

Rambam

ISSUE NO.29 | JUNE 2022

on call

Saying Goodbye
To A Dear Friend

**EITAN
WERTHEIMER**

1951-2022



WELCOME TO THE M.A.T.R.i.C.

Translating research into clinical applications

► **RAMBAM
REACHES OUT
TO UKRAINE**

► **A GLIMPSE OF
THE FUTURE**

Bringing Pediatric
Rehabilitation to
Rambam

► **ISRAEL'S
HEALTHCARE
REVOLUTION**

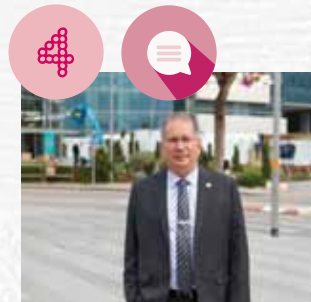
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to Harness AI



RAMBAM
Health Care Campus

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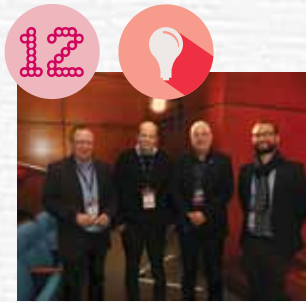
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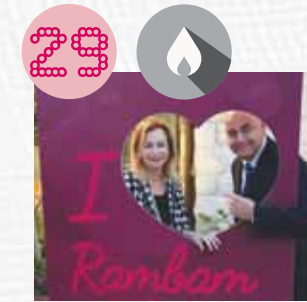
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Health Care Campus

Director General:
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MINISTRY OF HEALTH

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**RAMBAM PAYS TRIBUTE TO
EITAN WERTHEIMER**

FROM THE DIRECTOR PROFESSOR MICHAEL HALBERTHAL

DEAR FRIENDS,

It is my pleasure to introduce the latest *Rambam on Call*, where we pay tribute to Eitan Wertheimer – a humble, modest man and a dear, true friend, who passed away in April. Eitan's involvement with Rambam spanned more than two decades. One of the founding fathers of Rambam's present-day campus, Eitan's tremendous vision, activity, and contributions can be found throughout the hospital. His passing is a profound loss for Rambam and for Israel.

As you know, we are always innovating at Rambam. In the following pages, we invite you to learn about innovative initiatives across the campus – Biodesign, Rambam MedTech, and the Applied Medical Technology Research Center. Our Global Medicine section focuses on activities supporting Ukraine, including that Rambam was partially responsible for Israel's official field hospital in Lviv under the leadership of Rambam Deputy Director Dr. Michal Mekel.

There are so many activities happening here, and we are always moving forward. In May, we opened three floors of Eyal Ofer Heart Hospital, and we are working to obtain the necessary resources for opening the remaining floors. Plans are complete for finishing the final one-and-a-half floors in

Joseph Fishman Oncology Center, which will include the Cathy and Danny Rosenkranz Oncology ER and the complementary medicine area. We are also acquiring permits to build a new pediatric rehabilitation center in the Ruth Rappaport Children's Hospital – you can read more about this paradigm-shifting initiative in the magazine.

This summer, Rambam will open the newly renovated Herta and Paul Amir Department of Internal Medicine A. This department has been temporarily housed in the basement of Sammy Ofer Tower, and we are all very eager to transfer it back to its original home. The refurbished department is part of a larger project involving renovation of the Herta & Paul Amir Internal Medicine Building, and all of this work is being carried out following a significant donation from the Herta and Paul Amir Foundation.

In addition, we have also published tenders for the construction of two new operating rooms. In terms of equipment, one new MRI is already in use, and a second new MRI will start working soon.

I have always been a strong proponent of the connection between medicine and academia, and I am pleased to say that we are strengthening our connection with the Technion even further. We recently established the Technion-Rambam Center for Artificial Intelligence in Healthcare, which we've written about in this ROC, and are in the advanced planning stages for the Wolfe Center for Engineering and Translational Medicine – a Wolfe-Technion-Rambam Alliance. This center will be located in Helmsley Health Discovery Tower, which will also house the Leir Foundation Clinical Research Institute at Rambam and the new Uzia Galil Innovation Center.

We are also proud of our connections to our friends here in Northern Israel like the Tannous and Dabach families, for whom we held recognition ceremonies to honor their exceptional generosity. Diversity and coexistence are woven into our DNA, and in these troubling times, when growing numbers of soldiers and citizens are being wounded and murdered by terrorists, Rambam and its extended family serve as an island of sanity and friendship – Muslims, Druze, Jews, Christians, Bahá'ís, and others coming together as colleagues, partners, and friends. Together, we are saving lives, finding solutions, and supporting one another, like the staff in the Green-Wagner Department of Emergency Medicine that rallied around the family of one of its nurses who had died of a heart attack because there was no defibrillator in his village. His colleagues collected money and purchased a defibrillator for his family and the village – I was so moved by their actions!

As I think about everything taking place at Rambam, it is incredible to realize that we have been facing COVID-19 for more than two years! Standing at the forefront of the pandemic, Rambam's leadership and medical teams have gained extensive knowledge and experience, though each wave has presented new challenges.

As opposed to previous waves when Rambam employees entered isolation as a precaution following exposure, the most recent wave was characterized by the high numbers of staff members quarantined because they had been infected – including me. At the peak, nearly 500 Rambam employees had COVID-19 simultaneously. Fortunately, the numbers have dropped considerably, but we still have hospitalized coronavirus patients and continue to maintain a dedicated COVID-19 department.

However, we have found our way to a new normal. As I write these words, my anticipation for the 2022 Rambam Summit is growing. Gathering together for the first time since 2019 shows how far we have come since the early, dark days of the pandemic, and I cannot wait to see you, so that we can celebrate our friendship together.

Best regards,



Michael Halberthal, MD
Clinical Associate Professor
General Director, Rambam Health Care Campus



▲ First Biodesign Israel course participants

BIODESIGN ISRAEL SUCCESSFULLY COMPLETES ITS FIRST YEAR



Biodesign Israel—a unique medical entrepreneurship and innovation training program—marked the successful end of its first course, celebrating the fact that in less than a year, participants have already begun the process of registering patents for solutions to previously unmet medical challenges. This unique initiative, which launched in October 2020, was inspired by the Stanford Biodesign program.

Dr. Yona Vaisbuch
▶



The collaboration is based on the groundbreaking methodology of Stanford Biodesign and on the distinctive ecosystem built around Rambam, which includes some of the world's most advanced capabilities in healthcare, biomedical engineering, digital health, research, and innovation. Biodesign Israel was established with The Technion Israel Institute of Technology, all engineering faculties including medicine, and led by the bioengineering faculty and the former dean, Professor Shulamit Levenberg.

Notes Rambam's Director General Professor Michael Halberthal, "In a regular start-up, the team comes up with an idea and develops a technology or medical device around it. Biodesign utilizes the opposite methodology. First you assess patient needs, and only then begin the development process. We have 6,000 devoted staff members who offer care and support, and they have the ability to identify unmet needs. Biodesign provides the tools and methodology to make it happen."

The program's participants were divided into eight six-person multidisciplinary teams. Each team was comprised of two clinicians, two engineers, and two MBAs, and was assigned a clinical need area by Dr. Yona Vaisbuch, the Director of Biodesign Israel and a senior physician in the Department of Otolaryngology-Head & Neck Surgery, who studied at Stanford and completed the graduate-level Stanford Biodesign Innovation course during his time at the university. "The method is designed to encourage solution-oriented creative thinking and to develop medical ventures that will affect the lives of millions of people around the world," explains Dr. Vaisbuch.

One team came up with solutions that address medical challenges for conditions such as nocturnal hypoglycemia, where participants designed a bracelet hooked up to AI systems that can provide preventive treatment without the need for patient intervention. Another team found a solution that enables more accurate prenatal monitoring to alleviate the need for unnecessary cesarean sections.

A third team developed an innovative model designed to reduce the rate of children and toddlers undergoing general anesthesia prior to MRI scans, and a fourth team worked on a solution to reduce the rate of rejection of dental implants. "We are very excited that within a few months, we are already in the process of registering a patent that will prevent the rejection of dental implants," shares program participant Avital Epstein, a graduate student in biomedical engineering at the Technion.

Yossi Friedman, a former senior executive from Apple who set up and managed the company's research and development center and serves as a team mentor, shares, "I was amazed at the quality of human capital, from the way the problems were identified and analyzed, to the diversity in skills and experience leading to medical ventures that will affect the lives of millions of people around the world. I believe that the Israeli ecosystem, together with the Biodesign method, is a recipe for success".



▲ (L-R) Prof. Lior Gepstein, Director, Department of Cardiology, and Director, Division of Research; Dr. Yona Vaisbuch; Prof. Rafi Beyar, President, International Friend Associations, at the Biodesign Israel ceremony. Prof. Beyar was involved in the establishment of Biodesign Israel.



WELCOME TO THE M.A.T.R.I.C.

Passionate about translating research into clinical applications for practical use, Dr. Arbel Artzy-Schnirman started working at Rambam in 2021 in order to establish and serve as Director of the hospital's Applied Medical Technology Research Center (MATRIC). This center is part of the Division of Research, which is under the direction of Professor Lior Gepstein. "This groundbreaking center operates as a 'focal knowledge hub' in the specialty of regenerative medicine from the cellular level to the tissue level and focuses on the

development of clinically relevant human tissues for transplantation, drug screening, and precision medicine," says Professor Gepstein.

Led by Dr. Artzy-Schnirman, the MATRIC's professional team collaborates with researchers within Rambam, as well as from academic institutions like the Technion – Israel Institute of Technology, Hebrew University, Bar-Ilan University, and the Israel Institute for Biological Research and medtech industry leaders. Working together, they answer clinically unmet needs in

▲ (L-R) Professor Lior Gepstein and Dr. Arbel Artzy-Schnirman

departments across the Rambam campus, and leverage advanced technologies in the fields of stem cells, tissue engineering, 3D bioprinting, and organ-on-chip devices.

AT THE CELLULAR LEVEL

Pioneering Rambam researchers are among the first to create and research human pluripotent stem cells (embryonic and induced pluripotent stem cells) and develop differentiation protocols for a variety of cell types. In collaboration with Rambam's Biobank, the MATRIC uses the following cell sources for tissue formation:

- iPSCs from patients with hereditary diseases
- iPSCs with a heterogeneous genetic background
- Adult stem cells
- Cancer cells
- Primary cells from biopsies



BIOPRINTING THE FUTURE OF MEDICINE

Given the close cooperation between the hospital's research entities and the strong spirit of collaboration, the MATRIC team is able to utilize the discoveries found in the field of advanced tissue formation alongside advanced in vitro modeling technologies like bioprinting and organ-on-chips to conduct advanced clinical research.

Notes Dr. Artzy-Schnirman, "3D bioprinting is an innovative technology currently being used in many research fields, including engineering, manufacturing, and medicine, and recent technological advances have enabled 3D printing of biocompatible materials, cells, and supporting components for

use as complex 3D functional living tissues. The versatile technology incorporated into the 3D bioprinting process allows us to address the need for tissues suitable for transplantation, such as multi-layered skin, bone, vascular grafts, heart tissue, and cartilaginous structures." She explains that other applications include developing bio-printed tissue models for research, drug discovery, and toxicology.

MODEL BEHAVIOR

Organs-on-chips are engineered physiological organ biomimetic systems, simulating the organ's microenvironment in terms of tissue interfaces and mechanical stimulation, thus reflecting the structural and functional characteristics of human tissues. These models can help predict the response to various stimuli, including drug responses, environmental effects and molecular techniques such

as CRISPR genetic editing and mRNA/siRNA-based treatments. "A uniquely intriguing aspect of organs-on-chips that is of particular interest to researchers at MATRIC is that they are a patient-specific tool and can be used for precision treatments," states Dr. Artzy-Schnirman.

MATRIC offers services in the fields mentioned above, from iPSC manufacturing to establishing an organ-on-chip platform. The center's researchers are involved in all aspects of the research process, and their responsibilities include everything from designing experiments, to operating instruments, to data analysis and interpretation. "By harnessing biomimetics and bioengineering for practical use, we are closing the loop of bench to bedside and back to the bench. In doing so, our goal is to learn from Rambam's patients in order to refine novel therapeutic approaches."





A GLIMPSE OF THE FUTURE

BRINGING PEDIATRIC REHABILITATION TO RAMBAM

When it comes to treating the children of Northern Israel, the staff at Ruth Rappaport Children's Hospital is unparalleled in its commitment. What happens, however, when these youngsters are well enough to leave the hospital, yet still require rehabilitation to complete the healing process and return to their normal routines?

Currently, there is no dedicated pediatric rehabilitation center for children in the north, and these patients must travel to

facilities in Central Israel – a time-consuming challenge that often proves too difficult as a long-term solution. However, Rambam is working to change this reality.

AN UNMET NEED

Each year, approximately 70 patients are hospitalized in Rambam's Wagner-Green Pediatric Intensive Care Unit, the majority of whom suffer from brain and/or spinal cord injuries due to cancer, vascular anomalies, stroke, or trauma. They all need to undergo rehabilitation and the lack of a local facility is problematic. Many times, they are put on a waiting list for weeks before they can start the rehabilitation process, which should ideally be undertaken immediately.

For young patients with their entire lives ahead of them, the

consequences of failing to obtain these necessary rehabilitation services can be devastating and permanent. "These children require specialized rehabilitation services to maximize their outcomes as they recover from illness or injury," says Dr. Daniella Magen, Director of the Pediatric Division in the Children's Hospital. "Pediatric rehabilitation following a serious illness or injury enables children to reach and maintain their optimal physical, psychological, and social functional levels," she adds.

STAYING CLOSE TO HOME

In order to meet this critical, growing need, Rambam is laying the groundwork to establish a comprehensive pediatric rehabilitation center in Ruth Rappaport Children's Hospital – a familiar place where these patients can feel safe and secure with their loved ones and friends close by. Once complete, the new center will provide innovative, multidisciplinary, and family-centered rehabilitative care. "We plan to accomplish this by

bringing together diverse resources, dedicated specialists, and state-of-the-art technology," explains Dr. Vardit Gepstein, an attending physician in the Department of Pediatrics B and in the Pediatric Endocrinology Unit at the Children's Hospital who was selected by Rambam's Senior Management to serve as the Project Manager for the pediatric rehabilitation center.

To achieve this goal, Rambam is drawing on experts from across the campus who specialize in rehabilitative treatment. The diverse array of specialists includes neurologists and neurosurgeons; psychiatrists and psychologists; orthopedic surgeons; ear, nose, and throat physicians; gastroenterologists;



LOOKING FORWARD

The new center will be located on the top floor of the Children's Hospital. It will be designed to accommodate current needs, but with an eye toward the future. It is anticipated that there will be approximately 120 patients annually requiring at least 3 months of treatment. The center will treat patients from all the hospitals in the North.

The center's staff will receive training on an ongoing basis at leading international rehabilitation centers. In keeping with Rambam's strong tradition of research and innovation, the team will also engage in high-level scientific research, collaborating with pediatric hospitals worldwide to ensure that patients receive the most advanced treatment options.

Notes Dr. Gepstein, "Ruth Rappaport Children's Hospital is at the forefront of pediatric healthcare in Israel, and incorporating this rehabilitation center ensures that children living in the north will finally be able to have all of their treatment needs met in one facility, close to home. It's a game changer."

▲ Dr. Vardit Gepstein

pulmonary specialists; ophthalmologists and orthoptists; nurse specialists; physical, occupational, and speech therapists; and social workers, dietitians, and holistic-integrative care specialists; as well as art, drama, and music therapists. These well-trained health professionals will work collaboratively to improve each child's ability to perform daily activities, to integrate into their schools and communities, and to become productive members of society.

◀ Dr. Daniella Magen





ISRAEL'S HEALTHCARE REVOLUTION: WORKING TOGETHER TO HARNESS AI

Rambam and the Technion have established the Technion-Rambam Center for Artificial Intelligence in Healthcare (CAIH), signaling a revolution in medical decision-making. The CAIH will develop advanced artificial intelligence systems to analyze patient conditions, focusing on developing tools to help physicians select, in real time, the most appropriate medical treatment. These tools will be based on a complex, rapid analysis of all relevant medical

information that has accumulated in big medical databases over the years.

The center's opening conference was attended by approximately 250 people. It featured leading researchers from Rambam, the Technion, the Massachusetts Institute of Technology (MIT), Israel's Ministry of Health, and other industry players. Opening remarks were delivered by Rambam General Director Professor Michael Halberthal and Technion President Professor Uri Sivan. Topics included current trends in

machine learning in healthcare, access to medical databases in Israel, and prospective evaluation of machine learning models in the clinical environment.

One of the most prominent speakers was conference co-organizer Professor Leo Anthony Celi, a senior researcher and Director of the MIT Laboratory of Computational Physiology. Professor Celi is a founder of the MIMIC database, which serves more than 2,000 researchers in approximately 30 countries, creating a global community of medical data science researchers. He explains that his primary motivation for coming to Israel was to convince the decision-makers that the way to leverage knowledge encrypted in health data collected in electronic health records was to make that data set available to as many researchers in Israel as possible. "As most Israeli health data is digital, there is an opportunity to learn about what the best tests and treatments are that would work for their patients," notes Professor Celi.

Professor Rafi Beyar, Rambam's former General Director and one of its early visionaries in establishing data science facilities, also addressed the conference. Professor Ran Balicer, Chief Innovation Officer at Clalit Health

Services, founding director of the Clalit Research Institute, a member of the Management Team for Epidemics at the Ministry of Health, and Head of the National COVID-19 Experts Advisory Team, spoke as well.

ABOUT THE CAIH

The CAIH is the brainchild of and jointly funded by both institutions, and will operate in Rambam's Meyer Building before moving into Helmsley Health Discovery Tower. It will serve as a collaborative platform, connecting Rambam doctors and researchers with Technion scientists and engineers to promote diagnosis and medical treatment through artificial intelligence. Explains the Technion's Dr. Joachim Behar, "the CAIH's aim is to create the leading Israeli academic center for medical AI committed to advanced medical and clinical research, resulting in significant and actionable benefit to patient care."

Initially, the center will run several projects in cardiology, intensive care, and bone marrow transplants. In the second phase, it will initiate and support new Rambam-Technion research projects.

▲ (L-R) Professor Lior Gepstein; Dr. Orna Berry, Director of Technology at the Google CTO's Office; Professor Rafi Beyar; Dr. Joachim Behar; Professor Leo Anthony Celi; Dr. Ronit Almog, Rambam Health Care Campus; Professor Ran Balicer; Mr. Yoel Ben-Or, Head of Policy, Digital Health, Ministry of Health; Dr. Ruth Bergman, GE Healthcare; Dr. Danny Eytan, Rambam Health Care Campus.



▲ (L-R) Professor Rafi Beyar; Professor Lior Gepstein, Rambam's Director of Cardiology, Director of the Division of Research; Professor Uri Sivan, President of the Technion; Dr. Joachim Behar, Biomedical Engineering, the Technion.



▲ Professor Leo Anthony Celi addresses the "Technion-Rambam Hack: Machine Learning in Healthcare" conference.



FROM DREAMS TO REALITY: RESEARCH AND INNOVATION UPDATES FROM RAMBAM MEDTECH



▲ Dr. Ronit Almog



▲ (L-R) Rambam General Director Professor Michael Halberthal, Rambam MedTech CEO Dr. Roei Atlas, Road2 CEO Eitan Kyiet.

Rambam MedTech Ltd., the hospital's technology transfer company, is responsible for managing the innovation and intellectual property that belongs to doctors and scientists throughout the campus, supporting the transformation of innovative concepts into leading products that can make an impact worldwide. The company's methodology involves guiding these individuals and promoting their inventions, providing assistance via grants and initial funding for intellectual property development, and facilitating commercialization through experienced business partners.

Rambam MedTech has recently advanced a number of significant medical research and development projects conceived by Rambam's physician-scientists. Many of these initiatives have led to successful collaborations, agreements, and patents.

Notes Dr. Roei Atlas, Rambam MedTech's CEO, "We are constantly working to harness the cutting-edge ideas initiated by Rambam's excellent researchers, physicians, and scientists and bring them to fruition. Guiding these individuals through the development process allows us to ensure that they have the tools they need to succeed and increases Rambam's innovation impact. We see this as a win-win situation for

everyone involved – especially the patients who will have the opportunity to benefit from these pioneering solutions."

ISRAEL MEDICUP LICENSING AGREEMENT - HVT

A licensing agreement was signed for the commercialization and technology development of a device that cuts the leaflet of an old heart old valve during transcatheter aortic valve implantation (TAVI). It was designed by Dr. Yair Feld, an attending physician in the Interventional Cardiology Unit and Director of Rambam MedTech's Innovation Lab,

and Dr. Arthur Kerner, Director of the Interventional Cardiology Unit.

Israel MedicUp is an investment group focused on advancing medtech and life science innovation in Israel.

AGREEMENT WITH MINDCET INCUBATOR

An option agreement was signed for the licensing, commercialization, and development of technology by Dr. Goded Shahaf on the subject of brain EEG readings for educational purposes and cognitive feedback for students with learning disabilities.

MindCet is an Israeli incubator for the development of education technologies.

COLLABORATION BETWEEN RAMBAM AND ROAD2

Rambam and Road2 are working together on the examination and development of digital health technologies, and four Rambam projects are already being reviewed for the fund's investment plan.

Road2, a fund that initiates innovation and won a tender from the Israel Innovation Authority for technological development in the Haifa region, represents a group of companies that include NVIDIA and JVP.

COMMERCIALIZATION AGREEMENT WITH CAUSALIS

A commercialization agreement was signed for collaboration in the development of digital technology together with



▲ (L-R) Dr. Yair Feld and Dr. Arthur Kerner

Dr. Ronit Almog, Director of the Epidemiology Unit and BioBank, and Rambam's Data Center.

Causalis develops artificial intelligence technology for predicting and making decisions in the treatment of chronic patients before starting treatment.

RECENT PATENTS REGISTERED AT RAMBAM

- System and method for real-time diagnosis of brain disorders under anesthesia – Dr. Dana Baron Shahaf, Dr. Goded Shahaf.
- Miniature clean room for single use – Dr. Salim Hadad, Engineer Zvi Lefel.



▲ Dr. Salim Hadad

is an independent, publicly funded agency that provides tools and funding platforms to help foster local innovation.

WINNING THE ISRAEL INNOVATION AUTHORITY GRANT ("KAMIN" PROGRAM)

Professor Zeid Abassi, Professor Iyad Khamaisi, and Dr. Salim Hadad have been awarded the Israel Innovation Authority grant for developing a molecule against acute pancreatitis.

The Israel Innovation Authority

RAMBAM MEDTECH'S "SPARK" GRANTS PROGRAM

The Spark grant is a grant from Rambam MedTech used for the development of applied technologies, and is given annually to a select number of projects.

This year, seven grant applications were submitted by inventors from Rambam.



BONDS OF FRIENDSHIP

RESCUING SASHA FROM UKRAINE

After Masha Bozhko, the Project Coordinator in Rambam's Nursing Administration, immigrated to Israel from Ukraine, she stayed in touch with her childhood friend Natasha. "We spoke daily when the war started. I realized that Natasha and her husband were working all the time and called their 16-year-old son Sasha regularly," recalls Masha.

During one conversation, Sasha said he wanted to leave and asked if she could help. Masha asked Natasha if she wanted her to bring Sasha to Israel, and she said yes.

From the moment Masha chose to bring Sasha to Israel, she faced bureaucratic challenges. After overcoming several obstacles, Sasha traveled from Ukraine to Moldova. From there, he flew to Israel on a rescue flight, where Masha was waiting at the airport to greet him.



▲ Masha and Sasha

▼ Professor Mark Eidelman



DOCTORS HELPING DOCTORS

Thanks to Professor Mark Eidelman, Director of Rambam's Pediatric Orthopedics Unit, a shipment carrying \$100,000 worth of medical equipment, medications, and more was delivered to a military hospital outside of Kyiv.

Following the outbreak of the war, Professor Eidelman reached out to a former colleague—a surgeon with whom he had previously worked—to ask how he was doing. The surgeon answered that he was working in the military hospital, operating around the clock.

Professor Eidelman asked his colleague what was needed, and in accordance with the response, organized the equipment donation. With the help of friends in Israel and the United States, he arranged for its speedy delivery. Among the first to offer assistance were Professor Noam Gavriely, founder of medical equipment company Oneg Hakarmel Ltd., and Sasha Omtzinski, a company employee. Oneg Hakarmel donated sterile barriers and arranged the shipment to Kyiv.

"Professor Eidelman stepped up," explained the surgeon during a conversation between surgeries. "I don't know what we would have done without this equipment."

FROM RAMBAM WITH LOVE

Rambam employees stepped up to help Ukrainian refugees staying in Haifa's Absorption Center, donating clothing, blankets, toys, toiletries, and other essentials. Dozens of boxes containing these much needed items were delivered – it was the second such delivery.

The donation was initiated by Rambam's Psychological Service, which recruited the Division of Human Resources' Department of Employee Welfare and units and departments throughout the hospital. "The response was tremendous," says Liat Ariel, Director of the Psychological Service. "Generosity is in our DNA and Rambam employees are happy to get involved."

Ariel helped to deliver the boxes to ascertain what else was needed. The trip there—carried out by staff from Rambam's Transport Department—was especially exciting when it became clear that the driver, Igor Zeltkin, had immigrated from Ukraine. "We talked about his feelings," recalls Ariel. "It's not simple to be in such a complicated situation, but we are happy to take part."



▲ The aid boxes leave Rambam for the absorption center in Haifa.

ESTABLISHING A MENTAL HEALTH HOTLINE FOR UKRAINIANS

Psychologists, social workers, and other mental health professionals have been volunteering to staff a hotline for Ukrainians in need of psychological support. More than 200 Israeli professionals have mobilized to support this private initiative.

Among the volunteers are Liat Ariel, Director of Rambam's Psychological Service, who also coordinates the hospital's committee for supporting emergency and crisis teams, and Dr. Zina Levitan, the head psychologist in Rambam's psychiatric hospitalization department. Dr. Levitan also volunteers to provide guidance and personal support to professionals who staff the Israeli hotline as well as group support for Ukrainian professionals.



▲ Dr. Zina Levitan and Liat Ariel

Following the dramatic events in Ukraine, Dr. Levitan and Ariel also opened a psychological counseling center for Rambam employees from Ukraine and for those who feel emotionally involved in the situation. "Now, when immigrants and refugees arrive in Israel from Ukraine and Russia, the organizations work together to provide a psychological solution that is suitable in Israel," explains Ariel.



RAMBAM PLAYS SIGNIFICANT ROLE IN ISRAELI FIELD HOSPITAL

RAMBAM DEPUTY DIRECTOR DR. MICHAL MEKEL WAS THE HOSPITAL'S DIRECTOR FOR TWO-AND-A-HALF WEEKS, RUNNING THE FACILITY'S DAILY ACTIVITIES AND OVERSEEING ITS DISMANTLING AT THE END OF HER ROTATION

In order to provide medical care for residents of Ukraine, the Israeli government, in conjunction with Sheba Medical Center, chose to establish a field hospital in the Lviv suburb of Mostyska in March. Three Rambam employees—Dr. Eduard Zalyesov, management resident; Dr. Alex Kiorescu, anesthesiologist; and Alex Cherny, transplant coordinator—were members of the first medical delegation to make the journey, helping to set up the facility and treat its first patients.

Since then, several delegations consisting of medical professionals and representatives from hospitals and health funds across the country have been sent to work in the field hospital, named “Kochav Meir” after Ukrainian-born former Israeli Prime Minister Golda Meir, with each delegation remaining in place for two-week stints before being replaced.

In mid-April, 10 Rambam employees joined a 70-member delegation that included doctors, nurses, logistics, and operations staff. The group was led by Rambam Deputy Director and senior surgeon Dr. Michal Mekel, who became the field hospital's first female director.

During their time in Ukraine, the field hospital was visited by Professor Nachman Ash, Director



▲ Rambam doctors traveling to Ukraine

General of Israel's Ministry of Health, who traveled there to observe the hospital's activities.

Beyond treatments and surgeries, the delegation's doctors and nurses are training local medical professionals who participate in surgeries and observe the therapeutic activities. They have also been asked to lead CPR workshops for local high school students.

The delegation completed its rotation at the field hospital on Holocaust Remembrance Day, and held a memorial ceremony and other events with the local Jewish community before returning to Israel.



▲ Dr. Michal Mekel addressing the field hospital staff





SAFEGUARDING WATER SYSTEMS

The Maintenance Department is responsible for the day-to-day maintenance of Rambam's infrastructure systems. The water system is one of these. The team responsible for this system is headed by Yossi Fishman. Dudu Matarso is the department's Deputy Director and Shachar Azulai is in charge of the water. Together, and under the close supervision of the Ministry of Health, they facilitate work around the clock to provide the highest quality water supply.

DEALING WITH LEGIONELLA

One of the group's responsibilities is addressing the constant threat of Legionnaires' disease, which develops when water vapors in which Legionella bacteria are present are inhaled. Ongoing prevention is critical to reduce morbidity and save lives. Samples are periodically tested, measures are taken as needed, and the system is updated as necessary. The efforts have paid off, and outbreaks are rare.

STEAM

To ensure that Rambam has a continuous water supply for activities such as sterilization purposes, laundry, and kitchen usage, the hospital has three steam boilers with varying production capacities. The steam system must be used with caution, and requires constant supervision by a skilled professional. The machine team operates in three shifts to ensure that the boiler system is operating correctly.

▼ Kobi Bossel and the water system team



MAINTAINING DIALYSIS UNITS

Rambam has three active dialysis treatment units, which require a continuous supply of special water. Dialysis treatments are performed six days a week for approximately 14 to 15 hours a day, and having a deep understanding of the system is critical to ensure that these units function properly. Problems with the water supply can lead to a disruption of services and potentially causing harm to the health of the dozens of patients treated daily.

QUALITY OF DRINKING WATER AND CONTINUITY OF SUPPLY

According to regulations, Rambam is required to provide drinking water to all patients for no less than 72 consecutive hours, even when there is no external source. As such, the hospital has established a central water reservoir that can hold 2400 cubic meters of water. Water quality is maintained by keeping chlorine at constant levels at all times, and the water is circulated and refreshed regardless of the quantities consumed. The reservoir is monitored around the clock, and a text message is automatically sent if an issue arises that can endanger patients, with the reservoir automatically closed if a problem occurs.



ON A MISSION: ECMO TRAINING FOR ISRAELI MEDICAL TEAMS



While the COVID-19 created certain difficulties for Israel's medical system, it also facilitated the creation of new development processes. Following the increase in the number of critically ill patients, a crucial need arose to increase the number of nurses licensed to work with extracorporeal membrane oxygenation (ECMO) devices. As part of Israel's national mobilization initiative, it was decided in collaboration with the Nursing Administration at the Ministry of Health to open a special nursing ECMO training school at Rambam headed by Dr. Josef Ben-Ari, Director of the Wagner-Green Pediatric Intensive Care Unit, and Dr. Hagar Cohen Saban, Deputy Director of Nursing.

The training was tailored to the needs of the time period, and was built in a hybrid format that included two online sessions led by Dr. Ben-Ari and other lecturers, as well as a frontal session led by expert ECMO technicians experienced in working with the ECMO device. To receive

the certification, the course participants were required to complete 16 hours of bedside training with patients.

The mobilization of this team, their commitment, and their cooperation with all stakeholders led to the opening of 26 additional courses in 2021. During this time, 450 nurses from approximately 40 medical institutions around the country were trained, coming from large medical centers and public and private institutions. Today at Rambam, there are 145 nursing staff members who are certified to work with the ECMO device, of these 96 staff members were trained at the hospital as part of the program.

This unprecedented initiative enabled Rambam to contribute training expertise at the national level. Following its success, the school's activities have continued in this format. Inquiries are received from other hospitals, requesting the opening of dedicated courses for their nursing and medical teams as part of their preparations to acquire their own ECMO devices.

The COVID-19 crisis has led to a sense of empowerment in the work processes in terms of bringing skilled nurses to work with the ECMO technology, ensuring that Rambam successfully led the way in handling this important national mission.



▲ (L-R) Gila Hyams, Dr. Josef Ben-Ari, Dr. Hagar Baruch



STATEMENT OF ACTIVITIES

(IN MILLIONS OF SHEKELS)

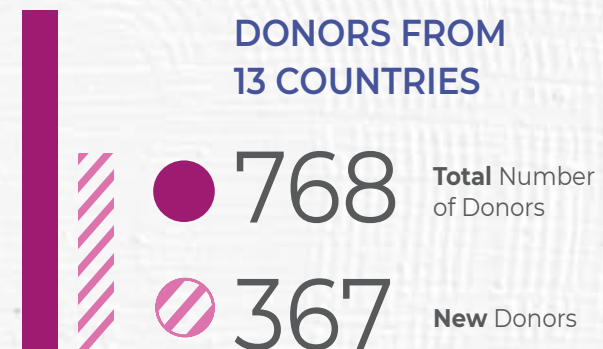
INCOME:	2020	2021*
MEDICAL SERVICES RENDERED	1,666	1,731
RESEARCH PROJECTS	54	59
OTHER	17	20
TOTAL	1,737	1,810
ALLOCATIONS:		
BUILDING CONSTRUCTION AND RENOVATION	14	8.5
MEDICAL EQUIPMENT	6	12
COMPUTERIZED EQUIPMENT	2	4
EQUIPMENT & SUPPLIES	3	3
TOTAL	25	27.5
EXPENSES:		
SALARIES	1,278	1,448
MEDICAL AND TECHNICAL EQUIPMENT	319	278
MAINTENANCE	156	150
OPERATING EXPENSES	214	210
GENERAL ADMINISTRATIVE EXPENSES	96	90
TOTAL	2,063	2,176

*Recalculated

PATIENT CARE

YEAR	2020	2021
ANNUAL ADMISSIONS	73,193	75,972
TOTAL PATIENT DAYS	315,374	336,995
EMERGENCY DEPARTMENT VISITS	120,970	147,424
OUTPATIENT VISITS	779,825	765,795
TOTAL PATIENTS TREATED	288,307	316,098
IMAGING PROCEDURES	264,431	294,174
LABORATORY EXAMS	12,715,604	14,051,985
SURGICAL PROCEDURES	53,717	56,623
DELIVERIES	4,181	4,563
AVERAGE OCUPANCY	77%	86%

IN NUMBERS

DONORS FROM
13 COUNTRIES

DONATIONS

\$23 Million

Total Amount Raised

\$20,620

Average Donation Amount

EMPLOYEES

6,085 EMPLOYEES

1,393 PHYSICIANS

1,978 NURSES

1,293 ALLIED HEALTH

1,421 HOUSEHOLD & ADMINISTRATION

RESEARCH

579 NEW RESEARCH

2,161 ACTIVE RESEARCH

HOSPITALIZATIONS
BY AGE

75,972



OVERALL CAPACITY

1,040 HOSPITAL BEDS

39 MEDICAL INSTITUTES

65 INPATIENT WARDS

79 SPECIALIZATION UNITS

116 OUTPATIENT CLINICS



DR. SHLOMIT YEHUDAI-RESHEF, PHD

Director, Leir Foundation Clinical Research Institute at Rambam (CRIR)

Discovering the Initiation Event Leading to Leukemic Cell Production and Using these Understandings to Guide the Development of New Therapy Strategies for Leukemia

Dr. Shlomit Yehudai-Reshef leads the Yehudai-Reshef Leukemia Research Laboratory together with Professor Tsila Zuckerman, Director of the Department of Hematology and Bone Marrow Transplantation. The laboratory focuses on acute myeloid leukemia (AML) – particularly on the regulation of the hematopoietic stem cells by its microenvironment – the bone marrow niche. The laboratory's major goals are to unravel leukemia heterogeneity by applying a single-cell approach and investigate what governs leukemia production from hematopoietic stem cells located in the bone marrow, and to discover how the cross talk between mesenchymal cells and hematopoietic stem cells in the bone marrow niche are disrupted in leukemia. Dr. Yehudai-Reshef's research is characterized by multidisciplinary approaches, combining methods

such as genome sequencing, molecular, immunology, computational, functional, and high-resolution imaging techniques to define the interactions between bone marrow subpopulations and single leukemic stem cells.

Using a combination of genetics, imaging, and functional assays, the laboratory has defined key components and abnormalities of the bone marrow niche and developed methods for altering niche interactions that have resulted in a pre-clinical experimental system using stem cells to model hematologic malignancies.

The combined functional and genomic studies unraveled the patient-specific HSPC subpopulations involved in chemo-resistance and determined—at the time of diagnosis—the phenotype of the relapse-initiating clone, allowing early prediction of AML recurrence and suggesting strategy that paves the way towards a comprehensive clinical platform for AML patient-tailored therapy aimed at relapse prevention.

These studies have direct clinical implications as the team aims to integrate advancements in disease biology with clinical trials, taking research from the “bench to the bedside”.



DR. RUTH PERETS, MD/PHD

Principal Investigator, Perets Lab, Division of Oncology, Leir Foundation Clinical Research Institute at Rambam (CRIR)

Understanding the Early Pathogenesis of Ovarian Cancer

Research in the Perets Laboratory focuses on gynecological malignancies – primarily ovarian cancer. Ovarian cancer is the fifth most common cause of cancer-related death in women in the Western world. The main reason for this prognosis is the absence of early detection methods, leading to ovarian cancer often being detected when it is widespread and incurable.

Dr. Perets and her team address two aspects of ovarian cancer. First, using genetically engineered mouse models, the team builds tools to study prevention and early detection, and tools to study the common subtypes of ovarian cancers, including high grade serous carcinoma—the most common subtype of ovarian cancer—as well as rare subtypes. These rare subtypes are usually orphan diseases, and the scarcity of patients leads to less effort on

research into these subtypes, and therefore, fewer prevention and treatment options. As such, good mouse models can have an especially high added value to patients suffering from such cancers.

The lab's other focus is unraveling key biological processes in ovarian cancer in order to develop targets for development of novel ovarian cancer therapies. A major effort is concentrated on a protein called PAX8, which plays a critical role in ovarian cancer. PAX8 is essential to ovarian cancer cell proliferation, and getting rid of it would cause cancer cells to die. PAX8 is also responsible for the ability of ovarian cancer cells to metastasize, eventually leading to death from ovarian cancer. The Perets lab studies how PAX8 works, which proteins are activated by PAX8, and which proteins activate PAX8, suggesting novel targets for therapy.





RAMBAM INTERNATIONAL RELATIONS

1

A delegation from Moldova visited Rambam to learn about emergency and mass casualty situation management. They were greeted by Dr. Michal Mekel, Rambam Deputy Director; Gila Hyams, Director of Nursing and Director of Rambam's Teaching Center for Trauma, Emergency and MCS; Liora Utitz, Director of Nursing in Ruth Rappaport Children's Hospital, and Rambam's Mass Casualty Coordinator; Halil Namura, Mass Casualty Coordinator in the Nursing Administration; and Tali Schmitz-Golik, Emergency Coordinator in Administrative Management. Dr. Hany Bahouth, Director of the Trauma and Emergency Center addressed the delegation, which also toured Sammy Ofer Fortified Underground Emergency Hospital.



▲ The Moldovan delegation meet with Rambam representatives.

2



▲ Members of Rambam's administration pose for a photo with representatives from ZIM Integrated Shipping Services.

ZIM Integrated Shipping Services President and CEO Eli Glickman and other company representatives visited Rambam. They were received by Rambam General Director Professor Michael Halberthal, who gave an overview, Deputy Director Dr. Avi Weissman, Deputy Director Dr. Yael Shachor-Meyouhas, and Dr. Esty Golan, Managing Director of International Relations and Chief of Strategic Development. They also met with Rambam MedTech CEO Dr. Roee Atlas. In honor of ZIM's donations to Rambam, they were presented with a donor recognition certificate, and a plaque was unveiled in their honor. The group toured the Sammy Ofer Fortified Underground Emergency Hospital as well as Helmsley Health Discovery Tower.



▲ Course participants and members of Rambam's administration in the lobby of Ruth Rappaport Children's Hospital.

Rambam hosted a course on "Managing Health Services During a Crisis", created by MASHAV, the Ministry of Foreign Affairs, the Golda Meir Mashav-Carmel International Training Center, and Rambam. Representatives from Africa, Europe, and Central America attended. Speakers included Professor Michael Halberthal; Dr. Hany Bahouth; Ms. Gila Hyams; Dr. Avi Weissman; and Professor Lior Gepstein, Director of the Division of Research and Director of the Department of Cardiology. They visited the Rabbi Yechiel Eckstein Z"L Shock Trauma Room and the Sammy Ofer Fortified Underground Emergency Hospital.

3



▲ (L-R) Professor Michael Halberthal, Dr. Einat Kalisch-Rotem, Mr. Nachshon Tzuk, and Deputy Defense Minister Alon Schuster.

A working meeting was held on the 20th floor of Rambam's Helmsley Health Discovery Tower with Israel's Deputy Minister of Defense, Alon Schuster; representatives of Haifa's Port Innovation District; Haifa Mayor Dr. Einat Kalisch-Rotem; Haifa Deputy Mayor, Mr. Nachshon Tzuk; the Haifa City Engineer, and Professor Michael Halberthal. The meeting was held as part of the plan to turn the port and the area surrounding it into the largest innovation district in the Middle East.

Following a significant donation to the Department of Cardiac Surgery, Ahmad Dabbah, owner of leading retail chain Saleh Dabbah & Sons; his brother Yahya; his son Saleh, the company's CEO; and other family members visited Rambam. They were welcomed by Professor Michael Halberthal; Dr. Esty Golan; Professor Gil Bolotin, Director of the Department of Cardiac Surgery; and Inbar Shahaf, Director, Unit of Resource Development and Donor Relations. During the visit, they toured Eyal Ofer Heart Hospital.



▲ (L-R) Inbar Shahaf, Saleh Dabbah, Prof. Michael Halberthal, Ahmad Dabbah, Prof. Gil Bolotin, Yahya Dabbah; Dr. Esty Golan

Representing the David and Ruth Lewis Family Charitable Trust, Julian Lewis visited Rambam. He was welcomed by Dr. Esty Golan and Inbar Shahaf. During the visit, he met with Prof. Lior Gepstein, Director, Department of Cardiology, Director, Division of Research; Dr. Arbel Artzy-Schnirman, Director, Applied Medical Technology Research Center; and Dr. Emily Avitan, Director, Department of Dermatology, and toured the Sammy Ofer Fortified Underground Emergency Hospital.



▲ (L-R) Inbar Shahaf and Julian Lewis



IN MEMORIAM

MOURNING THE LOSS OF
A VISIONARY MAN
**RAMBAM SAYS GOODBYE TO
EITAN WERTHEIMER**



Rambam Health Care Campus deeply mourns the loss of the late Eitan Wertheimer – a partner and true friend. Eitan died on April 4, 2022 at age 70 following a long battle with cancer. He is survived by his wife Ariela; his father Stef; his five children – Asaf, Sivan, Maya, Daniel, and Guy; six grandchildren; two sisters; and one brother.

Born and raised in the northern Israeli city of Nahariya, Eitan grew up to be a successful businessman, entrepreneur, and philanthropist. He joined ISCAR, the family business, at his father's request, and stepped into the role of Director in 1995. In 2006, the precision tool-cutting company was purchased by American billionaire Warren Buffett.

Eitan and Ariela were among the pioneering visionaries who conceived of the hospital's present-day campus, helping to formulate the initiative that still serves as Rambam's master development plan – a plan that is now coming to fruition before our eyes. Involved at Rambam for more than two decades, Eitan's tremendous contributions can be



found throughout the campus in facilities like Ruth Rappaport Children's Hospital, Joseph Fishman Oncology Center, Eyal Ofer Heart Hospital, and Sammy Ofer Tower. In addition, Ariela volunteered for more than ten years in the Oncology Division. The couple's legacy at Rambam will be cemented even further through their support for Helmsley Health Discovery Tower.

As a philanthropist, Eitan was drawn to causes that promoted coexistence and diversity in Israel, actively supporting Israeli-Palestinian ventures and peace initiatives, as well as educational initiatives for the country's Arab and ultra-Orthodox populations. He also established Erez College in the town of Shlomi. Eitan cofounded "Atidim", an organization that strives to bring higher education opportunities to Israel's periphery. In 2011, the Technion – Israel Institute of Technology awarded him an honorary doctorate for his philanthropic activity in education.

All members of the Rambam family bow their heads in sorrow, and share in the grief of Ariela and the Wertheimer family.



A LIFELONG LOVE FOR ISRAEL

Committed Zionists Cathy and Danny Rosenkranz were looking for projects to support in Israel. Frequent visitors, they have many friends and relatives in the country – including Professor Michael “Miki” Halberthal, Rambam’s General Director and Danny’s second cousin. Professor Halberthal gave them a campus tour, and the couple were very impressed.

There were several aspects that they found particularly inspiring – the Sammy Ofer Fortified Underground Emergency Hospital was one of these. Another was the coexistence and diversity. “We saw Jews and Arabs mixing harmoniously – staff as well as patients. It was wonderful to see,” Danny



▲ Photos from Danny's youth in Kenya

recalls. Other highlights included the research being carried out at Rambam, the investment in Helmsley Health Discovery Tower, and collaboration with other institutions. The successful visit resulted in their decision to establish the Danny and Cathy Rosenkranz Oncology ER in Joseph Fishman Oncology Center. Previously, they provided support for the D. Dan and Betty Kahn Foundation Center for Interventional Cardiology and the hospital's COVID-19 activities.

HUMBLE BEGINNINGS

Danny was born in Kenya – the only country to grant his parents a visa when they had to leave Gdansk, Poland, at the end of 1938 in order to escape the Nazis. The family lived in challenging conditions with his father employed in a sawmill in the bush, high in the Kenya Rift Valley. They slowly became successful, and eventually bought a farm. In 1964, Danny moved to England to attend university. A chemical engineer by profession, he worked his way up the ranks of the British Oxygen Company—one of the largest companies in Britain, eventually becoming the CEO.

Cathy's parents met in England after fleeing from Vienna, Austria, to escape the Holocaust; both of her parents had family members who perished, as did Danny's parents. Cathy's father died young; her mother never remarried, and the family struggled. Cathy studied pharmacy at the School of Pharmacy at the University of London and went on to hold several jobs, including heading up the pharmacy department at John Bell & Croyden near Harley Street – one of the UK's oldest and largest pharmacies.

The two met in 1980. After a number of years together, they got married and moved to their current home in Kingston on Thames, located in the southern outskirts of London. Between them, they have a wide range of hobbies. Together they enjoy golf, bridge, and travel. Cathy also enjoys sculpture and the arts, and Danny is fond of gardening, history, and sports.

MAKING A DIFFERENCE

Cathy and Danny have always supported various causes on a small scale, and about twelve years ago, decided to take on more serious projects. The couple are currently involved in six significant farming and education programs in Kenya that use both Danny's knowledge of farming in Kenya and his business experience, working through a local charity.

“I understood how vulnerable the people were in the area where I was born and raised,” Danny explains. “Our programs have made a huge difference for them.”

The couple have been involved with initiatives in Ukraine for over five years, including one that encourages and helps people to find work, and another for repairing and refurbishing old apartments. Everything is managed by World Jewish Relief, a British Jewish charity with a strong presence in Ukraine.



▲ Danny and Cathy on a visit to Kenya

Among other projects, they also support the National Holocaust Centre and Museum near Nottingham, a place with a unique vision for Holocaust education.

THE RAMBAM CONNECTION

Cathy and Danny love coming to Israel, and see their support for Rambam as a natural extension of their affinity for the country. “The ‘Miki’ connection is important, and our families have always been close,” shares Danny. “My parents would be absolutely thrilled that we are supporting Rambam, but the one who would be more excited than anyone would be Miki's mother. We feel very good about what we're doing here.”





HONORING THE FATHER OF ISRAELI HI-TECH: OPENING CEREMONY FOR THE UZIA GALIL INNOVATION CENTER

An opening ceremony was held at Rambam for the Uzia Galil Innovation Center in the presence of the Galil family, including his daughters Ruth Alon and Daniella Doron, Professor Michael Halberthal, Professor Rafi Beyar, Rambam employees, and other guests. The ceremony's moderator was Professor Lior Gepstein, Director of Rambam's Department of Cardiology and its Division of Research.

Speakers included Professor Halberthal, Professor Beyar, and Ella Galil – Uzia's widow. In addition, two short films were screened – one about innovation at Rambam and the other about Uzia's life. Following the ceremony, the Galil family and other guests were given a tour of the Innovation Center, which included the unveiling of the plaque recognizing Uzia. This was followed by a presentation given by representatives from the company Paragate, which is in the process of developing an implantable device used to treat fluid overload in patients suffering from chronic heart or kidney failure.

Uzia Galil was one of the fathers of Israel's technology sector. In his role as a founder and CEO of Elron Electronic Industries – the first Israel-based multinational high-tech holding



▲ (L-R) Doron Lavie, Dr. Esty Golan, Ella Galil, Prof. Yoram Palti, Prof. Michael Halberthal, Prof. Morir Khamaisi, Prof. Rafi Beyar, Daniella Doron, Ruth Alon, Eitan Kyiet, Prof. Lior Gepstein

company, Uzia helped to launch approximately 30 technology-based companies.

Following Uzia's passing in 2021, Rambam, in cooperation with the Galil family, chose to recognize his significant contributions to the Israeli hi-tech landscape through the establishment of the Uzia Galil Innovation Center. The goal of this center will be to provide the space and opportunities to everyone involved in clinical practice, in order to promote innovation and facilitate improvements in the field of medicine.

▼ Ribbon-cutting ceremony



▼ Uzia Galil z"l



▲ (L-R) Dr. Avi Weissman, Alaa Tannous, Prof. Rafi Beyar, Elias Tannous, Eva Tannous, Radir Tannous, Waseem Tannous, Prof. Michael Halberthal, Prof. Lior Gepstein, Dr. Esty Golan



▲ Elias Tannous addresses the audience

ESTABLISHING THE BADI TANNOUS HEART INSTITUTE: CELEBRATING THE TANNOUS FAMILY AND THE EVA AND BADI TANNOUS FOUNDATION

A recognition ceremony was held to honor the family of the late Badi Tannous, marking the establishment of the Badi Tannous Heart Institute in Eyal Ofer Heart Hospital. The festive event, which was moderated by Rambam Deputy Director Dr. Avi Weissman, was held in the presence of members of the Rambam administration and staff; the Tannous family - including Badi's widow, Eva, and their children, Radir, Elias, Alaa, and Waseem; Israeli industry leaders; and other guests. Speakers included Professor Michael Halberthal, Professor Rafi Beyar, and Elias Tannous – Badi's son and CEO of BST Group, the leading Israeli leading contractor responsible for completing the finishing work on the entrance level and floors 1 and 2 in Eyal Ofer Heart Hospital. Following the ceremony, guests were given the opportunity to tour the new facility, which houses the cardiac outpatient clinics, the Electrophysiology Service, the Intensive Cardiac Care Unit, the D. Dan and

Betty Kahn Foundation Center for Interventional Cardiology, and the Patricia and Albert Frank Family Cardiology Inpatient Department.

Badi, who passed away in 2018, was the founder of BST Group. He was treated at Rambam, and in a show of profound gratitude, the Tannous family chose to honor his father's memory by donating the interior work for these three floors – work worth millions of shekels in supplies, equipment, and manpower.

Badi grew up in Nazareth and was an entrepreneur at heart, establishing many businesses throughout his life. Public activity played an important role in his life, and he devoted many years to contributing to the community and the country, including a great deal of hard work to promote coexistence in the State of Israel at every level. Commemorating his memory and legacy in the Badi Tannous Heart Institute combines two areas close to his heart – construction and love of humanity.



RAMBAM
Health Care Campus

CREATING THE FUTURE OF MEDICINE

Support us now and join Rambam HCC to ensure our ongoing ability to meet the needs of the people of Northern Israel



PROJECTS IN PROGRESS

- Eyal Ofer Heart Hospital
- Helmsley Health Discovery Tower

RENOVATION & EXPANSION

- Division of Critical Care
- Pediatric Rehabilitation

MAINTENANCE AND ONGOING SUPPORT

- Sammy Ofer Fortified Underground Emergency Hospital
- Scholarships for advanced studies and fellowships

EQUIPMENT ACQUISITION

- CT scanner
- Equipment for two new operating rooms
- Equipment for Oncologic ER

Contact us now for more information on how to make a life-saving impact that benefits the people of Israel!

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