

Rambam

ISSUE NO.31 | JUNE 2023

on call



ACHIEVING MORE TOGETHER

RAMBAM TECHNION ALLIANCE

Shaping the future
of medicine

RAMBAM AND THE UNIVERSITY OF HAIFA

Working Together
Achieving More

RAMBAM IN NUMBERS

COLLECTIVE ACCOMPLISHMENTS

A glimpse into our
international collaborations



RAMBAM
Health Care Campus

TABLE OF CONTENTS

Rambam *on call* • MAY 2023 • ISSUE #31



FROM THE DIRECTOR
Professor Miki Halberthal



RAMBAM TECHNION ALLIANCE
Shaping the future of medicine



WORKING TOGETHER ACHIEVING MORE
Rambam and The University Of Haifa Alliances



RAMBAMS ORGANIZATIONAL DEVELOPMENT
Experiential learning



NURSE-LED INNOVATION
Embracing innovation for improved care



COLLECTIVE ACCOMPLISHMENTS
A glimpse into our international collaborations



RAMBAM
Health Care Campus

Director General:
PROF. MICHAEL HALBERTHAL

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INTERNATIONAL RELATIONS

Words from Dr. Esty Golan



INTERNATIONAL RELATIONS

Snapshots

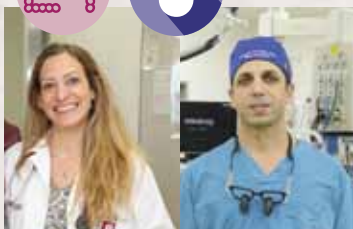


RAMBAM IN NUMBERS



DONOR PROFILE

Albert Frank



INNOVATIVE RESEARCH

Cancer therapies and
Neurodegeneration



SPECIAL EVENTS



FROM THE DIRECTOR

**PROFESSOR
MICHAEL
HALBERTHAL**



JOINING FORCES FOR BETTER HEALTHCARE

DEAR FRIENDS,

Recent years have laid the groundwork for new maturity and a deeper vision to navigate the present and forge ahead into uncharted territory. Now with more than 6,000 diverse and multicultural employees, Rambam Health Care Campus remains Northern Israel's largest referral hospital. I am proud of our staff – all committed to keeping every political, religious, and social disagreement off-campus. In light of current events, coexistence is more important than ever.

Our commitment, first and foremost to life, is exemplified by the first-ever 48-participant Rambam delegation to visit the concentration camps in Poland, and participate in the "March of the Living." We remember the past, look hopefully at the future, and make it our obligation that such a monstrosity will not happen again. Proudly representing every sector, faith, and ethnicity, our delegation is a testament to pluralism with respect and dignity. The generation of Holocaust survivors is disappearing. It is, therefore, incumbent on us to be their voice and bear witness. You can read more about this meaningful visit in this issue.



▲ Architectural Rendering of Rambam in 2065

Looking to the future, we have just unveiled a new master plan of the hospital for 2048 and 2065. A major expansion, made possible in part by new government-allocated land, will enable expansion from 1,100 to 2,700 beds and 180,000 sq.m. (1,937,504 sq.ft.) to 900,000 sq.m. (9,687,519 sq.ft.), guaranteeing our ability to serve the growing population in our region.

This vision, however, will be accomplished only by continuing to keep present needs our top priority. To that end, I would like to share with you just a few exciting expansions currently underway:

- **Neurology Section:** we added 36 beds bringing us to a 54-bed Section (the largest in Israel) which includes – general neurology and stroke and a nine-bed step-down unit

providing cutting-edge treatments – some for the first time in Israel, exemplifying our commitment to excellence.

- **Shock-Trauma Step-Down Unit:** the newly opened unit is the only one of its kind in the north and is improving multiple aspects of trauma treatment.

- **Expanded surgical facilities:** Completion of two general surgery operating rooms (ORs) and plans for a new adult surgical intensive care unit (ICU).

- **Completion of the Joseph Fishman Oncology Center:** Completion of the Radiation Therapy Institute and a Complementary Medicine Center in collaboration with "Halasartan"; opening soon – the Danny and Cathy Rosenkranz Oncology ER.

- **Eyal Ofer Heart Hospital:** Construction of three floors which include two cardiac surgery operating rooms, a cardiac surgery inpatient ward, an echocardiography unit, and heart rehabilitation facilities. Construction of the Heart Failure Center and Research and Innovation in Cardiovascular Medicine Center, is pending additional funding.

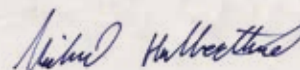
- **Helmsley Health Discovery Tower:** Work on the internal infrastructure (all lobbies, elevators, wiring, plumbing, and more).

- **Ruth Rappaport Children's Hospital:** Completion of final plans for the Azrieli Foundation Pediatric Rehabilitation Center and additional outpatient services.

Research collaborations are the heart and soul of medical advances. Some are featured in this issue. Local (Technion-IIT and University of Haifa) and international collaborations, including with Stanford Medicine, Memorial Sloan Kettering, and most recently, the Hospital Israelita Albert Einstein in Brazil. Our trauma school has been very active, with numerous workshops in the United Arab Emirates, India, Poland, and San Francisco.

These are but a few examples of Rambam's accomplishments for the benefit of our region, our nation, and the world. None would have been possible without you and your communities. Recently, Professor Beyar and I visited the amazing Jewish community in Brazil. I am humbled as I think of them and each of you, our friends and supporters, – in North America, Europe, Australia, and Asia. You have been with us all the way, and together, we are creating the future of medicine.

Best regards,



Michael Halberthal, MD

Clinical Associate Professor
General Director, Rambam Health Care Campus



WORKING TOGETHER ACHIEVING MORE

RAMBAM AND THE UNIVERSITY OF HAIFA BUILDING ALLIANCES



RAMBAM
Health Care Campus



Rambam Health Care Campus and the University of Haifa have long enjoyed a warm and multi-faceted partnership, which has reached new heights this year. A few months ago, Rambam inaugurated its newly refurbished MRI Institute following extensive renewal and expansion. This milestone event was made possible by the unique relationship of these two great Haifa institutions.

The MRI Institute houses three MRI scanners, including a new, state-of-the-art Siemens 3T MRI acquired jointly by Rambam and the University of Haifa. MRI, or magnetic resonance imaging, uses magnets and radio waves to provide detailed images of the internal structures and organs of the body. Stronger magnetic fields produce clearer, better images and the 3T MRI is the fastest, most powerful diagnostic magnetic resonance imaging technology available.

Both Rambam and the University are using the scanners for a wide range of brain and behavior research (e.g., depression and post-trauma, social behavior, autism, anxiety, and cognitive development).

At the inauguration ceremony for the MRI Institute, Professor Miki Halberthal, Rambam's General Director, remarked: "In partnership with the University, we are implementing and will continue to advance research and crucial



▲ L-R Prof. Ron Robin and Prof. Miki Halberthal



▲ Opening of the new MRI Institute

medical discoveries. The strategic vision is to support health services and, at the same time, pursue a robust research agenda."

University of Haifa President Ron Robin added: "Our vital partnership with Rambam enables University of Haifa researchers to integrate laboratory knowledge with clinical expertise of Rambam physicians. Bringing together the best minds from both institutions will fuel medical breakthroughs that will benefit society as a whole."



In addition, Rambam and the University of Haifa are engaged in many other collaborative efforts.

The Haifa SPARK alliance is an exciting program led by Rambam and Carmel Haifa Ltd., the economic corporation of the University of Haifa, focused on the translation of research discoveries into novel drug therapies and diagnostic approaches. The program positions Haifa as a major hub of bio-medical discovery and innovation.

The Haifa Brain and Behavior Hub, led by Prof. Simone Shamay-Tsoory, a pioneer in the field of social neuroscience, serves as the transdisciplinary focal point for University of Haifa's neuroscience





program. The Hub brings together researchers from different fields to develop interdisciplinary solutions to pressing medical, educational and social problems.

Prof. Shamay-Tsoory has a collaborative research project with Dr. Ayelet Eran, Director MRI Institute, Rambam

The University of Haifa's Faculty of Social Welfare and Health Sciences supports joint projects with Rambam on under-researched areas and "unchartered territories." One of these research projects, led by Professor Efrat Shadmi (Ph.D.), vice dean of Research Affairs, University of Haifa, and Professor Hannah Admi, Rambam's former director of Nursing, examined ways to decrease preventable effects of hospitalization on older adults in acute care medical (non-geriatric) units, with a focus on the Israeli experience at Rambam.

Internationally acclaimed for his research, Professor David Yarnitsky, director of the Department of Neurology, and Dr. Irit Weisman-Foegel, Ph.D. associate professor and head of the Sensory Neuroscience and Pain Laboratory, University of Haifa, investigate pre- and post-operative 'pain science.'

Building on her strong relationship with Rambam, Dr. Hanin Karawani-Khoury, Ph.D.,



clinical audiologist and speech pathologist, Department of Communication Sciences and Disorders, Faculty of Social Welfare & Health Sciences at the University of Haifa, performs research in brain plasticity and auditory processing, in collaboration with Rambam's Department of Ear, Nose & Throat, Head & Neck Surgery. Medically managing hearing loss in pediatric patients is augmented by her research.

In the field of nursing, the Rambam-University of Haifa alliance is unparalleled and spans decades. Many of Rambam's nurses are graduates of the University's Cheryl Spencer Department of Nursing, a leading academic institute for nursing education in Israel. Rambam physicians and nurses play an integral role in the education of the University's nursing students, teaching a wide array of courses for undergraduates and graduate school students.

Rambam, the tertiary referral center for 12 district hospitals, understands its responsibility towards humanity. Together, Rambam and the University of Haifa are making a powerful impact on healthcare, medical research, biomedical innovation and discovery, in Israel and worldwide.





THE FUTURE OF RAMBAM NURSING EMBRACING INNOVATION FOR IMPROVED CARE



Innovation at the nursing level is fundamental to advancing patient care. Rambam's nursing management led the way in making nurse-led innovation part of the hospital's culture. Nurses spend more time at the patient's bedside than other health workers. This means nurses can bring forth out-of-the-box solutions and methods to improve patient care. By understanding this, a strategy was created and developed into which Rambam has invested multiple resources.

Mrs. Gila Hyams, Rambam's Director of Nursing and director of the Teaching Center for Trauma, Emergency, and MCS, and Dr. Yona Vaisbuch, director of the Biodesign Israel program, birthed an idea to develop several strategies to encourage innovation at the nursing level.

This idea led to the creation of a unique workshop to train our nurses to become innovators based on Biodesign's world-renowned methodology. The workshop was also organized by Biodesign alumna, Irina Papier, Innovation in Nursing Coordinator. From day one, a Biodesign toolbox and skill set encouraging need-driven innovation is provided. Creative thinking to develop and implement novel solutions, as well as techniques for successful multidisciplinary team-collaborations, are just some of the tools the nurses receive.

Mentors from Biodesign Israel, and innovative leaders from the National Academy for HealthTech Innovation, are brought in to provide valuable input.

Rambam nurses are implementing innovative ideas into their daily clinical routines, and several projects

are underway. Combining advanced Artificial Intelligence (AI) with the nurses' know-how and experience as primary patient-data collectors, a Technion Rambam collaboration (TERA) is working on the efficient, detailed, and accurate reporting of a patient's nutritional intake and implementing this data into the patient's recovery program.

Collaborations with esteemed institutions like this enable Rambam to create an ecosystem that improves the healthcare we deliver.

Another example of nurse-led innovative technology is expected to change nursing practice—a game-changing collaboration with an elite Israel Defense Force (IDF) intelligence unit is addressing patient care assessment. Previously, nurses were responsible for data collection, but now, patient-based feedback, and user-friendly, innovative IDF technology, will provide more accurate information.

Hyams concludes, "Nurse-led innovation has the power to influence global nursing practices. These projects catalyze innovation, and we are excited about the future."

▼ Course participants with Dr. Yona Vaisbuch

► Mrs. Gila Hyams





THE RAMBAM-TECHNION ALLIANCE SHAPING THE FUTURE OF MEDICINE



RAMBAM
Health Care Campus



TECHNION
Israel Institute
of Technology

Rambam Health Care Campus and The Technion-Israel Institute of Technology ("Technion") have forged a powerful alliance, which aims to transcend traditional disciplines and to merge clinical practice with science, computing, engineering and healthcare management. Building on their long history of close collaboration, Rambam and the Technion seek to address some of healthcare's greatest challenges, and have undertaken several exciting initiatives.

Last year, the two institutions established the joint Technion-Rambam Center for Artificial Intelligence in Healthcare (TERA), which signals a revolution in medical decision-making. TERA is the first joint academic-hospital center in Israel focused on clinical uses of artificial intelligence (AI). Rambam physicians and Technion scientists and engineers are working together to integrate the fields of Big Data and computational learning with clinical care. The teams are focused on analyzing large amounts of data derived from big cohorts of patients, to help physicians to more effectively evaluate a patient's condition and devise optimal treatment plans. TERA aims to transform academic achievements in AI





▲ Rendering of the Andrea and Lawrence Wolfe Center for Translational Medicine and Engineering sign on Helmsley Health Discovery Tower



▲ Prof. Lior Gepstein, director, Department of Cardiology, director, Division of Research at Rambam, and head, Sohnis Family Research Laboratory for Cardiac Electrophysiology & Regenerative Medicine Lab in the Technion's Rappaport Faculty of Medicine

and Big Data into therapeutic tools capable of providing personalized diagnostic and therapeutic care at the patient's bedside.

Rambam's soon-to-be-completed Helmsley Health Discovery Tower will eventually be home to TERA, which will run multiple projects in the areas of cardiology, intensive care, radiology, hemato-oncology, and more.

Another major Rambam-Technion initiative is the Andrea and Lawrence Wolfe Center for Translational Medicine and Engineering. Thanks to the Wolfe family's visionary gift, the Wolfe Center will connect clinicians,

scientists and engineers, with the aim of conducting cutting-edge translational research. The Wolfe Center will be home to dozens of interdisciplinary research teams focusing on areas such as: (1) data science, artificial intelligence, and machine learning; (2) bio-convergence, including developing bio-chips, tissue/organ bio-printing products and organ-on-a-chip approaches for drug discovery; (3) medical device development; (4) nanotechnology and drug delivery platforms and (5) healthy aging. The Wolfe Center will be located in the





▲ Prof. Miki Halberthal, General Director, Rambam Health Care Campus



▲ Prof. Uri Sivan, President, Technion Israel Institute of Technology

Helmsley Health Discovery Tower, and will include state-of-the-art wet laboratories with high-performance computing facilities, 3D bioprinting capabilities, conference rooms, and more.

Technion President Professor Uri Sivan said, "Human health is one of the greatest challenges facing humanity in the 21st century and addressing it requires interdisciplinary knowledge and capabilities, incorporating clinical care and physicians, as well as scientists and engineers from a variety of fields. This will be particularly emphasized in the Wolfe Center. It will express the combined capabilities of Rambam, one of Israel's leading hospitals, with the Technion, a world-renowned scientific-technological university."

Rambam's General Director, Professor Miki Halberthal said, "Research and innovation are critical components in the success of the healthcare system in the 21st

century. The collaboration between Rambam and the Technion plays a major role in strengthening the biomedical industry in Israel and around the world. The collaboration between our institutions is the epitome of Bio-convergence - connecting biology to engineering for the benefit of the patient. This is the forefront of Israeli innovation."

TERA and the Wolfe Center are grounded on the decades-long relationship between Rambam and the Technion. Hundreds of Rambam physicians hold Technion faculty appointments, and engage in extensive research in multiple disciplines with their Technion colleagues. One stellar example is the Clinical Research Institute at Rambam (CRIR), a leading force in innovative translational medical research. Many of CRIR'S outstanding clinicians and scientists are members of the Technion's Faculty of Medicine. Since its establishment in 2008, CRIR has excelled in the

development of innovative 'bench to bedside' solutions in a broad range of medical fields, by addressing clinical challenges emanating from Rambam's own patients.

Rambam and the Technion jointly support a program in which research grants are awarded annually for promising projects with one principal researcher from Rambam and one from the Technion. Applicants must undergo a rigorous selection process based on scientific importance and originality. Among the 2022 projects which received funding are an ultrasound test to predict preterm birth susceptibility, wearable technology to avoid ankle sprains and for guiding rehabilitation, and a test for assessing the carcinogenic potential of air pollutants.

Working together, these two great Israeli institutions are creating an environment that fuels scientific investigation, and is transforming today's brilliant ideas into tomorrow's healthcare solutions. •



NEW APPROACHES FOR EMPLOYEE EDUCATION BRINGING IN THE FUTURE



▲ Department of Learning and Organizational Development



▲ Workshop participants

Rambam's Department of Learning and Organizational Development (L&D Department), under the leadership of Director Galit Kobi, is developing ground-breaking new approaches to support clinical operations and education. The L&D Department strives to provide Rambam's thousands of staff members with the professional resilience and agility to adapt, and even to embrace, rapidly changing approaches to patient care, technology, patient-staff relationships, and much more.

Kobi explains, "Rambam is committed to education as a cornerstone of Rambam's culture of excellence. Our Department continually seeks ways to implement this vision and give our employees the tools, knowledge, and skills they need to perform their jobs more effectively."

The benefits of organizational learning are numerous. It helps create a more productive, engaged and motivated workforce.

The Department is changing traditional approaches to education, incorporating an array of educational solutions including personal learning technology, group meetings, chats, and videos on demand. These approaches are designed to educate employees



▲ VR experiential learning

on many job-related essential topics.

The L&D Department produces concise, creative educational materials which employees can view on their phones or personal computers, at a time which is convenient for them. Kobi explains: "The emphasis now is not on the number of people who attend educational lectures, but rather the measurable impact of educational materials on behavior."

Donning Virtual Reality headsets, a group of medical staff members were able to participate in a confrontational scenario. Rather than passively observing a video, the participants were made to feel as if they were in the room. This prompted an intense conversation among the participants as to how best to handle the challenging situation.

The L&D Department strives to make learning interactive and fun.

Using creative approaches such as "gamification"—the use of game elements in non-game contexts—they aim to increase engagement and motivation, and strengthen the sense of community among Rambam's employees. A recent class on medical statistics was taught using lectures, followed by an "escape room" activity in which Rambam staff applied the information they had learned to prevent the simulated release of a deadly virus.

Key to Rambam's success is retention of excellent employees, avoiding burnout and providing staff with the tools to deal with the challenges of modern medical care. The L&D Department meets regularly with Rambam's leadership and heads of hospital departments, to identify challenges and find innovative solutions.

Kobi concludes, "We want to empower our employees to grow, to develop and to have an impact on the world. In today's competitive job market, employees are looking for more than just a paycheck. They want to work for organizations that provide opportunities to learn and advance in their careers. Investing in our employees' education is not just a good idea but essential for success."



COLLECTIVE ACCOMPLISHMENTS

A GLIMPSE INTO OUR INTERNATIONAL COLLABORATIONS

In many ways, Golda Meir, Israel's fourth prime minister, was inspirational; reflecting on her experience, she said, "I never did anything alone. Whatever was accomplished in this country was accomplished collectively."

So too, at Rambam. At the core of our values is the belief that professional collaborations are a powerful instrument for shaping the future of medicine. Academic and professional collaborations, and information sharing with diverse, globally esteemed, and local institutions across a wide range of medical disciplines, makes this possible.

PLANNING FOR THE NEXT GENERATION

Stanford University, California, (Stanford) is home to one of the best medical schools in the world. Following a visit several years ago, from Professor Lloyd B. Minor, MD, dean of Stanford University School of Medicine, intensive discussions and meetings with senior Rambam physicians took place and plans for collaborative opportunities with this distinguished institution were agreed upon.

The following year the new alliance led to the first joint symposium – "Planning for the Next Generation," and paved the way for strategic cooperation on the future of medicine. Personalized health care, Israel's health issues, closing gaps, and the complexities and challenges posed by the diverse local population were addressed.

Based on the "Stanford Biodesign for Innovation" model, which invites



► 2022 Rambam Stanford Medicine Symposium
Prof. Miki Halberthal,
Prof. Lior Gepstein,
Prof. Josh Makower
and Symposium
participants

BIOBANKING – SHARING IS CARING

Our biobank is one of the most advanced tumor biobanks in the country, and is part of Israel's national biobank. It facilitates clinical cancer research by sharing tissue samples with Israel's leading cancer researchers.

A collaborative study was conducted at the Montine Laboratory at Stanford. Neurodegeneration is one of Thomas Montine's, MD, Ph.D., research interests, and the Rambam-Stanford University combined study aims to develop personalized medicines for the treatment of Parkinson's patients with a mutated LRRK2 gene – a gene active in the brain. Cell samples are taken from

Parkinson's patients with and without the mutated gene and then stored in Rambam's Biobank.

Dr. Ilana Schlesinger, director, Movement Disorders Institute,

Department of Neurology, and Dr. Ronit Almog, director, Epidemiology Unit and Biobank then examine the cellular effect of innovative drugs developed to treat the disease. •



► Dr. Ronit Almog



passionate and committed student-entrepreneurs to improve healthcare through innovation, Biodesign Israel was established under the directorship of Dr. Yona Vaisbuch, attending physician, Department of Otolaryngology-Head & Neck Surgery. It is an ecosystem that brings industry, academia, and clinical organizations together to create unique healthcare innovation opportunities in Israel.

Our alliance with Stanford is clearly evident and is forging ahead. In June 2022, following the Covid-19 hiatus, another "Rambam Stanford Medicine Symposium" focusing on innovations in healthcare and digital

technologies was held at Rambam, and critical topics to set a foundation for future medical innovations that could improve healthcare worldwide were discussed.

Together with other Stanford officials, Josh Makower, MD, professor of medicine and bioengineering, chairman and co-founder of Stanford Biodesign, and Daria Mochly-Rosen, Ph.D., professor of chemical and systems biology at the Stanford School of Medicine, SPARK founder and co-director, attended the 2022 symposium. SPARK is a Stanford translational research program that advances academic discoveries from laboratory to patient care. •



PRECISION MEDICINE FIGHTS CANCER AT ITS CORE

Memorial Sloan Kettering Cancer Center (MSK) in New York is a world-renowned cancer treatment and research institution working to understand cancer's biology, develop new therapies, and improve patient outcomes.

Over the years, Rambam, MSK, and the Technion have galvanized a collaborative relationship in cancer research. The collaboration has grown to include joint translation research projects, and educational programs, combining computer science, big data, and computational biology.

One area of collaborative research between the three institutions is in the field of precision medicine - tailored to the individual's specific needs. One of the research projects emphasizes colorectal cancer in young patients. Another project is an engineered model for pancreatic cancer.

Our collaboration with MSK and the Technion is helping to advance cancer research and improve patient outcomes in Israel and worldwide.

In the last decade, as part of this collaboration, three world-class professors from MSK in the fields of EEG, endocrinology, and head and neck oncology and services were invited to Rambam. While here, they participated in conferences, meetings, and surgeries. We were honored by their visit and the fruitful exchange of ideas and concepts.

Rambam physicians have completed residencies and fellowships at MSK as part of our ongoing collaboration.

Dr. Tomer Charas, deputy director, Oncology Division, and director, Department of Oncology, completed his radiation oncology residency in

Israel. After that, he completed a radiation oncology genitourinary fellowship and a brachytherapy fellowship at MSK.

Dr. Israel Blumenfeld, attending physician, Department of Maxillofacial Reconstruction, graduated from the Hebrew University School of Dental Medicine in Jerusalem and then went on to specialize at MSK.

Dr. Michael Mullerad, deputy director of the Department of Urology, completed a two-year research fellowship at the Urology Department at MSK. There he researched uro-oncology, urological MRI imaging, and erectile dysfunction.

Amongst her outstanding

credentials, Professor Irit Ben-Aharon, director of the Division of Oncology at Rambam and a Fulbright Fellow, completed a fellowship at MSK focusing on gastrointestinal malignancies and young-onset cancer; both are research interests she continues to pursue. In November 2022, Ben-Aharon initiated and organized the Joseph Fishman Oncology Center's International Board Meeting. Professor Joachim Yahalom, radiation oncologist, from MSK sits on this Board. Delegates from two renowned institutions; the University Cancer Center in Leipzig, Germany, and the Tisch Cancer Institute at Mount Sinai Hospital, New York, also attended.

► Prof. Irit Ben-Aharon



- Members of the Israel delegation with their hosts at the 2nd Indo-Israel Trauma Course & Mass Casualty Scenario (MCS) Workshop in Varanasi



TRAINING TOMORROW'S LIFE-SAVERS

Rambam's international collaborative efforts span more than research activities and also focus on field practices.

Rambam is training tomorrow's life-savers - our status as a world leader in trauma care and the only Level 1 trauma center in Northern Israel has led to formidable international collaborations in Abu

Dhabi, India, and, most recently, Ethiopia.

The Teaching Center for Trauma, Emergency, and Mass Casualty Situations (MSC) at Rambam is internationally renowned and has dramatically contributed to the global body of knowledge in this field, and has trained over 3,500 participants from 83 countries.

To train their healthcare and administrative personnel, a Rambam team traveled to Abu Dhabi in December 2022 and India in February 2023. Trauma-related needs and nuances were addressed, including the latest trends, current practices, effective evacuation, best treatments, and interventions.



In Abu Dhabi, our delegation met with members of the Emirati health system and discussed ways to advance preparedness and management of their system. Relationships and clinical collaborations were bolstered. A joint agreement to establish an institute for emergency preparedness studies was signed.

The Institute of Medical Science at Banaras Hindu University (BHU) in Varanasi, India, hosted a three-day Indo-Israeli trauma course and MCS workshop at the BHU Trauma Center. The second of its kind in five years, this

event was a testament to the burgeoning bilateral relationship between Israel and India. Two of our Indian hosts received training at Rambam.

Prof. Miki Halberthal, Rambam's general director, Mrs. Gila Hyams, director of Nursing and director of The Teaching Center for Trauma, Emergency and Mass Casualty Situations, and Dr. Hany Bahouth, director, Division of Emergency Medicine & Trauma and medical director, The Teaching Center for Trauma Systems, Emergency, and MCS, initiated and participated in both events.

► Prof. Miki Halberthal, Gila Hyams and Dr. Hany Bahouth with members of the Emirati health system and course participants





◀ Dr. Yotam Shkedy teaching local teams in Ethiopia

TRAINING LOCAL TEAMS IN ETHIOPIA

In September 2022, a key Rambam mission led by Dr. Yotam Shkedy, attending physician, Department of Otolaryngology-Head & Neck Surgery, traveled to Ethiopia to perform complicated surgeries on locals with head and neck tumors. Besides treating and improving the lives of numerous patients, these surgeries served as a learning experience for local medical practitioners at St. Peter's Specialized Hospital, in Addis Ababa.

Shkedy usually performs this type of surgery with a highly-skilled, multidisciplinary medical team, but this time, the surgeries were performed without the assistance of his usual team. "Otolaryngology-head and neck tumor surgery can be complex and challenging, and not having the medical support we are used to was challenging – nevertheless, we were successful,"

Shkedy shares.

On a recent visit to Rambam, the director of St. Peter's Hospital, Dr. Matasebia Mespini, and the head of teaching and research, Dr. Ahado Warkana, signed a collaborative agreement with Rambam to facilitate trauma, emergency, and MCS training there and training in specialized surgical fields.

Collaborations with third-world and developing countries have far-reaching effects. We can close health gaps; much of what developed countries take for granted are the dreams of others.

Summarizing these achievements, Prof. Halberthal says, "We have shared our accumulated knowledge with colleagues in other countries for over two decades. These events are incredibly successful, and we look forward to similar opportunities in the future."



In light of the ongoing war in Ukraine and the large number of refugees fleeing the country, Rambam's Prof. Eyal Fruchter, Director of the Division of Mental Health was asked to conduct zoom training for therapists in Poland and Ukraine. This was followed by a weeklong visit to Poland where he instructed hundreds of therapists from Poland, Ukraine, and Latvia. Prof. Fruchter also met with refugees, community leaders and the health committee in the Polish parliament and discussed ways of dealing with Post Traumatic Stress Disorders.



◀ Prof. Eyal Fruchter in Poland

- ▶ The Rambam delegation; Dr. Nir Haya, Yael Moses, Dr. Danny Epstein, Dr. Maayan Ben-Sasson about to board their flight to Turkey



"OPERATION OLIVE BRANCH" - RAMBAM JOINED EARTHQUAKE RELIEF EFFORTS IN TURKEY

When the 7.5 magnitude earthquake rocked Turkey on February 6th, thousands were feared injured, trapped, and dead. In this desperate time, medical experts from Rambam joined the relief efforts and provided much-needed medical assistance and know-how.

In "Operation Olive Branch", the Israel Defense Forces Homefront Command dispatched a search-and-rescue team, as they did in the past in Haiti, India and many

other countries. Four Rambam specialist physicians and a nurse were part of a multi-disciplinary medical delegation from Israel's best hospitals, that established a field hospital and treated thousands of locals and Syrian refugees. Without hesitation; Dr. Amit Lehavi, attending physician, Anesthesiology and Recovery Room; Dr. Danny Epstein, attending physician, General I.C.U.; Dr. Nir Haya, director, Gynecology Unit; Dr.

Maayan Ben-Sasson, attending physician, Institute for Pain Medicine and nurse Yael Moses from the Nursing Administration, packed their bags and joined the mission.

The Israel delegation rescued victims from the rubble, and treated thousands at their time of need. Millions of people in Turkey and the region have been affected and Rambam is proud to have been part of this incredible lifesaving delegation

DEAR FRIENDS,

Looking around the Rambam campus, we see the love and support of our devoted friends from around the world who have facilitated our landmark development project.

We see the newly opened Eyal Ofer Heart Hospital, a nine-story state-of-the-art building, that once completed will house all cardiology and cardiac surgery services under one roof. The building reflects the most advanced healthcare design principles, serving as a model for specialized heart care facilities throughout the world.

On its right stands the Helmsley Health Discovery Tower, Rambam's new clinical research facility, which is currently in advanced construction stages. The Tower will be a home for innovative research projects, academic collaborations and a fertile ground for biomedical startups.

On the other side of the campus, stands the Herta and Paul Amir Internal Medicine Building. This remarkable 105,000 square foot building, has a huge place in Rambam's history. Built in 1938 it is Rambam's first building. Now, thanks to the magnanimous donation from Herta Amir, the renovation is underway, restoring it to the building's glory days.

Plans are underway for the establishment of the Azrieli Foundation Pediatric Rehabilitation Center in Ruth Rappaport Children's Hospital. The Azrieli Center will transform the lives of the children of Northern Israel.

Work is also continuing on construction of the ground, first and second floors of Joseph Fishman Oncology Center. Once completed, these facilities will make the building fully operational. The floors will house parts of the Radiation Therapy Institute, the Complementary Medicine Service and a much needed Oncology ER, made possible through a generous donation from Danny and Cathy Rosenkranz.

This year we also saw progress with the purchase of important medical devices. Udi Angel made a substantial donation for the refurbishment of the newly opened Rose and Raphael (Ram) Angel MRI Institute. With the purchase of two new MRI machines, we are able to provide better and more accurate MRI image testing and allow for advanced research projects, in collaboration with University of Haifa researchers.

These are just a few of our donors and we are grateful for all of you, our dear friends, who choose to support Rambam. We would not have been able to continue our incredible campus development journey, without you.

Finally, I would like to thank our devoted Friends Organizations around the world who continue to work day and night to raise awareness and funds for Rambam. The progress of these projects is a testament to your hard work and passion.

We have recently opened a Latin America desk and are optimistic as to the possibilities that lay ahead.

I invite you all to come to Rambam on your next visit to Israel, to see the development of the campus and to experience firsthand, Rambam's amazing energy.

With very warm regards,



Dr. Esty Golan

Managing Director of International Relations
and Chief of Strategic Development

WORDS FROM DR. ESTY GOLAN





STATEMENT OF ACTIVITIES

(IN MILLIONS OF SHEKELS)

INCOME:	2021	2022
MEDICAL SERVICES RENDERED	1,731	1,861
RESEARCH PROJECTS	59	62
OTHER	20	22
TOTAL	1,810	1,945
ALLOCATIONS:		
BUILDING CONSTRUCTION AND RENOVATION	9	20
MEDICAL EQUIPMENT	12	10
COMPUTERIZED EQUIPMENT	4	5
EQUIPMENT & SUPPLIES	3	5
TOTAL	28	40
EXPENSES:		
SALARIES	1,448	1,460
MEDICAL AND TECHNICAL EQUIPMENT	278	317
MAINTENANCE	150	162
OPERATING EXPENSES	210	205
GENERAL ADMINISTRATIVE EXPENSES	90	101
TOTAL	2,176	2,245

401 DONORS FROM
11 COUNTRIES



● 401 Total Number of Donors

● 141 New Donors

DONATIONS

\$22 Million

Total Amount Raised

\$35,685

Average Donation Amount

EMPLOYEES

6,263 EMPLOYEES

1,432 PHYSICIANS

2,041 NURSES

1,345 ALLIED HEALTH

1,445 HOUSEHOLD & ADMINISTRATION

RESEARCH

391 NEW RESEARCH

2,110 ACTIVE RESEARCH

PATIENT CARE

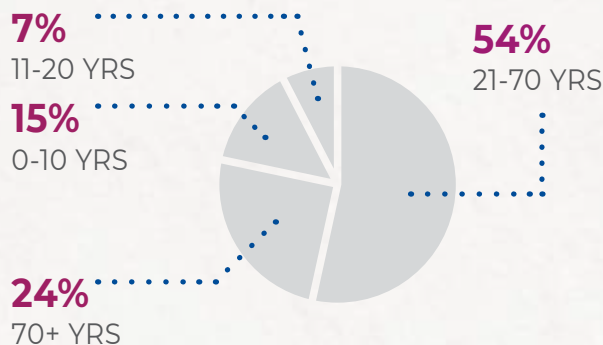
YEAR	2021	2022
ANNUAL ADMISSIONS	75,972	76,124
TOTAL PATIENT DAYS	336,995	337,275
EMERGENCY DEPARTMENT VISITS	147,424	156,962
OUTPATIENT VISITS	765,795	705,085
TOTAL PATIENTS TREATED	316,098	280,381
IMAGING PROCEDURES	294,174	301,991
LABORATORY EXAMS	14,051,985	14,261,946
SURGICAL PROCEDURES	56,623	58,093
DELIVERIES	4,563	4,184
AVERAGE OCUPANCY	86%	86%

IN NUMBERS

HOSPITALIZATIONS BY AGE

TOTAL NO.

76,124



OVERALL CAPACITY

1,000 HOSPITAL BEDS

- 39 MEDICAL INSTITUTES
- 65 INPATIENT WARDS
- 79 SPECIALIZATION UNITS
- 116 OUTPATIENT CLINICS



DR. OFRAT BEYAR-KATZ, MD, PhD

Director of the Cell Therapy Service, Institute of Hematology and Bone Marrow Transplantation
Principal investigator, Chimeric Antigen Receptor(CAR-T) Cell Laboratory, Clinical Research Institute at Rambam (CRIR)

Dr. Ofrat Beyar-Katz, hematologist, has authored multiple studies in cellular therapy. The use of cellular therapy in hematology, specifically CAR-T cells, is expanding, and Beyar-Katz and her team, Dr. Noga Setter Marco, head of the lab and Dr. Yulia Pollak, leading scientist are focused on improving the CAR-T platform for hematological cancers.

CAR-T cell therapy is a way to get immune cells or 'T cells' to fight cancer. First removed from the body, the T cells are engineered, expanded and then transferred back to the body, where they then locate and destroy cancerous cells.

Improving the CAR-T platform is partly addressed by enhancing CAR-T cell potency and reducing toxicity.

Diffuse large B cell lymphoma - cancer of the lymphatic system - is being treated successfully with CAR-T cells, but relapse is not uncommon. Beyar-Katz's laboratory generates CAR-T cells that target more than one antigen and incorporate cytokines (proteins) for cell persistence. Her research also involves the study of combinational therapies to enhance CAR-T capabilities.

Impaired bone marrow (BM) recovery is observed in approximately one-third of cases following the therapy. Thrombopoietin (TPO) - a cytokine, is mainly responsible for blood-platelet production, but more attention is drawn to the hematopoietic stem cells.

"Recently, our clinical experience in patients with prolonged BM aplasia following CAR-T cell therapy was published. The results are encouraging, with a rapid recovery of the BM cells following TPO receptor agonists.

We are analyzing the BM response to these agents in patients with BM aplasia following CAR-T treatment in order to uncover the mechanism of response and the influence on the hematopoietic stem cell niche.

"We are excited as there is still much to discover," Beyar-Katz concludes.



DR. LIOR LEV TOV, MD, BSc

Attending physician, Department of Neurosurgery
Associate member of CRIR and associate member at the Raz Laboratory
Cofounder, Director of Engineering, Biodesign Israel

Pouring a glass of water or getting up from a chair are seemingly simple tasks, but for patients with neurological disorders like Parkinson's disease, spasticity, or epilepsy, they can be incredibly challenging.

"Functional Neurosurgery refers to chronic neurological disorders interrupting a person's day-to-day function, and this is my specific area of interest. Tackling and treating these complex neurological and neurodegenerative diseases is one of the most challenging research fields today," Lev Tov explains.

Restoring a patient's quality of life is the goal and it is sometimes done by modulating brain activity.

Rambam's Neuromodulation Center, a national leader, serves as a base for our cutting-edge clinical and translational research. We collaborate with world-class scientists from the Technion, and Stanford Medicine who synthesize and amalgamate technical and clinical know-how, techniques, and practices.

We are currently conducting clinical trials; investigating minimally invasive surgical procedures to identify sources of seizures, brain mapping, and perform ablations, craniotomies, and deep brain stimulation (DBS).

Lev Tov continues to explain, "DBS is integral to our investigative research. A small device is implanted into the brain area associated with the patient's disorder. After recovery, another device is

implanted subcutaneously in the patient's chest (like a pacemaker) with which brain stimulation is controlled.

Our goal is to build a brain-to-computer interface; process the information we collect to genetically engineer and enhance brain circuits and develop designer drugs to influence brain activity.

Brain lesioning has been investigated for decades. Drug therapies replaced ablative procedures, and DBS followed. New research is underway using magnetic resonance-guided focused ultrasound.

"There are many promising technologies that will dominate functional neurosurgery, and our research will significantly impact the lives of patients with these disorders," concludes Lev Tov.





RAMBAM INTERNATIONAL RELATIONS

1



▲ L-R Prof. Rafi Beyar, Sandy Frankel, Ruth Frankel, Prof. Miki Halberthal, Dr. Esty Golan

THE SKY'S THE LIMIT

S andor (Sandy) and Ruth Frankel have an enduring love for Israel. In his capacity as a trustee of the Leona M. and Harry B. Helmsley Charitable Trust, the couple visited Rambam in November 2022. An exciting donor recognition ceremony honored the unprecedented philanthropic support of the Helmsley Charitable Trust for the Helmsley Health Discovery Tower. The unveiling of the Tower's signage was a spectacular event engineered and orchestrated from the 20th floor of the building. It was a balmy winter's day when Sandy and Ruth, along with Prof. Miki Halberthal, Prof. Rafi Beyar, Dr. Esty Golan, hospital executives, and the Department of International Relations, raised their glasses, gazed skywards toward the Tower's rooftop to witness the unveiling and this historic event.

The Tower is a stunning addition to the beautiful Haifa skyline. It is a focal point of Rambam's campus but more than that; the Helmsley Health Discovery Tower will facilitate cooperative efforts between Rambam physician-scientists and Haifa's leading academic centers and bio-medical industries. The Tower will symbolize and bring healing to Israel and the nations via new therapies and treatments enabled by ground-breaking research and innovation.

Rambam is grateful to Leona and Harry Helmsley, both of blessed memory, for their philanthropic vision and the Helmsley Charitable Trust for its benefaction.



▲ Ruth and Sandor Frankel standing in front of the Helmsley Health Discovery Tower, following the plaque unveiling



▲ The unveiling of the plaque



▲ L-R Dr. Esty Golan, Danny Rosenkranz, Cathy Rosenkranz, Prof. Miki Halberthal, Prof. Irit Ben Aharon, Dr. Alona Zer, director of Medical Oncology, Yuval Arbel, supervising engineer, Building Division, Roee Avraham, Operation Manager, Oncology Division

Kingston on Thames, United Kingdom, is home to committed Zionists and friends Cathy and Danny Rosenkranz. We welcomed them on November 10th, 2022. They attended the Joseph Fishman Oncology Center International Board Meeting and met with Rambam executives and the International Relations Department. Cathy and Danny visit Israel often and see their support for Rambam as a natural extension of their affinity for the country. The couple made a generous donation for the establishment of the Danny and Cathy Rosenkranz Oncology ER in the Joseph Fishman Oncology Center. Previously, they supported the D. Dan and Betty Kahn Foundation Center for Interventional Cardiology and Rambam's Covid-19 activities.



▲ Hilary Stone's family members with Dr. Esty Golan and Inbar Shahaf



▲ Scholarship recipients with Gila Hyams, director of Nursing and Prof. Miki Halberthal

In the fifth candle of Hanukkah, we held the annual Cheryl Spencer Nursing Award scholarship ceremony. We were thrilled that Mark Spencer, son of Irma z"l and Aaron, was able to join us via Zoom and addressed the audience. Irma z"l and Aaron established the scholarship program in memory of their daughter Cheryl Spencer z"l and 528 scholarships have been granted since then!

During the ceremony, following a donation from Mrs. Laura Simons, in honor of her niece Hilary Stone z"l, 14 oncology nursing scholarships were also distributed, in the presence of Mrs. Simons and family members.





▲ Carol and Jesse Schwartz and their family with Prof. Miki Halberthal and Dr. Esty Golan

As 2022 drew to a close, Rambam welcomed New York based friends and supporters Carol and Jesse Schwartz with their children and grandchildren. The family visited the Ruth Rappaport Children's Hospital, where a special digital play zone was named after Carol and Jesse. They later toured the 20th floor of Helmsley Health Discovery Tower, and the Sammy Ofer Fortified Underground Emergency Hospital. Jesse Schwartz is a member of the American Friends of Rambam Executive Board.



▲ L-R Prof. Miki Halberthal, Yevgenia Bogatov, Dr. Asaf Miller, Eli Booch, Dr. Esty Golan

Thanks to a generous contribution from the Edmond de Rothschild Foundation (Israel), the establishment of the Medical Intensive Care Unit at Rambam became a reality. On January 4th, Mr. Elli Booch, director of philanthropy at the Foundation, participated in the opening ceremony of the Medical Intensive Care Unit. The event was moderated by Dr. Netanel Horowitz, head of the Lymphoma Service in the Hematology Institute and head of Operational Hospitalization Logistics. Prof. Miki Halberthal explained the importance of the unit and thanked the foundation for its generosity and commitment. Dr. Asaf Miller, director of the Medical ICU, spoke on the history and development of this separate unit. Dr. Esty Golan, members of Rambam's administration, and staff from the Medical ICU, attended the ceremony. Booch thanked Rambam for their dedication and said, "The Foundation provided the money, Rambam the know-how."



▲ Moshe Korkus and Uniko staff with Prof. Miki Halberthal, Dr. Avi Weissman, Inbar Shahaf and Meital Nachmias from the International Relations Department.

Moshe Korkus, founder and CEO of the Haifa based Uniko Shipping and Logistics Ltd. and 20 members of the company visited Rambam in February. Moshe is a longtime friend and cherished supporter of Rambam. The group who met with Prof. Halberthal, Dr. Avi Weissman, Dr. Esty Golan and Inbar Shahaf, toured the Sammy Ofer Fortified Underground Emergency Hospital and Helmsley Health Discovery Tower. They concluded the visit by distributing gifts for the staff of Ruth Rappaport Children's Hospital.



▲ L-R Prof. Ron Robin, Herta Amir, Dr. Esty Golan

Turning 90 is a momentous milestone, and for our dear and long-standing friend Herta Amir, her 90th birthday was a celebration of love, respect, and appreciation from all those close to her. Dr. Esty Golan was honored to represent Rambam, and traveled to California to join the magnificent celebration. Herta, the devoted wife of Paul Amir z"l, is the mother of two exemplary daughters and a doting grandmother. She stands as a shining example to all of humankind. The entire Rambam family wishes you, Herta, continued good health and happiness. May you be blessed to see 120 years surrounded by those you love.



▲ L-R Avi and Roya Arshadnia, Dr. Alona Zer, Bitu Nuhavandi Morovati, and Sari Arshadnia

In memory of her late husband David z"l, Bitu Nuhavandi Morovati hosted a successful and emotional fundraiser on March 19th, to benefit the new Oncology Emergency Room at the Joseph Fishman Oncology Center. Family and friends gathered at the beautiful home of Avi and Roya Arshadnia in Los Angeles to create a meaningful legacy for David and help other cancer patients. Dr. Alona Zer, director of Medical Oncology, and Sari Arshadnia, director, Western Region, American Friends of Rambam, eloquently spoke about the cause.



NEW COLLABORATIONS IN BRAZIL



Rambam's newly established Latin America International Relations desk is forging ahead in creating and cementing new partners across the ocean. In March, Prof. Miki Halberthal, Prof. Rafi Beyar, and Monica Davidovich head of Rambam's Latin America International Relations desk traveled to Brazil, on two separate occasions, to meet with respected leaders of São Paulo's Jewish community and senior public healthcare professionals.

During an intensive three-day visit, Prof. Halberthal met with Rafael Erdreich, Consul at Israeli Consulate General in São Paulo. Discussions with Dr. Luis Zamarco, health secretary, City of São Paulo, and Dr. Jean Gorinchtejn, former health secretary of the State of São Paulo, proved fruitful. Dr. Pedro Loretto, director of Rede D'Or, Brazil's largest integrated healthcare network, is excited by Rambam's reputation and innovation. Dr. Claudio Lottenberg, president of the Council of Albert Einstein Hospital (AEH), Dr. Sidney Klajner, president of AEH, and Dr. Marcos Knobel, vice president of AEH, met with Prof. Halberthal to discuss potential collaborations. Halberthal celebrated Purim with Rabbi Noach Ginsburg, who leads multiple community projects."

Prof. Beyar participated in the meetings at AEH, the first hospital in South America to use the Corindus Vascular Robotic platform, invented by Beyar. At Instituto Dante Pazzanese de Cardiologia, Prof. Beyar delivered a riveting presentation on "Research and Innovation in Cardiology." At a meeting with Plinio Targa, CEO of Brain4Care, a pioneer in non-invasive intracranial pressure monitoring, Targa enthused that Rambam is an ideal environment for performing clinical trials on their new device. Prof. Beyar also represented Rambam at a joint University of Haifa and Rambam exclusive fundraising event hosted by Susy and Elie Horn in their home, for the benefit of the Helmsley Health Discovery Tower.

Latin America is a new frontier abounding with opportunities and possibilities. We are optimistic and excited for the future and everything we can achieve together. •



▲ Prof. Beyar at Dante Pazzanese Cardiology Institute



▲ L-R Prof. Miki Halberthal, Dr. Zamarco



▲ L-R Dr. Sidney Klajner, Prof. Miki Halberthal



▲ L-R Dr. Celso Bogoroty, Prof. Rafi Beyar



▲ Prof. Rafi Beyar and Mrs. Livia Bleier



▲ L-R Prof. Miki Halberthal, Mauricio Piccioto, Alberto Piccioto, Monica Davidovich



▲ L-R Ric Sheikman, Monica Davidovich, Abrao Lowenthal, Henry Lowenthal, Prof. Miki Halberthal, Sabina Lowenthal



A RAMBAM FIRST: DELEGATION TRAVELS TO POLAND TO PARTICIPATE IN "THE MARCH OF THE LIVING"

Every year, one week before Independence Day, Israel commemorates Holocaust Memorial Day. Over a 24-hour period, country-wide events take place, and at 10 a.m., as a poignant reminder, an air-raid siren wails, and a one-minute silence is observed.

In Poland, the Holocaust will never be forgotten. Since its inception in 1988, "The March of the Living" - an educational program, brings people worldwide to Poland, where they explore the physical and emotional remnants of the Holocaust.

On Sunday, April 16th, for the first time, a 48-person multicultural and multid denominational delegation from Rambam, led by Prof. Miki Halberthal, traveled to Poland to visit historic sites, participate in memorial ceremonies and join the silent, three-kilometer march between Auschwitz and Birkenau. Participating in the six-day mission were hospital workers from all divisions, from management to housekeeping and administrative and medical personnel.

The delegation visited the Warsaw Jewish Cemetery - the resting place of some 250,000 souls. Marked, unmarked and mass graves, remind us of the victims of the Warsaw Ghetto. A visit to the Treblinka death camp followed - more than 800,000 Jews were murdered there.

The delegation visited the city of Lublin, where Jews from Warsaw escaped. They saw Yeshivat Chachmel ('Wise Men') - a world-famous rabbinical high school there. Jewish life in the Lublin Ghetto ended when tens of thousands were transferred to the Majdanek death camp.



▲ Rambam delegation

The "March of the Living" was an emotionally charged event. Thousands of students, youth, and adults marched in the footsteps of our ancestors, along the railroad tracks, through the camps, and prisoner barracks. Each was in deep thought and with their own reasons for being there, but the march and the memorial service united them all.

Jews first settled in Krakow in the 13th century and lived in relative calm until the Second World War, when they were expelled and deported to extermination camps. The Rambam delegation visited Krakow, Zblyitowska Góra, and the nearby forest, a remote mass execution site.

Before returning to Israel, the delegation visited Łódź Ghetto, home to Poland's second-largest Jewish community. The inhabitants of the Łódź Ghetto lived in horrendous conditions and were forced to support the Nazi war effort through manual labor.

From Poland, Halberthal reported, "It is very moving to be a part of this event. Seeing it firsthand evokes deep feelings, but it is also exciting. The multid denominational Rambam delegation, from all hospital divisions, is gaining a new-found perspective on contemporary Israel, the sanctity of life, humanity's shared destiny, and the need for religious tolerance."



▲ Members of the Rambam delegation at the "March of the Living"



▲ Professor Michael Halberthal at one of the memorial sites the delegation visited in Poland



▲ Albert Frank
returning from
Japan after
World War II

ALBERT FRANK

A TRUE FRIEND OF THE STATE
OF ISRAEL AND RAMBAM



▲ L-R Lauren Rose and Donny Kohnke with their father, Albert Frank, in Ruth Rappaport Children's Hospital

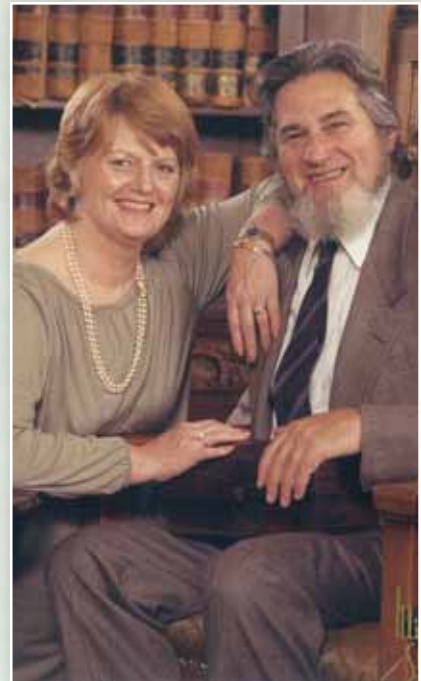
Albert (Al), a proud Chicagoan, was born into a family that placed Jewish tradition, generosity, and philanthropy on their list of priorities.

From an early age, Israel was close to Al's heart. As a young child, he went door-to-door to collect donations for the Jewish National Fund. After serving in Japan, in World War Two, he returned to the USA, where he attended The University of Illinois and participated in activities organized by 'Hillel', an on-campus Jewish organization. In 1948 Al donated \$25 to the "Hagana

Campaign" for the purchase of emergency vehicles during Israel's war of independence.

While still an engineering student and involved in pro-Israel activities, he met Patricia, who won his heart. These two devoted soulmates went on to enjoy 65 years of marriage. Together, they raised eight children. Their love for Israel swelled, and they visited the country frequently and were committed to many Jewish and Israel-related causes.

Rambam's friendship with Al and Patricia began in 2007 with the



▲ Patricia and Albert Frank

establishment of the Frank Family Nephrology Fellowship. It was followed by significant, ongoing support for Rambam's Hematology and Bone Marrow Transplantation Institute, and the Patricia & Albert Frank Acute Dialysis Unit. Al's most recent donation was for the establishment of the Patricia & Albert Frank Family Cardiology Inpatient Department in the Eyal Ofer Heart Hospital.

Sadly, Patricia passed away in 2016. The legacy of the relationship with Rambam continues with the family's second and third generations, both in Israel and USA.

In 2019, Al and Patricia, of blessed memory, were recipients of the Rambam Award in recognition of their lifetime commitment to the Jewish people, their unwavering love for Israel, and their close relationship with Rambam. Al's visionary and meaningful choice to support Rambam ensures that thousands of patients in Northern Israel benefit from his generosity and benevolence.

Al, we are most grateful and sincerely appreciate your friendship and generosity. The Rambam family does not take it for granted.



A FAMILY LEGACY

THE WOLFE FAMILY FROM DETROIT

Andi and Larry Wolfe and their daughter and son in law Ericka and Matt Thacker and their children Braedyn Rose, Judah, Rafi and Dalia Thacker, visited Rambam on January 1, to honor the legacy of Andi's parents, D. Dan and Betty Kahn.

We surprised them with a small opening ceremony of the D. Dan and Betty Kahn Foundation Center for Interventional Cardiology, in the Eyal Ofer Heart Hospital. It was a joyous celebration, which included a special video on the family's legacy, a plaque unveiling and a toast, made more meaningful as it took place on the first day of the new year – a time of hope, renewal, and purpose.

Following the ceremony, they toured the Center for Interventional Cardiology where they heard from Prof. Lior Gepstein, Director of the Cardiology Service and Dr. Arthur Kerner, Director of the

D. Dan and Betty Kahn Foundation Center for Interventional Cardiology. Later they visited, the D. Dan and Betty Kahn Foundation Pediatric Pulmonary Unit and met with the Unit's director Dr. Ronen Bar-Yoseph and former director Prof. Lea Bentur. The Wolfe's grandchildren tried out the Unit's special digital screening system and then then toured Sammy Ofer Fortified Underground Emergency Hospital. The family also visited the Helmsley Health Discovery Tower - the future home of the Andrea and Lawrence Wolfe Center for Translational Medicine and Engineering a Rambam and Technion alliance project.

Constant and devoted friends of Rambam, the Wolfe family's generosity allow us to further our mission to care for the sick and propel groundbreaking research.



▲ Andi and Larry Wolfe, Ericka and Matt Thacker, Braedyn Rose, Judah, Rafi and Dalia Thacker, with Prof. Rafi Beyar and Prof. Miki Halberthal watching the touching video.



▲ The Thacker family, enjoying the activities at the D. Dan and Betty Kahn Foundation Pulmonary Unit



▲ Andi and Larry Wolfe and their family with members of Rambam's administration



A FAMILY OF ANGELS

THE ANGEL FAMILY- AN ISRAELI SUCCESS STORY



▲ Udi Angel, Dr. Anat Kerem Angel and their family



▲ L-R Avi Angel, Amnon Angel, Dr. Esty Golan, Prof. Rafi Beyar, Prof. Miki Halberthal, Udi Angel, Dr. Anat Kerem Angel, Dr. Anat Ilivitzky, Dr. Ayelet Eran

February 14th – Valentine's Day - the day the Angels showed their love and appreciation for Rambam. Angel brothers, Udi, Avi, and Amnon, family members and friends, participated in the inauguration ceremony of the recently renovated MRI institute named after their parents- The Rose and Rafael (Ram) Angel MRI Institute. The project was made possible by the family's extreme generosity, emphasizes patient accessibility, keeping pace with Northern Israel's growing population, and meeting the soaring demand for this essential medical imaging tool.

A true friend, Udi's relationship with Rambam began in 2007. He has generously supported many significant projects, including the purchase of critical, life-saving medical equipment realized during the pandemic. Their contributions have also touched oncology, hematology, orthopedics, maternity, and many of Rambam's other patients. Thanks to the family's philanthropic commitment, a

much-needed pre-operative reception clinic was also established.

Dr. Ayelet Eran, Director of the MRI Institute, led the ceremony in the Gredinger Hall at the Ruth Rappaport Children's Hospital. Prof. Miki Halberthal, Prof. Rafi Beyar, Dr. Esty Golan, Dr. Anat Ilivitzki, director of the Medical Imaging Division, and hospital staff welcomed Udi, his wife, Dr. Anat Kerem-Angel, brothers Avi and Amnon, family members, and friends.

At the ceremony, Udi reflected on Rambam's achievements

and how the campus is woven into every juncture of his life. "On behalf of my brothers, I thank Rambam for the opportunity to commemorate our parents and their work in this important way," he concluded.

The MRI institute celebrates a unique partnership between Rambam and the University of Haifa. The three state-of-the-art MRI devices housed therein are also used in collaborative brain research.

The generosity of the Angels is deeply appreciated by Rambam's staff and patients. •



▲ L-R Udi, Amnon, Avi, Dr. Esty Golan, Prof. Miki Halberthal



RAMBAM
Health Care Campus

CREATING THE FUTURE OF MEDICINE

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

Purchase of Equipment:

- ▶ Two new operating rooms in the Eyal Ofer Heart Hospital
- ▶ The Azrieli Foundation Pediatric Rehabilitation Center

Construction:

- ▶ Heart Failure Center
- ▶ Eye Institute in Helmsley Health Discovery Tower



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