

RAMBAMHCC

2016



Pictured on cover: Rambam's new state-of-the-art Joseph Fishman Oncology Center opens its doors.

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FISHMAN OPENS

And ushers in a new era of hope and healing for cancer patients throughout Israel.

look inside Rambam's new state-of-the-art Joseph Fishman Oncology Center.

A West Campus Landmark

Opened in June 2016, the eight-story Joseph Fishman Oncology Center is the newest addition to Rambam's dynamic West Campus. The only full-service cancer center in all of northern Israel, the Joseph Fishman Oncology Center welcomes its patients with a modern, comfortable facility designed to promote healing and wellbeing. At 100,000 m², the new center is double the size of the former facility, and houses hospitalization and outpatient departments for chemotherapy, radiation therapy and brachytherapy, as well as research labs and space for a state-ofthe-art Radiation Therapy Institute and a Complementary Care Center, planned for construction as resources become available.

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FISHMAN IS:

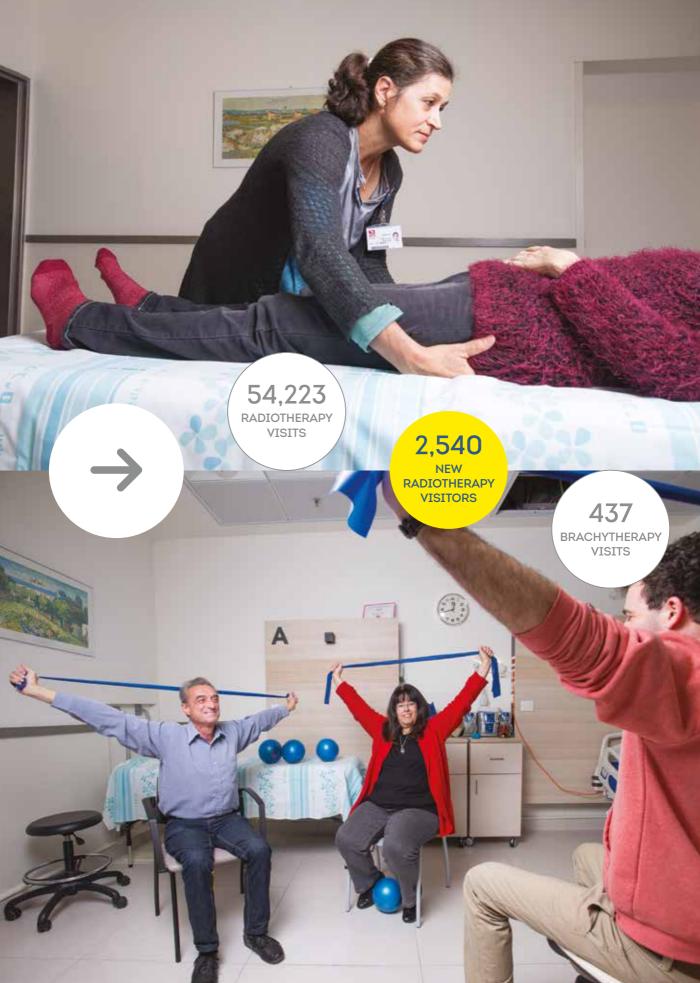
An Environmentally-Conscientious "Green" Building

From initial conceptual and architectural planning, through the selection of sustainable materials and resource-saving systems, the Joseph Fishman Oncology Center was built with the wellbeing of the patients, staff and the environment in mind. From structure to function, the building complies with the Israel Standards Institute's stringent "Green Building" standard for medical institutions.



Patient Privacy and Dignity

Patients in the new Joseph Fishman Oncology Center benefit from thoughtfully designed treatment and hospitalization areas that are spacious, private, and can comfortably accommodate accompanying family members and visitors.





Specialized Labs for Personalized Medicine

The new center is equipped with sophisticated clean rooms and specialized facilities needed for on-site preparation of cancer treatments tailored to a patient's biological profile.

> 253 CLINICAL STUDIES IN PROGRESS

3,300 CONSULTATIONS

NEW CLINICAL STUDIES

66

A Chance to Make a Difference

rece

Funds are still needed to purchase the state-of-the-art linear accelerators that will enable us to open the Radiation Therapy Institute. We are also seeking funding to inaugurate the Complementary Care Center, which will provide a range of holistic treatments and services for our patients.



Esteemed friends and benefactors,

2016 was a year of exceptional achievements, both at Rambam and in the world of medical innovations. This meant good news for our patients, and in particular those with cancer and heart disease, the two main causes of illness and death in Israel and the western world. Thanks to worldwide research efforts, cancer treatment has improved dramatically, through the introduction of new drugs, technologies, and other innovative treatment modalities. With the opening this past year of The Joseph Fishman Oncology Center, many more cancer patients from throughout northern Israel will be able to benefit from these new treatment approaches, to live longer, and with a better quality of life. Rambam's Joseph Fishman Oncology Center is the only full-service cancer center in northern Israel, and the number of patients we serve continues to rise. It is deeply gratifying to see how our patients respond to the new center's modern, spacious and welcoming environment a dramatic improvement over the old quarters. While five of the building's eight floors are now in operation, securing funds to open the last three floors is a top priority.

Still remaining to be completed is the center's state-of-the-art Radiation Therapy Institute. The advent of highly sophisticated linear accelerators enables radiation treatments to target tumors with pinpoint accuracy, sparing patients unnecessary complications and suffering. We are actively seeking donors who will help us acquire this costly, but life-saving equipment. The Israeli Ministries of Health and Finance have made significant commitments of matching funds for certain acquisitions, offering the opportunity to leverage philanthropic gifts to make a greater impact.

We recognize that recovery involves the spirit as well as the body, and are seeking funding to open a comprehensive Complementary Care Center on The Joseph Fishman Oncology Center's ground floor. The center will offer an entire The Eyal Ofer Heart Hospital, marks a major milestone towards completing Rambam's West Campus. This gift continues the Ofer family tradition of caring for the wellbeing of the citizens of northern Israel, expressed so definitively by the one-of-a-kind Sammy Ofer Fortified Underground Emergency Hospital. The Eyal Ofer Heart Hospital will bring together Rambam's formidable cardiology expertise, experience and vision, all under one roof. With inpatient and ambulatory care facilities, a state-of-the-art cardiac intensive care unit, catheterization lab, operating suites, electrophysiology and rehabilitation facilities, and research labs equipped with the most advanced equipment available, it will stand



range of holistic treatments, from acupuncture to music therapy, focused on amplifying the patient's inherent healing powers and ensuring the best quality of life possible.

The exciting announcement in 2016 that the Eyal and Marilyn Ofer Foundation would extend the lead donation to complete construction of among the top medical centers in the world. The green light to move forward on building The Eyal Ofer Heart Hospital has made acquisition of equipment for the new hospital a new priority. Supporters wishing to make a powerful impact on patients' lives are encouraged to consider funding the purchase of advanced imaging equipment, catheterization systems, electrophysiology technologies and ablation systems, among others.

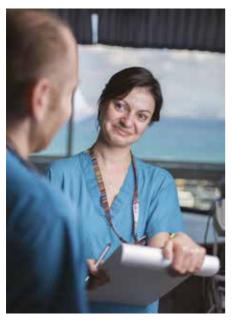
This past year, significant progress was made towards planning the new Health Discovery Tower - the final structure that will complete Rambam's West Campus. This 20-floor tower will house Rambam's Ophthalmology and Gastroenterology Institutes and Graduate School of Dentistry, as well as lab facilities for the Clinical Research Institute of Rambam Noteworthy progress was made in other departments over the past year. Construction of the Herta and Paul Amir Neurosurgical ICU is now underway, and the new unit will offer the most advanced facilities for treating head injuries, cancerous growths, and other neurological disorders. Herta and Paul Amir have been loyal friends for many years, and I express the gratitude of the hospital, its patients and staff, all of whom benefit from their generous support.



(CRIR). Other floors will be used for research by the Technion's Rappaport Faculty of Medicine, and for the University of Haifa's Life Sciences, Public Health, and Nursing programs. Space in the Health Discovery Tower will also be allocated for biomedical start-ups. This one-ofa-kind collaboration between a major hospital, two universities and commercial enterprises will secure Rambam's position as a medical innovation hub that is unique in Israel, if not in the world. Another major pledge received in 2016 will enable construction of The Kaylie Kidney Health Center of Excellence. The new center will offer the most advanced medical care and facilities to support Rambam's exceptional nephrology research program.

Through our Spark, Horizons and Atidim research grant programs, Rambam continues to support innovation among interns, veteran physicians and nurses. This past year, an Innovation Lab was opened, under the auspices of Rambam's

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MedTech commercialization arm, to help our staff build prototypes of their designs using state-of-the-art 3-D printers. One particularly promising project involving the development of bone anchors for orthopedic bone surgery, led by Dr. Yaniv Keren and Dr. Yaron Berkovich and funded three years ago with a Spark grant, recently received additional funding from the Israeli Chief Scientist of the Ministry of Health – an exceptional achievement for these young physicians. Overall, Rambam researchers have a remarkable track record in winning competitive international grants, securing 35 new grants during 2016, reflecting a success rate of more than 30%

As a strategic partner in the MindUp digital medicine incubator, along with industry giants IBM Watson Health and Medtronics, and technology investors Pitango and Impact First, Rambam was involved this past year in a process of screening 150 digital health and medical device startups, applying strict criteria of innovation and potential impact on human health. Several promising companies were selected, including Hemonitor, developer of a non-invasive arterial blood flow measuring system for ICUs, as well as startups targeting colon cancer and asthma. Through its involvement in MindUp, Rambam is the first hospital in Israel to receive government funding – from the Chief Science Office – to partner with industrial entities.

Amidst all the progress and growth of the past year, we were involved, first and foremost, in our primary task of promoting health and alleviating suffering. Care was extended to the everincreasing number of patients who come to our doors from throughout the country, to Syrian civilians injured in their country's bloody civil war, and through a myriad of humanitarian outreach efforts beyond our borders.

The successes and achievements of the past year fuel us with energy and optimism to face the numerous challenges ahead. And as uncertain and disheartening as global events may be, here in Haifa, we find reason for hope every single day. I invite you to join us as we change the world for the better, one life at a time.

Yours,

R. Beyen

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

CHOOSING ISRAEL. CHOOSING RAMBAM.

Dr. Mauricio Cohen-Vaizer always knew that he and his family would leave their native Chile to settle in Israel. It was only a matter of time.

After completing medical school and a residency in Santiago, twoyear fellowships in Australia, and six years as a senior Ear Nose Throat surgeon back in Chile, Dr. Cohen-Vaizer, by then an accomplished ENT specialist with an expertise in ear and cochlear implant surgery and pediatric ENT, knew that the time had come.

Yet achieving the lifelong dream to live in Israel didn't preclude the desire to realize his professional vision. When Dr. Cohen-Vaizer's work in Jerusalem hospitals was too limiting professionally, he sought opportunities in other parts of the country.

/ENEZUELA

Bolivia

ARGENTIN

CHILE

Santiago O

In the meantime, Prof. Ziv Gil, head of Rambam's ENT Department, had decided that establishing a cochlear implant program would be his department's next challenge. The only thing missing was "Deafness can lead to social isolation, which can cause depression, dementia and early death."

- Dr. Mauricio Cohen-Vaizer

someone to make it happen. The next day, Dr. Cohen-Vaizer's resume appeared in his in-box.

With Dr. Cohen-Vaizer recruited to their team, the department increased the annual number of ear surgeries

IMPACT:

120 EAR SURGERIES IN 2016 6-fold increase from 2015

200 EAR SURGERIES PROJECTED FOR 2017 it performed from 20 to 120 in 2016, with 200 projected for 2017. And Dr. Cohen-Vaizer introduced innovative, minimally invasive surgical techniques that reduce pain, hospitalization and recovery times.

The new cochlear implant program was launched with one procedure projected for 2016, yet by the end of the year, eight of these complex surgical procedures were performed. The youngest patient was 10 months old, and the oldest, in her 70s.

"Proper hearing is essential for healthy living, at any age."

Dr. Cohen-Vaizer expains that five percent of people with hearing impairments cannot be helped by hearing aids. For them, cochlear implants provide new hope.

"At Rambam, I feel that if I plant a seed, there is fertile

ground for it to grow, and and flourish. While this holds true at the hospital level, it is even more so in our department." Dr. Cohen-Vaizer already has plans for new services and surgeries that he would like to introduce into the department. And he is excited about the opportunities to develop his basic and clinical research interests at Rambam, and through the Technion's Faculty of Medicine.



People think that when you come to Israel, you need to make sacrifices. And you do, on lots of things. But it's also an investment. As a family, and professionally, I don't think anywhere else we could have reached the level of fulfillment that we have here."

- Dr. Mauricio Cohen-Vaizer



STANMORE

PERSONALIZED IMPLANT

IMPLANT GROWTH FOLLOWS NATURAL

GROWTH

Diagnosing a 9-year-old with a rare form of bone cancer is difficult enough

Particularly when the standard treatment involves removing significant portions of her leg. But with his young patient's prospects for a normal life at stake, orthopedic oncologist Dr. David Nikomarov was convinced that there had to be another way.

Exceptional Cases Demand Extraordinary Measures ? ?

11 HOUR OPERATION At Dr. Nikomarov's initiative, a special, state-of-the-art implant was commissioned for the young patient from Stanmore Implants in the UK. Incorporating highly sophisticated technology, the implant can be adjusted and lengthened using externallyapplied electromagnetic energy.

The formidable cost for the implant was covered by Rambam

and various components of Israel's health care system.

In an 11-hour operation, Rambam surgeons removed the diseased bone and positioned the implantthe first procedure of its kind to be performed in Israel. Now well on the road to recovery, as Dr. Nikomarov's patient grows, the implant will "grow" along with her.

ANTING ANTIBIOTIC RESISTANCE

GLOBAL Challenge

The need for new approaches to treat antibioticresistant infections is a global imperative. Prof. Michal Paul of Rambam's Institute for Infectious Diseases is part of a multi-national team that has taken up the cause.





As members of AIDA - a European Union-sponsored project, Prof. Paul and a team of scientists from 11 countries are investigating the clinical effectiveness and optimal dosing of five off-patent-antibiotics.

The project is successfully recruiting patients in Europe and Israel, and the results of the study have yet to be published. As long as the search for solutions continues, Rambam's researchers will support the international scientific community in these efforts.









VITER -

Dr. Yuval Gefen Director of the Clinical Microbiology Lab

FINDING PATHOGENS // FASTER

150,000 SAMPLES ANALYZED EACH YEAR

BACTERIAL ID IN JUST 1 MINUTE



Rambam's Clinical Microbiology Laboratory took a giant step into the 21st century with the acquisition of state-ofthe-art Matrix-assisted laser desorptionionization time-of-flight mass spectrometry (MALDI-TOF MS) technology. This advanced system enables accurate, rapid, and inexpensive identification of pathogenic bacteria, fungi, and mycobacteria isolated from various clinical samples. Using MALDI-TOF MS as a routine diagnostic tool, physicians can get lab results within minutes, dramatically improving their ability to quickly determine and prescribe the right antibiotic regimen for their patients. The introduction of MALDI-TOF MS technology into the laboratory, in addition to other, well established moleculardiagnostic capabilities, enables our highly trained staff to focus on the analysis of more complex samples, and deliver faster and more accurate results.

IT ALL STARTS WITH A BRIGHT IDEA

Rambam inaugurates a new Center for Medical Invention and Innovation

Innovations coming out of Rambam have already revolutionized the fields of medical imaging, cardiovascular care and so many others. Now, for Rambam staff, the path between their good ideas and better patient care just got a lot shorter. To cultivate the irrepressible ingenuity of its medical team, Rambam's Med-Tech recently opened the Center for Medical Invention and Innovation.

Nadav Ben-Haim, CEO of Rambam Med Tech (*l*) and Ronya Rubenstein Adv., Director of Rambam's R&D Unit

Iltimaker

With an array of equipment that includes the world's most advanced digital imaging and 3D printing systems, as well as technical assistance from a dedicated biomedical engineer, the center allows anyone to transform an idea – from the chalkboard – or screen – into a fully-formed 3D prototype.

Prof. Aharon Hoffman, who heads the Vascular Surgery Department, is already using the center's facilities to better serve his patients. For particularly complex cases, converting digital images of the patient's vasculature into a 3D model, enables him to plan an optimal surgical strategy.

With the power to take a good idea and make it real, we look forward to a wealth of new personalized treatment opportunities, for patients at Rambam and everywhere.

The "missing" gene A PIECE OF A PUZZLE

AND A NEW DISEASE

OPTITY I Line Line of

Within days after her birth, "L" was sleepy, made seizurelike movements, and had difficulty breathing – all complications pointing to a severe genetic disorder. Yet when specialists from Rambam's Genetics Institute were unable to find a match between the child's genetic profile and any known syndromes, they were determined to leave no stone unturned.

NEW DISEASE

ADVANCED GENETIC ANALYSIS NOVEL GENE DISCOVERY PREVENTION & TREATMENT IVF

As one of Israel's leading genetics research facilities, Rambam's Genetics Institute has access to highly sophisticated genetic sequencing technologies. Using this powerful tool. the Institute researchers were able to identify a novel gene whose function until then had been unknown, and link a mutation in that gene to a previously undocumented genetic syndrome responsible for the condition. For the persistent researchers, the payoff was not only the chance to better help their patient and her family, but also the satisfaction of being the first to

link the mutated gene with this rare disorder.

The findings from this groundbreaking investigation, headed by Prof. Hagit Baris-Feldman, were reported in the prestigious American Journal of Human Genetics.

With the insight gained from this work, Prof. Baris-Feldman and her staff were able to help the mother achieve a normal pregnancy through Rambam's IVF Unit and pre-implantation genetic diagnosis at the Genetics Institute.

Alina Kurolap, (l) and Dr. Hagit Baris-Feldman

EVERYONE HAS THE RIGHT TO BRING LIFE INTO THE WORLD

When the Israeli Supreme Court ruled that HIV-positive men and women are entitled to fertility treatments, Rambam was the only hospital in Israel to heed the call and create a service to meet their needs.

Rambam's Viral IVF (*in-uitro* fertilization) Unit opened in May 2010 to help couples where one or both partners are HIV or Hepatitis B and C carriers to conceive and bring healthy babies to term.

Dr. Monzer Azzam, a veteran expert in assisted fertility, is director of the Viral IVF Unit, and vigilantly oversees its complex operations. After seven years, the unit has helped hundreds of couples, and achieved some of the highest success rates for births in Israel, not only among patients with viral disorders, but among all IVF recipients.

100

BIRTHS

HBV

40

IVF CYCLES

IN FIRST YEAR

254

IVF CYCLES

IN 2016

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"Over time, we have learned and improved our techniques to the point that our success rates are among the highest in Israel and internationally. The exceptional professional level of our team is matched by their total dedication to their work."

- Dr. Monzer Azzam

WASHING AWAY VIRAL TRACES

Τν

"For me, helping our patients is my life's mission. The satisfaction I experience from performing this service is indescribable!"

HIV

- Dr. Monzer Azzam

The Viral IVF Unit's laboratory team is specially trained in a cleaning process that washes away any traces of virus in the eggs and sperm before fertilization. First the eggs and sperm are meticulously separated from the surrounding follicular and seminal fluids, which are washed repeatedly to remove any infected cells. Even the fluid medium in which the sperm and eggs are placed is washed and tested for any trace of virus. Only after the biological materials are determined to be virus-free is the actual fertilization performed. The Viral IVF Unit employs extensive safety measures to protect the medical and laboratory teams, patients, and other embryos from infection.

HCV



"Participating in these studies is a lot of work, but we are committed to doing our part towards advancing better care for HIV-infected patients everywhere. We and the study participants were proud to play a role in advancing this important cause."

- Dr. Eynat Kedem, Clinical Immunology Unit

FOR HIV PATIENTS, WHEN IS THE RIGHT TIME TO START?

The advent of potent anti-retroviral therapies has transformed HIV infection from a lethal to chronic condition. But until recently, there was no consensus in the medical world regarding the optimal protocol for when to administer these life-saving drugs.

In 2016, in light of findings from a worldwide study led by the NIH, new guidelines were set by the US, Europe and the World Health Organization for treating individuals diagnosed with HIV. The NIH study, known as START, began in 2008, with Rambam's HIV Clinic serving as its national center for Israel.

NIH OSTART

By 2015, statistically significant findings gathered at Rambam and elsewhere showed that those who received treatment immediately upon diagnosis experienced significantly fewer end points of morbidity and mortality.

Strategic Timing of Antiretroviral Treatment

NEW AT RAMBAM:

Neurosurgery in Utero and Surgical Treatment for Children with Epilepsy To remain at the medical cutting edge, Rambam actively recruits experts at the vanguard of specific fields. Dr. Mony Benifla, a pediatric neurosurgeon who joined Rambam in 2016 to run the Pediatric Neurosurgery Department, is one of the few surgeons in the world trained to perform endoscopic neurosurgery on fetuses *in utero*.

30% OF EPILEPSY PATIENTS DON'T RESPOND TO DRUG TREATMENT APPROX.

OF THOSE WILL BENEFIT FROM EPILEPSY SURGERY In order to learn this extraordinarily delicate and precise fetoscopic procedure, Dr. Benifla, along with Dr. Yuval Gielchinsky, a specialist in fetal medicine from Hadassah Hospital, and an anesthesiologist and operating-room nurse, made three trips to Brazil, to train at one of the two centers in the world that specialized in performing surgery on gestating infants. Upon their return, in a collaborative venture between Rambam and Hadassah, the team established the world's third center for neurosurgery in utero.

For infants born with spina bifida, a severe developmental defect of the spinal cord, the expected



lifespan is generally short and fraught with serious complications. Performing corrective surgery before birth offers new hope for these children and their families, preventing many of the debilitating effects of this condition.

As head of Pediatric Neurosurgery and an epilepsy surgeon, Dr. Benifla has introduced neurosurgical approaches that offer children suffering from seizures that are uncontrollable with drug treatments, the opportunity to lead a seizure-free life. Dr. Benifla also brought to the department his expertise in precision surgical interventions that can restore mobility to children with spasticity disorders.



PREDICTING WHO WILL DEVELOP CHRONIC PAIN



As an internationallyrenowned trauma center, Rambam has gained a wealth of expertise from treating thousands of civilian and military injuries.

100 PATIENTS RECRUITED TO THE STUDY

Why does one person recover completely from an injury, yet another remain with chronic and enduring pain? As millions around the world cope with the "chronification" of pain, many of them military veterans, researchers from Rambam's Department of Neurology are collaborating with the US Department of Defense and others to determine a roadmap to relief.

In the framework of the study, patients who have sustained head and neck injuries undergo a clinical evaluation of their pain-processing mechanisms, a psychological evaluation, MRI brain scan, EEG, and genetic profiling. Their clinical condition is then followed up for a period of one year, and the findings are analyzed at study centers in the US, Canada, and Australia. Over 100 patients have already been recruited at Rambam for the study.

STATES

Prof. David Yarnitzky, Director of the Department of Neurology and the study's lead researcher, believes that patients' pain-processing mechanisms and brain structures, as well as genetic and psychological factors, are all involved. "If we can better understand these processes, and build a predictive model, this would be a genuine breakthrough in the field of pain medicine."

"If we can better understand these processes, and build a predictive model, this would be a genuine breakthrough in the field of pain medicine." - Prof. David Yarnitsky



"Out at sea, we don't talk about our illness, we talk about health."



Dr. Noam Benyamini (l), a hematologistoncologist in Rambam's Hematology Department and a passionate rower, imagined that his patients would probably benefit as much from the sport of rowing as he does. How right he was.

#8950





"Having our doctors exercise with us doesn't interfere with the doctor-patient relationship, but makes it so much better." - Effy V.

RAMBAM

Every Friday morning, about 12 men and women, recovered and current patients in their 20s through 60s, meet at the Haifa rowing club to take up their oars. Regardless of their condition, they row with the same determination they use to face their illness. "We don't call this a support group for cancer patients. On the contrary. We don't get together to talk about their medical histories. I wanted to give them a break from all that. Other doctors have joined us, for the fun of it and to support the group. This shared time with the medical staff in a more relaxed setting has great added value."

"I JUST WANT TO SEE MY DAUGHTER SMILE"







S., an Ethiopian doctoral student living in London, found Dr. Zach Sharony of Rambam's Plastic and Reconstructive Surgery Department, and Dr. Omri Emodi, of the Maxillofacial Surgery Department through a simple internet search. Please, he asked, could they help his first child, a daughter, recently born in his home country with a cleft lip and palate?



Dr. Emodi (l) and Dr. Sharony with a local team member

The two surgeons' Ethiopian connection traced back to an Operation Smile delegation they had volunteered in several years earlier, repairing cleft palates in children. As fortune would have it, a return trip to Ethiopia was already on their calendars.

Of the 91 patients the team of surgeons operated on, S.'s daughter was one of them. A year after he sent his first letter, S. forwarded the Rambam surgeons a photo of his daughter, whose smile was worth a thousand words.

REACHING OUT TO





The passage between Israel and the Gaza Strip is severely restricted, yet three times a year, Physicians for Human Rights (PHR) brings Israeli medical teams across the border to deliver humanitarian services.

Dr. Khamaysi (c) with physicians from the Gaza Strip



Dr. Khamaysi receives a Certificate of Appreciation

Director of the Endoscopy Unit at Rambam's Gastroenterology and Hepatology Department, joined three PHR delegations to the Gaza

Strip where he conducted advanced endoscopy workshops including complex ERCP (endoscopic retrograde cholangiopancreatography) procedures.

Over each two-day workshop, Dr. Khamaysi trained local gastroenterologists and surgeons in how to perform this specialized technique for diagnosing and treating diseases of the biliary and pancreatic duct systems. More than 20 cases were performed and discussed during the workshops, which were filmed and broadcast to physicians in hospitals throughout the Gaza Strip.

"In spite of the limited facilities they have, the doctors there are eager to advance their professional capabilities. It is my hope that the borders will one day be open enough so that our colleagues from the Gaza Strip can take advantage of study fellowships that are available here at Rambam."

UGANDA



Dr. Ariel Neiman with patients



During 2016, Rambam physicians took their healing arts and hearts to rural Uganda.

Dr. Ariel Neiman, an intern in the Plastic and Reconstructive Surgery Department, traveled to the remote East-Ugandan town of Kumi, to offer volunteer surgical care as part of a multi-national team organized by Doctors Without Borders.

Over 10 days of 12 hour, non-stop shifts, the team performed 60 operations in an improvised

facility, with minimal supplies, intermittent electricity, and unrelenting dedication. They treated infants, children, youth and adults, for cleft palate, scar repair, burns, congenital deformities, and many more conditions that local services were unable to remedy.



Dr. Noam Bosek (l) and Dr. Neta Petersiel with local patients in Uganda



"In less than two weeks, we transformed the lives of 60 people, and provided essential training to the local medical teams as well. We came home with an incredible sense of satisfaction." - Dr. Ariel Neiman

In a two-month professional and humanitarian immersion, Dr. Neta Petersiel of Rambam's Infectious Diseases Unit, and Dr. Noam Bosek of the Neurology Department, volunteered alongside the staff of a public hospital in one of the most remote and under-served areas of Uganda.

With only minimal facilities and supplies, the two doctors diagnosed and treated patients for diseases they rarely, if ever, encountered in Israel. Yet, for Dr. Petersiel, who serves in Rambam's Clinic of Travel Medicine and Tropical Diseases, the opportunity to see, and treat, these illnesses at the source was invaluable.



MAKING WAVES

TO PREVENT SUDDEN CARDIAC DEATH IN CHILDREN AND YOUNG ADULTS

For 51-year-old Guy Cohen, the motivation to swim 24 hours non-stop to benefit research on prevention of Sudden Cardiac Death (SCD) was deeply personal. After losing his daughter to this devastating affliction on her first day of first grade, Guy wanted to do his part to help prevent others from suffering the loss that he and his family endured.

THE FIRST IN EUROPE IN THE USA ANNUAL SWIM 9,000 6,200 FROM THE HEART PEOPLE PEOPLE RAISED \$61,000 UNDER THE AGE OF UNDER THE AGE OF **35 DIE FROM SCD 35 DIE FROM SCD** FOR SCD EACH YEAR EACH YEAR RESEARCH

Guy was joined in the final hours of his swim by some 650 swimmers of all ages in Swim from the Heart – a unique fund-raiser organized by Rambam which took place in June of 2016. The heartwarming success of the event affirmed that Swim from the Heart would become an annual Rambam, and Haifa tradition.

Rambam's Bench-to-Bedside Center for Prevention of Sudden Cardiac Death (SCD) is dedicated to finding new approaches for early detection, prevention and management to safeguard individuals at risk for SCD.

For more information on how to support or participate in Swim from the Heart, visit: www.swimfromtheheart.org





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Eyal Ofer started his career in the family shipping business, and for him, as it was for his father Sammy Ofer, the maritime life has remained both a global commercial enterprise and an enduring personal passion. But shipping has not been the sole focus of his business legacy. Eyal's entrepreneurial character inspired him to create the family's international real estate of Eyal's professional life. And a deep sense of social commitment, compassion, and dedication to helping others are the guiding features of his

extensive philanthropic efforts. Through the Eyal & Marilyn Ofer Family Foundation, Eyal and his family support a range of educational, artistic and cultural causes.



Eyal Ofer (l) receives Rambam Prize local patients in Uganda

business which has grown over three decades and is today globally renowned in hotels, residential and commercial developments.

In spite of his schooling overseas, Eyal Ofer has a strong Israeli affinity, steeped in Jewish values, forged during his childhood in Haifa and sealed through strong family ties and service in the Israeli Air Force. Eyal's family values of education, hard work, dedication and decency inform every aspect But Eyal Ofer is first and foremost a highly successful businessman, with shipping, real estate and other interests spread across countries around the globe. He once characterized the Israeli businessperson as having "energy, chutzpah,

courage and curiosity." Clearly, these are characteristics that eminently describe the speaker himself.

The sustaining partnership between The Ofer family and Rambam Health Care Campus traces back to the generous and extensive support to the hospital extended by Eyal's father, Sammy Ofer. Rambam's main hospital building – The Sammy Ofer Tower, and the landmark Sammy Ofer Fortified Underground Emergency



Hospital - the largest of its kind in the world, are testaments to his vision and commitment to the safety and wellbeing of Israeli citizens.

For Eyal, his wife Marilyn, and their four children, philanthropy is a primary concern, and a tradition that is passed down over the generations. Their most recent, major gift is enabling the establishment of The Eyal Ofer Heart Hospital at Rambam's West Campus. As CEO of the family foundation, Olivia Ofer played a key role in ensuring that the new hospital project fully embraces and expresses the foundation's vision, standards and values. The new hospital will benefit the citizens of northern Israel, by creating the facilities to deliver top-quality medical care, and support Rambam's cutting edge cardiovascular research program. In recognition of his extraordinary business acumen and philanthropic magnanimity, Eyal Ofer was awarded the 2015 Rambam Award.

RAMBAM HEALTH CARE CAMPUS 2008

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

\$19 M RAISED IN 2016 2,040 DONORS 33% INCREASE IN NEW SUPPORTERS

2009



Dear Friends,

I often feel like our friends and supporters are a great, extended family. And the ties become that much stronger when these relationships span the generations. This past year, we marked three major milestones in the development program for our West Campus – all distinguished by strong multi-generational connections.

During 2016, with the completion of its last remaining departments, The Ruth Rappaport Children's Hospital began operating at full capacity. What began with Bruce and Ruth Rappaport's desire to help the children of northern Israel, was translated into the creation of a national flagship for pediatric care, thanks to their daughter Irit's dedication and uncompromising vision.

This past year also saw the opening of The Joseph Fishman

Oncology Center – the realization of the late Joseph Fishman's wishes to provide cancer patients with the best possible facilities, lovingly carried out together with his devoted family.

Perhaps nowhere is the family tradition of giving to Rambam more fully expressed than by

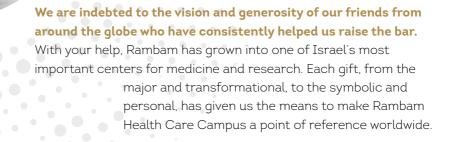
the Ofer family. Sammy Ofer's legacy is clearly evident in both the main tower and the fortified underground emergency hospital that bear his name. In 2016, his son Eyal announced that the Eyal and Marilyn Ofer Foundation would be providing the lead gift to establish the The Eyal Ofer Heart Hospital. We are working closely with Olivia Ofer, CEO of the family foundation and the third generation of the Ofer family, to create a facility worthy of our shared vision.

In terms of growth of our health care campus, 2016 was an exceptional year. We raised \$19 Million from 2,040 donors in 27 countries, representing a 33% increase in new supporters. This achievement would not have been possible without the dedicated and professional work of our Friends Associations here and around the world, who graciously devote time and resources to raise awareness about Rambam. The roots of our dynamic, growing campus run deep, and we acknowledge with gratitude all of the donors and foundations who accompanied us over the years to help build the strong foundations from which we can soar.

To our family of friends, please consider the Rambam Health Care Campus as a warm and welcoming home. Every day we host visitors and delegations from around the world, many of whom find in Rambam a worthy partner for their philanthropic aspirations. I invite you to join us as we shape the future of healthcare in Israel.

Yours, **Dr. Esty Golan**





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Avi Weissman, MD Director, Medical Operations

Michal Mekel, MD Hospital Administration

Lior Lowenstein, MD Hospital Administration

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

Eyal Fruchter, MD Director, Division of Psychiatry

Doron Norman, MD Director, Division of Surgery

Benjamin Brenner, MD Director, Division of Internal Medicine

Zeev Weiner, MD Director, Division of Gynecology and Obstetric



Michael Halberthal, MD Deputy Director

Nissim Haim, LLM Deputy Director (C.O.O.)

Gila Hyams, RN, MA Director of Nursing





















































Itzhak Beiran, MD Director, Ambulatory Care

Michal Paul, MD Director, Infectious Diseases Institute

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

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

Ariye Berkoviz, MA Director, Department of Engineering, Rambam Health Corporation

Sara Tzafrir, BSc, MA Chief Information Officer

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

Ziv Sharon, MA Treasurer

Ronit Almog, MD Director, Epidemiology Unit and Biobank

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

Khetam Hussein, MD Director, Infection Control Service

Leon Levi, MD Assistant to the General Director; Director, Medical Administration Unit

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

Zahava Talmor, MA Assistant to the General Director

David Ratner, MA External Relations & Spokesperson

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

Oded Mayer, BA Director, Marketing Department





NEW APPOINTMENTS 2016



Rambam HCC Director, Professor Rafi Beyar greets newly appointed directors:

I-r: Amir Kugelman, MD, Director, Department of Nenatalogy and NICU
Asaf Miller, MD, Director, Medical intensive Care Unit
Mony Benifla, MD, Director, Pediatric Neurosurgery Unit
Naim Shehadeh, MD, Director, Endocrinology Institute
Ella Veitsman, MD, Director, Liver Disease Center
Rafi Beyar, MD, DSc, Director, Rambam HCC
Myriam Ben-Arush, MD, Director, Division of Pediatric
Yehuda Chowers, MD, Director, Clinical Research Institute at Rambam (CRIR)
Dan Hutt, MD, Director, Hand & Microsurgery Unit
Eyal Fruchter, MD, Director, Division of Mental Health

Research Career Development Programs at Rambam HCC

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 Basic and Translational Research Grants for Residents

> **Rimma Laufer-Britva, MD** Department of Dermatology

Tom Friedman, MD Department of Cardiac Surgery

Neta Golomb, MD Department of Anesthesiology

*Formerly known as Atidim

The Horizons^{*} Program

Basic and Translational Research Grants for Young Senior Physicians

> Shlomit Strulov Shachar, MD Oncology Section

Itay Maza, MD PhD Gastroenterology Institute

Michal Meir, MD Pediatric Infectious Diseases Unit

*Formerly known as Ofakim

The Guardian Program

Research & Innovative Practice Nursing Grants

Mor Saban, MA Department of Emergency Medicine

Beata Miller, MA Department of Ophthalmology

Khalil Namora, MA Department of Internal Medicine B

Dmitry Rozenfeld, MA and Yael Safran, MA Department of Neurology

> **Dmitry Rozenfeld, MA** Department of Neurology

Shiri Soudry, MD Department of Ophthalmology

The Spark^{*} Program

Prototypes, Feasibility, and IP Protection for Medical Innovations

Josef Ben-Ari, MD and Amir Hadash, MD Department of Pediatric Intensive Care

*Formerly known as Nitzoz

2016 Rambam Award

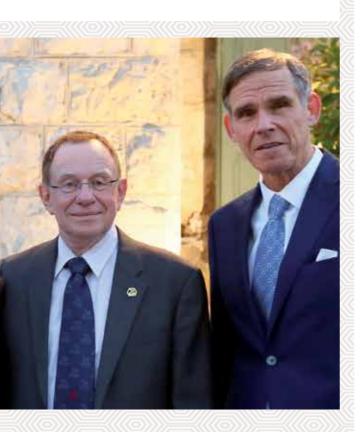
Professor Emeritus William R. Brody, USA

Professor Eric J. Topol, USA

Mr. Sandor Frankel and The Leona M. and Harry B. Helmsley Charitable Trust, *USA*

l-r: Ms. Ruth Frankel, Mr. Sandor Frankel, Professor Emeritus William R. Brody, Professor Rafi Beyar, Professor Eric J. Topol

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



COMMITTEE

Professor Rafi Beyar Director and CEO, Rambam HCC

Professor Karl Skorecki

Director of Medical and Research Development, Rambam HCC

Professor Yehuda Hayuth

Chairman, Israeli Friends of Rambam

PREVIOUS RECIPIENTS 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 Mr. Sammy Ofer, of blessed memory Rabbi Elimelech Firer Professor Moshe Revach

HONOR ROLL 2016

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 Youdim 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.

2016 Awardee

Yardena Samuels, PhD

Incumbent of the Knell Family Professorial Chair Department of Molecular Cell Biology The Weizmann Institute of Science

2016 Special Prize Ido Wolf, MD Head, Oncology Division Head, Endocrine-Oncology Laboratory Tel Aviv Sourasky Medical Center

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.

2016 Awardee

Yuval Dor, PhD

Department of Developmental Biology and Cancer Research, The Hebrew University Research title: Analysis of cell death in specific human tissues using the methylome of cell free, circulating DNA

COMPETITIVE GRANTS 2016

Asaf Foundation Dr. Elena Milner *IVF Unit*

Chief Scientist Office Ministry of Health Dr. Yaron Berkovich & Dr. Yaniv Keren Orthopedics Section

Prof. Michal Paul Infectious Diseases Unit

European Commission -FP7 program Dr. Amir Hadash (awarded in 2013) Pediatric Intensive Care Unit

European Society of Anaesthesiology Dr. Dana Baron Shahaf Department of Anesthesiology

Israel Association of Family Physicians Dr. Ya'akov Fogelman Pain Relief Unit

Israel Cancer Association (ICA) Prof. Tzila Zuckerman Hematology and Bone Marrow Transplantation Section

Dr. Moran Amit Department of Otolaryngology Head and Neck Surgery

Dr. Fahed Hakim Pediatric Pulmonary Unit

Prof. Daniel Kurnik Clinical Pharmacology Unit

Dr. Oz Mordechai Department of Pediatric Oncology and Hematology Israel Gastroenterology Association Dr. Itay Maza Gastroenterology Institute

Israel Innovation Authority (Formerly the Office of the chief Scientist) Dr. Yaron Bar-Lavie Division of Critical Care

Prof. Yehuda Chowers Gastroenterology Institute

Dr. Jacob Cohen Department of Otolaryngology Head and Neck Surgery

Prof. Lior Gepstein Cardiology Section

Israel Ministry of Environmental Protection Dr. Ronit Almog Epidemiology Unit

Prof. Ido Solt Division of Obstetrics & Gynecology

Israel Science Foundation (ISF) Prof. Judith Aharon-Peretz Cognitive Neurology Unit

Prof. Tzvi Dwolatzky Geriatric Services

Dr. Irit Hochberg Institute of Endocrinology, Diabetes and Metabolism

Dr. Shiri Soudry Department of Ophthalmology

Dr. Hadar Zigdon Department of Periodontology

Israel Society of Anesthesiologists Dr. Dana Baron Shahaf Department of Anesthesiology Israel Society of Cardiothoracic Surgery Dr. Tom Friedman Department of Cardiac Surgery

Jewish Community Federation & Endowment Found Prof. Elon Eisenberg Pain Relief Unit

Lady Tata Memorial Trust Dr. Shlomit Yehudai-Reshef Hematology and Bone Marrow Transplantation Section

Takeda Pharmaceutical Company Limited Prof. Yehuda Chowers Gastroenterology Institute

The Israel National Institute for Health Policy Research Prof. Gil Barsela Division of Oncology

Prof. Eldad Dann (Awarded in 2014) Blood Bank

Prof. Tzvi Dwolatzky Geriatric Seruices

Dr. Khetam Hussein Infectious Diseases Unit

The Israeli Society of Nephrology and Hypertension Prof. Zaid Abassi Department of Vascular Surgery

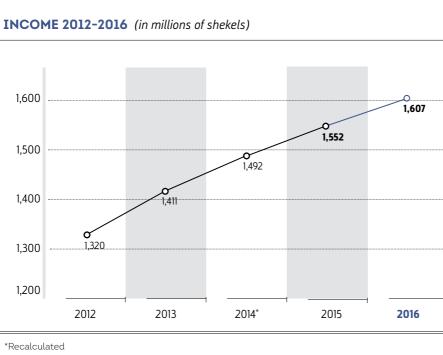
The Jewish Agency for Israel & United Israel Appeal Prof. Karl Skorecki Medical and Research Development

The Leona M. and Harry B. Helmsley Charitable Trust Prof. Yehuda Chowers Gastroenterology Institute

STATEMENT O	FACTIVITIES	(in millions	of shekels)
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	2016	2015*
INCOME:		
Medical services rendered	1,504	1,459
Donations	44	39
Research projects	42	39
Other	17	15
	1,607	1,552
ALLOCATIONS:		
Building, construction and renovation	36	52
Medical equipment	21	22
Computerized equipment	5	3
Other equipment and supplies	6	7
	68	84
EXPENSES:		
Salaries	1,115	1,059
Medical and technical equipment	236	238
Maintenance	80	76
Operating expenses	218	185
General administrative expenses	90	91
	1,739	1,649
Full reports are available upon request.		

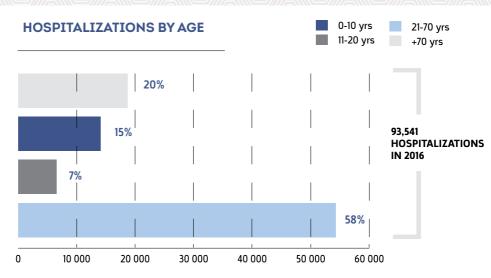
*Recalculated



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PATIENT CARE

	2016	2015	
Annual admissions	93,541	91,025	
Total patient days	355,453	352,627	
Emergency department visits	138,102	135,005	
Outpatient visits	699,161	687,750	
Total patients treated	254,894	252,236	
Imaging procedures	272,616	267,974	
Laboratory exams	12,667,852	12,458,158	
Surgical procedures	57,789	55,359	
Deliveries	5,114	5,393	
Average occupancy	95%	96%	

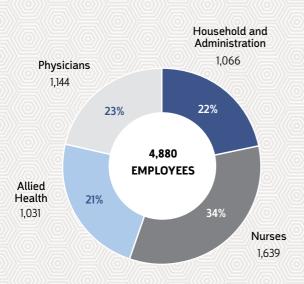


RESEARCH

	2016	2015
New research	441	442
Active research	1,626	1,473

EMPLOYEES AND CAPACITY

EMPLOYEES BY SECTOR



OVERALL CAPACITY

- Hospital beds 965
- Medical institutes 40
- Inpatient wards 61
- Specialization units 73
- Outpatient clinics 114



Learn more about Rambam

www.rambam.org.il

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Rambam Health Care Campus

P.O.B. 9602 Haifa 3109601, Israel Tel. +972 (4) 777-2919 contactus@rambam.health.gov.il www.rambam.org.il

Editorial Board

Professor Tzvi Dwolatzky *Chief Medical Consultant*

Oded Mayer Director of Marketing

Abbie Rosner Writer & Editor

Merav Ganot Coordinator

Special Thanks

Tamar Alfassi Shirley Erulkar Larisa Halif Deborah Hemstreet Dganit Kenig David Ratner Inbar Shahaf Photography Miki and Gal Koren

Design

CastroNawy

Netanel Ayzik Morag Betan Pioter Fliter Ofer Golan Zohar Shahar Yuval Sourasky Eran Yardeni Ben Yuster Nitzan Zohar

American Friends of Rambam

www.aforam.org info@aforam.org (212) 292-4499

Canadian Friends

of Rambam www.cfram.ca info@cfram.ca (416) 481-5552

British Friends

of Rambam (Rambam UK) www.rambamuk.co.uk support@rambamuk.co.uk (208) 343-8749

French Friends

of Rambam joelleabitbol16@gmail.com (33) 7 82 53 71 10

Spanish Friends of Rambam

www.amigosderambam.org info@amigosderambam.org (609) 580-268

Friends of Rambam in India

ralphy44@gmail.com (98) 191-113-40

Israeli Friends of Rambam

www.rambam.org.il y_aguda@rambam.health.gov.il (04) 852-0670

Israel Main Office & All Other Countries

www.rambam.org.il ContactUs@rambam.health.gov.il +972 (4) 777-2919







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