any help, the Israel Heart Society had this wonderful Administrative Manager named Batia who knew everybody and would help me. I reached out to her with the first draft of the Newsletter and the rest was history! She fed me Cardiology news, arranged for meetings with the leadership of IHS, and reviewed all drafts I sent her for accuracy and comments in a positive way. She encouraged me by feeding me Halva at ACC meetings far away from home. She went from a great helper and partner to a true friend!

This past year, Batia retired from the Israel Heart Society after many years of exemplary

service. She has handed the reigns to Karen Davidson who did a great job planning and coordinating the latest Conference of the IHS.

A special presentation was made by the past Presidents and Secretaries General of the Israel Heart Society to Batia at this recent Conference, and here are a few of the pictures from that event. Batiš may you continue in good health and happiness “until 120!” Everybody needs a Batia !



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Handing off the Baton- Batya and Karen



Batya with the Editor



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<https://www.calcalistech.com/ctech/articles/0,7340,L-3767549,00.html>

Israeli Innovation

The Israeli Smartwatch That Will Warn of Cardiac Arrest Before It Occurs



Privately-held medical device company CardiacSense developed a watch that can warn of a cardiac arrest before it occurs, the company says.

Founded in 2009 and based in the coastal Israeli town of Caesarea, CardiacSense's watch-like device tracks factors like arrhythmia, heart rate, oxygen saturation, and blood pressure in users to identify early signs of stroke or cardiac arrest.

The device uses electrocardiography (ECG) monitoring and

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photoplethysmography (PPG), an optical technique that detects changes in blood volume, to track the condition of patients and send it directly to their physician in real-time.



Maor Shalom Swisa / CTech



The hologram that can change the future of medicine

By Chaya Cikk, June 3, 2019

<https://israelunwired.com/the-hologram-that-can-change-the-future-of-medicine/>

This hologram will change the lives of patients who need a medical procedure. It is amazing how this will help doctors in more ways than one. Israel is helping change the future of medicine one step at a time.

The Hologram

With Israel developing such wonderful technologies they have had many breakthroughs in the medical world. This most recent is of great significance. It will help doctors with procedures by creating a hologram image. That will allow them to see the exact problem of a patient. Therefore, allowing them to operate more precisely.

A hologram is an image that is three dimensional. The image will be created

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by data analyst and light. The image will be able to float mid-air during a real live procedure. Above all these holograms do not require special eyeglasses making it easier for doctors to use.

Other Breakthroughs

Israel with its advanced technologies has helped invent many astounding things in the medical world.

Israel created the Pillcam. This is a camera the size of a pill that a patient can swallow. Allowing doctors to help see the inside of the digestive system. Therefore, allowing them to help diagnose problems.

ReWalk: A robotic skeleton enabling those who are paraplegic to walk again.

Also featured in the hit TV show Glee.

Corneat Vision: This is a company that is developing an artificial cornea implant. Helping so many people with problems with their eyes able to see.

Brainvivo: They created technology that enhances the MRI resolution for early detection. Just think if something like cancer cells can be detected early. Imagine the lives that can be saved.

Finally, this new way of using holograms will be better for the anatomy. Therefore making it better for the patients overall. Furthermore, it will help many patients all over the globe in the near future! Thank you Israel!



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Israeli Scientists 3D- Print A Tiny, Live Heart Made With Human Tissue

NoCamels Team, April 15, 2019

<http://nocamels.com/2019/04/israeli-scientists-3d-print-a-tiny-live-heart-made-with-human-tissue/>

A 3D printed, small-scaled human heart engineered from the patient's own materials and cells. Photo via TAU



The future is here. In a world first, Israeli scientists have created a live heart in a revolutionary new 3D printing process that combines human tissue taken from a patient.

In November, Tel Aviv University researchers said they [invented the first fully personalized tissue implant](#) engineered from a patient's own biomaterials and cells, paving the way for new technology that would make it possible to develop any kind of tissue implant from one small fatty tissue biopsy.

Now, these same researchers created a real heart using their innovative process at the [Laboratory for Tissue Engineering and Regenerative Medicine](#) led by Professor Tal Dvir, an associate professor at Tel Aviv University's Department of Molecular Microbiology and Biotechnology.

"This is the first time anyone anywhere has successfully engineered and printed an entire heart complete with cells, blood vessels, ventricles and chambers," Professor Dvir said in a press briefing on Monday at the university.

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The process involved taking fatty tissue, after which the cellular and a-cellular materials were then separated. While the cells were reprogrammed to become pluripotent stem cells and efficiently differentiated to cardiac or endothelial cells, the extracellular matrix (ECM), a three-dimensional network of extracellular macromolecules, such as collagen and glycoproteins, were processed into a personalized hydrogel that served as the printing “ink,” Tel Aviv University said in a statement.

The differentiated cells were then mixed with the bio-inks and were used to 3D-print patient-specific, immune-compatible cardiac patches with blood vessels and, subsequently, an entire, tiny heart.

Cardiovascular diseases are the number one cause of death worldwide, [according to the World Health Organization](#). In 2016 alone, an estimated 17.9 million people died from heart

diseases, a majority due to heart attack and stroke.

Heart transplantation is currently the only treatment available to patients with end-stage heart failure. And with a shortage of heart donors, this scientific breakthrough development may blaze a trail in the medical world, paving the way for a potential revolution in organ and tissue transplantation.

“This heart is made from human cells and patient-specific biological materials. In our process, these materials serve as the bioinks, substances made of sugars and proteins that can be used for 3D printing of complex tissue models,” Professor Dvir said.

“People have managed to 3D-print the structure of a heart in the past, but not with cells or with blood vessels. Our results demonstrate the potential of our approach for engineering personalized tissue and organ

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replacement in the future,” he added.

Tel Aviv University explained that in the current method for tissue engineering for regenerative medicine, cells are isolated from the patient and cultured in biomaterials, synthetic or natural, derived from plants or animals, to assemble into a functional tissue. After transplantation, they may induce an immune response that can lead to rejection of the implanted tissue.

Patients who are recipients of engineered tissues or other implants often require treatment with immuno-suppressors, which can endanger the health of the patient.

With this development, “patients will no longer have to wait for transplants or take medications to prevent their rejection. Instead, the needed organs will be printed, fully personalized for every patient,”

the university said in a statement.

The process was outlined in an article titled “3D Printing of Personalized Thick and Perfusable Cardiac Patches and Hearts” [published on Monday](#) in “Advanced Science,” a peer-reviewed scientific journal.

Research for the study was conducted jointly by Professor Dvir, Dr. Assaf Shapira of TAU’s Faculty of Life Sciences, and Nadav Moor, a doctoral student in the lab.

In their study, the team worked with two models: one made from human tissue, and another made from rat tissue.

In the press briefing, Professor Dvir emphasized that the technology “won’t be available in clinics or hospitals tomorrow, we are in the very early stages of this technology.” But, he said, in about a decade, as 3D printing technology evolves,

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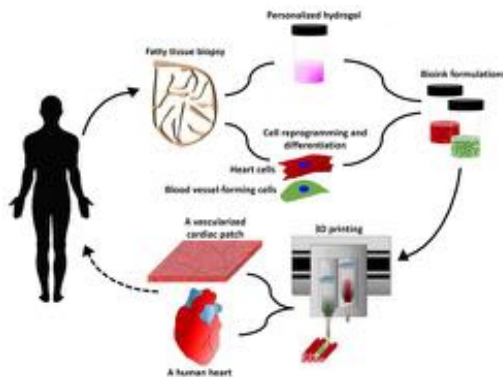


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hospitals and clinics may have these printers on site.



Professor Dvir explained that the heart, currently the size of that of a rabbit's, will need to undergo a maturing process in bioreactors – a system that supports a biologically active environment – to keep the cells alive and grow them to accommodate a life-sized heart, while “teaching” them to organize and interact with each other and achieve pumping ability.

Currently, he said, “the cells are capable of contracting separately but not pumping.”

The printing process takes between 3-4 hours, but the maturing process takes about a month, after which the scientists will begin testing on small animals such as rabbits and rats.

They hope this will happen in a year or two.

Dr. Shapira tells NoCamels that the scientists will 3D-print hearts for these respective animals from their own tissues after which they will conduct transplants and begin clinical trials.

The potential is great. According to Professor Dvir, the use of “native” patient-specific materials is crucial to successfully engineering tissues and organs.

“The biocompatibility of engineered materials is crucial to eliminating the risk of implant rejection, which jeopardizes the success of such treatments,” he said. “Ideally, the biomaterial should possess the same

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biochemical, mechanical and topographical properties of the patient's own tissues. Here, we can report a simple approach to 3D-print thick, vascularized and perfusable cardiac tissues that completely match the immunological, cellular, biochemical and anatomical properties of the patient."

But there are also significant hurdles. First is cost. Professor Dvir says the printing process for the heart cost "a few thousand shekels" in a lab environment, but should the technology be commercialized in the future, it will likely be expensive.

The scientists will have to print a human-sized heart and that could pose a challenge. "How do you print all the cells and blood vessels for a heart?" asked Professor Dvir in reference to the resolution limitations currently of 3D printers.

"We must take into consideration that 3D printing

technology is also developing," he said.

"Maybe, in 10 years, there will be organ printers in the finest hospitals around the world, and these procedures will be conducted routinely," he said.



In first, Israel doctor plugs heart bleed with device designed to clear arteries

29-year-old chronic cardiology patient walks into Sheba Medical Center with a ruptured aneurysm; standard open-heart surgery wasn't a good option

<https://www.timesofisrael.com/in-first-israeli-doctor-plugs-heart-bleed-with-innovative-procedure/>



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Prof. Victor Guetta, director of the Invasive and Interventional Cardiology Unit at Sheba Medical Center, plugged a bleeding hole in the artery of a 29-year-old patient using a device that is usually used to unblock arteries

A cardiologist at an Israeli hospital performed what the hospital is calling a “first in the world” heart procedure this week by plugging a bleeding hole in the artery of a 29-year-old patient using a device that is usually used to unblock arteries.

The procedure was performed by Prof. Victor Guetta, director of the Invasive and Interventional Cardiology Unit, and his team at the Sheba Medical Center in Ramat Gan after the patient walked into the hospital with an aneurysm in the left ventricle region of his heart that had ruptured and was bleeding into his chest cavity.

An aneurysm occurs when part of the wall of an artery weakens, allowing it to balloon out or widen abnormally. If it remains unruptured, doctors and patients need to closely monitor the condition. Some conditions may require surgery to reinforce the artery wall with a stent. However, if the aneurysm ruptures, the patient could develop sudden symptoms like pain, rapid heart rate, shock and low blood pressure. The condition is life-threatening and requires immediate attention.

The patient in question had already undergone several heart procedures for chronic cardiological problems. In the last two months he had been suffering from shortness of breath and when he got to hospital, after undergoing tests, the medical staff informed him that he had a rip

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in the heart ventricle that was leaking blood.

The standard option for treating the patient would have been open heart surgery, a procedure that is invasive, takes a number of hours and entails the risk of chest wound infections, a heart attack or stroke, blood clots, and lung and kidney failure. Recovery is slow, with patients emerging from anesthesia with two or three tubes in their chest to drain the fluids around the heart, and a hospital stay of a week to 10 days.

Guetta, however, thought there could be a better way, and the patient agreed to let him try it, though it had never been done before. The team of doctors accessed the heart using a standard catheterization procedure, inserting a straw-sized tube into a large blood vessel and making their way to

the heart. Once there, they plugged the hole using an Amplatzer Ventricular Septal Defect (VSD) occluder, which is a self-expanding, double-disc device made from wire mesh.

The device is often used in standard cardiac catheterization procedures, like angioplasty, to open blocked arteries, but had never before been used to plug an arterial hole.



Prof. Victor Guetta, director of the Invasive and Interventional Cardiology Unit at Sheba Medical Center in Ramat Gan (Courtesy)

“This unique procedure has never been done before anywhere else. I was able to

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plug the patient's hole or bleeding area using this device," said Guetta in an emailed statement. "Within two days of the procedure, the patient went home. And his prognosis is good."

Prof. Chaim Lotan, director of the Heart Institute at Hadassah Medical Center, said he "congratulates his fellow colleagues on a beautiful case." He noted that the procedure is already used to close holes in other parts of the heart — to deal with ventricular or arterial septal defects, for example — but had never been used as it was in the case of the 29-year old patient.

It was a rare case of a patient who had undergone many other heart procedures and thus treatment necessitated taking an alternative path, he said. In any other case the best treatment would have been to

fix the hole through surgery, he added. "They solved it in an elegant way."



I came across this chart showing the change in Israel over the past 30 years. I am not sure where to put this, so will place it here.

	1988	2018	Change
Population size	4.4 MN	8.95 MN	100%
Gross Domestic Product (GDP)	\$17 BN	\$381 BN	888%
US aid as a percentage of GDP	7%	1%	-86%
Gross Domestic Product per capita	\$8,000	\$40,000	413%
Government debt as percent of GDP	155%	61%	-61%
Defense expenditures as percent of GDP	17%	5%	-73%
Foreign currency reserves	\$6 BN	\$113 BN	1804%
Annual exports	\$10 BN	\$130 BN	1000%
Energy from own independent sources	4%	73%	1725%
Water from desalinated sources	3%	52%	1633%
Employment of women	36%	60%	67%
Number of students	70,000	116,000	310%
Life expectancy	75 years	82 years	9%
Tax burden	45%	30%	-33%
Number of vehicles per thousand residents	1.75	398	117%
Average rooms per capita	0.95	1.26	33%

Inflation has been another indicator of Israel's enhanced economic performance: 403% annual inflation in 1984, 16.4% in 1988 and 1.2% in 2018.



Stories of Coexistence

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We come across stories related to healthcare from time to time that show us how good the world could be if only we could get along with each other.

For this issue, we will return to the Save a Child's Heart organization. They are an Israeli-based International humanitarian charity based at Wolfson Medical Center. They provide life-saving heart treatment and follow-up care for children from developing countries regardless of their religion, gender, or nationality. SACH sends medical teams to partner sites around the world in order to diagnose, teach, and perform life-saving heart treatments. Here is one such story, the 5000th saved child for this organization:

BREAKING NEWS!!
Save a Child's Heart
5000th child saved!!

May 22, 2019

One year old Fatma from Zanzibar, whose mother was saved in Israel by Save a Child's Heart 20 years ago, underwent successful lifesaving heart surgery yesterday at Wolfson Medical Center. She is the 5,000th child treated by Save a Child's Heart.

Three months ago, former patient, Balkis arrived at the annual SACH clinic in Zanzibar with her 1 year old baby daughter Fatma, and amazingly, on arrival, Balkis was recognized as a SACH patient who received life saving heart surgery at the Wolfson Medical Center in Holon, Israel 20 years before. Fatma was subsequently examined and diagnosed with the exact defect that her mother had suffered from and was treated for and it was determined that soon, Fatma would also be flown to Israel to receive the life saving medical procedure she needed thanks to SACH Canada.

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Dr Sasson with Balkis and Fatma



Now, at only 1 year old, Fatma is a beautiful, very tiny and was a very sick baby. Fatma's first year was full of hardship and challenges; she was constantly in and out of the hospital, growing sicker by the day. Doctors diagnosed Fatma with congenital heart disease and Balkis was told that to save her daughter's she would have to once again seek treatment outside of Zanzibar. Balkis and Fatma arrived in Israel on the evening of May 16th, as part of a group of 12 children, 8 mothers and two nurses from

Zanzibar. The patients selected to come to Israel at this time, are among the 398 children screened in a joint effort by five Israeli female physicians and a local Zanzibar medical team at the Mnazi Mmoja Hospital in February 2019 which was also sponsored by Save a Child's Heart Canada.

Just like Fatma, we believe that all children suffering from heart disease, and deserve a second chance at life and are grateful to Save a Child's Heart Canada for Fatma's care and the entire world wide Save a Child's Heart family for the never-ending, lifesaving support we give today and every day.



Dr Sasson, Balkis and Dr Sion Sarid next to little Fatma after her surgery

Fatma is currently recovering and her doctors are pleased with her

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progress and recovery. She remains at the Save a Child's Heart Children's Home, together with more than 30 other children brought to Israel by SACH from Tanzania, Ethiopia, Zambia, Kenya, Uganda, Iraq, Gaza and the West Bank, who require urgent heart surgery.

In the next few weeks, Balkis will return to her home in Zanzibar, with her little baby

Fatma, who received a second chance at life and became Save a Child's Heart 5000th child.

Here is a video that explains more about this great organization:

<https://youtu.be/LXb04nDKyJc>



Finally, a Lifetime Achievement Award was presented at the 2019 Conference of the Israel

Heart Society to Professor Arie Schachner for his leadership with the Save a Child's Heart Foundation. Here is the video presentation of the Award Ceremony:

<https://www.youtube.com/watch?v=QRI9FrSLANs>



FIHS is on the web at <http://friendsihs.org/index.html>.

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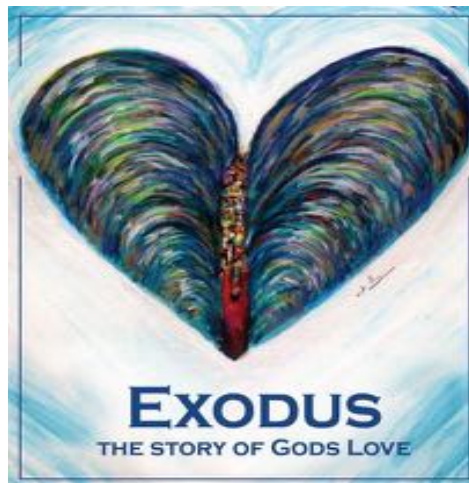
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WATCH: Arabs Saving Lives Under the Star of David

By David Lange March 20, 2019

https://www.youtube.com/watch?time_continue=97&v=MObOkPngIrl



Israel Research

Due to the size of this issue and amount of news, we will defer our Israeli Research section to the next issue.



We would also encourage Israeli programs to let our membership know about happenings and offers for training in Israel: Please

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email these to
jackstroh@usa.net.



FIHS Heart Beats



The FIHS Heart Beats section will be expanded to include individual as well as institutional achievements related to our members or Israeli hospitals.

We would like to congratulate Jeff and Sharon Goldberger whose daughter, Michal, was awarded the outstanding Soldier Award from Israeli President Reuven Rivlin May 9, 2019.



Before making Aliya and joining the IDF, Michal volunteered in Uganda and was an essential part of the Marom Kampala center. Michal made her first Marom Uganda Israel birthright trip last summer.

Mazal Tov Michal, Jeff, and Sharon on this great achievement!



First cath lab opens in
northern neighborhoods of
Jerusalem

FIHS is on the web at <http://friendsihs.org/index.html>.

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Hadassah Mount Scopus inaugurates first advanced cardiac catheterization unit serving Jerusalem's northern neighborhoods.

Arutz Sheva Staff, 02/06/19

<http://www.israelnationalnews.com/News/News.aspx/264027>



Today, Hadassah Mount Scopus inaugurated the first advanced cardiac catheterization unit serving Jerusalem's northern neighborhoods. The Cath Lab was donated by U.S. Agency for International Development (USAID), through Hadassah, the Women's Zionist Organization of America (HWZOA) and will provide life-saving services to thousands each year.

Dr. Tamar Elram, Director of Hadassah Mount Scopus welcomed the crowd gathered for the opening. "It is not every day we make history," said Dr. Elram. "It is not every day we see how our efforts will save

hundreds, or thousands, of people each year.

"For decades, USAID has generously supported Hadassah. This is not a coincidence, USAID and Hadassah share many of the same values, such as excellence in medical care, equal treatment for all, professionalism and compassion.

"The heart of Hadassah has been beating here at Mount Scopus for almost 90 years. Here we prove every day that no vessel, no path is too blocked to walk through – and if it is, there is always a collateral pathway to achieve the best level of care that we owe our patients. It is thanks to the integrity, wisdom, compassion, and technique of our staff – past and present – and thanks to the generosity you and many others show us."

Dr. Rachel Schonberger spoke on behalf of HWZOA, "We would like to thank USAID and their work as agents of the United States government," she said. "I like to call the cath lab a cath suite because it is so sophisticated. We know it will make a difference in so many lives. The Linda Joy Pollin Center outreach programs to women in the neighborhood focus on health and how to identify a heart attack. This Cath Lab Suite is the next link in the

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chain of healthcare for these populations.”

Prof. Zeev Rotstein, Director General of Hadassah Medical Organization said, “Today marks the end of the three-year process in building the cath lab. Now, Hadassah offers equal services for cardiac patients at both our campuses,” he said. “I am proud of the team at Mount Scopus. There is a unique feeling here that everyone feels like family – and the patients notice. It’s an immediate feeling of knowing you are in the right place, despite the hospital’s need to upgrade the physical infrastructure in place since 1971. Hadassah Mount Scopus is becoming a leading Israeli hospital with cutting-edge technology and we are working on improving the hospital even more. I am honored to be part of the Mount Scopus team.”

Rabbi Aryeh Lightstone, Advisor to the U.S. Ambassador to Israel said, “The relationship between USAID and Hadassah is 5 decades old.

“My grandmother in Pueblo Colorado founded a chapter of Hadassah in 1931. She is my role model because of her dedication to her country, the United States, and her Jewish heritage. She always said, ‘If no one else is leading, you must lead.’ I am sure that in 1931 she couldn’t

imagine today when her grandson would represent the greatest country and stand on holy ground to open a cutting-edge medical cath lab. It is miraculous.

“On behalf of David Friedman, the U.S. Ambassador to Israel, and President Trump, I am honored to be here today and commit to continuing to support Hadassah for the next 80, 90 years.

When we join together, we can build something greater than any individual one of us could alone.

Hadassah hospital does not discriminate. Every person who walks through these doors is treated with respect and dignity. Every person treated here walks out not only more healthy, but also a better person.

I am honored to be here with my colleagues from USAID to partner with Hadassah: in the past, now, and in the future.

The ceremony ended with Leah Migdal, physiotherapist at Hadassah Mount Scopus, performing Halleluiah in three languages, English, Hebrew, and Arabic, to enthusiastic applause. Guests then were invited to tour the cath lab.

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Before unveiling the USAID plaque and cutting the ribbon to the cath lab, Karla Fossand, Office Director, Invention in the Next Generation USAID, said, "Ours is the easy part. It's you who put the needs of others in front of your own and your families. It's you we want to thank."

Rabbi Aryeh Lightstone affixed the mezuzah with the traditional blessing.

Despite its official opening only today, Dr. Aharon Alcalai, Head of Cardiology at Hadassah Mount Scopus, told of a patient passing by Mount Scopus in an ambulance when the paramedics realized he needed urgent care. Dr. Alcalai turned on the lights of the cath lab to save this patient's life.

Esther Tafara serves as chief technological engineer of the new cath lab. She arrived on her own from Ethiopia at age 9 since her parents and siblings were not allowed to leave. From the airport, a cab took her in search of distant family in Jerusalem – who did not expect her arrival. From those shaky beginnings, Tafara went on to pursue medical engineering and worked in Hadassah Ein Kerem's pulmonary department for years – until she was offered the opportunity

to run the new cath lab in Mount Scopus.

The futuristic Cath Lab is powered by the Philips Azorion 7, the most advanced medical equipment of its kind in the world. The Azorion 7 works quickly to provide precise imaging with lower levels of radiation.

FIRST CATH LAB OPENS IN NORTHERN JERUSALEM

The futuristic cath lab will open at Hadassah-University Medical Center on Jerusalem's Mount Scopus at the end of May.

<https://www.jpost.com/Israel-News/First-cath-lab-opens-in-northern-Jerusalem-590937>



FIHS is on the web at <http://friendsihs.org/index.html>.

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THE NEW cardiac catheterization lab at Hadassah-University Medical Center on Jerusalem's Mount Scopus.. (photo credit: HADASSAH SPOKESPERSON)

The futuristic cath lab will open at Hadassah-University Medical Center on Jerusalem's Mount Scopus at the end of May.

The lab features the world's most advanced technological systems and will be operated by specialists in cardiac catheterization. Special emphasis will be placed on populations that are known to be high-risk.

Research at Hadassah shows that Israeli women, particularly in traditional families, quickly call an ambulance for their loved ones and neighbors, but are reluctant to call an ambulance for themselves, even when suffering a potentially fatal heart attack. The Israel Heart Society reports that women come to

the emergency room an average 59 minutes later than men, decreasing their chance of survival and increasing the chance of significant heart damage.

"We expect the opening of the most advanced cath lab in the world close to their homes will improve arrival time and results," said Prof. Chaim Lotan, head of the Heart Institute at Hadassah. "For all patients, time means muscle, but women statistically come later and with more serious conditions."

Although the cath lab is open to all, it is geared specifically to residents of northern Jerusalem neighborhoods including Ramot, Bar-Ilan Romema, Har Shlomo, Pisgat Ze'ev, Ma'aleh Adumim, the Old City, Mount Scopus, Eizariya and Shuafat, as well as nearby

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communities in the Binyamin region. Treatment for heart attacks, arrhythmias, transmission disorders and resuscitation are now possible within a short distance of their homes in the northern part of the city.

The unit has the highest standard in technological equipment manufactured by Philips Healthcare International, and is provided by the generosity of USAID-ASHA, through Hadassah, the Women's Zionist Organization of America.



World's Top Cardiologists Confer at Sheba Medical Center in Israel

By Ken Stephens | April 04, 2019

<https://www.jewishlinknj.com/monthly-sections/health-link-new/30600-world-s-top-cardiologists-confer-at-sheba-medical-center-in-israel>



Cardiologists from Sheba Medical Center and the Mayo Clinic work together to save a patient's life

Timing is everything! So when a group of the world's top cardiologists from [Sheba Medical Center](#) in Israel and the Mayo Clinic from Rochester, Minnesota, gathered in Ramat Gan last week for the fifth Mayo-Sheba Cardiovascular & Cardio-Renal Symposium, the global buzz generated from Newsweek magazine tabbing both Mayo (number 1) and Sheba (number 10), as two of the top 10 hospitals in the world, just a

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few days prior to the event, had a definitive impact on the proceedings. Over 200 top cardiologists and nephrology experts from Israel and around the world participated in the two-day parley.

“None of us are surprised that the Mayo Clinic was chosen to be number one because we in the medical profession know that Mayo is a mecca of clinical research and top patient care, so for Sheba to be also on this list for the first time in its history alongside the Mayo Clinic is thrilling and a testament to the hard work of our people,” said Professor Arnon Afek, associate director general and acting director of Sheba General Hospital.

What we share in common is the spirit of innovation and never resting on our laurels.”

Dr. Paul Friedman, professor of medicine and chair of the department of cardiovascular medicine at the Mayo Clinic added, “The relationship between the Mayo Clinic and Sheba is built on common

values and a special personal bond between the doctors that has grown over the years. We benefit from each other’s knowledge and that means that at end the day the patients benefit as well.”

During the two-day symposium, which focused on adult congenital heart disease, women in cardiology and updates in nephrology, cardiologists from the Mayo Clinic and Sheba not only tackled hot button medical issues in Sourasky Hall, several of them turned words into action by donning surgical uniforms and participating in a complicated procedure on a patient at Sheba. This joint surgical task force has played a vital role in assisting cardiologists from Sheba to upgrade their capabilities. “The Mayo Clinic has had an incredible impact on Israeli cardiology based on their dedication and professionalism,” claimed Professor Amit Segev, director of the Olga and Lev Leviev Heart Center at Sheba.

FIHS is on the web at <http://trienasins.org/index.html>.

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At the other end of the spectrum, Sheba's cardiologists have assisted the Mayo Clinic's doctors using innovative, cutting-edge heart disease detection concepts. At this moment, Sheba cardiologist, Dr. Elad Maor along with his colleagues from the Mayo Clinic are working with a Boston-based start-up, Beyond Verbal, to explore using voice and vocal biomarkers to determine if a person is suffering or will suffer from coronary artery disease.

Founded in 2012 by Israeli medical professionals, Beyond Verbal has been developing voice-enabled artificial intelligence (AI), solutions to create proprietary vocal biomarkers for personalized healthcare screening and continuous remote monitoring of health and emotions. Sheba is a global leader in employing cutting-edge start-up technologies, including AI healthcare solutions to create a revolution in personalized healthcare and telemedicine. The initial research paper on "Voice Signal Characteristics

Associated with Coronary Artery Disease," which was authored by Dr. Maor, Professor Amir Lerman (Mayo) and other doctors from Sheba and the Mayo Clinic, was published in the Mayo Clinic's prestigious Proceedings medical journal.

Other cardiologists from Sheba and the Mayo Clinic, such as Professor Ehud Raanani and Professor Rick Nishimura have created their own start-up entities that are addressing several heart issues in patients. "We are excited to be part of this collaboration with the Mayo Clinic within the realm of research and clinical activities. The rankings in Newsweek enforce the fact that we are the right role models when it comes to collaboration," said Professor Raanani.

Professor Amir Lerman, who serves as an associate chair of the department of cardiovascular medicine and the director of the cardiovascular research center at the Mayo Clinic, as well as

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the medical director of the Mayo-Israeli startup company initiative, beamed as he saw his Israeli and American colleagues engaging in medical jargon and light banter. "I am proud of the collaboration between Sheba and Mayo, which actually started 20 years ago based on science and friendship. We continue to look forward to enhancing the collaboration between us," said Professor Lerman.



Purim miracle: Heart transplant saves 13-year-old's life

Young boy receives life-saving new heart at Schneider Children's hospital on Shushan Purim.

<http://www.israelnationalnews.com/News/News.aspx/260804>



On Friday, Shushan Purim, Shalom Dov Ber Yona, a 13-year-old from Arad, underwent a heart transplant surgery at the Schneider Children's Medical Center of Clalit.

The surgery was performed by Prof. Dan Aravot, director of the breast and cardiac surgery department at Beilinson and Schneider, Dr. George Frenkel, director of the cardiac surgery unit at Schneider Children's Hospital, and Dr. Yaakov Katz, director of the anesthesiology department and the operating room at Schneider Children's Hospital.

The boy is recovering from the operation at the Schneider Children's Intensive Care Unit, headed by Prof. Ovadi Dagan.

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He is in stable condition. The follow-up treatments are being performed by Dr. Nili Zucker, a senior physician at the Heart Institute at Schneider Children's Hospital, headed by Dr. Einat Birk.

The boy had suffered from a heart muscle disease. Several years ago he received a pacemaker and was transferred from Soroka hospital to Schneider. A few weeks ago his condition began to deteriorate and he required an urgent heart transplant to save his life.

Heart transplants for children are rare. In 2018, one heart transplant was performed at the Schneider Children's Medical Center. It is especially rare to wait such a short time to receive a heart transplant.

According to his mother, Keren Yona, "I thank the donor's family with all my heart, for giving my son Dov the opportunity to continue living a normal life. It is not easy for

them. We share their sorrow, our hearts with them. Later, I would very much like to meet with them."

In addition, a 5-year-old girl from Ofri, who suffered from renal failure, received a kidney transplant and was treated in the dialysis unit at Schneider Children's. The girl is recovering in the intensive care unit at Schneider Children's, headed by Dr. Elhanan Nahum.

According to her mother, Odelia: "On Thursday evening we received a phone call informing us that a kidney was found for Ofri, after waiting more than a year. Our hearts are with them. It is an act that is not obvious to make. A huge thank you to the family, we share their deep sorrow."

The Schneider Children's Medical Center is the hospital that performs the vast majority of pediatric organ transplants in Israel. Since its establishment, more than 600 heart, lung, liver and kidney transplants have

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been performed in infants, children and youth, with success rates similar to those of the best medical centers in the world.



Are you a member of FIHS and have major news you would like to share with our readers? Have you published a book or been honored by your Society? Share it with us all! Please email these to me at jackstroh@usa.net.



That's it for this issue of the newsletter of the Friends of Israel Heart Society. Special thanks as always to **Karen Davidson** for being our "eyes and ears on the ground" in Israel. Special thanks in America to our Society Administrators- **Janice and Larry Brown!**

FIHS is on the web at <http://friendsihs.org/index.html>.

Have any ideas to make this a better tool for our Society? Share them with us!

Tell your friends that we want them to join our mission to be a bridge between Israeli Cardiology and the world. If you have any questions, comment, criticisms (my favorites!) please email me at jackstroh@usa.net.



Classified Section

In this issue we debut our new Classified Section. This is open to any Program Directors, either in the USA,

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Canada, or Israel who have any position available for a cardiologist. We offer this as a service to our members and affiliated physicians worldwide, with this furthering our goal to be a bridge to connecting cardiologists. Send all requests to the editor at jackstroh@usa.net.



Openings at Shaare Zedek Integrated Heart Center, Jerusalem.

The newly established Shaare Zedek Integrated Heart Center in Jerusalem is looking for a

-cardiologist with experience in cardiac rehabilitation and preventive cardiology to join

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its Cardiac Rehabilitation Institute. Preference given to candidates with academic experience and interest. This position has a potential for promotion opportunities in the near future.

-Echocardiographic specialist with experience in TEE, stress echo, and 3-D echo. Experience with structural heart disease interventions is an advantage.

For either position, there is a clear prospect for promotion.

If you are interested or you know someone who is, please contact our friend and past President of the Israel Heart Society, Professor Michael Glikson, MD:

Prof Michael Glikson, MD
Director of the Jesselson
Integrated Heart Center
Shaare Zedek Medical Center
Jerusalem, Israel

Tel: +972-2-655-5974 or 5

Fax: + 972-2-655-5437

mglikson@szmc.org.il

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**SOROKA
MEDICAL CENTER**

**Opening at Soroka
University Medical Center,
Beer Sheva, Israel**

The Soroka University Medical Center of Ben Gurion University of the Negev, in Beer Sheva is looking for an

-Expert in echocardiography and TEE for this very busy major tertiary care center. Structural knowledge is very welcome but not a must.

-Director of the Coronary care Unit. Applicants should have experience in acute cardiac care and hold an academic position.

If you are interested or know someone who is, please have them contact our friend and President of the Israel Heart Society, Professor Doron Zahger MD:

**Doron Zahger, MD, FESC, FAHA
Director, Department of
Cardiology
Soroka University Medical
Center**

**President, Israel Heart Society
Kunin - Lunenfeld Professor of
Cardiology**

**Vice Dean for Academic
Promotions, Faculty of Health
Sciences, Ben Gurion
University of the Negev
P. O. Box 151
Beer Sheva 84101
Israel**

Tel.: +972-8-640-3468

Fax: +972-8-628-2112

dzahger@bgu.ac.il



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Openings at Laniado Hospital, Netanya, Israel

The Heart Institute at Laniado Hospital is looking to hire multiple clinical cardiologists. With over 2500 cardiac hospitalizations, 4700 echocardiograms, 895 cardiac catheterizations, and a new electrophysiology program, we are the 4th largest Heart Institute in Israel. For further information contact:

**Ron Joseph Leor-Librach, MD,
PhD**
Director, Heart Institute
Heart01@laniado.org.il
Mobile #- +972-52-847-4154

<https://www.ima.org.il/MainSite/Departments/ProfileDepartment.aspx?dcode=0160410200103>



MEIR MEDICAL CENTER

Affiliated with the Sackler Faculty of Medicine,
Tel Aviv University

Opening at Meir Medical Center, Kfar Saba

Looking for a senior cardiologist with many years of experience to work in our Heart Failure Unit.

**Contact Professor Abid Assali,
Director Heart Institute,
Meir Medical Center, Kfar Saba**

Aassali@clalit.org.il

Office- 09-747-2587

Mobile- 052-421-7100



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Bnai Zion Medical Center

idit.mery@b-zion.org.il

Mobile- 050-733-4460



Opening at Bnai Zion Medical Center, Haifa

Looking for a director of the
new Coronary Care Unit.

Requirements:

- Full-time job
- Teaching residents within
the Unit
- Candidate must be at least
5 years after fellowship,
preferably with Cardiac ICU
experience

Contact Dr. Idit Dobrecky Mery,
Director Division of Cardiology,

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Where & When

Tel Aviv, Israel | December 8-10, 2019

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