

RAMBAMHCC



80 YEARS OF...

ANNUAL  
REPORT  
2017

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***Pictured on cover:***

Prof. David Ehrlich (*l*) and Prof. Ori Better, inducted into the Rambam Leadership Circle in 2017, with Nurse Ilana Ungerman-Tamir. *Photo: December 1965*

1940



1945

1938-48

Dr. John Herbert Thompson  
First Hospital Director



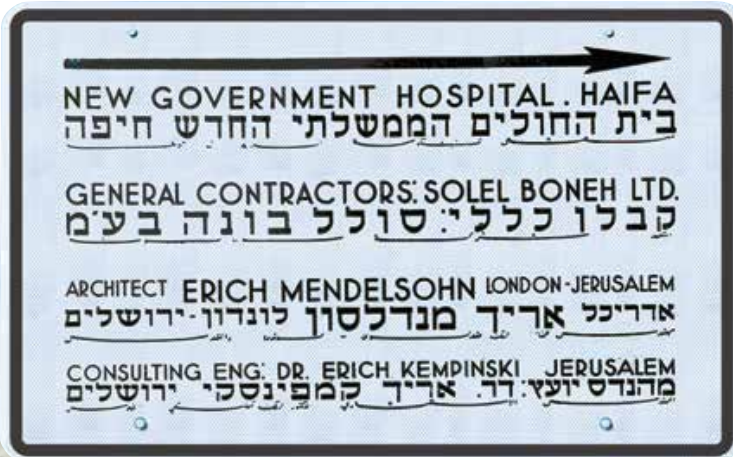
The graphic relief adorning the hospital's first building in 1938 was designed by the world-renowned British sculptor and type designer Eric Gill

# 80 YEARS OF EXCELLENCE, INNOVATION AND HUMANITY

1938

December 22  
New Government Hospital  
Inaugurated in Bat Galim, Haifa

# '38



German Jewish expressionist architect **Erich Mendelsohn**



1950

1955



1948-63

Dr. Raphael Gjebin  
Second Hospital Director



1948-58

Elsa Yellin - First Head Nurse



1948  
School of Nursing Established,  
Headed by Elsa Yellin



1952  
Government Hospital  
Becomes Rambam



1948  
Following an attack  
on Kibbutz Gesher  
it was decided to  
evacuate all the  
mothers and  
children to the  
Carmelite convent  
next to the hospital



'48

Declaration of  
Independence of  
the State of Israel



1960

1965



1958-80

Rosa Haran - Second Head Nurse



1962  
New Outpatient  
Clinics Building  
Opens



1965  
First Deceased  
Donor Kidney  
Transplant in  
Israel



1965  
New Semilunar Model  
for Cardiac Intensive  
Care—First in the World  
at Rambam





1970

1975



1963-75

1975-79

**Dr. Moshe Lazar**  
Third Hospital Director

**Professor Reuven Eldar**  
Fourth Hospital Director

1967

**First Regional Installation of  
Hyperbaric Pressure Chamber**



1969

**Establishment of the  
Faculty of Medicine**



# '73

**Yom Kippur War Forces  
Early Occupancy of New  
Hospitalization Building**



1978

**Advanced Radioisotope  
Imaging Comes to Rambam**



# '67

**Rambam Treats  
Soldiers Injured in  
Six Day War**





1979-81

Professor Leon Epstein  
Fifth Hospital Director



1981-86

Professor Joseph Brandes  
Sixth Hospital Director



1980-83

Mazal Lubezki - Third Head Nurse



1982

The first Rambam logo

1983

New Protocol Developed  
for Treating Crush  
Syndrome—Now Used  
Worldwide



1982

The Medical Research Fund  
(Rambam Health Corporation)  
is Established



1985

First *In Vitro* Fertilization  
in the Region in Rambam's  
Division of Obstetrics  
and Gynecology



1980

First  
Otolaryngological  
Laser Surgery  
in Israel

1978

Rambam's First Computed  
Tomography System Installed



1986

The Menashe Meyer  
Children's House  
(Meyer Children's  
Hospital) Opens



'82

Rambam is the  
Designated Hospital for  
Casualties During the  
First Lebanon War



1985



1990

1995



1986-2005

Professor Moshe Revach  
Seventh Hospital Director



1983-97

Miriam Hasharoni - Fifth Head Nurse

1992

First Stent  
Catheterization in  
the Department of  
Cardiology

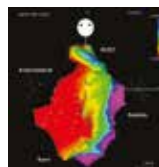


1999  
Teaching Center for Trauma,  
Emergency, and Mass Casualty  
Situations (MCS) Opens



1995

Rambam Works  
with Biosense to Develop  
Cardiac Mapping System



1998

Discovery of Human  
Embryonic Stem Cells



'90

Rambam Patients & Staff  
Prepare for Chemical Warfare  
During the Gulf War



1994

First Trauma Treatment  
Center in Israel  
Opens at Rambam



1997

Discovery of DNA  
Markers that Identify  
the Jewish Priesthood







1997-2015

Dr. Hanna Admi - Sixth Head Nurse

2000

Development of Computerized Medical Records System—Prometheus

2001

GE Healthcare's New PET-CT Imaging System Developed at Rambam



2002

World's First Beating Heart Cells from Embryonic Stem Cells



Collaboration With Given Imaging to Develop a Gastrointestinal Camera



2000

Vision of Adam (Humanity)





2005  
Rambam changes its identity  
from Medical Center to  
Health Care Campus



2005  
Rambam Opens 12 New  
Fortified Surgical Suites



2008  
Implementing the  
'Vision of Adam'

2007  
Establishment of First  
Competitive Research  
Programs for Clinician  
Scientists—Atidim  
& Ofakim

2008  
Clinical Research  
Institute at  
Rambam (CRIR)  
Established



2009  
Fortified  
Emergency  
Department  
Opens

# 2006

Hospital Under Fire  
The Second Lebanon War





2006-PRESENT

Professor Rafi Beyar  
Eighth Hospital Director



2010  
The First Rambam Summit  
& Rambam Award



2010  
Rambam Maimonides Medical  
Journal is Launched



2011  
Da Vinci Robotic  
Surgical System  
Installed



**RAMBAM**  
Health Care Campus

Creating the future of medicine.

2013  
Rambam  
graphic identity  
is restructured



2012  
Rambam MedTech Ltd.  
Established



2013  
MRI-Guided  
Focused  
Ultrasound for  
Treatment of  
Essential and  
Parkinson's  
Tremor-First  
in Israel



2014  
The Sammy Ofer  
Fortified  
Underground  
Emergency  
Hospital Opens



National Biobank  
at Rambam  
Inaugurated



2014  
The Ruth Rappaport  
Children's Hospital Opens





**2015 - PRESENT**

Gila Hyams - Seventh Head Nurse

2015  
Rambam Knowledge  
Center Established



2017  
Rambam Receives JCI  
Accreditation with  
Honors

2016  
The Joseph Fishman  
Oncology Center  
Opens



2017  
Groundbreaking for  
the Eyal Ofer Heart  
Hospital

# 2018

Cornerstone Laid for  
Helmsley Health Discovery Tower



2015  
MindUp Incubator  
Established



Israel  
Celebrates  
**70**

Rambam  
Celebrates  
**80**



80 YEARS  
OF EXCELLENCE, INNOVATION  
AND HUMANITY

## Dear Friends

If I had to choose a single word to describe 2017 at Rambam, it would be “synergy.” This was the year that Rambam joined forces with a number of key strategic partners to leverage our collective capacity for transformative health care.

The year began with the signing of a letter of understanding between Rambam and the University of Haifa, creating a unique partnership between the two institutions to jointly establish a high-rise tower for research and education on Rambam’s west campus. It ended with the landmark decision by The Leona M. and Harry B. Helmsley Charitable Trust to bring this project

to fruition through the establishment of the Helmsley Health Discovery Tower: a one-of-a-kind, multidisciplinary hub for healthcare, medical research, education, and innovation.

Strategically positioned at the heart of a dynamic array of medical research and development activities, the Helmsley Health Discovery Tower will have a profound and transformative effect on the world of medicine. It represents a unique collaborative model that is virtually unknown in Israel. Three distinct institutions – Rambam, University of Haifa and the Technion – will have clinical, educational, and research departments housed within its walls, facilitating collaborative opportunities via the surrounding clinical and innovation ecosystem. Additional facilities within will be dedicated to the hi-tech medical



Professor Rafi Beyar

Eyal Ofer and Prof. Beyar  
breaking ground for the  
Eyal Ofer Heart Hospital



industry, enabling on-site consultations and cooperation with clinical and research partners. The potential impact of such a critical mass of top level academic and industry research activities cannot be overestimated. As Haifa mayor Yonah Yahav observed, the Helmsley Health Discovery Tower will position Haifa as a center for life science and biotechnology innovation and industry for all of Israel.

In another major development this year, ground was broken for the new Eyal Ofer Heart Hospital. Mr. Ofer, his wife Marilyn and daughter Olivia, attended the ceremony marking the continuation of this historic partnership between the Ofer family and Rambam. We have worked closely with the Eyal and Marilyn Ofer Family Foundation on the plans for the new hospital, towards a projected completion date in early 2019.

The Eyal Ofer Heart Hospital will provide Rambam with the most advanced means to treat and prevent heart disease, the leading cause of morbidity and mortality in the Western world. Embracing the broadest of mandates for promoting heart health, the Eyal Ofer Heart Hospital will provide advanced cardiac care, support cutting-edge research, and offer risk-reduction programs to promote a healthier Israeli society. We especially appreciate the astute guidance of Olivia Ofer, whose commitment to realizing the vision of the planned hospital is exemplary.

The Joseph Fishman Oncology Center is bringing the latest developments in cancer treatments to Rambam's patients, with new linear

accelerators that support precision treatments, with minimal side effects, to our cancer patients. We expect the linear accelerators project to be completed during 2018. Patients at the center are also benefiting from the extensive clinical collaborations with the Technion Integrated Cancer Center (TICC), under the leadership of Nobel laureate Professor Aaron Ciechanover.

In early 2018, Rambam marked the passing of our beloved friend and benefactress, Ruth Rappaport. The patients and staff of Ruth Rappaport Children's Hospital were thankful to have had Ruth and her family here in 2017 to



The Rambam family says  
goodbye to a loyal and  
visionary friend.

Ruth Rappaport of  
blessed memory

celebrate her 93rd birthday together. Her memory will be blessed and her name will always be associated with loving care for the health and wellbeing of the children of northern Israel.



Architectural rendering of  
Helmsley Health Discovery Tower

Among the many clinical developments over the year, we marked the opening of the Herta and Paul Amir Neurosurgery Intensive Care Unit, which is now fully occupied. We also opened a new Diabetes and Obesity Center of Excellence which incorporates a promising new approach for treating patients of all ages, ensuring a personalized and uninterrupted continuum of care. Rambam's excellent Department of Nephrology will be enhanced thanks to a gift from the Harvey and Gloria Kaylie Foundation to create the Kaylie Kidney Health Center of Excellence.

The historic dialogue between Israeli academics and the editor-in-chief of *The Lancet*, Professor Richard Horton, initiated by Rambam in 2014, reached a significant milestone in May 2017 with the publication of a special *Lancet* edition highlighting "Health in Israel." The special issue

places special focus on Rambam's and Israel's contributions to medical excellence and peacebuilding through healthcare.

Professor Horton was one of the notable guests at the 2017 Rambam Summit, along with Jeffrey M. Drazen editor-in-chief of *The New England Journal of Medicine*, both of whom received the 2017 Rambam Award. Also at the summit, guests were intrigued to hear insights from another distinguished guest and 2017 Rambam Award recipient, former Ambassador to Israel, Dennis Ross, on his experiences of the Middle East peace process during his tenure.

On the research front, Rambam MedTech, Rambam's technology transfer unit, continues to help our nurses and physicians develop their innovations into commercially viable products. During 2017, Rambam researchers were awarded a number of major national and international research grants, including grants from the Chief Scientists of the Ministries of Health and Industry.

We continue to serve as a clinical partner for leading medical technology innovators, including InSightec, with its revolutionary MRI-guided Focused Ultrasound technologies. The company's non-invasive neurosurgical therapy to control Parkinson's and essential tremor has been used at Rambam to treat some 65 patients from around the world, with amazing results.





we thank all our friends around the world for being part of our vision and helping us to achieve our missions.

This past year will be remembered as the conjoining of diverse stakeholders for the advancement of medical care and research to the benefit of the people of our region, our nation, and our world—a representation of synergy at its very best.

The year 2018 marks Rambam's eightieth anniversary. Looking at the original and beautiful stone monastery where it all started, and the modern, vibrant campus that has grown up around it, one cannot help but wonder what will be achieved by Rambam's centennial. But of one thing I am convinced: with the synergy and support of our partners, no dream is too small.

Yours,

**Rafi Beyar**, MD, DSc, MPH  
*Director & CEO*  
 Rambam Health Care Campus

This past year, the MINDUp Digital Medicine incubator, in which Rambam is a clinical partner, moved to its new facility in the Haifa Life Sciences Park. The incubator has already evaluated some 250 startups in the field of digital health, and accepted six of them, while another four are in the application process. The companies offer technologies for pain relief, neurological disorders, and respiratory monitoring, among others.

As the major teaching hospital for the Technion's Rappaport Faculty of Medicine, we continue to attract bright young physicians and scientists. As they finish medical school, many choose to stay on as residents, some as part of an MD-PhD program. The new energy, talent, and commitment these young residents bring to Rambam contributes to our vitality and ability to stay abreast of new developments.

As much as Rambam expands and offers new services, the demand for them grows even faster. In spite of the challenges, we are maintaining the momentum that has driven one of the most remarkable development plans of any hospital in Israel's history. We are gratified to see how our energy and enthusiasm inspire others, and

**RAMBAM 80**  
 Health Care Campus  
 Eighty Years of  
 Excellence, Innovation  
 and Humanity

## COMING TO RAMBAM

# “felt like coming home”

### PROFILE

When **Dr. Eitan Abergel**, Director of the Invasive Neuro-Radiology Unit, came to Rambam from France for a six-month professional visit, he never imagined that the course of his professional career, and his entire life, would drastically change.

#### **What did you find when you got here?**

At Rambam I met with Professor Beyar who told me they were looking for someone in interventional cardiology. I liked what I saw here and everyone was so friendly, I immediately felt right at home. Professionally, I was impressed with the cutting edge technologies they were using. After finishing my six months, I decided to stay for six months more. When the nurses heard that I am single, one of them introduced me to her cousin, who is now my wife.

#### **And then you made a radical change.**

I came to Rambam as an interventional cardiologist specializing in angioplasty to

open blocked coronary arteries. At that time, mechanical intervention was being experimentally applied in the field of neuro-radiology to open blocked brain vessels during stroke. Prof. Beyar wanted to reinforce this experimental thrombectomy approach at Rambam. When he couldn't find anyone in neurology willing to learn the new technique, he asked if I was interested. My entire professional identity was as a cardiologist, and it wasn't an easy decision to switch careers. I discussed the issue with my wife, and decided to go ahead. The next step was to find a place to train. Until now, this type of procedure was exclusively performed by either radiologists, neurosurgeons




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“It was actually my father’s idea for me to come work in Israel,” Dr. Abergel admits. “He is Israeli and my mother is French. I was born in Israel but we moved to France when I was 11, and I finished school and medical school in Lyons. After my residency and fellowship in interventional cardiology, I decided to take a break. That’s when my father suggested I come to Israel.”

or neurologists. I applied to 37 hospitals in France, but no one wanted to accept a cardiologist. Finally, a hospital in Montpellier agreed to train me and we moved to France for one intensive and amazing year. I trained from 7 AM to 8 PM every day, and worked on the weekends to maximize my time there.

**Your career change was a radical departure from convention.**

Making the transition from cardiology to neurointervention is entirely unique. Only a few people in the world have done it and I’m one of them. There were many in Israel who objected, including the neurointerventionalists. Yet Prof. Beyar fully supported me.

**And when you returned?**

Performing this procedure is very difficult, so I was under a lot of stress. But now, after a year and a half, we are the largest center in Israel offering this type of stroke treatment. In 2017, around 400 thrombectomies were performed in nine hospitals in all of Israel. And 107 of them – 25% - were performed here at Rambam.

We are available to treat stroke patients 24/7. Now, on the weekends when we visit my wife’s family, we always take two cars. Because I never know when the call that I’m needed at the hospital will come.

# Helmsley Health Discovery Tower

With support from The Leona M. and Harry B. Helmsley Charitable Trust, a unique partnership is scaling the heights of healthcare innovation.

Israel's unique status as "the Startup Nation" is now legendary. But experience has shown that having good ideas is not enough, and that creativity and innovation need a supportive environment to truly thrive. This is the vision behind the new *Helmsley Health Discovery Tower*.

## **Helmsley Health Discovery**

**Tower** is an entirely unique concept – a world-class hub of innovation in life sciences, public health, biomedical engineering, and pharmaceutical research, shared by three partner

institutions: Rambam, University of Haifa and the Technion. Within the planned 20-story structure, space will be allocated to each of the partners for their dedicated healthcare, teaching and research activities. Furthermore, it will provide a fertile environment for medical innovation development by industry startups.

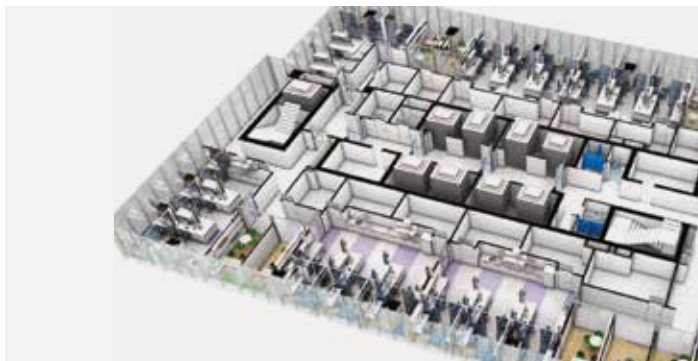
Mr. Sandor Frankel, a trustee of The Leona M. and Harry B. Helmsley Charitable Trust, observed that the new tower "... will improve access to health care in the northern periphery of Israel,

strengthen the region, and support greater collaboration among Rambam, University of Haifa, and the Technion—three of Israel's great institutions—as well as with the medical and biotech industry." The project's shared mission of excellence in healthcare and promoting medical innovation is consistent with the goals of the Helmsley Charitable Trust, to strengthen healthcare services and contribute to Israel's scientific, technological and medical leadership.

Israel's Minister of Finance, Mr. Moshe Kahlon, celebrated the new initiative as a flagship

A NEW PARADIGM FOR  
BIOTECH DISCOVERY

TWENTY FLOORS



project for the city of Haifa and northern Israel. And Prof. Rafi Beyar, Rambam's Director and CEO, noted that the new project will enable us "to help not only the people of Israel but to impart critical knowledge across the globe."

### **A Dynamic Hub for Medical Innovation**

The tower's ground floor will feature a Congress and Exhibition Center for the use of all the tower's occupants. Two floors of the Helmsley Health Discovery Tower will house laboratories for the Clinical Research Institute at Rambam (CRIR) working in the fields of hematology, nephrology, cardiovascular medicine, gastroenterology, brain and neuroscience, cancer, diabetes, obesity and endocrinology. The five floors above CRIR will accommodate Rambam's Ophthalmology Institute, Gastroenterology Institute and School of Graduate Dentistry.

University of Haifa will occupy six floors with research centers in public health, evidence-based nursing, and health and natural sciences. The Technion's Faculty of Medicine will use two floors for a new multidisciplinary medical engineering center, and the top four floors will house an "Innovation Center," with facilities where Rambam physicians and local and international biomedical startups can test and develop their commercially viable ideas.

### **Creativity, Collaboration and Convergence**

Helmsley Health Discovery Tower has been designed to create a fertile microcosm where the most creative ideas can be conceived and developed. The proximity of professionals from different medical disciplines will foster the kind of dialogue that can spark game-changing breakthroughs. And the convenient access

to Rambam's clinical departments will facilitate collaborations to develop and test new medical innovations, to benefit patients at Rambam and around the world.

These days, Israel's biomedical innovation



ecosystem is thriving, and Rambam is a key player in developing new medical technologies. Rambam offers research grants and the support of Med-Tech, the technology transfer unit established to help Rambam's physicians and nurses develop their promising ideas. Through its partnership in the digital medicine incubator, MindUP, Rambam is collaborating with IBM, MedTronic, Pitango Venture Capital and Impact First Investments to develop the next generation of digital medical applications

and wearable medical devices. At the heart of this dynamic medical innovation cluster, the Helmsley Health Discovery Tower will secure Rambam's position as a basic and clinical research leader, in Israel and worldwide.

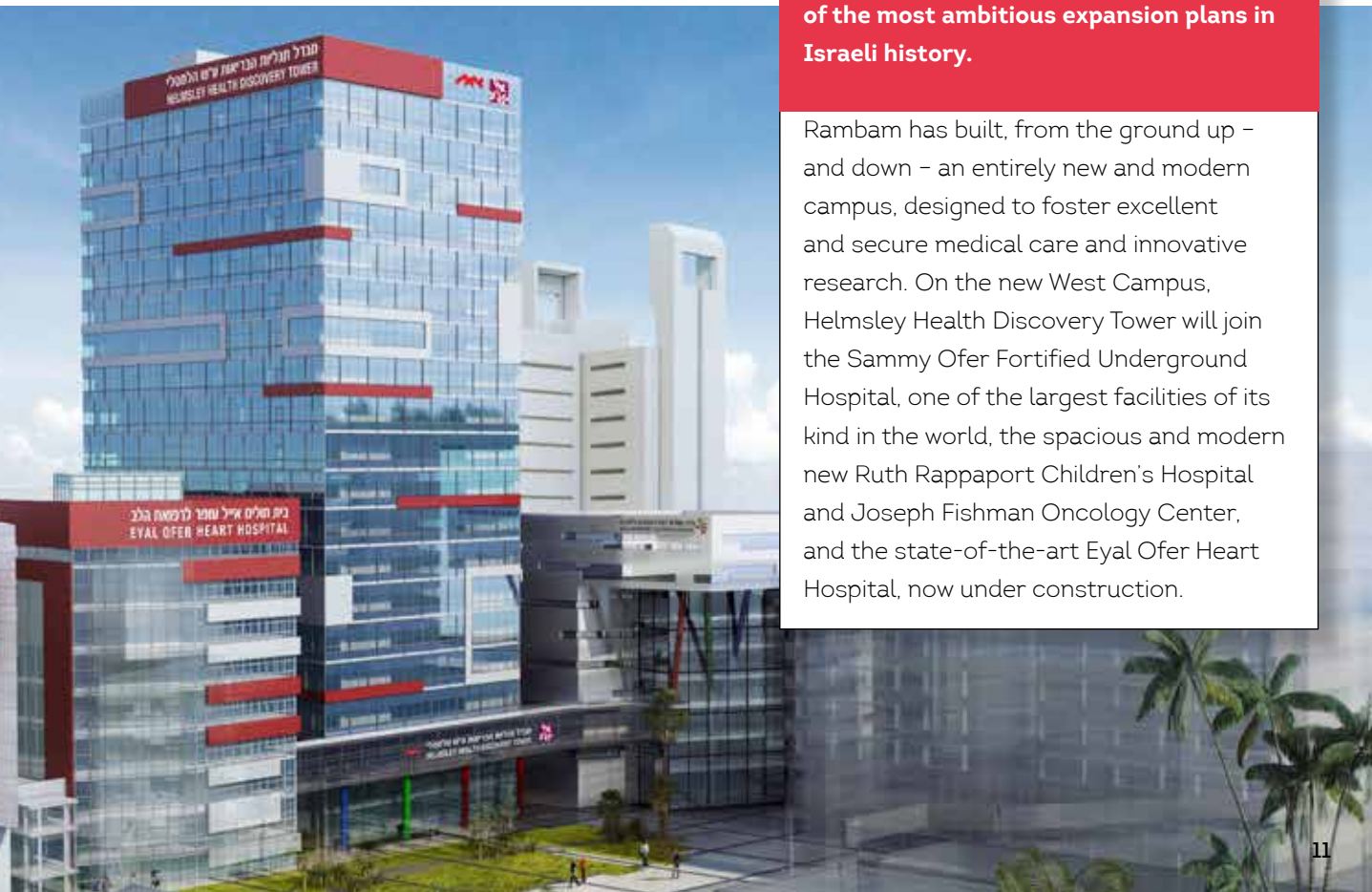
### **A Partnership Based on Shared Vision**

Mr. Sandor Frankel, a Trustee of the Helmsley Charitable Trust, and his wife, Ruth, are dedicated and passionate supporters of Israel. The vision and support of the Helmsley Charitable Trust

was also instrumental in developing Rambam's Sammy Ofer Fortified Underground Hospital. In recognition of their extraordinary commitment to improving healthcare for the people of Israel, and especially those living in Israel's periphery, The Helmsley Charitable Trust and Trustee Sandor Frankel received the 2016 Rambam Award.

Helmsley Health Discovery Tower will be erected on Rambam's West Campus, **one of the most ambitious expansion plans in Israeli history.**

Rambam has built, from the ground up – and down – an entirely new and modern campus, designed to foster excellent and secure medical care and innovative research. On the new West Campus, Helmsley Health Discovery Tower will join the Sammy Ofer Fortified Underground Hospital, one of the largest facilities of its kind in the world, the spacious and modern new Ruth Rappaport Children's Hospital and Joseph Fishman Oncology Center, and the state-of-the-art Eyal Ofer Heart Hospital, now under construction.



# READY, SET, HEAD UNDERGROUND

Imagine the city of Haifa is under missile attack. For Haifa residents and Rambam staff, this nightmarish scenario is still fresh in their memories from the summer of 2006, when missiles launched from Lebanon wreaked havoc across the city.

But now imagine that some of those missiles are bearing chemical warheads...







“Protecting our patients and healthcare providers under any circumstances is imperative. We are grateful to our supporters who share this commitment, and who enabled us to build and outfit this emergency facility that is unique in the world.”

- Prof. Rafi Beyar  
 Director and CEO  
 Rambam Health Care Campus



**I**n October 2017, Rambam held a major drill simulating a non-conventional weapons attack, in collaboration with the IDF Home Front Command, Magen David Adom, and various government ministries. Hundreds of emergency

hospital personnel, emergency medical teams and soldiers took simulated roles in the drill.

For Rambam, this was an opportunity to practice converting the Sammy Ofer Fortified Underground Emergency Hospital from a parking lot into a fully-functioning treatment facility, ready to admit waves of severely injured military and civilian casualties. And for all involved, there was satisfaction in its outcome.



## **RAMBAM MEETS JCI GLOBAL HEALTH STANDARDS**

**I**n 2017, Rambam Healthcare Campus was accredited by the Joint Commission International (JCI), an accrediting organization for health care institutions around the world, based on compliance with best practices in quality and patient safety. A team of JCI inspectors spent five intensive days investigating the healthcare campus before concluding that Rambam meets their stringent international standards.

رامبام

مركز طبي أكاديمي  
مُعتمد من قبل اللجنة  
(JCI) للجودة والسلامة

**RAMBAM**

**An Excellent Academic Medical Center  
Joint Commission International (JCI)  
Accredited for Quality and Safety in Medicine**



L-R: Accreditation team members Koby Shir Moskowitz, Hagar Baruch, Dr. Fuad Basis

## RAMBAM ACCREDITED 2017

Receiving accreditation from JCI on the first round is notable for a large government hospital, and **Koby Shir Moskowitz**, Rambam's Operation Manager for Medical Technology and Emergency, and a member of the accreditation team responsible for the process, took special pride in the achievement.

"Securing accreditation is one thing," Koby explains. "But maintaining it is another. We have had to instill an entirely new organizational culture, from the kitchens and laundry rooms to the operating suites. And making sure that the staff receives periodic training and is kept up to date on new standards is an ongoing commitment. We have created a website, newsletter and even an app for smartphones, to keep awareness high."

## Dr. Shlomit Strulov Shachar

Recipient of the 2015 Jacob and Gitla Zukier Oncology Fellowship

& a Horizons Award for 2017

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### RESEARCH HIGHLIGHT

CUSTOMIZED  
CANCER  
TREATMENT  
FOR OLDER  
PATIENTS

**62**  
IS THE AVERAGE  
AGE AT WHICH  
BREAST CANCER  
IS DIAGNOSED

**1 IN 3**  
CANCERS IN WOMEN  
IS BREAST CANCER

BREAST CANCER IS  
THE MOST COMMON  
CANCER AMONG  
WOMEN IN THE  
UNITED STATES

MOST WOMEN  
WHO SUCCUMB TO  
BREAST CANCER  
ARE  
**OVER 65**

### WHAT ARE THE HORIZONS (OFAKIM) RESEARCH AWARDS?

**Horizons Awards** are given to Rambam physicians at the beginning of their careers, who are poised to open new horizons in their pre-clinical and clinical research. The award provides funding to pursue promising lines of research.

Dr. Shlomit Strulov Shachar questioned why older adult patients were receiving the same chemotherapy dosages as young adults, often to their detriment. As a Zukier Oncology Fellow, she was able to pursue this line of inquiry by conducting a retrospective study on the outcomes of older cancer patients based on their body muscle mass/quality. The findings from that study, published in major

**I**n her work as a medical oncologist, Dr. Shlomit Strulov Shachar questioned why older adult patients

medical journals, have been pivotal in catalyzing a shift towards more personalized cancer treatments for older patients.

In 2017, Dr. Strulov Shachar received a Horizons Grant from Rambam to conduct a prospective cohort study on muscle mass and other geriatric assessment factors, aiming to identify key criteria for optimizing personalized cancer treatments. She has been invited to speak at the US National Institute of Health, and is planning pharmacology collaborations to develop new cancer dose criteria based on body composition metrics.

The combination of an aging population with an increased incidence of breast cancer and other comorbidities related to aging makes management of this expanding group of older patients a major challenge.

Treatment of breast cancer in the elderly is especially challenging as older adults, even those with normal performance status, are more likely to have physiological changes, functional deficits, comorbid medical conditions, and polypharmacy, which increase the risk of treatment toxicity.

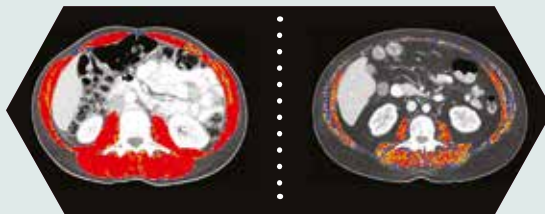


**WHAT ARE THE ZUCKIER FELLOWSHIPS?**

**Jacob and Gitla Zukier Oncology Fellowships**

subsidize clinical fellowships in leading overseas medical institutions for doctors from the Department of Oncology at Rambam

**BODY COMPOSITION AND TOXICITY IN EARLY BREAST CANCER**



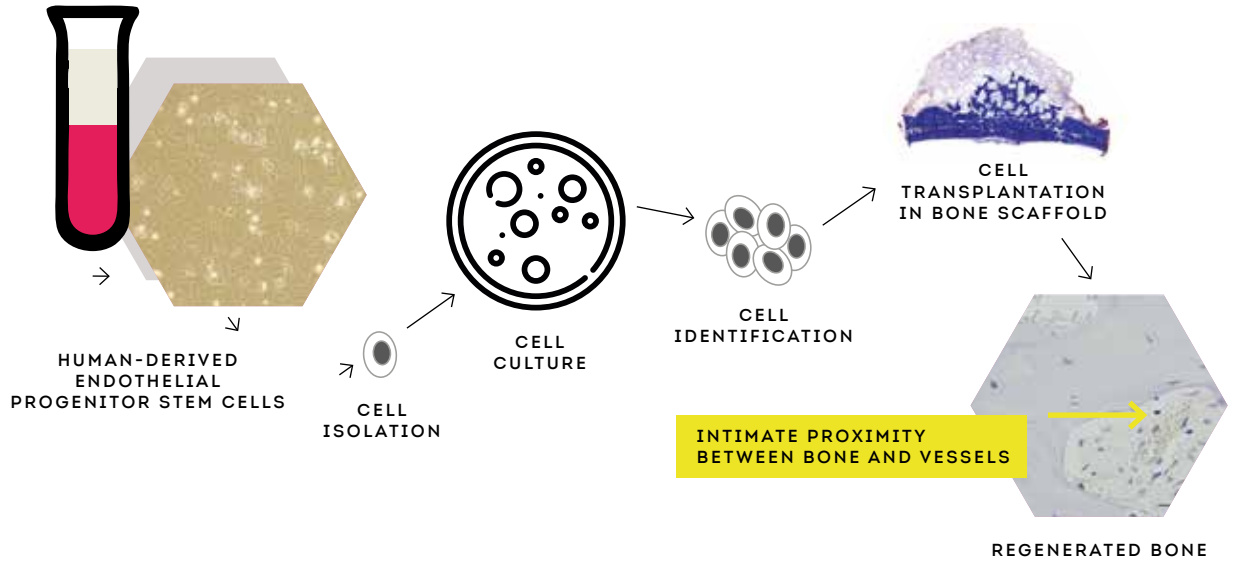
**NORMAL SKELETAL MUSCLE DENSITY**

**REDUCED SKELETAL MUSCLE DENSITY**

RESEARCH  
HIGHLIGHT

FERTILE  
GROUND  
FOR BONE  
REHABILITATION






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DR. HADAR ZIGDON-GILADI, A PHYSICIAN IN THE DEPARTMENT OF PERIODONTOLOGY, APPLIED HER HORIZONS RESEARCH GRANT TO DEVELOP A NEW TECHNIQUE FOR BONE REHABILITATION USING ENDOTHELIAL PROGENITOR STEM CELLS HARVESTED FROM THE PATIENT AND TRANSPLANTED TO THE SITE OF BONE LOSS.

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**T**he transplanted cells initiate the formation of new blood vessels which is essential to support bone regeneration, overcoming the most common obstacle to successful bone grafting. While endothelial progenitor stem cells are widely researched in the field of cardiology, Dr. Zigdon-Giladi is one of only a few researchers exploring their use for bone regeneration applications.

Dr. Zigdon-Giladi, a member of the Clinical Research Institute at Rambam, hopes that her stem cell-based research will ultimately translate into improved treatments for patients with jaw bone degeneration due to birth defects, injury, or cancer. Research funded by her Horizons grant has earned Dr. Zigdon-Giladi a number of competitive grants, including two grants from the prestigious Israel Science Foundation.

**Dr. Rostislav Novak**

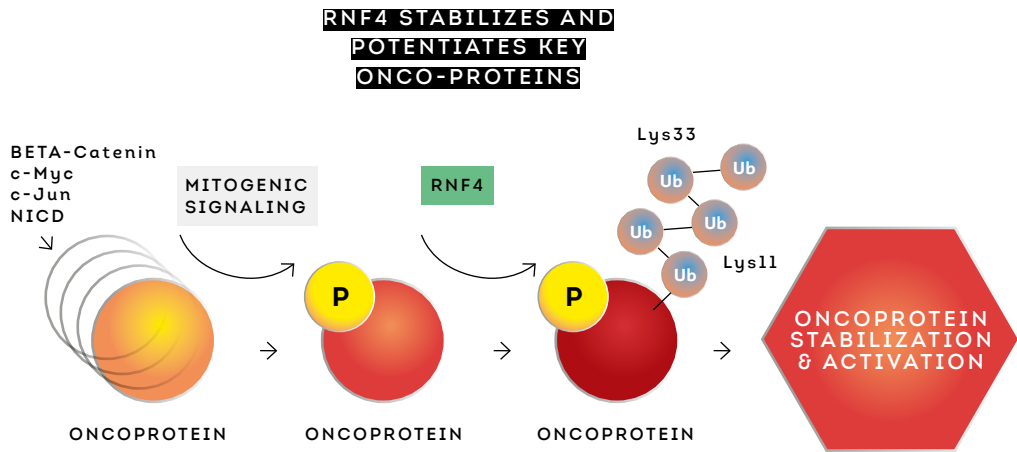
*Recipient of a 2014 Leaders Research Program Award*

RESEARCH  
HIGHLIGHT

INVESTIGATING  
THE GENETIC  
UNDERPINNINGS  
OF BONE CANCER







Oncoproteins are proteins encoded by oncogenes involved in the regulation or synthesis of proteins associated with cancer tumor cell growth.

FRESH INTO HIS MEDICAL CAREER, DR. ROSTISLAV NOVAK IS ALREADY BALANCING HIS CLINICAL WORK AS A RESIDENT IN ORTHOPEDIC ONCOLOGY WITH RESEARCH STUDYING CANCER IN BONE AND SOFT TISSUE.

**WHAT IS THE LEADERS (ATIDIM) AWARD?**

Leaders Awards are given to outstanding medical residents who demonstrate exceptional clinical and scientific promise. The award brings with it an allocation of time and funding to pursue the awardee's research program.

**H**is specific area of interest is the dependency of cancer cells on "nononcogene addiction" (NOA) genes and their role in cancer cell survival and proliferation.

In 2014, Dr. Novak received a Leaders Research Program Award to study osteosarcoma, a devastating form of childhood bone cancer, under the supervision of Professor Amir Orian of the Technion's Rappaport Faculty of Medicine. Current therapy for osteosarcoma is limited, such that insights from Dr. Novak's efforts to identify molecular targets for the disease have far-reaching implications for the development of new therapeutic approaches. Without the funds, facilities and mentorship provided by the Leaders Research Program Award, Dr. Novak would not have been able to pursue this promising research program.

**Dr. Jacob Cohen and Professor Ziu Gil**

Recipients of a Kamin Grant 2017 from the Israeli  
Ministry of Industry and Trade, after receiving  
a 2013 Spark (Nitzotz) Grant

---

RESEARCH  
HIGHLIGHT

# AN NTP APPROACH TO CANCER TREATMENT

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TRUE INNOVATION OFTEN ARISES FROM  
KNOWLEDGE THAT SPANS DISCIPLINES. THIS IS  
THE CASE WITH DR. JACOB COHEN, WHO HEADS  
RAMBAM'S VOICE AND HEARING UNIT, BUT ALSO  
HAS A PASSION FOR PHYSICS.

---

**NTP**



**KILLING CANCER  
SELECTIVELY**



**TECH  
TRANSFER**



RAMBAM MEDTECH

## **WHAT IS NON- THERMAL PLASMA?**

Also referred to as cold plasma, non-thermal plasma (NTP) is partially ionized gas where the energy is stored mostly in the free electrons and the overall temperature remains low.



## WHAT IS THE SPARK (NITZOZ) PROGRAM?

The **Spark Program** provides funding to help Rambam physicians develop promising innovations into successful products for the benefit of patients worldwide. The funds are used to determine feasibility for very early stage projects with a high probability of success.

**I**n 2017 Dr. Jacob Cohen and Prof. Gil Ziv, Director of the Department of Otolaryngology-Head & Neck Surgery, and a team of collaborators, were awarded a Kamin Grant from the Israeli Ministry of Finance and Trade to develop a radically new and promising approach to treating cancer using precision-application of non-thermal plasma (NTP).

This prestigious grant funds the continuation of a promising research project that was originally supported by a 2013 Spark (Nitzotz) Grant the scientists received from Rambam.

NTP has been found to selectively kill cancer cells without harming adjacent healthy tissue, and without the harsh side-effects associated with chemotherapy. With their Spark Grant, the team is now testing an innovative periscopic/endoscopic fiber instrument they have developed that can deliver non-thermal plasma directly to a tumor. With help from MedTech, Rambam's technology transfer unit, they hope to secure funding to create a startup dedicated to bringing this low-cost, minimally-invasive, safe and reliable treatment method to the bedside.



Dr. Jacob Cohen (l) with Prof. Ziv Gil



**TECH  
TRANSFER**

**1/2 M  
SHEKELS**

**TO DEVELOP A BETTER  
ORTHOPEDIC SOLUTION**

**F**ed up with a bone anchoring system that never seemed to fit their patient's anatomy, **Dr. Yaniv Keren** and **Dr. Yaron Berkovitz** of Rambam's Orthopedic Surgery Department came up with an idea for how to improve it. With a seed grant from Rambam's Nitzotz (Spark) program, they built a prototype that was persuasive enough to win a half-million NIS (about \$145,000) development grant from the Chief Scientist of the Ministry of Health.

Nitzotz grants are offered under the auspices of MedTech, Rambam's technology transfer unit and incubator for applied research. MedTech recognizes that some ideas can come only from those working inside the field, as demonstrated by Dr. Keren and Dr. Berkovitz. And when those insights come, MedTech helps bring them closer to realization.



*Dr. Yaniv Keren (l) and Dr. Yaron Berkovitz*



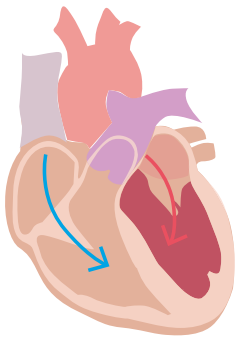
# AN ISRAELI BREAKTHROUGH IN CHF TREATMENT IS FIRST TESTED AT RAMBAM



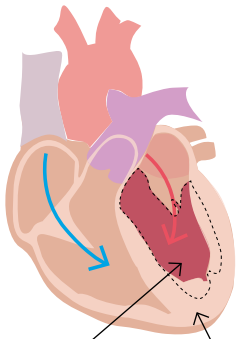
Prof. Gil Bolotin with patient

## DIASTOLIC CONGESTIVE HEART FAILURE

NORMAL HEART



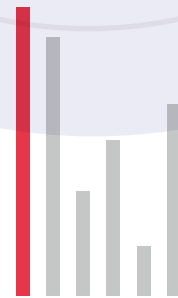
HEART WITH  
DIASTOLIC  
CONGESTIVE HEART  
FAILURE



LESS BLOOD  
FILLS THE  
VENTRICLES

STIFF HEART  
MUSCLE  
CAN'T RELAX  
CORRECTLY

A 72-year-old Canadian man recently became the first in the world to benefit from a revolutionary new Israeli treatment for Diastolic Congestive Heart Failure (CHF), a debilitating condition affecting millions which leads to fatigue, shortness of breath and respiratory complications. The patient came to Israel and Rambam for a minimally invasive procedure to implant a small elastic device, called a CORolla, in his heart.



According to the World Health Organization (WHO), cardiovascular diseases are responsible for more deaths than any other medical condition worldwide.

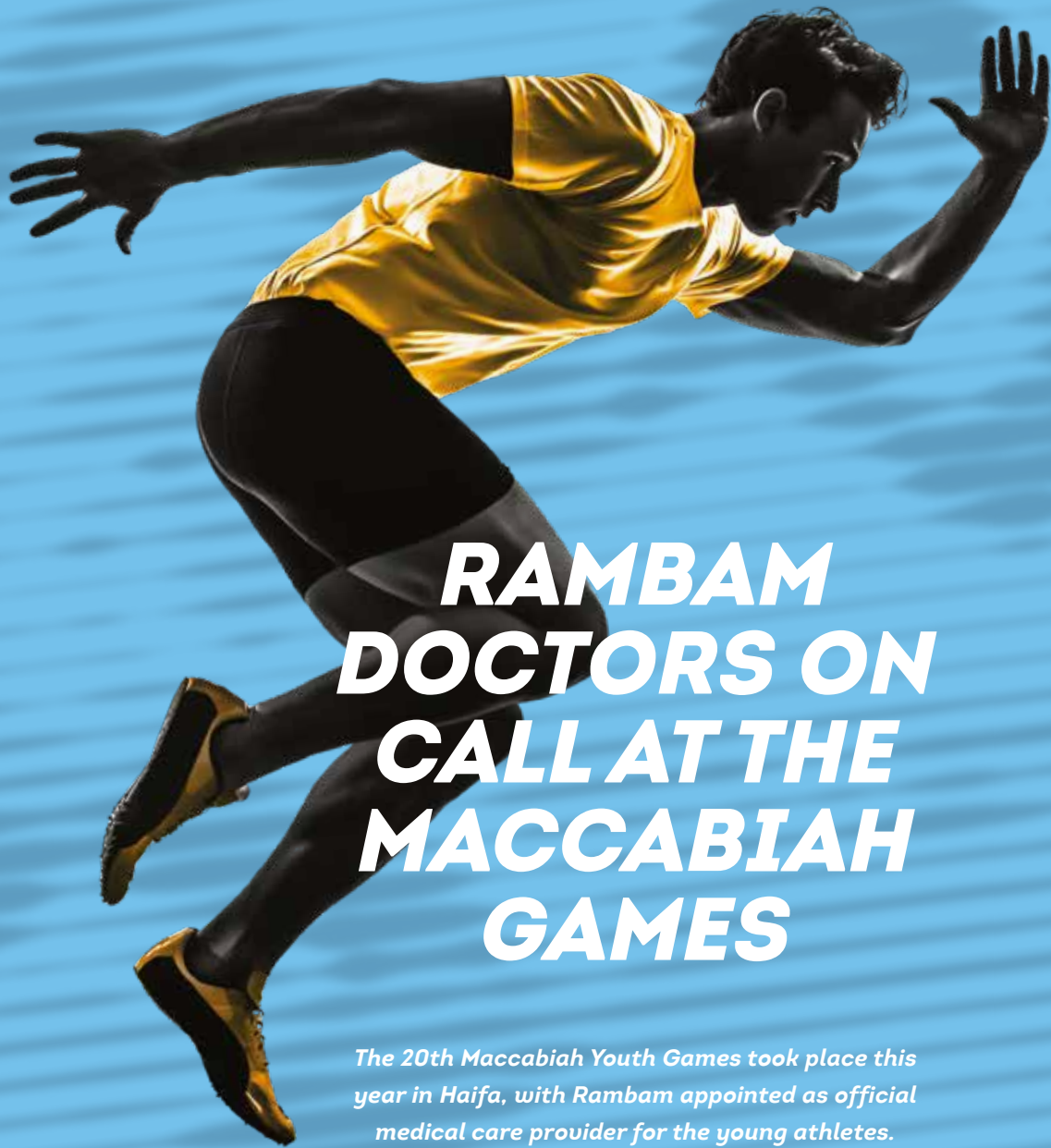
### WHAT IS CHF?

Heart failure, sometimes known as congestive heart failure, occurs when the heart muscle doesn't pump blood as well as it should.

Certain conditions, such as narrowed arteries in the heart (coronary artery disease) or high blood pressure, gradually leave the heart too weak or stiff to fill and pump efficiently.

The CORolla was developed by **Dr. Yair Peled**, a senior cardiologist at Rambam, and implanted by **Prof. Gil Bolotin**, Director of Rambam's Cardiac Surgery Department. It incorporates a simple and elegant design that uses energy generated by the heart to augment its diastolic relaxation capacity. The innovative procedure, which was performed by Prof. Bolotin, has generated great interest around the world.

"Over 40% of patients in this patient's condition have a life expectancy of only five years after first diagnosis," explains Prof. Bolotin. "With this very simple mechanical solution, we actually attempt to solve a medical problem that until now has had no cure."



# **RAMBAM DOCTORS ON CALL AT THE MACCABIAH GAMES**

*The 20th Maccabiah Youth Games took place this year in Haifa, with Rambam appointed as official medical care provider for the young athletes.*





Over the two weeks of games, Rambam's physicians treated some 50 participants for conditions ranging from heatstroke to sports injuries and even scorpion bites!

In a touching example of the small Jewish world, Prof. Norberto Krivoy, a veteran Rambam physician and immigrant from Argentina, was able to watch his grandson compete in the games.

According to Dr. Michal Mekel, Deputy Director of Rambam, and the one responsible for Rambam's medical care at the Youth Maccabiah, "We were prepared for any scenario, but everything went smoothly and our staff was able to enjoy the games."

A portrait of Sara Tzafrir, a woman with short brown hair and glasses, wearing a dark blue blazer over a silver sequined top. She is standing in front of a background of vertical wooden slats. The lighting is warm and focused on her.

BI

**BIG  
DATA  
BIG  
ANSWERS**

Sara Tzafrir  
Director of Rambam's Division  
of Information, Computing  
and Communications

# G DATA

“

*“This technology will facilitate a giant leap in medical knowledge by enabling research using big data across large sectors, quickly, accurately and cost-effectively, but most importantly ensuring the anonymity of patients.”*

- Rafi Beyar, Director and CEO, Rambam

**M**edical research analyzing vast amounts of clinical data just got much easier, thanks to a new collaboration between Rambam and Israeli startup MDClone. As part of a pilot study led by Sara Tzafrir, Director of Rambam’s Division of Information, Computing and Communications, Rambam became the first hospital in the world to test a new technology which, when applied to hospital records systems, creates “clones” of patient records that are stripped of any identifying patient information.

The parallel data can be used for research purposes without compromising patient anonymity.

The pilot project was conducted in collaboration with a study led by Dr. Irit Hochberg of the Endocrinology and Diabetes Research Institute aimed at identifying risk factors among diabetic patients for developing hypoglycemia during hospitalization. Dr. Hochberg found that the MDClone system performed as well as traditional data collection and analysis techniques.



# THE LANCET

## Visits and Revisits Israel

*“Our ultimate goal is the entirely achievable imperative of harmonious wellbeing for the diversity that comprises the people of Israel and beyond.”*

- Excerpt from **Israel: health and beyond**,  
by Karl Skorecki, Richard Horton, in *The Lancet*



L-R: Professor Richard Horton and President of Israel, Reuven Rivlin

The June 24-30 2017 issue of *The Lancet*, one of the world's most prestigious medical journals, featured a series on healthcare in Israel, with articles on topics ranging from maternal and child health, inequalities in non-

communicable diseases between major population groups, and the treatment of casualties of the Syrian Civil War, as well as an essay on medical ethics in Israel. An article jointly authored by *Lancet* Editor-in-Chief Richard Horton and Rambam's Prof. Karl Skorecki, Director of Medical and Research Development, describes the origins of their collaboration and the idea for the special Israel Series.

Three years earlier, they recall, *The Lancet* published a letter critical of Israel during Operation Protective Edge. The letter sparked an international storm of controversy. But it also inspired Prof. Rafi Beyar, Rambam's Director and CEO, and Prof. Karl Skorecki to invite the journal's editor to come to Israel and evaluate the situation for himself. Prof. Horton accepted the invitation, and was sufficiently impressed by what he saw to dedicate a special series on healthcare in Israel. This issue, it is hoped, will spark a different kind of debate, and a new understanding and appreciation of Israel's remarkable achievements in health care in the region.



Dr. Marielle Kaplan  
(second from left) with  
team members in the  
Clinical Biochemistry Lab

## CLINICAL BIOCHEMISTRY LAB

**Dr. Marielle Kaplan has worked in labs at Rambam for 17 years, and has led the Clinical Biochemistry Lab for 10.**

As Rambam continues to grow and expand, the Clinical Biochemistry Lab is called upon to fulfill ever-increasing testing demands in a timely manner, without compromising on accuracy. In 2017, Dr. Kaplan and her team achieved all that, and more.

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**“E**very day we perform 1000 routine lab tests for the entire hospital, using 400 different testing procedures. We try to relate to each test with the care we would give to an individual patient.

This past year, we upgraded our equipment which enabled us to reduce the turnaround time for delivering routine test results by half, and almost as much for tests coming from the ER.

We are also integrated into the diagnostic process for rare syndromes, particularly in infants born with unexplained syndromes. We work with the neonatologists and the Genetics Institute to provide data, but also our insights.”

- Dr. Marielle Kaplan



## DONOR PROFILE

# D. Dan and Betty Kahn Foundation and Andrea and Lawrence A. Wolfe



Jewish life, Israel and education. These are defining values that characterize the philanthropic vision of both the Kahn Foundation and Andi and Larry Wolfe of Detroit, Michigan.

Andrea, daughter of the late D. Dan and Betty Kahn, sits on the board of ORT America and of the Technion-Israel Institute of Technology's Board of Governors. Her husband Larry serves on the boards of the American Friends of Rambam (AFORAM), and World ORT.

Together, the Wolfes are continuing the Kahn family's extraordinary legacy of support to higher education in Israel in general, and the Technion in particular. In addition to establishing the D. Dan and Betty Kahn Mechanical Engineering Building at the Technion, the D. Dan and Betty Kahn Foundation has been instrumental in bringing together leading researchers from Michigan and Israel to collaborate on scientific advances to improve human health.

In their home community, Larry served as the president of the Jewish Federation of Metropolitan Detroit,



and his vision guides a number of the region's Jewish cultural and educational institutions. He has also been instrumental in advancing the goals of the Federation's Israel Overseas Committee, and was the chair of the State of Israel Bond Campaign for Detroit. Andi currently sits on the board of Jewish Family Services, and both Andi and Larry sit on medical advisory boards of the University of Michigan.

The Wolfe's continued connection to Haifa brought them to Rambam Health Care Campus, where they found a cause worth supporting. Indeed, Larry is a valued member of the Board of Directors of American Friends of Rambam. Now, each return visit they make to Rambam adds warmth and depth to the relationship.

In 2015, the D. Dan & Betty Kahn Foundation Pediatric Pulmonary Unit was opened in Rambam's Ruth Rappaport Children's Hospital, with the support of the Foundation (trustees: Lawrence Wolfe, Patrice Aaron and Arthur Weiss). The unit is improving the quality of care for the steadily rising number of children in northern Israel suffering from asthma, cystic fibrosis and other pulmonary diseases. Research conducted under the auspices of the new unit is pointing the way to new and more effective treatment approaches for children suffering from lung diseases.

Rambam is profoundly grateful for its friendship with Andi and Larry Wolfe, as well as the D. Dan and Betty Kahn Foundation, and honors their exceptional commitment to Israel's healthcare and educational institutions.



רפפורט ומשפחתם  
Ruth and Bruce Rappaport

יוסף פישמן ז"ל ומשפחתו  
The late Joseph Fishman and Family

וורן באפט  
Warren Buffett

Sanford & Joan Weill  
and the Weill Family Foundation

THE LEONA M. AND HARRY B.  
HELMSLEY  
CHARITABLE TRUST

The  
Maimon  
Golden



## Dear Friends,

It was almost fifteen years ago when, together with Eitan and Ariella Wertheimer, Rambam's leadership conceived the master plan to develop Rambam's West Campus. Since then, with the support of dedicated partners from around the world, the Sammy Ofer Fortified Underground Emergency Hospital, Ruth Rappaport Children's Hospital and Joseph Fishman Oncology Center have come into being.

These impressive, modern facilities, along with the innumerable improvement projects that have raised Rambam's clinical and research capabilities to new heights, are a testament to what shared vision and commitment can achieve.

Two major milestones achieved in 2017 have brought us closer than ever to completing the West Campus project. A lead gift from the Eyal



and Marilyn Ofer Family Foundation paved the way for construction of the Eyal Ofer Heart Hospital. With this gift, we have reinforced a wonderful partnership with the next generation of the Ofer family, through the invaluable involvement of Eyal and Marilyn Ofer's daughter Olivia, who heads the family foundation.

Another extraordinary gift, from the Leona and Harry B. Helmsley Charitable Trust, will enable us to establish the unparalleled Helmsley Health Discovery Tower, a joint venture with the University of Haifa. We thank Helmsley Trustee Sandor Frankel and his wife Ruth for their warm friendship and commitment to our shared goals. The impact the Eyal Ofer Heart Hospital and the Helmsley Health Discovery Tower will have on local and global health is immeasurable.

At Rambam, we have never been afraid to dream on a large scale. The West Campus project is one of the most ambitious and transformational initiatives ever undertaken by an Israeli hospital. Yet the scale of our ambitions stands in direct proportion to the challenges of carrying them out. This is why our friends and supporters have such a key role to play.

Over the past year, it has been our pleasure to host and honor many cherished friends who have visited us from all corners of the globe. This past year also saw an impressive number of events hosted by our organizations of friends around the world. I invite you as well to stay abreast of the transformative work we are doing here at Rambam during your next visit to Israel. The opportunities you will find for meaningful partnership are inspiring!

Yours,

**Dr. Esty Golan**

## RAMBAM IN 1938

6,000

patients treated

0

outpatient  
clinics

220

beds

1

delivery room

100

staff

1

research lab

3

inpatient  
departments

3

operating rooms

0

institutes

RAMBAM

# THEN & NOW

## RAMBAM IN 2018

260,000

patients treated

113

outpatient  
clinics

1,000

beds

11

delivery rooms

5,150

staff

15

research labs

57

inpatient  
departments

17

operating rooms

39

institutes



# *IN* **NAMES** & Numbers **2017**



This year, we  
celebrate  
**80 YEARS**  
of Excellence,  
Innovation  
and Humanity

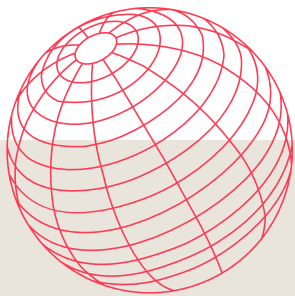
**RAMBAM'S  
FRIENDS CIRCLES**

**MAIMONIDES  
GOLDEN  
CIRCLE**

Donors who have had an immense impact in helping to position, shape, and advance our hospital in a profound and meaningful way.

# YOUR VISION AND GENEROSITY IS HELPING US TO CONSISTENTLY RAISE THE BAR.

With your help, Rambam has grown into one of Israel's most important centers for medicine and research. Each gift, from the transformational to the personal, has given us the means to make Rambam Health Care Campus a point of reference worldwide.



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## MAIMONIDES FRIENDSHIP CIRCLE

Donors who have made important and impactful contributions to dramatically improve Rambam's services to the people of northern Israel.

## MAIMONIDES LEADERSHIP CIRCLE

Donors who, through varying levels of commitment, have had a long-term impact on Rambam by supporting and strengthening us in meeting our day-to-day challenges.

## MAIMONIDES GIFT CIRCLE

Donors who have generously given from their hearts for the support and advancement of Rambam.



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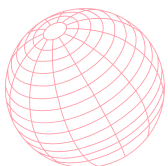
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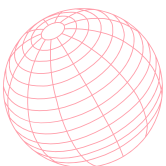
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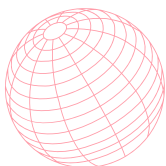
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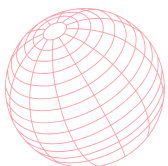
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*Solicitor*

**Ronen Atzmon**  
*Solicitor*

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*Promotion and  
Chairperson*

**Marlene Katz**  
*Community Engagement*

**Noam Rozen**  
*Business Relationship*

**Tammy Koniarski**  
*Events and Catering*

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Ella Gorenstein  
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Perry Wong

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**Yaelle Gamon Taieb**  
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**Dr. Edmundo  
Berros Elbaz**  
*Vice President*

Viorica Stern  
Amanda Karen Gipson  
Asunción Ríos Rey

## RAMBAM MEDICAL LEADERSHIP CIRCLE

The executive leadership of Rambam Health Care Campus honors and pays tribute to its physicians and surgeons who have made landmark contributions to the development of clinical medicine, the advancement of medical research, to the education of future generations of medical leaders both within the medical center and beyond, and who thereby serve as examples of outstanding leadership in their field.



L-R: Prof. David Ehrlich, Bruce Rappaport, Sir Evelyn de Rothschild at the groundbreaking ceremony for the Rappaport Faculty of Medicine of the Technion-Israel Institute of Technology



**PROFESSOR DAVID EHRlich**

One of the founding fathers of Israeli surgery and a pioneer of kidney transplantation. Initiated and founded the Technion's Ruth and Bruce Rappaport Faculty of Medicine and served as its first Dean. Awarded the Israel Prize in Medicine, 1992.

**SERVED AT RAMBAM FROM 1948 - 1977**

**PROFESSOR ORNAN (ORI) BETTER**

Established the first department of Nephrology at Rambam Medical Center, with facilities for dialysis and kidney transplantation. Developed the protocol for the treatment of Crush Syndrome, which has been universally adopted and used throughout the world to this day.

**SERVED AT RAMBAM FROM 1959 - 1993**

# RAMBAM LEADERSHIP 2017



**Rafi Beyar, MD, DSc**  
General Director and CEO



**Shimon Reisner, MD**  
Deputy Director  
*until 30.4.2017*



**Karl Skorecki, MD**  
Director, Medical and Research  
Development



**Esther Golan, PhD**  
Managing Director of International Relations  
and Chief of Strategic Development



**Michael Halberthal, MD**  
Deputy Director



**Gila Hyams, RN, MA**  
Director of Nursing



**Ronit Segal Hirshberg, PhD**  
CEO, Rambam Health Corporation  
and Director, Department of  
Economics and Marketing



**Avi Weissman, MD**  
Deputy Director

**Michal Mekel, MD**  
Deputy Director

**Nissim Haim, LL.M.**  
Deputy Director (C.O.O.)

**Ariye Berkoviz, MBA**  
Director, Department of Engineering,  
Rambam Health Corporation



**Amir Waiman, MBA, CPA**  
Director, Division of United Finance



**Sara Tzafrir, BSc, MA**  
Chief Information Officer



**Nora Libes Shnaid, BSc, MBA**  
Director, Department of Economics  
& Business Development



**Ziv Sharon, MA**  
Treasurer



**Lior Lowenstein, MD**  
Director, Medical Operations



**Myriam Ben-Arush, MD**  
Director, Pediatric Division, Ruth  
Rappaport Children's Hospital





**Yehuda Chowers, MD**  
 Director, Clinical Research  
 Institute at Rambam (CRIR)

**Ehud Klein, MD**  
 Director, Division of Research

**Ora Israel, MD**  
 Director, Nuclear Medicine

**Doron Norman, MD**  
 Director, Division of Surgery

**Benjamin Brenner, MD**  
 Director, Division of Internal Medicine

**Eyal Fruchter, MD**  
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**Zeev Weiner, MD**  
 Director, Division of Gynecology  
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**Leon Levi, MD**  
 Assistant to the General Director;  
 Director, Medical  
 Administration Unit

**Fuad Basis, MD**  
 Deputy Director, Medical and Research  
 Development; Director, Accreditation  
 Project

**Ronit Almog, MD**  
 Director, Epidemiology Unit  
 and Biobank

**Tal Asaf Moskovich, Adv**  
 Director, Medical Claims  
 Quality and Safety

**Michal Paul, MD**  
 Director, Infectious Diseases Institute

**Khetam Hussein, MD**  
 Director, Infection Control Service

**Talia Berman-Kishony, Adv**  
 Director, Service Quality  
 and Patient Relation

**David Ratner, MA**  
 External Relations & Spokesperson

**Zahava Talmor, MA**  
 Assistant to the General Director

**Oded Mayer, BA**  
 Director, Marketing Department

## NEW APPOINTMENTS 2017



Rambam HCC Director, Professor Rafi Beyar greets newly appointed directors

2<sup>nd</sup> row, r-l:

**Ronit Beck-Fruchter, MD,**  
*Director, IVF Unit*  
Department of Obstetrics and Gynecology

**Uri Paz, MD,**  
*Director, Endoscopy Unit*  
Department of Obstetrics and Gynecology

**Morir Khamaisi, MD,**  
*Director*  
Department of Internal Medicine D

**Eitan Abergel, MD,**  
*Director*  
Invasive Neuroradiology Unit

**Elizabeth Half, MD,**  
*Director*  
Gastrointestinal Cancer Prevention Unit

**Avivit Peer, MD,**  
*Director, Clinical Trials Unit*  
Oncology Division

1<sup>st</sup> row, l-r:

**Ram Weiss, MD,**  
*Director*  
Department of Pediatrics  
Ruth Rappaport Children's Hospital

**Ayelet Eran, MD,**  
*Director*  
Neuroradiology Unit and Magnetic Resonance  
Imaging (MRI) Institute

**Avi Weissman, MD,**  
*Deputy Director, Rambam HCC*

**Rafi Beyar, MD, DSc,**  
*Director, Rambam HCC*

**Luda Guralnik, MD,**  
*Director, CT Unit*  
Medical Imaging Department

**Vardit Gepstein, MD,**  
*Director, Ambulatory Pediatric Unit*



# RAMBAM HCC RESEARCH CAREER DEVELOPMENT PROGRAMS

These and other related programs rely on the philanthropy of individuals and foundations who want to leave their mark on future generations through medical advancements facilitated by biomedical and clinical research.

## THE FUTURE PROGRAM

(Formerly known as Atidim)

BASIC AND TRANSLATIONAL RESEARCH  
GRANTS FOR RESIDENTS

**Naara Shorook, MD**

Department of Otolaryngology Head  
and Neck Surgery

**Shadi Safuri, MD**

Department of Ophthalmology

## THE GUARDIAN PROGRAM

RESEARCH & INNOVATIVE PRACTICE  
NURSING GRANTS

**Gleb Sakharov, RN, MA**

Hematology and Bone Marrow  
Transplantation Section

**Ahlam Hijaze, RN**

Department of Pediatric B

**Miri Katz, RN, MA**

Department of Dermatology

**Pazit Gelber, RN, MA and Adnan Halil, RN**

Operating Room Division

**Shoshana Mordechaiev, RN**

Gastroenterology Institute

## THE HORIZONS PROGRAM

(Formerly known as Ofakim)

BASIC AND TRANSLATIONAL RESEARCH  
GRANTS FOR YOUNG SENIOR  
PHYSICIANS

**Haggai Bar-Yoseph, MD**

Gastroenterology Institute

**Michal Cohen, MD**

Department of Pediatric A

## THE SPARK PROGRAM

(Formerly known as Nitzoz)

PROTOTYPES, FEASIBILITY, AND IP  
PROTECTION FOR MEDICAL INNOVATIONS

**Mauricio Cohen Vaizer, MD**

Department of Otolaryngology Head  
and Neck Surgery



2017  
**RAMBAM  
AWARD**

The Rambam Award honors individuals of extraordinary vision whose major contributions to medicine, technology, and humanity are improving the well-being of countless individuals in Israel and around the world.

**LAUREATES**

**AMBASSADOR DENNIS B. ROSS, USA**

**PROFESSOR RICHARD HORTON, UK**

**PROFESSOR JEFFREY M. DRAZEN, USA**

**HARVEY AND GLORIA KAYLIE, USA**



*L-R: Professor Richard Horton, Alicia Kaylie, Professor Rafi Beyar, Ambassador Dennis B. Ross, Professor Jeffrey M. Drazen, Professor Karl Skorecki*

**COMMITTEE**

**Professor Rafi Beyar**

*Director and CEO, Rambam HCC*

**Professor Karl Skorecki**

*Director of Medical and Research Development, Rambam HCC*

**Israel Greidinger**

*Chairman, Israeli Friends of Rambam*

**PREVIOUS RECIPIENTS**

**2016**

Professor Emeritus William R. Brody  
 Professor Eric J. Topol  
 Mr. Sandor Frankel and The Leona M. and Harry B. Helmsley Charitable Trust

**2015**

Mr. Shimon Peres, of blessed memory  
 Rabbi Lord Jonathan Sacks  
 Mr. Eyal Ofer  
 Ms. Mariita and Mr. George Feldenkreis  
 Professor Mary-Claire King

**2014**

Mrs. Herta and Mr. Paul Amir  
 Ms. Relly and Mr. Brent Dibner  
 Professor Howard (Chaim) Cedar  
 Mr. Yona Yahav

**2013**

Mr. David Green  
 Dr. Sol J. Barer and Mrs. Meri Barer

**2012**

Professor Richard L. Popp  
 Rabbi Yechiel Eckstein  
 Ms. Joan H. and Mr. Sanford I. Weill

**2011**

Mr. Harvey Krueger, of blessed memory  
 Mrs. Gila Almagor Agmon  
 Mr. Nochi Dankner  
 Dr. Donna E. Shalala  
 The Hon. Mrs. Laura Wolfson Townsley  
 Mr. Joseph Fishman, of blessed memory / The Fishman Family

**2010**

Mrs. Ruth Rappaport of blessed memory  
 Mr. Sammy Ofer of blessed memory  
 Rabbi Elimelech Firer  
 Professor Moshe Revach



## HONOR ROLL 2017

### AWARDS FOR SCIENTIFIC ACHIEVEMENT

Rambam is honored to administer two prestigious nationwide medical research programs. Both programs are open only to Israelis and contribute to Israel and Rambam's renown in promoting excellence in research.

#### THE YUDIM FAMILY PRIZE FOR EXCELLENCE IN CANCER RESEARCH

The Youdim Family Prize for Excellence in Cancer Research was established by Technion Professor Emeritus, Moussa Youdim, to support cancer research exemplified by excellence, novelty, and/or scientific breakthroughs.

The Youdim Prize awardee will be chosen in 2018.

#### THE ERNEST AND BONNIE BEUTLER RESEARCH PROGRAM OF EXCELLENCE IN GENOMIC MEDICINE

The Ernest and Bonnie Beutler Research Program of Excellence in Genomic Medicine was established by Bonnie Beutler to honor the memory and work of her late husband, Dr. Ernest Beutler. This program supports high level genomic research projects of Israeli investigators.



#### 2017 AWARDEE

##### **Professor Roy Kishony**

*Faculty of Biology, Technion*

Research title: Predicting Antibiotic Resistance and Treatment Failure in Urinary Tract Infections

## 2017 COMPETITIVE GRANTS

### **Boehringer Ingelheim Co (BI)**

Dr. Oren Caspi  
*Cardiology Section*

### **David Lynch Foundation**

Prof. Eyal Fruchter  
*Division of Mental Health*

### **D-CURE**

Dr. Michal Cohen  
*Pediatric Endocrinology Unit*

### **EU**

Prof. Michal Paul  
*Infectious Diseases Unit*

### **Gassner Fund for Medical Research**

Prof. Michal Paul  
*Infectious Diseases Unit*

### **German-Israeli Foundation (GIF)**

Dr. Yuval Gefen  
*Microbiology Laboratory*

### **International Atomic Energy Agency**

Prof. Ora Israel  
*Nuclear Medicine Institute*

### **Israel Cancer Association (ICA)**

Dr. Itay Maza  
*Gastroenterology Institute*

Dr. Moran Amit  
*Department of Otolaryngology  
Head and Neck Surgery*

Dr. Oz Mordechai  
*Department of Pediatric Oncology  
and Hematology*

Dr. Fahed Hakim  
*Pediatric Pulmonary Unit*

Dr. Shlomit Strulov Shachar  
*Division of Oncology*

Dr. Shorook Naara  
*Department of Otolaryngology  
Head and Neck Surgery*

Dr. Shlomit Yehudai-Reshef  
*Hematology and Bone Marrow  
Transplantation Section*

Dr. Ruth Perets  
*Division of Oncology*

### **Israel Cancer Research Foundation (ICRF)**

Prof. Ziv Gil  
*Department of Otolaryngology  
Head and Neck Surgery*

Dr. Neta Milman  
*Department of Otolaryngology  
Head and Neck Surgery*

### **Israel Gastroenterology Association**

Dr. Itay Maza  
*Gastroenterology Institute*

### **Israel Innovation Authority**

Dr. Yaron Bar-Lavie  
*Division of Critical Care*

Prof. Lior Gepstein  
*Cardiology Section*

Dr. Ruth Perets  
*Division of Oncology*

### **Israel Science Foundation (ISF)**

Dr. Sara Selig  
*Nephrology Institute*

Dr. Yelena Granovsky  
*Department of Neurology*

Prof. Mogher Khamaisi  
*Institute of Endocrinology, Diabetes  
and Metabolism*

### **Israel Society for Clinical Oncology and Radiotherapy**

Dr. Talia Shentzer Kutiel  
*Division of Oncology*

### **Materna Industries**

Dr. Liron Borenstein-Levin  
*Neonatal Intensive Care Unit*

### **Ministry of Science**

Prof. Michal Paul  
*Infectious Diseases Unit*

Dr. Hiba Yaseen  
*Clinical Research Institute*

Prof. Naim Shehadeh  
*Institute of Endocrinology, Diabetes  
and Metabolism*

### **National Institutes of Health (NIH)**

Prof. Michal Paul  
*Infectious Diseases Unit*

### **National Institute of Psychobiology in Israel**

Prof. Eyal Fruchter  
*Division of Mental Health*

### **Roche Pharmaceuticals**

Dr. Daniel Kurnick  
*Clinical Pharmacology Unit*

Dr. Ayal Rozenberg  
*Department of Neurology*

### **The Israel National Institute for Health Policy Research**

Prof. Michal Paul (in collaboration  
with Rabin Medical Center)  
*Infectious Diseases Unit*

Prof. Ziv Gil  
*Department of Otolaryngology  
Head and Neck Surgery*

Prof. Ziv Gil (in collaboration with  
University of Haifa)  
*Department of Otolaryngology  
Head and Neck Surgery*

Prof. Tzvi Dwolatzky (in collaboration  
with University of Haifa)  
*Geriatric Services*

### **The Israeli Society of Nephrology and Hypertension**

Dr. Suheir Assady  
*Department of Nephrology*

### **The Leona M. and Harry B. Helmsley Charitable Trust**

Prof. Yehuda Chowers  
*Gastroenterology Institute*

### **The Naomi Foundation**

Dr. Ruth Perets  
*Division of Oncology*

### **XLEAR Inc.**

Dr. Arie Gordin  
*Department of Otolaryngology  
Head and Neck Surgery*

# FISCAL OVERVIEW

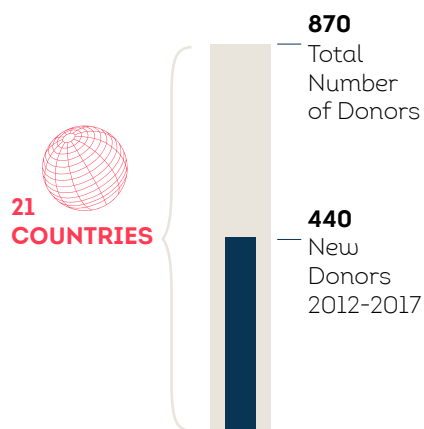
## STATEMENT OF ACTIVITIES (in millions of shekels)

<b>INCOME:</b>	<b>2017</b>	<b>2016*</b>
Medical services rendered	1,609	1,504
Research projects	43	42
Other	19	20
<b>TOTAL</b>	<b>1,671</b>	<b>1,566</b>
<b>ALLOCATIONS:</b>		
Building, construction and renovation	39	36
Medical equipment	20	21
Computerized equipment	6	5
Other equipment and supplies	5	6
<b>TOTAL</b>	<b>70</b>	<b>68</b>
<b>EXPENSES:</b>		
Salaries	1,173	1,115
Medical and technical equipment	236	247
Maintenance	92	90
Operating expenses	201	175
General administrative expenses	90	94
<b>TOTAL</b>	<b>1,792</b>	<b>1,721</b>

Full reports are available upon request.

\*Recalculated

## DONORS



## DONATIONS 2017

**\$16M USD**  
Total  
Amount  
Raised

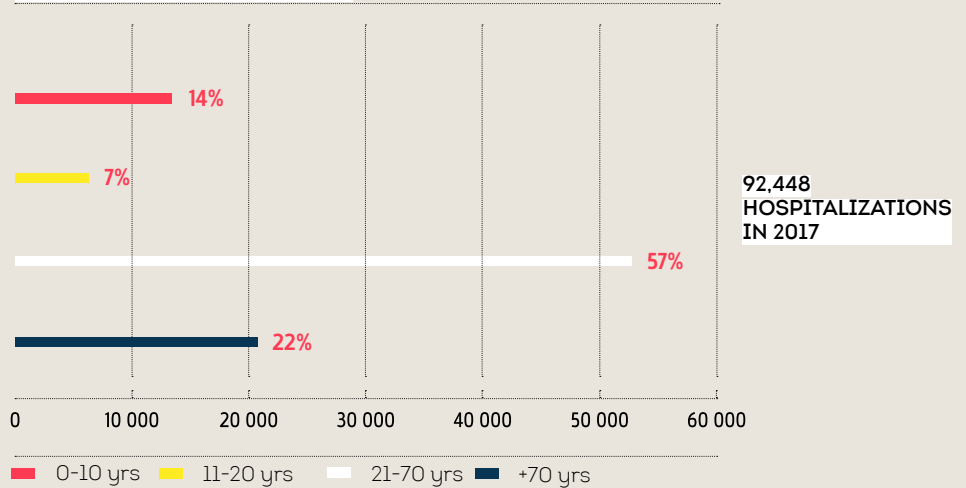
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**\$12,600 USD**  
Average  
Donation

# PATIENT CARE

PATIENT CARE	2017	2016
ANNUAL ADMISSIONS	92,448	93,541
TOTAL PATIENT DAYS	357,228	355,453
EMERGENCY DEPARTMENT VISITS	142,940	138,102
OUTPATIENT VISITS	726,279	699,161
TOTAL PATIENTS TREATED	260,139	254,894
IMAGING PROCEDURES	275,867	272,616
LABORATORY EXAMS	12,626,015	12,667,852
SURGICAL PROCEDURES	58,604	57,789
DELIVERIES	5,012	5,114
AVERAGE OCCUPANCY	96%	95%

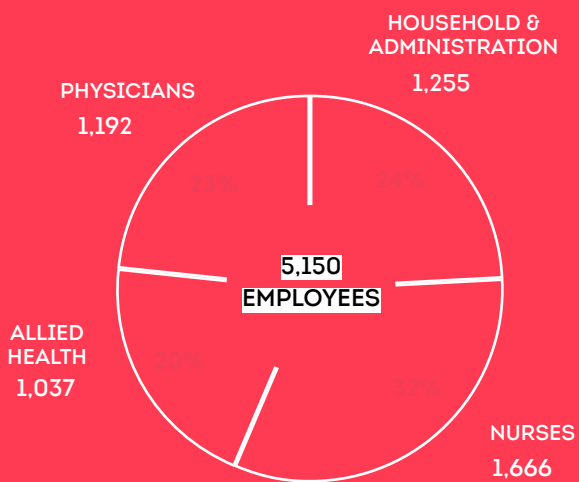
## HOSPITALIZATIONS BY AGE



RESEARCH	2017	2016
NEW RESEARCH	423	441
ACTIVE RESEARCH	1,650	1,626

# EMPLOYEES & CAPACITY

## EMPLOYEES BY SECTOR



## OVERALL CAPACITY

HOSPITAL BEDS	962
MEDICAL INSTITUTES	39
INPATIENT WARDS	57
SPECIALIZATION UNITS	73
OUTPATIENT CLINICS	113



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ABOUT RAMBAM

[WWW.RAMBAM.ORG.IL](http://WWW.RAMBAM.ORG.IL)





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**Architectural  
Rendering**

Model of the Helmsley  
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Architects



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