

#### **OUR MISSION**

Cedars-Sinai Health System, a nonprofit, independent healthcare organization, is committed to:

- Leadership and excellence in delivering quality healthcare services.
- Expanding the horizons of medical knowledge through biomedical research.
- Educating and training physicians and other healthcare professionals.
- Striving to improve the health status of our community.

Quality patient care is our priority. Providing excellent clinical and service quality, offering compassionate care, and supporting research and medical education are essential to our mission.

This mission is founded in the ethical and cultural precepts of the Judaic tradition, which inspires devotion to the art and science of healing, and to the care we give our patients and staff.



For more than a century, Cedars-Sinai has been known for providing the highest quality medical care and treatment for complex conditions. That tradition continues today as truly amazing things are accomplished for our patients on a daily basis in our medical center, the flagship of Cedars-Sinai Health System.

As an organization with a longstanding commitment to meeting the community's changing needs for healthcare, and in response to increasing regional demand for Cedars-Sinai quality, we have been enhancing access to Cedars-Sinai care in a variety of ways.

Today, thousands of people receive care from Cedars-Sinai at locations other than our medical center campus. And that number will increase significantly as we continue to expand our affiliations and community partnerships throughout the region.

Over the past several years, we have expanded access through a number of affiliations with high-quality physician groups and other healthcare organizations that share our patientcentered values. This year, we also opened a satellite office in Culver City that offers primary care and urgent care, and acquired the nearby

Vera Decerim

VERA GUERIN Chair, Board of Directors

LEADERSHIP MESSAGE

Marina Del Rey Hospital. Future affiliations and satellite offices will include an even wider diversity of communities throughout the region.

We are increasing access to Cedars-Sinai in many other ways, especially for the most vulnerable populations.

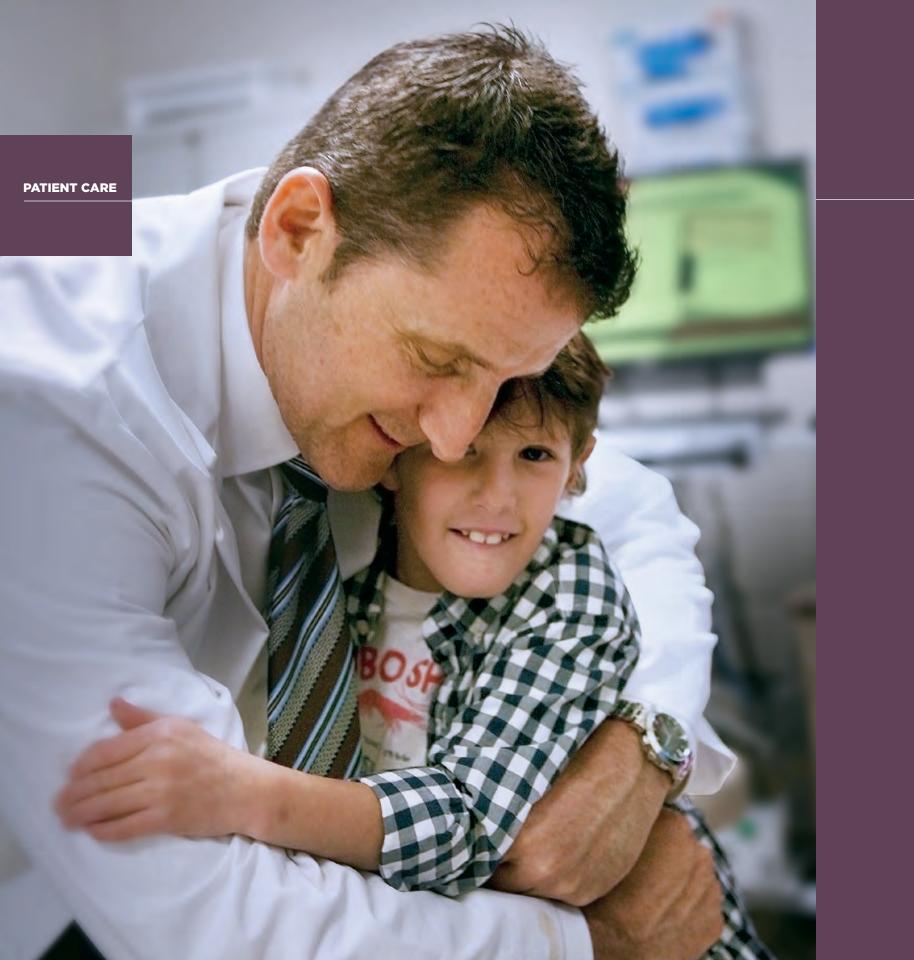
Cedars-Sinai continues to provide hundreds of millions of dollars each year in unreimbursed care for people without any insurance and for those with Medi-Cal and Medicare government programs that pay only a portion of the cost of caring for those patients.

This year, we expanded our community grant activities with the launch of a new Community Clinic Initiative: Strengthening L.A.'s Safety Net. Although the Affordable Care Act has reduced the number of uninsured in the nation, it also has increased the demands on the community clinics that are often the entryway for care for the most vulnerable. This initiative provides funding for capacity-building projects to ensure that these organizations can continue effectively carrying out their important role as we work together to meet the health needs of Los Angeles' underserved communities.

We are grateful to all those in our community whose support and partnership enable us to do all this and much more. Together, we are transforming healthcare in countless ways to benefit patients and strengthen communities.

Thomas M. Jusela

THOMAS M. PRISELAC President and CEO



# Patient Care

Since its creation in 1902, Cedars-Sinai has evolved to meet the healthcare needs of one of the most diverse regions in the nation, continually setting new standards in quality and innovation. Today, the institution is widely known for its national leadership in transforming healthcare for the benefit of patients through established and pioneering treatments. It offers comprehensive care for every generation, from fragile preemies to seniors. Cedars-Sinai's 2,000 physicians, 2,800 nurses and thousands of other healthcare professionals collaborate to offer high-quality primary care as well as specialized care for complex and advanced diseases. These diverse caregivers are united by a commitment to providing the best care to every patient.



Inflammatory bowel disease (IBD), the umbrells term for conditions causing severe inflammator of the digestive tract, can add significant risk of miscarriage, premature delivery or low birth weight. To Trate sepectant mothers' conditions safe pregnancies, cedars-Sinal event biptor safe pregnancies, cedars-Sinal is making usevere inflammator of the digestive tract, can add significant risk of miscarriage, premature delivery. To Totate sepectant mothers' conditions cedars-Sinal is making severe inflammatory birth weight cedars-Sinal is denover delivers/ to household surveys, the honor schowledges the biptor codars-Sinal event safe pregnancies, cedars-Sinal is denover delivers/ to surveys, the honor schowledges the biptor codars-Sinal event safe pregnancies, cedars-Sinal is denover delivers/ the value tracts cedars-Sinal is denover delivers/ the value tracts cedars-Sinal is denover delivers/ the value tracts the only hospital in the surveys and tracts the only hospital in the survey and tracts the only hospital in the survey and tracts the only hospital in the survey and the surveys the only hospital in adverse the survey and surveys the only hospital in adverse the survey and surveys the durit further to as word the surveys the durit surveys the du	PATIENT CARE	HOPE FOR EXPECTANT IBD PATIENTS	CONSUMERS CHOOSE CEDARS-SINAI	EXPANDING OUR GEOGRAPHIC FOOTPRINT	SAFE DELIVERY	TAKE NOTE	SUPPORTIVE CARE MEDICINE
a surgical optionrated their hospitalset to open by the end of 2016.keeping mothers andconvenient, efficientemotional and spiritualfor some patientspreferences basedend of 2016.infants together, andand effective.support. The teamsuffering fromon quality, image,transferring the babyalso aids patients withulcerative colitis.reputation, physiciansonto the mother'sthe complex issuesand nurses.chest for skin-to-skinsurrounding advanceafter delivery.after delivery.and end-of-life issues.		disease (IBD), the umbrella term for conditions causing severe inflammation of the digestive tract, can add significant risk of miscarriage, premature delivery or low birth weight. To treat expectant mothers' conditions while helping ensure safe pregnancies, Cedars-Sinai created a new multidisciplinary program, Pregnancy and Fertility in IBD. The program, along with new IBD multidisciplinary clinics, will provide highly coordinated care for patients with chronic illness who often are on immunosuppressive treatments. Other coordinated care programs for IBD patients cover nutrition and mental health as well as ileoanal anastomosis, a surgical option for some patients suffering from	For the 19th straight year, Cedars-Sinai earned a Consumer Choice Award from the National Research Corporation. Based on household surveys, the honor acknowledges the highest quality of medical care across the nation. This year, Cedars-Sinai was the only hospital in Los Angeles County honored for best overall healthcare, staff and reputation. Cedars-Sinai is one of only 35 hospitals nationwide to have won or shared the award in its local market every year since the award's launch in 1996. More than 290,000 households nationwide were contacted for the survey, including more than 9,600 in Los Angeles County. Respondents rated their hospital preferences based on quality, image, reputation, physicians	Cedars-Sinai is making it easier for more people to access coordinated, quality care with several new affiliations and expansions. Among them are: Marina Del Rey Hospital, a 145-bed community hospital, and its internal medicine practice, Access Medical Group; a Culver City location with full-service urgent care as well as primary care for children and adults; a gastroenterology practice in Santa Monica; and Valley Internal Medicine, which provides primary care for adolescents to seniors. Cedars-Sinai also will have a significant presence in the new mixed-use development Runway Playa Vista, with urgent, primary and specialty care offices set to open by the	section occurs during a first pregnancy, it puts the woman at increased risk for complications in future pregnancies (such as repeat cesarean delivery). The Department of Obstetrics and Gynecology is committed to a substantial reduction of births by cesarean section. At Cedars- Sinai, the percentage of women who successfully deliver vaginally after having once had a cesarean is significantly higher than the national measure. For those cases in which a cesarean delivery is necessary, an obstetrics-gynecology task force is working to standardize methods for "gentle" or "natural" cesareans. The gentle approach emphasizes parental involvement, keeping mothers and infants together, and transferring the baby onto the mother's chest for skin-to-skin contact immediately	As part of OpenNotes, a national initiative to improve patient engagement by enabling real-time access to records, Cedars-Sinai has rolled out a program that lets patients view their doctor's progress notes via the secure My CS-Link <sup>™</sup> portal. Approximately 30 Cedars-Sinai Medical Group, faculty and private practice physicians volunteered to participate in the pilot. Their patients can log on to My CS-Link to review each progress note after it is completed, although physicians will be able to hide specific notes if they wish. The program is one of many launched by Cedars-Sinai that incorporates and encourages patient feedback to help make care more convenient, efficient	Misconceptions about palliative care are giving way to greater awareness of how patients with advanced, life- limiting — but not necessarily terminal — illnesses can benefit from a clinical team dedicated to alleviating suffering and improving quality of life. At Cedars- Sinai, palliative care has come of age with the integration of inpatient, outpatient and cancer center services into a single program, Supportive Care Medicine. The program tends to the comfort and wellbeing of patients in a variety of healthcare settings, from hospital to home. Supportive Care Medicine services include providing complex pain and symptom management for patients as well as emotional and spiritual support. The team also aids patients with the complex issues surrounding advance healthcare directives

The average length of stay by premature babies in Cedars-Sinai's Neonatal Intensive Care Unit is now 17 days, down from 21.



#### SHORTER STAYS FOR PREMATURE INFANTS

Thanks to a range of medical advances, the time spent by premature babies in Cedars-Sinai's Neonatal Intensive Care Unit, part of the Maxine Dunitz Children's Health Center, has declined dramatically during the past three years. The average length of stay is now 17 days, down from 21. The reasons include rigorous coordination to meet each baby's complex health needs, personalized nutrition therapy to ensure crucial weight gain, nonsurgical procedures to heal heart defects and new medical protocols for mothers likely to deliver a premature infant.

	INTERDISCIPLINARY,	ALZHEIMER'S			ANEURYSM BY	
PATIENT CARE	INPATIENT HOSPICE	PREVENTION	TOP PERFORMANCE	FIRST WATCH	A THREAD	'MOST WIRED'
	Cedars-Sinai's new	Cedars-Sinai	For the eighth	Cedars-Sinai proved	Each year, half	For the third
	inpatient hospice	has launched	consecutive year,	crucial to the testing	a million people	consecutive year,
	program ensures that	the Alzheimer's	Cedars-Sinai Medical	that led to Food and	die from brain	Cedars-Sinai ranked
	patients experiencing	Prevention Program to	Group ranked	Drug Administration	aneurysms — when	among the "most
	acute symptoms at	help identify patients	among the top-	(FDA) approval of	a blood vessel bursts	wired" U.S. hospitals
	the end of life receive	at risk of developing	performing physician	the WATCHMAN —	in the brain. Such	and health systems in
	the best care possible.	the disorder and	organizations in	a device for patients	ruptures are fatal	a survey conducted
	The institution has	to reduce the	California. This "top	at risk of stroke from	about 40 percent	by Hospitals &
	engaged a leading	impact on those	performer" ranking	blood clots. Surgeons	of the time, and	<i>Health Networks,</i> a
	national hospice	already diagnosed.	comes from the	at the institution	many survivors	publication of the
	organization to	It represents a	Integrated Healthcare	also were among the	suffer permanent	American Hospital
	collaborate in the	concerted effort	Association — a	first to implant the	neurological deficits.	Association. Among
	delivery of care for	by clinicians,	nonprofit, statewide,	device in patients	Cedars-Sinai's	the advances that
	these vulnerable	researchers, patients,	collaborative	after FDA approval.	Neurovascular	helped earn the 2015
	patients. Care plans	families, caregivers	leadership group	The WATCHMAN,	Center offers new	distinction were
	for enrolled patients	and community	that promotes	which looks like	technologies that	upgrades to My
	will be managed	agencies to address	quality improvement,	a tiny umbrella, is	could increase the	CS-Link™. Not only
	closely every day	the approaching	accountability and	inserted through a	survival rate. By	can patients now
	by interdisciplinary	"tsunami" of	affordability for the	catheter into the groin	threading a catheter	access this secure
	Cedars-Sinai providers,	Alzheimer's disease —	benefit of California	and threaded up to	into the aneurysm	medical record system
	including an attending	with cases expected	consumers. The	the heart, where it	and then coiling in	online 24/7, but they
	hospice physician,	to triple nationally by	organization ranks	seals off a pouch on	platinum wires to	also can connect their
	other doctors who	2050. The program	performance based	the left side of the	promote clotting,	wearable devices to
	have been involved	seeks to identify	on data on clinical	heart that is a major	doctors can lessen	the portal to share
	in the patient's care	patients in the early	quality, patient	source of dangerous	the likelihood of	important biometrics
	and the hospice	stages of the disease,	experience, advanced	blood clots. The seal	another aneurysm.	with their clinical
	organization's team.	when interventions	use of information	prevents clots from	The procedure can be	team. The institution
	If a patient's acute	and treatments can	technology and	flowing to the brain	done inside the artery	also implemented a
	pain or symptoms are	have the biggest	coordinated diabetes	and causing stroke.	rather than surgically	bidirectional interface
	brought under control	impact, and to provide	care. On multiple	The procedure allows	opening the skull or	between intravenous
	and the patient is	patients and families	occasions, Cedars-	patients to return to	brain, thus reducing	pumps and CS-Link,
	clinically stable, the	with comprehensive,	Sinai Medical Group	their usual activities	blood loss and	which will reduce
	team will work to	long-term care and	also has been	within a few days and	speeding recovery.	the potential of
	seamlessly transition	education. It also	awarded Elite status,	is ideal for those for		medication errors.
	the patient to another	will serve as a hub	the highest possible	whom blood-thinning		Cedars-Sinai is one
	care setting outside	for clinical trials	designation for quality	drugs would be risky		of just 338 health
	the hospital with	of experimental	care recognized	or ineffective.		systems nationally
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by the California

Physician Groups.

Association of

Alzheimer's drugs,

including several

being studied at

Cedars-Sinai.

continued hospice

care.

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Pharmacists play a pivotal role on the healthcare team, providing optimal management of medications and forming a "safety net" for patients.



Clinical pharmacist Stacey Cho, PharmD

to receive the

recognition.

#### PRESCRIPTION FOR IMPROVING HEALTH

Pharmacy Services at Cedars-Sinai has implemented an outpatient program to support patients with complex medical conditions. For instance, transplant and cancer patients have special medication needs that require an evaluation of the patient's entire medication regimen to prevent contraindications and determine appropriate dosing. At least 50 percent of chemotherapy drugs in development are oral agents. These drugs are not generally wellstudied in pediatric and geriatric populations and therefore require careful monitoring. A team-wide effort helps patients understand how to take their prescriptions, what to do if they miss a dose, how to manage side effects and how to dispose of medications when they are no longer needed — as well as following up to ensure adherence to the prescribed regimen.

PATIENT CARE	ICU IN MOTION	NATIONAL LEADER IN HEART TRANSPLANTS	SPORTS MEDICINE ADDS TO ROSTER	POST-CANCER SUPPORT	FROM YOUR WRIST TO YOUR MEDICAL RECORD	OPTIMAL OPERATIONS
	Patients admitted to intensive care units often have limited or no mobility, which can lead to complications such as delirium, bedsores, and loss of muscle tone and endurance. To address this, a team at Cedars- Sinai has launched an ambitious pilot project to help return as much movement as possible to patients. The early mobility program employs verbal cues, light to moderate exercise, and assistance from loved ones to motivate patients and get them moving again.	The Cedars-Sinai Heart Institute completed 120 adult heart transplants and two adult heart- lung transplants in 2014, setting a new national record for the most adult heart transplants performed in a single year. The previous year, Cedars-Sinai surgeons performed 117 adult heart transplants and two adult heart-lung transplants. Until then, the most heart transplants performed at a single medical center in one year was 98, a record set in 2005. Statistics are compiled by the nonprofit United Network for Organ Sharing, which manages the U.S. transplant system and collects data on every transplant performed in the nation.	Two of the nation's most prominent orthopedic and sports medicine physician groups — Kerlan-Jobe Orthopaedic Clinic and Santa Monica Orthopaedic & Sports Medicine Group — are now formally affiliated with Cedars-Sinai. The affiliation includes the two groups' clinics, imaging and surgery centers, and research and fellowship training programs. These collaborations augment the renowned Cedars- Sinai Orthopaedic Center roster, enabling expanded clinical trials and research as well as collaborative consultations on complex cases. Initiatives facilitated by these partnerships include stem cell therapies and other molecular and cellular- based experimental treatments for sports injuries, and new approaches that minimize surgery whenever possible.	Even after beating cancer, survivors face significant hurdles in returning their lives to normal. Post-cancer challenges can include chemotherapy- related cognitive impairment, fatigue and depression — conditions that can linger for weeks or months after treatment. Cedars- Sinai provides patients with post- cancer rehabilitation services to help them overcome these issues. Participants in the 12-week survivorship program learn meditation techniques to deal with their fears, receive exercise instruction — as the lack of aerobic workouts may increase the risk of recurrence — and get help in building healthy eating habits. The classes enroll about six patients apiece, allowing for a close-knit group with personalized counseling and	Now, Cedars-Sinai patients with My CS-Link <sup>™</sup> accounts can upload data from their personal health devices so the information syncs with their medical record. The Apple HealthKit integration works with Apple Watch, iPhone, iPod touch, and Withings scales and blood pressure monitors as well as Fitbit and Nike+ Fuel products. The launch was the largest to date for Apple, with more than 80,000 Cedars-Sinai patients gaining the ability to share their steps and other data with care teams.	To enhance the quality of care it provides and to help patients prepare in advance for both surgery and recovery at home, the Cedars-Sinai Orthopaedic Center undertook an internal review of its entire operative process. Orthopaedic Center nurses worked with nurses in the operating room and post-anesthesia care unit, observed physicians in surgery and followed patients from their initial consultation through recuperation from surgery. The initiative resulted in an 11 percent decrease in patient questions. Orthopaedic Center physicians perform an average of 50 procedures weekly, and most patients return home the same day.

training for each cancer survivor.

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"I was so glad to come here and to know I'd be with the best specialists."

-Teresa Cuevas' pregnancy complication at age 20 may have led to her cardiac arrest at age 36. She turned to Janet Wei, MD, of the Barbra Streisand Women's Heart Center at the Cedars-Sinai Heart Institute, to monitor her heart health throughout her most recent pregnancy.



#### ENHANCED CARE FOR MOTHERS' HEARTS

In women – especially young women pregnancy can be the first real stress test for the heart. To screen women with adverse pregnancy outcomes for long-term risk of cardiovascular disease, the Barbra Streisand Women's Heart Center at the Cedars-Sinai Heart Institute has launched the Postpartum Heart Health Program. Using a relatively new concept in women's health, the program aims to identify individuals with a high trajectory of risk and to intervene quickly. It aims to become a tertiary referral center for these women to help them reduce their long-term risk of heart disease. Adverse pregnancy outcomes include gestational diabetes and hypertension, preeclampsia, postpartum hypertension and spontaneous preterm delivery.

PATIENT CARE	TRUST YOUR GUT	ADVOCATES FOR QUALITY CARE	ALS CENTER OF EXCELLENCE	PEA POD FOR PREEMIES	CANCER CARE IN MORE COMMUNITIES	PHYSICIAN-PATIENT RELATIONSHIPS
	Millions of people afflicted with irritable bowel syndrome (IBS) now can be diagnosed quickly and accurately with two simple blood tests developed by a Cedars-Sinai gastroenterologist. Toxins produced by bacteria, such as salmonella, can severely harm the digestive system by damaging nerves critical to healthy gut function. The new blood tests — marketed under the name IBSchek — identify the presence and amount of specific antibodies that react to the toxins. IBS is the most common gastroenterological disorder in the U.S., affecting nearly 40 million people. An estimated 10 percent of the world's population suffers from the condition.	Cedars-Sinai's Physician Advocate Program is defining a new frontier in patient care. Physician advocates help enhance quality, efficiency and patient satisfaction by acting as eyes and ears for attending medical staff during daily, multidisciplinary progression-of-care rounds. Preliminary results are encouraging. Data shows that the average length of stay is shortened by almost two days in units in which physician advocates participate in multidisciplinary rounds, and these reductions showed no statistically significant increase in the readmission rate. The growing program now has five physician advocates.	The ALS Program at Cedars-Sinai has become the first in Southern California to be named an ALS Association Certified Treatment Center of Excellence. The distinction recognizes the quality of Cedars- Sinai's research and treatment of the progressive neurological disease amyotrophic lateral sclerosis (ALS). To earn certification, Cedars-Sinai met rigorous standards established by the ALS Association for research initiatives and a comprehensive and collaborative approach to patient care and services. Cedars-Sinai's program is exploring a variety of ways to treat ALS, including stem cell and gene therapies — all aimed at developing effective, personalized interventions.	A new device called the Pea Pod — which is used to measure the body composition of infants — made its debut in the Maxine Dunitz Children's Health Center. The baby is placed inside the heated, swaddle-like unit for approximately three minutes. Using an air- displacement method, the machine senses changes in pressure and can determine the percentage of body weight that is fat and the percentage that is lean body mass. With this information, caregivers can personalize the baby's nutritional supplements to help ensure appropriate weight gain.	The Angeles Clinic and Research Institute in Santa Monica has followed Tower Hematology Oncology Medical Group in joining the Cedars- Sinai Samuel Oschin Comprehensive Cancer Institute. These affiliations strengthen Cedars- Sinai's oncology partnerships and expand the ability to provide clinical care to cancer patients in the Los Angeles area and beyond.	A new initiative is improving the value of care by strengthening patient-doctor bonds and bringing greater efficiency to the delivery of clinical services. The Cedars- Sinai Center for Outcomes Research and Education seeks to transform the ways patients, doctors and hospitals communicate through innovations such as wearable biosensors that track patients' vital signs and activities at home, then instantly transmit that data to electronic medical records. Researchers also are developing computer programs that will allow patients to complete their medical histories online — saving time while providing up- to-date information for doctors. The team is exploring social media as a clinical communication tool

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Cedars-Sinai was among the first hospitals in the nation to integrate smart IV pumps with the electronic health record.

STRONGER

as well.



Mark Quevedo, RN, a nurse on 7 Northwest, works in a unit equipped with the new IV pumps.

## AUTOMATING IV INFUSIONS

Working closely with their pharmacy colleagues, Cedars-Sinai nurses in 42 adult patient units successfully switched to an automated system for administering IV infusions. The institution was among the first in the nation to reduce the potential for programming errors at the bedside by linking smart IV pumps with the electronic health record. Information from Cedars-Sinai's medication administration record is transferred from CS-Link<sup>™</sup> to IV pumps so nurses no longer have to punch in numbers such as the correct dose, concentration and infusion rate. The transition involved training nurses in new, standardized infusion practices. They will continue to learn new workflows as the automated system is expanded to include more medications and additional medical units.

A STRIKE AGAINST THE SILENT KILLER	COMFORT CARTS	BREAST CENTER EARNS NATIONAL ACCREDITATION	MENDING A HOLE IN THE HEART	WORLDWIDE CONSULTATIONS	AMERICA'S BEST HOSPITALS
The Cedars-Sinai Hypertension Center has been certified as a Comprehensive Hypertension Center by the American Society of Hypertension, the largest organization of clinical hypertension specialists and researchers in the United States. Cedars- Sinai's center is one of only a dozen in the nation to earn the designation — and the only one in California. The certification recognizes Cedars- Sinai's advanced, multidisciplinary care for patients who have difficult-to-treat hypertension and related conditions. Hypertension, or high blood pressure, is called a silent killer because patients often don't experience symptoms. The condition contributes to nearly 1,000 deaths each day, according to the U.S. Centers for Disease Control and Prevention.	Little things often make all the difference in patient care and, in 2015, Cedars-Sinai volunteers have been on a roll, bringing lots of goodies to patients via two new "comfort carts." The carts offer items to enhance patients' experience and satisfaction, including eye masks, earplugs and crossword puzzles. Cedars-Sinai volunteers travel from floor to floor and room to room, greeting patients and offering them wares from the cart. The items, handed out daily by participants in the Teen Volunteer Program and the Transforming Care at the Bedside volunteer program, are free for patients. The carts not only bring little amenities to hundreds of patients each day, but they also provide a vehicle for social interaction with patients — which the volunteers enjoy as well.	The Saul and Joyce Brandman Breast Center - A Project of Women's Guild, in the Samuel Oschin Comprehensive Cancer Institute, has received accreditation from the National Accreditation Program for Breast Centers. To be recognized, the breast center had to meet numerous standards, including offering genetic counseling when applicable, instituting mechanisms to inform patients of available clinical trials and connecting patients with nurse navigators. This represents the breast center's first accreditation, and the recognition will aid the cancer institute in achieving its academic and clinical goals. The American College of Surgeons administers the accreditation program.	A new technique for repairing patent ductus arteriosus (PDA) — the most common cardiac birth defect in newborns, often called a "hole in the heart" — has been used successfully in six premature infants, sparing them open-heart surgery. A team in the Cedars-Sinai Heart Institute's Paul and Vera Guerin Family Congenital Heart Program developed the minimally invasive procedure. PDA is a condition in which the vessel that routes blood around the baby's lungs prior to birth fails to close soon after delivery. This leads to abnormal blood flow that causes symptoms ranging from fast breathing and difficulty in feeding to brain hemorrhage and even death in premature infants. The team's results were published in <i>Catheterization</i> <i>and Cardiovascular</i> <i>Interventions</i> .	The Cedars-Sinai Department of Neurosurgery now offers teleconsultation services for patients around the world. Patients need only an Internet connection and a sound- enabled webcam or smartphone to connect with Cedars- Sinai's specialists and benefit from their expertise. Consultations can be for a routine follow- up appointment, post-operative appointment or review of imaging tests. Only imaging reviews require extra steps, which include the patient's physician completing a medical history form available on the Cedars-Sinai website that must be sent to the Department of Neurosurgery along with a digital copy of the imaging study. The review is usually completed and returned within two weeks.	Cedars-Sinai was nationally ranked in 12 specialties in U.S. News & World Report's "Best Hospitals 2015-16." The 12 Cedars-Sinai areas ranked were: cancer; cardiology and heart surgery; diabetes and endocrinology; ear, nose and throat; gastroenterology and GI surgery; geriatrics; gynecology; nephrology; neurology and neurosurgery; orthopedics; pulmonology; and urology. Cedars-Sinai also ranked as the No. 4 hospital in California and as No. 1 in the Los Angeles metro area.

#### 12 REPORT TO THE COMMUNITY 2016

Teams of transporters equipped with electronic devices work throughout the medical center.



Domonique Jackson and Walter Munoz are among the transporters who work throughout the hospital.

#### TRANSPORTATION LINK

A new service at Cedars-Sinai is significantly improving how patients are transported throughout the medical center, helping decrease delays and wait times. The Central Transportation Services team now handles all patient and nonpatient transports. The service replaces the former system, in which support personnel were pulled away from assigned duties to transport patients, and enables healthcare providers to spend more time on direct patient care. Using customized transport software in CS-Link™, the new service operates 24/7. When a patient needs to be admitted, discharged or taken to another area of the medical center for diagnostics or testing, a request for transport is placed via CS-Link.



# Research

Jiscovery is central to Cedars-Sinai's mission. The institution's laboratories and clinics generate ideas, therapies, devices and systems that contribute to biomedical progress around the world. More than 1,500 research projects currently underway explore the genetic underpinnings of disease, exploit the potential of stem cells, leverage nanotechnology, parse big data, and assess how gender and metabolism impact health. Cedars-Sinai's investigators push the frontiers of biomedicine with studies in cardiac care, cancer, digestive health, the neurosciences, women's health and more. Cedars-Sinai has earned its position as a research leader through an ever-expanding effort to promote health, reduce suffering and improve human life.

#### THE PATHWAY **TRANSFUSIONS: DUAL-PURPOSE BRAIN VS. SPINAL** VISIONARY **EXHALANT LUNG STEM CELLS LESS STUDIED CORD IN ALS NOW IT'S PERSONAL** RESEARCH **SCANNER** A scientist at Cedars-A new study at Scientists at Cedars-The Cedars-Sinai A study by Women's The Cedars-Sinai Sinai is one of three the Cedars-Sinai **Transfusion Medicine** Guild Lung Institute **Biomedical Imaging** Sinai have found senior authors of an Board of Governors Division is one of Research Institute has that an injection of investigators is testing Regenerative Medicine stem cells into the only a handful in the the investigational added to its arsenal in-depth investigation into the genetics of Institute shows that eye could potentially nation that performs use of a drug called a leading-edge inflammatory bowel molecular blood hybrid scanner that the key to blocking slow or reverse bardoxolone methyl disease (IBD) in progression of effects of early-stage, typing. In addition in patients with can simultaneously to the classic four acquire magnetic African-Americans – amyotrophic lateral age-related macular pulmonary arterial sclerosis (ALS) may degeneration. The resonance and the first study of its blood types (O, A, B hypertension (PAH). kind, as most research rest in the brain. The stem cell injection and AB) and Rhesus The clinical trial is positron emission resulted in 130 days tomography data on IBD has been findings, published (Rh) factor, antigens testing the safety and in The Journal of of preserved vision in play a crucial role in effectiveness of the across the whole conducted on whites and Asians. IBD also Neuroscience, could laboratory animals the success of blood body. The device drug by evaluating has been historically transfusions. Cedarscombines soft-tissue shift researchers' which roughly equates how it influences underdiagnosed attention from the to 16 years in humans. Sinai investigators exercise ability in PAH contrast and bloodspinal cord to the among this population, Next steps include can determine the patients. Pulmonary vessel physiology with metabolic although more and brain's motor cortex testing the treatment's presence or absence hypertension is a imaging, enabling more cases are now as the disease's efficacy and safety of up to 32 antigens condition in which the blood pressure in the reported every year. initial point of in preclinical studies using a single blood users to obtain a Evaluating more dysfunction. The before moving on test and genetic arteries of the lungs is comprehensive than 1.500 Africananalysis. Studies diagnostic picture in study elucidates the to clinical trials with unusually high. at Cedars-Sinai American patients, progression of ALS in humans. Age-related one scan — increasing the study found that demonstrated that animals that have an macular degeneration productivity while inherited form of the they shared several affects 15 million the tests can enable reducing cost. In genetic risk factors disease. ALS causes Americans. It occurs physicians to provide addition to the for IBD with whites when the small central safer transfusions weakness and gradual scanner's importance and Asians. Analyses paralysis of muscles portion of the retina, through an extended to research innovation. throughout the body, matching process. it also will be made performed at Cedarsknown as the macula, Sinai identified cellular and although the This reduces the risk available for clinical deteriorates. Currently, pathways that result timing and sequence no treatment exists of antibody formation, use. which can greatly in IBD development of progression is for slowing the complicate future unique to Africanunpredictable, it often progression of the Americans. This new begins in the arms or transfusion therapy, disease. which is the leading cause of knowledge could legs. No cure has been increase cost and vision loss in people eventually lead to discovered. delay availability of more personalized over 65. compatible blood. To approaches for date. Cedars-Sinai has

used molecular typing

with 15.000 donors.

### RESEARCH

16 REPORT TO THE COMMUNITY 2016

managing and

preventing the

disorder.

*"We have a* wonderful opportunity to personalize the treatment and prevention of this chronic disease. Identification of genes that *influence the* risk of diabetes is going to open new frontiers in diabetes drug development."

-Mark O. Goodarzi, MD. PhD. professor and director, Division of Endocrinology, Diabetes and Metabolism



#### GENETIC PROTECTION **FROM DIABETES**

An international team of scientists led by a Cedars-Sinai investigator identified a new genetic mutation that appears to offer protection from Type 2 diabetes. The finding could lead to novel drug therapies for treating the nearly 26 million Type 2 diabetics in the United States who rely on insulin and oral medication to manage the disease. Comparing the genes of 81,000 people without the disease with the genetic information of 16.000 diabetics. the researchers found that a mutation in one particular gene -GLP1R – appeared to decrease the risk of developing Type 2 diabetes by 14 percent. Investigators also are trying to determine whether the unique genetic mutation affected rates of obesity -amajor risk factor for developing diabetes.

RESEARCH	HOPE FOR ALZHEIMER'S PATIENTS	BIOLOGICAL PACEMAKERS	STEM CELLS REBORN	MORE EFFICIENT CLINICAL TRIALS	A POTENTIAL TREATMENT FOR 'DIABESITY'	NEW BIOARTIFICIAL LIVER
	Cedars-Sinai	Cardiologists at	Using DNA derived	The National Cancer	"Diabesity" occurs	Acute liver failure is
	researchers have	the Cedars-Sinai	from stored blood	Institute awarded	when obesity and	often a fatal diagnosis,
	successfully tested	Heart Institute have	samples, Cedars-	\$1.7 million to a	diabetes — each a	but that might change
	two new methods for	pioneered a gene-	Sinai scientists have	Cedars-Sinai	serious disorder —	with a novel, human-
	preserving cognition	delivery procedure	developed a novel	biostatistician for	co-occur in the same	cell-based, artificial
	in laboratory mice	that converts	method for recreating	a study aimed at	person. Cedars-	liver being tested
	that exhibit features	unspecialized heart	brain and intestinal	making cancer clinical	Sinai investigators	at Cedars-Sinai.
	of Alzheimer's	cells into "biological	stem cells from long-	trials safer and more	are testing a new	The external ELAD
	disease. One process	pacemaker" cells. The	dead patients to	effective. The project	device that may	bioartificial system is
	employs white	minimally invasive	study the potential	at the Biostatistics	help treat these	designed to perform
	blood cells derived	process could	causes of debilitating	and Bioinformatics	increasingly prevalent	the critical functions
	from bone marrow	prove especially	illnesses such as	Research Center in	disorders. The	of a normal liver,
	to preserve neuron	valuable to newborn	inflammatory bowel	the Samuel Oschin	device is a flexible,	including protein
	communication while	heart patients, who	disease. The research,	Comprehensive	tube-shaped liner	synthesis and blood
	the other employs	currently are served	published in Stem	Cancer Institute	surgically inserted	processing. Blood
	a multiple sclerosis	by cumbersome	Cells Translational	focuses on Phase I	into the duodenum,	is drawn through a
	drug to control brain	external devices. It	Medicine, could yield	and II clinical trials	the first part of the	central venous line to
	immune response.	even could help those	new therapies for	that simultaneously	small intestine. Once	be filtered and treated
	In both approaches,	still in the womb.	those who suffer	test two or more	in place, it forms a	by the system before
	immune cells were	Published in Science	from aggressive	chemotherapy and/or	barrier between the	being returned to the
	found to travel in	Translational Medicine,	motor-neuron and	biologic agents — an	intestinal wall and	patient. The process
	greater numbers	the research followed	gut-related conditions	increasingly common	food, changing how	could potentially
	through the blood	laboratory pigs	that proved fatal to	therapy for cancer	the body responds	sustain patients until
	and into the brain. The	suffering complete	the deceased patients,	patients. The goal is	to eating by altering	their own livers self-
	brain's own immune	heart blockage that	who donated their	to better identify dose	hormone release.	repair. Cedars-Sinai
	cells are critical for	were injected with	blood samples long	combinations that are	These changes	was one of 49 sites
	healthy function but, as	the TBX18 gene. The	ago. This approach	safe, tolerable and	could potentially	selected throughout
	Alzheimer's progresses,	animals receiving it	allows investigators	effective. The process	promote weight	the United States,
	they become defective.	had significantly faster	to connect the dots	is complicated,	loss by decreasing	Europe and Australia
	The investigators	heartbeats than those	between a deceased	both statistically	appetite. The device	to test the system. The
	discovered that	that did not. The	patient's symptoms,	and clinically, as	also might reduce	Cedars-Sinai research
	immune cells	stronger heartbeat	genetic information	each agent must be	Type 2 diabetes —	focuses on patients
	infiltrating the brain	persisted for the	contained in DNA and	evaluated on its own	the most common	with liver disease
	from the blood	duration of the 14-day	the behavior of stem	and in combination	type — by improving	caused by acute
	effectively resisted	study. Longer follow-	cells in the laboratory.	with others.	the ability to control	alcoholic hepatitis —
	abnormalities	up preclinical studies	This, in turn, enables		blood sugar. Unlike	a group with few
	associated with	are underway.	investigators to study		traditional operations,	therapeutic options.
	the condition. Each		biological mechanisms		the placement	
	method represents		underlying diseases		requires no incision	
	an encouraging step		and potentially design		and the procedure is	
	toward human trials.		new therapies.		reversible.	

#### 18 REPORT TO THE COMMUNITY 2016

"This study also will shed light on how normal pregnancies develop in the womb and how the intrauterine environment may affect the overall health of the infant, child and adult something termed 'fetal origins of adult diseases.'"

-Margareta D. Pisarska, MD, director, Fertility and Reproductive Medicine Center and Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology



#### ADVERSE PREGNANCY OUTCOMES STUDY

Pregnancies resulting from fertility treatments are at increased risk for complications, including low birth weight, birth defects and infant mortality. A study led by two physician-scientists in the Cedars-Sinai Department of Obstetrics and Gynecology found that the risk for adverse pregnancy outcomes (including cesarean delivery and retained placenta) in women age 45 and up who conceived with assisted reproductive technologies was higher than with older women who conceived naturally. The study is funded by a \$3.37 million grant from the National Institutes of Health.

ESEARCH	GENE EDITING BAY	A BETTER HPV VACCINE	RENEWABLE ENERGY	VIRTUAL BIOPSIES	NEUROLINCS	STUDIES TARGET OVARIAN CANCER
ESEARCH	GENE EDITING BAY Cedars-Sinai Board of Governors Regenerative Medicine Institute investigators developed a technique that enhances gene editing through low-dose irradiation. According to results reported in <i>Stem Cells</i> <i>Translational Medicine</i> , the method is 10 times more effective than current techniques, enabling scientists to correct disease- causing mutations and, theoretically, cure the disease in a petri dish. The technique enables Cedars-Sinai scientists to more efficiently insert reporter genes that glow when a stem cell transforms into a specialized cell. The			VIRTUAL BIOPSIES Cedars-Sinai biomedical investigators have invented a tiny drug- delivery system that can identify cancer cell types in the brain through "virtual biopsies" and then attack the molecular structure of the disease. If research results obtained with mice are borne out in human studies, the system could be used to deliver nanoscale drugs that distinguish and fight tumor cells in the brain without requiring surgery. The nanodrug is about 20 to 30 nanometers in size — a fraction of a human hair's diameter — and can transport a variety	NEUROLINCS Investigators at the Cedars-Sinai Board of Governors Regenerative Medicine Institute have received funding from the National Institutes of Health to more comprehensively study motor neuron disorders. The grant is part of the Library of Integrated Network- based Cellular Signatures (LINCS) program, which is creating databases of disease "signatures" by generating and analyzing thousands of data points. Cedars- Sinai is a member of NeuroLINCS, the segment of the program studying motor neuron	
	technology also allows scientists to model human disease by creating mutations in normal cells. The irradiation method could unlock the mysteries of diseases such as spinal muscular atrophy, muscular dystrophy and Huntington's disease.	study published in the Journal of the National Cancer Institute. Cedars- Sinai conducted the research in partnership with the U.S. Centers for Disease Control and Prevention.	oxygen consumption and extracellular acidification in cells and mitochondria, and a microscope with 3-D deconvolution and quantitative image analysis capabilities.	of chemical and biological modules. The research is supported by the National Cancer Institute.	disorders such as amyotrophic lateral sclerosis (ALS) and spinal muscular atrophy. The Cedars- Sinai institute will provide stem cells for the entire consortium and will conduct protein analysis for all NeuroLINCS collaborators.	the enzyme in ovarian cancer cell lines in mouse models, the research team found a metabolic weak point that could be exploited for therapeutic purposes.

RES

In FY 2015, the U.S. Patent and Trademark Office issued 14 new patents for technology at Cedars-Sinai. *Eighty-three* new inventions were disclosed to the Technology Transfer Office, and 11 new license and option agreements were signed to further develop discoveries.

#### INTELLECTUAL PROPERTY, INTERNATIONAL PARTNERSHIPS

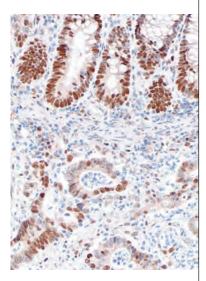
Cedars-Sinai's Technology Transfer Office plays a key role in advancing medical innovations by protecting and commercializing the institution's intellectual property assets. It manages a portfolio of more than 300 technologies including potential new diagnostics and treatments for cancer, heart disease and inflammatory bowel disease. Royalty income totaled \$11 million in FY 2015. These funds are reinvested at Cedars-Sinai to generate a new cycle of discoveries for the technology transfer pipeline. The office maintains international partnerships with leading hospitals and research institutes in Asia, Europe and South America. This network enhances Cedars-Sinai's ability to bring innovative medical solutions to patients around the world.

RCH	PREGNANCY PRIORITIES	A NEW TYPE OF BREATH TEST	ETS FACTOR	NEW ALGORITHMS TO DIAGNOSE HEART DISEASE	BARBERSHOP HYPERTENSION STUDY	CORNEAL STEM CELL BANK
<b>NRCH</b>			ETS FACTOR Scientists at the Cedars-Sinai Board of Governors Regenerative Medicine Institute have identified the E26 transformation- specific (ETS) family of genes as an underlying cause of malignancy growth in a wide spectrum of high- grade brain tumors known as gliomas. They modeled these advanced-stage brain tumors from resident stem cells using a pioneering method that can create up to five distinct tumor models within 45 minutes. Next steps involve testing the function of each individual ETS factor to determine its specific role in tumor progression and recurrence after treatment. Gliomas are difficult to treat and have a very low survival rate.			
	to determine patient satisfaction — and that payers can use to determine quality	to aid weight loss.		a tremendous advance in diagnostic techniques for heart disease.	the country.	of Health support. Corneal blindness affects more than 3 million individuals

### RESEARCH

and value.

Using a cancerous tissue sample from a patient, pathologists can search for more than 2,800 cancer-related mutations in more than 50 cancer genes.



worldwide.

#### NEXT-GENERATION SEQUENCING

In early 2015, Cedars-Sinai approved an internal project grant to foster personalized approaches to cancer treatment, including next-generation sequencing – a molecular analysis of a patient's cancer cells. The analysis can reveal which treatment options might be the most powerful for a particular patient. Using a cancerous tissue sample derived from a patient, pathologists can search for more than 2,800 cancerrelated mutations in more than 50 cancer genes. Results from next-generation sequencing can disclose a cancer's genetic fingerprint and the driving mutations behind the disease, helping oncologists and patients make informed, tailored treatment decisions.

SEARCH	ONE SIZE MAY NOT FIT ALL	CONTRADICTORY MECHANISM	DISC DEGENERATION DIAGNOSTICS	CLINICAL STUDY MATCHMAKER	SOCIAL MEDIA MEDICINE	TOX AND IMMUNITY
	Male and female	Nearly 8 million	An interdisciplinary	Research for Her™,	Cedars-Sinai is	Cedars-Sinai scientists
	brains differ in	American women	research team	Cedars-Sinai's	harnessing social	have discovered
	how they respond	suffer from	at Cedars-Sinai	groundbreaking	media as a tool for	that thymocyte
	to high-fat diets,	inflammation-	received a grant	online registry	medical research. A	selection-associated
	according to research	associated bladder	from the National	matching women	study at the Cedars-	high-mobility group
	at the Cedars-Sinai	function impairment.	Institutes of Health	with research studies	Sinai Center for	box protein (TOX)
	Diabetes and Obesity	Cedars-Sinai	to develop a new	and clinical trials,	Outcomes Research	plays a critical role
	Research Institute.	investigators may	imaging technique for	enrolls participants	and Education will	in how bone marrow
	Male laboratory	have found a remedy	identifying biomarkers	27 percent faster than	analyze Twitter posts	generates precursors
	mice exposed to the	in anakinra, a drug for	that indicate	paper-based registries,	to estimate how	for certain types
	same high-fat diet as	rheumatoid arthritis,	whether patients	according to new	individuals' physical	of immune cells.
	females developed	according to a study	have intervertebral	research published	and mental health	The project at the
	brain inflammation	published in <i>The</i>	disc degeneration, a	in <i>Gynecologic</i>	impact their quality	Research Division
	and heart disease,	Journal of Biological	painful back condition.	Oncology. A total of	of life. Investigators	of Immunology was
	while the females did	Chemistry. The	As reported in	322 women enrolled	will tweet an	based on genetically
	not. This research	research focused on	Magnetic Resonance	in Research for Her	announcement, to	modified mouse
	suggests that one size	a paradox of bladder	in Medicine,	over a 14-month	which Twitter users	models, one of
	may not fit all when it	inflammation: Cells in	employing this	period — a more than	can respond by filling	which was created
	comes to nutritional	the bladder muscle of	method to identify the	four-fold increase over	out a questionnaire	at Cedars-Sinai. It
	guidance aimed at	affected individuals	exact disc from which	the previously used	about their physical	builds on previous
	preventing patients	both multiply and	the pain originates	paper-based registry.	and mental health.	pioneering studies
	from becoming	die at abnormally	could save patients	Of these 322 women,	Researchers will	conducted by the
	dangerously	high rates. Using	from painful and	263 were matched to	then analyze tweets	division on TOX and
	overweight. An	mouse models, the	invasive diagnostic	at least one clinical	in partnership with	its role in immunity.
	occasional high-fat	researchers identified	procedures, such	study and, of those,	computer scientists	The new study,
	meal may be fine for	the mechanism	as injections of a	39 eligible individuals	at UCLA with the	published in Nature
	women, while men at	underlying these	contrast agent or	went on to enroll in	goal of creating a	Immunology, focused
	risk for obesity will	contradictory	dye into their spinal	a study. Created in	computer model	on innate lymphoid
	need to avoid such	occurrences. Further	discs. Cedars-Sinai	2013, Research for Her	that scores tweets	cells (ILC), building
	meals. The National	tests revealed that	scientists aim to use	is open to all women	and produces results	blocks of the innate
	Institutes of Health	anakinra slowed	the imaging technique	over age 18 with or	comparable to those	immune system. The
	funded the study,	cell growth and	to generate stem cell-	without a history of	of the questionnaires.	investigators found
	and its findings were	reduced inflammation	based therapeutics	cancer. It soon will	This innovation could	that TOX was required
	published in Cell	without significantly	for helping patients	expand to enroll men	help investigators	for development
	Reports.	accelerating cell death	overcome these	in available trials and	answer important	of bone marrow
		in mouse bladder	debilitating back	studies.	clinical questions	progenitor cells
		muscles. Next steps	conditions.		without having to	that give rise to ILC
		include exploring a			bring patients into	subtypes.
		Phase II clinical study.			the laboratory.	

RES

Cedars-Sinai investigators found a significant degree of genetic linkage in patients with no family history of ALS, shedding new light on the disease.



Peggy Allred, PT, DPT, research program administrator for the Cedars-Sinai Neuromuscular Disorders Program in the Department of Neurology

#### GENETIC ROLE IN ALS

Genetics may play a larger role in amyotrophic lateral sclerosis (ALS) than previously thought, potentially accounting for more than one-third of all cases. Cedars-Sinai investigators identified several new or rare ALS-associated mutations and found that patients with defects in multiple ALS-associated genes experience onset about 10 years earlier than patients with single-gene mutations. This discovery anticipates a personalized approach that could potentially deliver gene-specific therapies to correct ALS defects. The Cedars-Sinai Board of Governors **Regenerative Medicine** Institute also is the first to directly measure the effects of aging on the ability of astrocytes – the cells that provide nutrients, structure and other forms of assistance to brain neurons to sustain motor neurons.



# Community Outreach

C edars-Sinai maintains a global footprint but the core of its mission is based right here in Los Angeles. In FY 2015, the institution invested nearly \$600 million in programs and services to benefit the community that has served as its home for more than a century. This deeply ingrained tradition of community service drives Cedars-Sinai to provide care for those with the greatest need, including uninsured and underinsured individuals and families as well as Medi-Cal and Medicare patients. These community-benefit activities encompass free education, screening and immunization programs; research aimed at improving health outcomes in underserved neighborhoods; and partnerships with community organizations that enhance the health of Angelenos from Skid Row to Inglewood. Cedars-Sinai's outreach efforts are as diverse as the region it serves and illustrate the institution's commitment to empowering people to live healthier lives.

COMMUNITY	
OUTREACH	

LA SALUD Cedars-Sinai sent a team of nearly 500 healthcare professionals to the Los Angeles Convention Center for the 11th annual Health and Wellness Expo/Feria de la Salud presented by Telemundo 52-KVEA and The California Endowment. The team provided more than 9,800 free screenings at the event. which drew more than 30.000 attendees. Cedars-Sinai Blood Donor Services participated for the first time, registering 114 donors and collecting 84 units of blood products. and the Wasserman Breast Cancer Risk Reduction Program offered clinical exams and risk assessments. More than 50 students from the Cedars-Sinai Youth Employment and Development program provided translation and other

FERIA DE

Cedars-Sinai grants help nonprofit community organizations provide free or low-cost mental health services to disadvantaged Los Angeles residents. Cedars-Sinai awarded \$728,000 in mental

**GRANTS FOR** 

MENTAL HEALTH

mental health services to disadvantaged Los Cedars-Sinai awarded \$728.000 in mental health grants to 13 organizations in fiscal year 2015. The recipients were Alcott Center for Mental Health Services. Amanecer Community Counseling Service, Beit T'Shuvah. Children's Institute Inc., CLARE Foundation. Didi Hirsch Mental Health Services, Jewish Family Service of Los Angeles, Korean American Family Services, Los Angeles LGBT Center, Ocean Park Community Center. Para Los Niños. Southern California Counseling Center and the Maple Counseling Center.

Cedars-Sinai is a leader in the nationwide movement to make advance care planning a standard component of healthcare. The institution is part of the Los Angeles Advance Care Planning Group, a coalition of 10 of the largest health systems in Southern California. The two doctors leading the effort at Cedars-Sinai partner with religious organizations to educate the public about the importance of codifying end-oflife wishes. They also encourage physicians to integrate discussion of advance directives into their practices. Half of patients are unable to participate in decisions about care at the end of life. and only 25 percent of Americans have advance directives.

**STRAIGHT TALK** 

ABOUT END OF LIFE

EXPLORING HEALTHCARE CAREERS

Cedars-Sinai's Youth Employment and Development (YED) program enables Fairfax High School juniors and seniors to learn about careers in healthcare through job shadowing, mentoring, afterschool work and classroom instruction. Over the past two decades, the program, offered in partnership with Los Angeles Unified School District and the Los Angeles County **Regional Occupational** Program, has assisted more than 400 youths in preparing for college and careers. More than 80 percent of participants graduate from college, pursue careers in healthcare and even land jobs at Cedars-Sinai.

### BETTER VISION, BRIGHTER FUTURES

25 YEARS OF TENDING TO MEN'S HEALTH

Cedars-Sinai's

Cedars-Sinai nurses offered free vision screenings over the summer to teens at four Los Angeles high schools and one middle school. COACH for Kids and Their Families<sup>®</sup>. a program of the Cedars-Sinai Maxine Dunitz Children's Health Center, tested 412 students and found that 101 had vision problems. The children's parents were offered assistance in accessing vision care through Medi-Cal or were provided vouchers from programs such as the Sight for Students VSP Vision Care Program and the COACH for Kids Gift of Sight Program. COACH's two mobile medical units visit lowincome communities across Los Angeles throughout the year, providing healthcare and social services for children and families.

Prostate Cancer Education and Screening Program provides free health exams and information covering much more than its name implies. The four physicians, along with nurses and other staff. who examined patients at the 25th annual event offered screenings for a variety of medical issues, including high blood pressure. Cedars-Sinai staff members promote the program throughout the year at churches and health fairs in lowincome areas around Los Angeles. Some men return to the screening program year after year because they don't have regular access to healthcare.

services.

With Koreanspeaking nurses removing the language barrier, more than 300 participants at the Koreatown Senior and Community *Center took* advantage of free blood pressure, cholesterol and blood glucose screenings.



Cedars-Sinai nurses provide free health screenings at the Koreatown Senior and Community Center in Los Angeles.

#### FOUND IN TRANSLATION

Korean-speaking caregivers from Cedars-Sinai put immigrants at ease and facilitated health screenings at the Koreatown Senior and Community Center. More than 300 participants took advantage of free blood pressure. cholesterol and blood alucose screeninas. Sixteen Koreanspeaking nurses staffed the first of two events, which included flu shots and breast health education. Of the 25 who staffed the second event. 10 nurses and one physician spoke Korean, removing the language barrier that prevents many Korean immigrants from seeking health services. A waiting list had to be created for the large number of Korean-speaking nurses interested in helping at the next event.

COMMUNITY OUTREACH	PROACTIVE CARE FOR SAMOAN- AMERICANS	STEERING STUDENTS TO STEM	JEWISH WISDOM AND WELLNESS	FIRST LADIES HEALTH DAY	GROUP SUPPORT	STEM CELL RESEARCH WEEK
	The organizers of	The Inglewood-based	The weeklong Jewish	Among its many	After experiencing a	A highlight of
	an international	nonprofit African-	Wisdom & Wellness:	outreach efforts,	life-changing event,	the Cedars-Sinai
	conference of	American Male	A Festival of Learning,	COACH for Kids	whether medical or	Board of Governors
	Samoan-American	Achievers Network	co-hosted by Cedars-	and Their Families®,	psychological, the	Regenerative Medicine
	women asked Cedars-	(A-MAN) partnered	Sinai, offered more	a program of the	pathway toward	Institute's High School
	Sinai to provide no-	with the Cedars-Sinai	than 95 free lectures,	Cedars-Sinai Maxine	healing is not always	Outreach Program
	cost health screenings	Board of Governors	workshops and	Dunitz Children's	easy. Cedars-Sinai	is Research Week,
	and information for	Regenerative	experiential classes	Health Center, offered	offers a wide array of	when students spend
	the 400 attendees to	Medicine Institute	encompassing a broad	immunizations,	support groups that	five days on the
	help control obesity,	for an engaging	spectrum of Jewish	nutrition education	focus on assisting	Cedars-Sinai campus
	diabetes and other	event for budding	thought, both ancient	and dental screenings	patients with	working alongside
	health issues that	scientists. A-MAN's	and modern. Rabbis,	for Koreatown	life's changes and	top researchers. This
	are common among	STEM International	physicians, scholars,	residents at a health	adjustments. Among	year, 21 students
	this population. Staff	Science Discovery	musicians, artists and	fair outside Founder's	them is the Aphasia	from 12 schools —
	from COACH for Kids	and Learning Center	others shared insights	Church of Religious	Community Group,	the best-attended
	and Their Families®,	brought middle and	related to Judaism,	Science. The event	which helps people	Research Week to
	a program of the	high school students	health and healing	was part of the annual	regain their language	date — participated
	Cedars-Sinai Maxine	to Cedars-Sinai's	with more than	L.A. First Ladies	skills after a brain	in hands-on sessions
	Dunitz Children's	Advanced Health	3,500 participants.	Health Day — named	injury such as a stroke	to learn how stem cell
	Health Center,	Sciences Pavilion,	The festival was the	for "first ladies," or	or aneurysm. Group	research is done. The
	provided nutrition	where they toured	second co-hosted	pastors' wives — at	members enjoyed a	week culminated in
	counseling and blood	laboratories, debated	by Cedars-Sinai, the	the more than 30 local	rare opportunity to	group presentations,
	pressure screenings	ethical issues in	Kalsman Institute on	churches that open	raise public awareness	which gave students
	from one of Cedars-	research, and took	Judaism & Health	their doors to the	and understanding	a chance to describe
	Sinai's mobile medical	part in informative	and the Hebrew	community for free	of these conditions	their experiences and
	units. Another team	activities to learn	Union College-Jewish	medical testing and	when they attended	what they'd learned
	from Cedars-Sinai	more about stem	Institute of Religion.	health education to	l Wanna Hold Your	before an audience
	offered breast health	cells and their many	Sessions covered	the underserved.	<i>Hand</i> , a stage play	of researchers,
	education and	applications. The	topics such as		about aphasia inspired	physicians and
	breast cancer risk	event was hosted	Jewish yoga, healing		by a former member	parents.
	assessments.	by the Regenerative	and spirituality,		of the group. After	
		Medicine Institute	contemporary issues		the performance at	
		as part of its Short	in bioethics, Zumba		Theatre of NOTE	

Term Educational Experience in Research program. for the Jewish soul, caregiving and wrestling with endof-life decisions.

group member was

joined onstage by

the playwright, the

director, an actor and

a Cedars-Sinai speech

pathologist to answer audience questions.

*Helping parents* set a good example for their kids is just one of the positive effects of the *Healthy Habits Exercise in the* Park program. *Participants* have lost weight, toned muscles and made friends.



Patricia Castillo and her baby take a fitness class at Westside Neighborhood Park in West Adams as part of the Healthy Habits Exercise in the Park program.

#### SUMMER SCHOOL

The Healthy Habits Exercise in the Park program, launched in 2012, attracts several hundred adults each summer. The one-hour morning workouts are held four days a week from June through August in three locations: Vineyard Recreation Center, Queen Anne Recreation Center and Westside Neighborhood Park. The sessions are led by educators in Cedars-Sinai's Healthy Habits program, which provides nutrition and fitness education year-round for schoolchildren and parents in Mid-City Los Angeles and surrounding areas.

BIRTH COMMUNITY DAY	SAFE HARBOR FOR THE UNDERSERVED	CALMER CLASSROOMS	CPR SAVES LIVES	BRAIN POWER	TEEN BIOMEDICAL RESEARCHERS
More than 200 medical professionals and advocates of alternative childbirth convened at Cedars-Sinai for the third annual Birth Community Day. The summit fostered sharing of best practices and trends in labor and delivery medicine while highlighting Cedars-Sinai's efforts at the forefront of a movement to offer greater choice and honor women's preferences while still prioritizing safety and evidence-based care. The gathering included physicians, labor and delivery nurses, maternal-fetal medicine specialists, doulas, certified nurse midwives and lay midwives. The event was organized by the Cedars-Sinai Customization of Care Task Force in	Cedars-Sinai was among the organizations that partnered with Care Harbor, a Los Angeles- based nonprofit, to offer a free, four-day health clinic at the Los Angeles Sports Arena. The annual event drew thousands of uninsured, underinsured and at-risk individuals who received medical, dental and vision care as well as prevention resources and follow- up referrals.	A daylong conference presented by Cedars- Sinai's Psychological Trauma Center brought together 110 principals, teachers and staff from 25 Los Angeles schools to explore "Positive Strategies to Address Challenging Student Behavior." The educators participated in a jam session and learned about Native American talking sticks, Tibetan singing bowls, and other tools to relieve stress and encourage calm in the classroom.	A grant from Cedars- Sinai enabled the American Heart Association to offer CPR training to parents in low- income Mid-City neighborhoods. The training sessions were held at 15 schools where Cedars-Sinai offers Healthy Habits workshops for children. Nearly 300 parents participated, with most courses conducted in Spanish. Each participant was given a CPR Anytime kit containing a practice mannequin and a DVD in English and Spanish. Cedars- Sinai also provided funds for free CPR training and CPR Anytime kits for students at King Drew Medical Magnet High School.	Seventh and eighth graders participating in Cedars-Sinai's Brainworks program learned how regular exercise can improve brain health. Students interacted with neurosurgeons, neurologists, neuroscientists and other health professionals at nine information stations. Brainworks was founded in 1998 to help inspire the next generation of scientists, doctors and other health professionals. This year's program included 140 participants from underserved Los Angeles middle schools.	Long Beach Polytechnic High School students showcased biomedical research projects in a presentation hosted by Cedars- Sinai. The students were graduates of an annual biomedical research course offered in conjunction with the UCLA Clinical and Translational Science Institute, a consortium that includes Cedars- Sinai. Funded by the National Institutes of Health, the course encourages young, aspiring scientists to consider careers in medical research. Since its inception in 2000, the course has been completed by 201 students pursuing work in a wide array of disciplines. This year, four researchers from Cedars-Sinai were mentors for seniors from Long
collaboration with two					Beach Poly's magnet

community groups led by doulas: DONA International and BINI Birth.

*"These events"* are great examples of the changes we're seeing in our partner schools' environment. Teachers organized both of these schoolwide events. This is a strong sign that the program is paying off."

-Carolyn Buenaflor, MPH, associate director, Healthy Habits

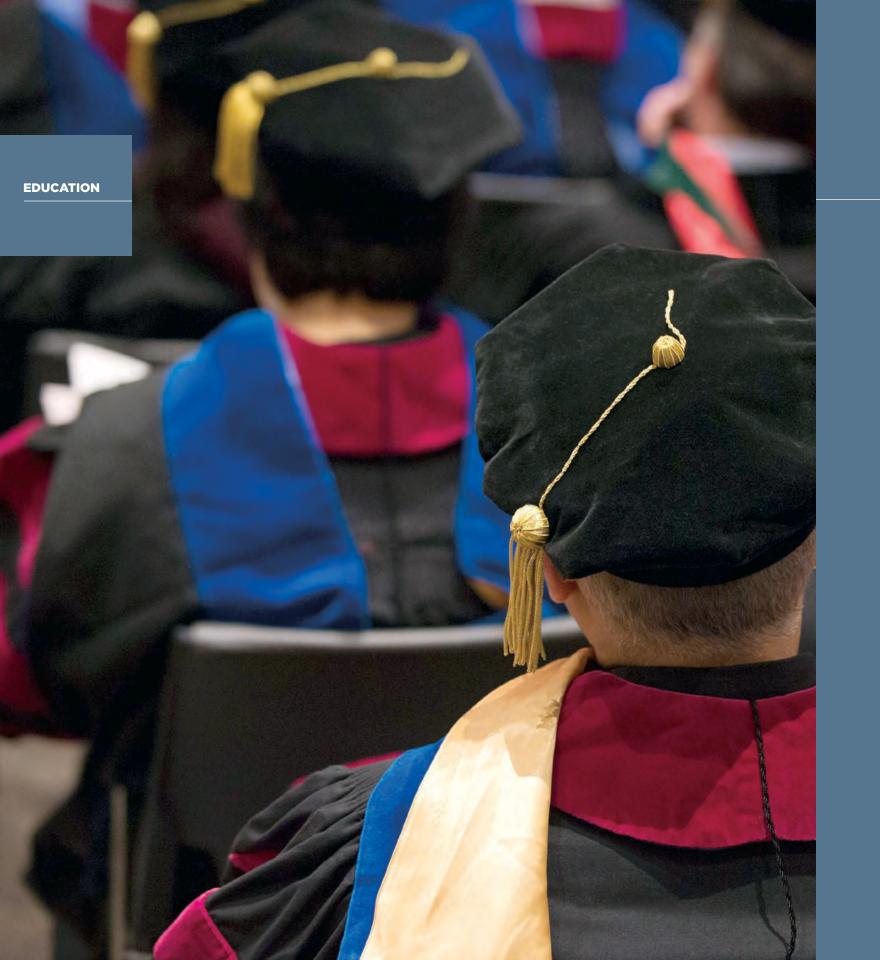


program for gifted

students.

#### EMBRACING **HEALTHY HABITS** FOR KIDS

Cedars-Sinai's Healthy Habits program provides workshops on nutrition, fitness and obesity prevention for elementary and middle school students, as well as their teachers and parents, at more than 40 Los Angeles schools and community sites. The 10-week program focuses on second graders, with refresher courses for third and fourth graders. Arlington Heights Elementary, which held a jog-a-thon, and Marvin Avenue Elementary, which hosted a nutrition fair, are among the schools that have embraced Healthy Habits by staging school-wide special events with support from Cedars-Sinai staff.



# Education

Cedars-Sinai's robust academic enterprise shapes the experts who will help redefine medicine for the next generation. Competitive medical residency and fellowship programs prepare trainees for an extensive range of specialty and subspecialty areas. The Graduate Program in Biomedical Sciences and Translational Medicine focuses on transforming innovative concepts into impactful treatments. Cedars-Sinai's nurse training programs teach specialized skills and encourage leadership. The institution also provides training for allied health professionals and postdoctoral scientists. Education at Cedars-Sinai combines rigorous academic curricula with mentorship from globally recognized faculty.

UCATION	INAUGURAL NEUROLOGY RESIDENTS	TRANSLATE SCIENCE INTO TREATMENT	HEAD OF THE CLASS	INTER-INSTITUTION SYMPOSIUM	NEW MODELS OF CARE	NANOMEDICINE'S PRESENT AND FUTURE
	Cedars-Sinai	The Cedars-Sinai	While healthcare	More than 150	Cedars-Sinai is part of	Cedars-Sinai's third
	graduated its	Graduate Program in	leaders call for	students and	a new, independent	Nanomedicine
	inaugural class of	Biomedical Science	increased training	researchers from	consortium of	for Imaging and
	neurology residents	and Translational	for nurses across the	throughout California	community, health	Treatment Conference
	in June, and the three	Medicine graduated its	country, the corps	participated in	system, and policy and	attracted two dozen
	new alumni have	third class in FY 2015.	of crucial, frontline	Cedars-Sinai's second	academic partners	experts from around
	been accepted into	The program merges	caregivers at Cedars-	Inter-Institution	that will participate in	the world. Academic
	prestigious fellowship	a rigorous curriculum	Sinai already has	Graduate Student	the National Clinician	researchers, clinicians
	programs, including	in scientific and	jumped to the head	Symposium, a forum	Scholars Program.	representatives from
	Cedars-Sinai. The	translational medicine	of the class. Some	for students to	The program will	the National Institutes
	Division of Neurology	with mentoring by	80 percent of the	present research,	train physicians and	of Health (NIH)
	became a full-fledged	researchers and	institution's direct care	share ideas and	nurses to become	and scientists from
	department in 2010,	clinicians, and broad	nurses hold a BS in	receive career	change agents who	biotech industries
	the residency program	exposure to clinical	nursing and 79 percent	advice. Organized	can lead policy-	presented information
	was approved in 2011	medicine. Thirty-	have specialty	by the Graduate	relevant research and	on emerging trends
	and the first class	five students are	certifications — such	Student Association	forge partnerships to	in the study and
	began in 2012. The	enrolled in the eight-	as critical care,	of the Cedars-Sinai	improve healthcare.	treatment of diseases
	program already	year-old program,	rehabilitation and	Graduate Program in	Through intensive	at the molecular and
	has received full	which focuses on	neonatal intensive	Biomedical Science	mentorship and	atomic levels. More
	accreditation through	on the translation	care — compared	and Translational	embedded experience	than 350 attended —
	2025 and is highly	of discoveries into	with the national	Medicine, the event	in communities,	double the draw
	sought after by	potential treatments	average of 54 percent	brought together	healthcare systems,	of the previous

neurology residency candidates. Last year, 190 applied for three positions. The Neurology Residency Program is part of Cedars-Sinai's Graduate Medical Education Program, which includes approximately 350 residents and fellows in numerous disciplines.

and cures. Eight to nine students are expected to graduate in 2016. This year's commencement ceremonies also saw the inaugural Cedars-Sinai Prize for Research in Scientific Medicine (PRISM) awarded to a faculty member for outstanding scientific breakthroughs in organ transplantation.

PhD GRADS

and 38 percent respectively. All nurse managers and educators at Cedars-Sinai have a bachelor's degree, and 98 percent hold master's degrees. The number of nurses with advanced academic degrees and certifications has climbed steadily since 2002, when the Geri and Richard Brawerman Nursing Institute was founded to provide extensive education programs for Cedars-Sinai nurses.

participants from several academic institutions and biomedical centers. The all-day symposium included presentations, poster sessions, an awards ceremony and a networking social hour. At a meet-theexperts luncheon and career panel, students had opportunities to ask questions of seasoned researchers who have followed varied scientific career paths.

government, foundations and think tanks, the program aims to cultivate health equity, eliminate health disparities, invent new models of care and achieve higher-quality healthcare at lower costs. Cedars-Sinai will recruit and support one fellow for the 2016–17 academic year. Cedars-Sinai's third Nanomedicine for Imaging and Treatment Conference attracted two dozen experts from around the world. Academic researchers, clinicians, representatives from the National Institutes of Health (NIH) and scientists from biotech industries presented information on emerging trends in the study and treatment of diseases at the molecular and atomic levels. More than 350 attended double the draw of the previous conference in 2013. They learned about the latest preclinical and clinical advances against cancer, neurodegenerative disorders and other pathological conditions; the role of the NIH in nanodrug and nano-imaging development; and issues relevant to the biotech industry and the legal profession.

EDU

Nearly 2,000 users per month benefit from the Women's **Guild Simulation** *Center for* Advanced Clinical Skills. which received full accreditation just 19 months after its opening.



#### SIMULATION CENTER **EARNS FULL** ACCREDITATION

The Cedars-Sinai Women's Guild Simulation Center for Advanced Clinical Skills received full accreditation from both the American College of Surgeons and the Society for Simulation in Healthcare. Awarded iust 19 months after the center's opening, these designations place Cedars-Sinai among a select group of institutions internationally. Nearly 2.000 users per month from Cedars-Sinai and elsewhere benefit from the 10,000-square-foot simulation center, which replicates clinical and surgical settings by enabling procedures to be practiced on hightech human patient simulators that mimic real-life responses, including breathing, crying and giving birth.

DUCATION	SPIRITUAL SUPPORT STUDIES	TRANSLATIONAL RESEARCH CURRICULUM	THE 'IT' PLACE TO WORK IN TECH	INAUGURAL GASTROINTESTINAL FELLOWS	POSTDOC SOCIETY CELEBRATES FIFTH YEAR	PREPARATION FOR AN EVOLVING ROLE
	Representing a broad array of religious faiths and cultural backgrounds, Cedars-Sinai's 12 professionally trained chaplains function as an integral part of the interdisciplinary healthcare team. They supported 20,283 patients in FY 2015. The spiritual care program also offers Clinical Pastoral Education (CPE) interns an opportunity to provide spiritual support to a varied population of patients, family members and staff. The CPE program grew this year to include 20 interns and seminarians, who benefit from the learning atmosphere of a teaching hospital with training programs for physicians, nurses and other professionals. A total of 52 interns have graduated from the program.	The seventh class of the Cedars-Sinai Clinical Scholars Program graduated at a ceremony in Harvey Morse Auditorium. Established in 2007, the two-year program provides funding, career guidance, education and skill acquisition for clinicians wanting to pursue careers in academic medicine. It includes a curriculum in translational medicine and clinical research, plus research under a mentor's supervision. The event also introduced the eight clinical scholars who make up the program's incoming class; they will graduate in 2016.	<i>Computerworld</i> , one of the leading magazines devoted to the digital age, listed Cedars-Sinai among the 100 best places to work in information technology for the seventh consecutive year. The institution's innovative Take Two and New Grad programs were instrumental in driving the 2015 ranking. The Take Two initiative rewards innovative IT thinkers by providing them with a small capital budget and giving them two months to turn an idea into reality. The New Grad program recruits graduate school students for entry-level positions. <i>Computerworld</i> ranks organizations in a wide range of industries according to their benefits and compensation, career development, training programs and retention. Cedars-Sinai placed 21st among employers of 5,000	The first three fellows in the new Cedars- Sinai Gastrointestinal Fellowship Program joined the institution this year. Recognized by the Accreditation Council for Graduate Medical Education, the three-year, comprehensive program at Cedars- Sinai provides a scholarly training environment for the fellows, who benefit from the state-of-the- art gastrointestinal endoscopy unit, where more than 500 procedures are performed each month. Outstanding research facilities and supervision are available in multiple fields of gastroenterology, including pancreatic disease, inflammatory bowel disease, liver disease, nutrition and motility disorders of the gastrointestinal tract.	The Cedars-Sinai Postdoc Society, a peer-to-peer group that fosters networking and collaboration among junior researchers, celebrated its fifth anniversary during the annual National Postdoc Appreciation Week. Events included an open house with prize drawings, a seminar about technology-transfer opportunities, and networking and educational events. An outgrowth of the Cedars-Sinai Postdoctoral Scientist Program, the society has grown from 85 to some 100 members over the past three years, and maintains a busy calendar of professional, educational and social activities at Cedars- Sinai and in the community.	The Cedars-Sinai Department of Pharmacy Services offers an American Society of Health- System Pharmacists- accredited residency in pharmacy practice, a second- year specialized residency in pharmacy management and leadership, an advanced residency in transitions of care and a residency in hematology/oncology pharmacy practice. Affiliated with schools throughout California, the teaching program creates an environment that enables pharmacists to maintain a leading- edge practice as the role of the pharmacist continues to evolve. Increasingly, pharmacists provide direct patient care, from medication management and adherence to working with high-risk patients to reduce costly readmissions and improve health

ED

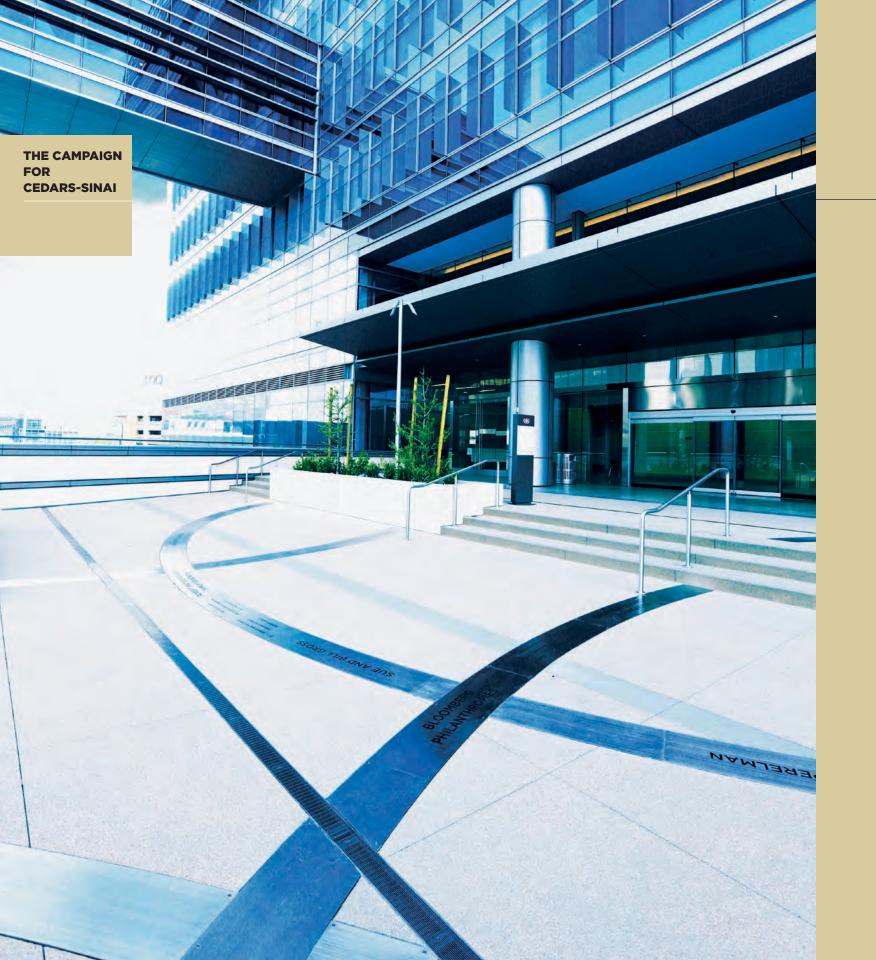
Cedars-Sinai dental residents now provide general dentistry services at local *clinics* – *the* Eisner Pediatric and Family Medical Center *in downtown* Los Angeles and the Children's Dental Center of Greater Los Angeles in Inglewood.



Alexa Martin, DMD, a dental resident at Cedars-Sinai, with 2-year-old Desire Garcia at the Eisner Pediatric and Family Medical Center in downtown Los Angeles.

#### DENTAL RESIDENCY PROGRAM EXPANDS

Cedars-Sinai's Hospital **Dental Residency** Program reopened after a yearlong hiatus with four new residents and an expanded scope. The program's residents take dental-related calls in the Emergency Department, provide dental care for oncology and other patients with complex conditions, complete dental clearance exams for patients in the transplant and cardiac programs, and respond to requests for consults and dental treatment throughout the medical center. In a new program component, residents provide general dentistry services at local clinics – the Eisner Pediatric and Family Medical Center in downtown Los Angeles and the Children's Dental Center of Greater Los Angeles in Inglewood – giving trainees valuable experience while benefiting the community.



# The Campaign for Cedars-Sinai

Every scientific breakthrough starts with donors. The Campaign for Cedars-Sinai – the institution's most ambitious philanthropic effort to date – will raise \$600 million to sustain and grow leading-edge discovery. At Cedars-Sinai, hundreds of research projects are exploring new treatment possibilities in cancer, regenerative medicine, disease prevention, aging, and diseases of the heart and brain. It's a comprehensive approach to research that helps advance the understanding of disease and forge new frontiers in medicine. The most important medical breakthroughs start with generous donors who contribute to Cedars-Sinai research in a vital way. Because of this invaluable assistance, research teams can pursue new treatments and technologies that will help change lives.

#### THE CAMPAIGN FOR **CEDARS-SINAI**

#### **FY 2015 FUNDRAISING HIGHLIGHTS**

(July 1, 2014 - June 30, 2015)

Growing support for lifesaving initiatives in clinical care, research and education: 5.083 are new donors.

#### **Giving back:**

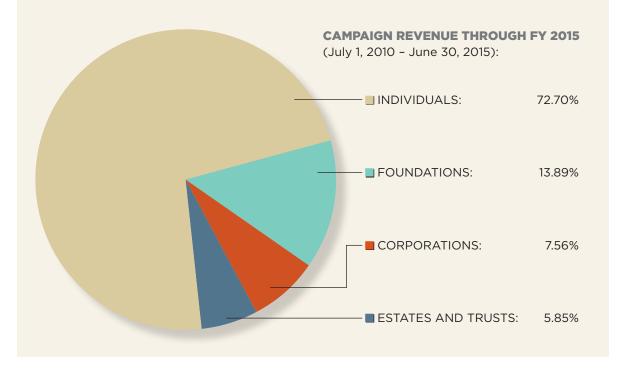
74 percent of donors are grateful patients.

#### Donors near and far:

Donors represent all 50 states.

#### **Every gift counts:**

## 77 percent of donors gave less than \$250.



#### **ABOUT THE CAMPAIGN**

Cedars-Sinai has never been about small ideas.

Thinking big, being bold and leading the field allow Cedars-Sinai medical teams to continually push the boundaries of lifesaving research.

Now, the institution has embarked upon a far-reaching effort to raise \$600 million to fund innovative research that will advance the understanding of disease, forge new frontiers in medicine and, ultimately, translate into groundbreaking treatments and novel approaches to disease prevention.

Some members of the research team may never step across the threshold of the laboratory: They are the grateful patients, community members and other supporters who understand the value of research and fund the vital work of doctors and scientists. The vision and generosity of these donors may one day end disease, reduce suffering and change the way physicians address illness.

The Campaign for Cedars-Sinai is built upon crossdisciplinary collaboration and innovation, focusing on five key areas:

#### • Aging and Longevity

With aging, new healthcare challenges arise. Promising research at Cedars-Sinai is exploring ways to increase longevity and vastly transform quality of life for seniors, helping ensure active, fulfilled and dynamic individuals throughout the age spectrum.

### Innovations in Healthcare and Technology

While technology affords opportunities to take research into areas once considered science fiction, innovations must be translated into efficient. effective and appropriate healthcare options. Cedars-Sinai focuses on establishing cross-disciplinary collaborations and institution-wide initiatives to open up new avenues in research, diagnosis and treatment.

### Education and Training

Cedars-Sinai has a long tradition of educating and mentoring the next generation of researchers, physicians and nurses - an effort fundamental to the institution's core values. Fellowships, endowed chairs and residency programs ensure that knowledge is shared across disciplines and generations, leading to fresh, collaborative medical discoveries.

#### Disease Prevention and Control

From diabetes to cancer to heart disease, researchers explore advanced diagnosis, treatment and disease management approaches that have the potential to improve the quality of life for thousands suffering from conditions such as inflammatory bowel disease, Crohn's disease, diabetes, heart disease and more.

#### • Precision Medicine and Targeted Therapies

Every patient is unique. A one-size-fits-all approach to medicine is no longer appropriate. Cedars-Sinai is leading the way with precision medicine that customizes treatments for each patient, greatly increasing success rates and shortening recovery times.

#### THE CAMPAIGN FOR CEDARS-SINAI

#### DISEASE PREVENTION AND CONTROL

#### SPORTS SPECTACULAR

Sports Spectacular celebrated

#### **ELLIOT AND ALANA MEGDAL**

Throughout Cedars-Sinai, healthcare teams are dedicated to pursuing research and advancing new treatments and technologies to save lives, educate patients and cultivate healthy habits. Key areas for funding within the campaign include cancer, diabetes and obesity, advanced heart failure and inflammatory bowel disease.

Philanthropic and forwardthinking supporters such as Sports Spectacular and Elliot and Alana Megdal are critical to these efforts.

its 30th anniversary at a gala attended by world-class athletes, healthcare professionals and entertainment industry leaders. The event recognized sportscaster and former NFL player Jim Hill for his many years of service to the organization and also honored the L.A. Kings and NBA player Russell Westbrook. "It was a great success," said Sports Spectacular Executive Director Beth Moskowitz. "And the crowd of over 1,700 showed us tremendous support." The event benefited the Sports Spectacular Diabetes and Obesity Wellness and Research Center at Cedars-Sinai, which will develop new ways to predict, prevent, treat and cure diabetes and obesity. These serious medical conditions are so closely linked they are sometimes referred to as "diabesity," and can lead to other life-threatening illnesses such as heart disease and stroke, kidney disease and nervous system damage. With personalized counseling about nutrition. exercise and medication, the center empowers patients to manage diabetes for themselves and their loved ones. It also provides support for school-based prevention education through Cedars-Sinai's Healthy Habits program, targeting underserved students, schools and communities.

When Alana Megdal was diagnosed with rheumatoid arthritis. she turned to Cedars-Sinai for medical care – but found much more. "My diagnosis was very isolating," she said. "All of a sudden, my whole life changed. Dr. [Michael] Weisman [director of Cedars-Sinai's Division of Rheumatology] showed such compassion and caring. It wasn't just about his great skill; it was about feeling like I wasn't alone in the fight." Rheumatoid arthritis is a chronic disease in which the immune system mistakenly attacks the body's own tissues, affecting organs as well as joints. The disease impacts all ages and can be particularly debilitating for children who face joint-replacement surgery, compromised mobility and misunderstanding from peers. Alana and her husband. Elliot, contribute to Cedars-Sinai in the hope that a cure can be found. "With this disease, it would be easy to give up," Alana said. "But we aren't giving up. We are going to fight."

#### PRECISION MEDICINE AND TARGETED THERAPIES

Matching the right patient with the right treatment at the right dose, given at the right time — can transform a person's health. Cedars-Sinai is a leader in precision medicine, which gives patients more options and more individualized treatments than ever before.

Philanthropic support from donors such as Dan and Melanie Spellens and Beverly and Arthur Shorin allow Cedars-Sinai's healthcare teams to further advance the promising science of precision medicine.

Dan and Melanie Spellens are devoting time, energy and resources to the work of Robert H. Baloh. MD. PhD. director of Neuromuscular Medicine at Cedars-Sinai and the Ben Winters Chair in Regenerative Medicine, as he pioneers therapeutic approaches to treat and hopefully one day cure amyotrophic lateral sclerosis (ALS). Dan, who suffers from the disease – a neurodegenerative illness with a survival time that rarely exceeds five years past diagnosis – hopes their efforts, which have raised more than \$160,000 to date. will make a critical difference for future ALS patients. "Dr. Baloh's work has the power to save lives," Dan said. "I don't believe I will be able to enjoy the fruits of his research, but I do believe others will benefit from the forward-thinking creativity and medical breakthroughs at Cedars-Sinai."

#### DAN AND MELANIE

**SPELLENS** 

## BEVERLY AND ARTHUR SHORIN

Celebrating the courageous journey of their daughter, Amy Silverstein, a two-time heart transplant recipient, Beverly and Arthur Shorin made a generous bequest from their estate to support research led by Jon Kobashigawa, MD, director of the Heart Transplant Program and the DSL/Thomas D. Gordon Chair in Heart Transplantation Medicine at Cedars-Sinai. Amy was a healthy 24-year-old law student when her heart suddenly started to fail. A year later, near death, she received the heart of a 13-year-old girl. Amy lived with her new heart for 26 years, far longer than doctors predicted. Last year, however, the transplanted heart failed, and she turned to Kobashigawa for support, ultimately receiving a second new heart. "The care at Cedars-Sinai is exceptional," Amy said. "What I got there was not just a new heart but also a better quality of life."

FOR CEDARS-SINAI	AGING AND LONGEVITY	SUSAN AND DAVID WILSTEIN	THE BRAIN TRUST	HEALTHCARE AND TECHNOLOGY	TONI AND EMMET STEPHENSON
	Cancer, diabetes,	Ranking among Los Angeles'	Formed in 1998, The Brain	The changing healthcare	Prolific philanthropists
	cardiovascular disease,	most philanthropic and	Trust is a dynamic group of	landscape calls for new	devoted practitioners
	Alzheimer's disease,	community-minded couples,	volunteers who raise funds	approaches to research,	Kaizen, the Japanese
	osteoporosis and other health	David and Susan Wilstein	to expand the work of	diagnosis and treatment.	philosophy celebrated
	problems often compromise	recently committed \$5 million	Keith L. Black, MD — chair	With this in mind, Cedars-	for reducing waste an
	quality of life for those over	to name the Susan and David	of the Department of	Sinai has established	promoting efficiency
	65. Cedars-Sinai envisions	Wilstein Memory Disorders	Neurosurgery, director of the	institution-wide measures	and Emmet Stephens
	a future in which older	Research Initiative at Cedars-	Maxine Dunitz Neurosurgical	that foster innovation across	teamed up with Ceda
	individuals enjoy health and	Sinai. The gift will leverage	Institute and the Johnnie	medical disciplines. For	to launch the Healthca
	independence, remaining	the combined power of the	L. Cochran Jr. Brain Tumor	example, the OR 360 project	Innovation Network, a
	physically active, vibrant	departments of Neurosurgery	Center, and the Ruth and	has developed a high-tech	improvement consulta
	members of their families and	and Neurology as they tackle	Lawrence Harvey Chair in	operating room of the future	for hospitals. The netw
	communities. Cedars-Sinai	Alzheimer's disease and	Neuroscience — and his team	that allows researchers	will build on Cedars-S
	is dedicated to keeping this	other forms of dementia. The	as they seek to treat and	to explore innovative	OR 360, a simulation
	older population well and	potential impact of the gift is	cure diseases of the brain	surgical techniques in many	the operating room of
	providing superior care when	sweeping, but its origins are	and central nervous system.	specialties.	future, which can redu
	needed.	personal. After experiencing a	He and his expert team are		medical errors by 25 p
		fall at home, Susan had a brain	pursuing a bold new frontier in	Donors such as Toni and	to 50 percent by scru
	Philanthropic support from	bleed and slipped into a coma.	the prevention and treatment	Emmet Stephenson and	disruptions in the flow
	Susan and David Wilstein, The	Her recovery was remarkable,	of disorders of the brain	Sondra and Marvin Smalley	care. "We have seen t
	Brain Trust and many others	but she struggles with short-	and central nervous system,	help fund innovative	huge impact that con
	helps fund promising research	term memory loss, and she	including pediatric and adult	programs already underway	improvement can hav
	and pioneering programs for	and David are committed to	brain tumors, Alzheimer's	as well as proposed initiatives	system," said Emmet,
	the aging population.	reshaping the understanding	disease, Parkinson's	that will push the boundaries	along with Toni, found
		of such ailments. "We don't	disease, brain trauma, spinal	of discovery.	business-services con
			· •		

deformities, epilepsy, stroke,

pituitary tumors, aneurysm,

to The Brain Trust Founding

and Executive Member Gloria

Mitchell: "It's a challenge to get

resources to the physicians and

scientists who have a novel or

groundbreaking idea — and

passion alive."

that's what The Brain Trust is all about. The work conducted by Dr. Black's team motivates us, their progress inspires us and their dedication keeps our

ALS and more. According

want it just to be about

Susan said.

to push the field forward,"

giving money — we are hoping

## THE CAMPAIGN

46 REPORT TO THE COMMUNITY 2016

**INNOVATIONS IN** 

#### SONDRA AND MARVIN **SMALLEY**

thropists — and titioners of panese business lebrated vaste and iciency – Toni tephenson have th Cedars-Sinai Healthcare twork, a qualityconsultancy The network Cedars-Sinai's ulation lab for room of the can reduce by 25 percent by scrutinizing the flow of e seen the hat continuous can have on any Emmet, who, ni, founded a business-services company that helped software giants like Microsoft streamline their operations and bolster their bottom line. The Stephensons donated \$1 million to launch the new project, which Emmet noted "has the potential to help every human being, both today and in the future."

Sondra and Marvin Smalley have served on the Cedars-Sinai Board of Governors for four decades. Their association with Cedars-Sinai goes even further back, as all four of their children were born at the original Cedars of Lebanon Hospital. "Our gift of \$250,000 will help support the Women's Guild Simulation Center for Advanced Clinical Skills, which will enable the clinicians to practice their skills in a safe environment with innovative medical devices," the Smalleys said. "We are so fortunate to be living in a community that has such an outstanding medical center, and we are proud to participate in this extraordinary facility."

THE CAMPAIGN
FOR
CEDARS-SINAI

#### **EDUCATION AND TRAINING**

#### **JEANIE BUSS**

#### THE HEART FOUNDATION

FY 2015 MILESTONE GIFTS TO CEDARS-SINAI

**Cedars-Sinai is among the** few freestanding academic medical centers in the country that provide training for medical students, residents, post-residency fellows and nurses. More than 400 residents and fellows are working and learning in more than 35 accredited training programs at Cedars-Sinai. Scientists in the institution's PhD program are trained in the field of translational research.

Funding for education from donors such as Jeanie Buss and The Heart Foundation is essential to providing outstanding patient care based on the most current medical discoveries.

As co-owner and president of the Los Angeles Lakers, Jeanie Buss knows how to build a winning team. This year, she leveraged that expertise to take on cancer, establishing the Dr. Jerry H. Buss Surgical Oncology Fellowship. Founded in memory of her late father, the fellowship offers advanced training for cancer surgeonscientists at the leading edge of treatment and discovery, pairing them with seasoned mentors who can help them develop critical skills. For Buss, the key to effective philanthropy is building a team that works in harmony. "Everybody has to play a part," she said. "Everybody has to pull together in the same direction. If you can do that, you can accomplish a lot."

Founded in memory of Steven Cohen, who lost his life to sudden cardiac death at age 35, The Heart Foundation celebrated its 20th anniversary with establishment of the Steven S. Cohen Endowed Fellowship in Atherosclerosis Research. Inaugural fellow Xiaoning Zhao, PhD, is collaborating with world-class physician-scientists at Cedars-Sinai to find a cure for heart disease and promote early detection. "Steve was vibrant and healthy, and all of us were shocked by his loss," said foundation chair (and Cohen's best friend) Mark Litman. "Yet, out of that tragedy came the drive to do something to honor his memory." Two decades later, The Heart Foundation is still delivering on its promise, promoting and advancing research that is revolutionizing the way heart disease is treated.

(July 1, 2014 - June 30, 2015) Dr. Miriam and Sheldon G. Adelson Anonymous Valerie Reid Aronsohn\* and Richard Aronsohn, MD\* The Saul Brandman Foundation **Judy and Bernard Briskin** Jeanie Buss Steven and Alexandra Cohen Foundation **Diane and Guilford\* Glazer** Erika J. Glazer National Philanthropic Trust **Margie & Robert E. Petersen Foundation** The Shorin/Silverstein Family **Emmet and Toni Stephenson and Family** Judith Toscano\* **Tower Cancer Research Foundation** Weingart Foundation Susan and David Wilstein

#### \* Deceased

Visit us online at **cedars-sinai.edu/giving** to learn how you can partner with Cedars-Sinai to improve patients' lives.

#### **THE NUMBERS**

JULY 1, 2014-JUNE 30, 2015







**1,526** RESEARCH PROJECTS



243,040 PATIENT DAYS (approximately 666 per day)



**11,625** FULL-TIME EMPLOYEES



697,539 OUTPATIENT VISITS (approximately 1,911 per day)



**2,051** PHYSICIANS ON MEDICAL STAFF



47,320 ADMISSIONS



**481** ENROLLED RESIDENT AND FELLOW POSITIONS



88,422 EMERGENCY VISITS



**225,163** PATIENTS CARED FOR BY CEDARS-SINAI MEDICAL NETWORK



2,897 VOLUNTEERS 182,153 VOLUNTEER HOURS

\$659,947,000 CONTRIBUTION FOR COMMUNITY BENEFIT

### FINANCIAL SNAPSHOT

INCOME AND EXPENSES

Revenues from patient care and other sources

Expenses

Operating income

Investment income

Net income to reinvest in Cedars-Sinai's mission

USES OF NET INCOME

Long-term debt to be repaid

Capital expenditures for facilities, renovation, techn

This year's payment on long-term debt

### COMMUNITY BENEFIT CONTRIBUTION

Unreimbursed cost of direct medical care for the po (Excludes the unreimbursed cost of caring for Medicare pa

Charity care (\$21,785,000)

Unreimbursed cost of caring for Medi-Cal patier

Unreimbursed cost of direct medical care for Medica

Community benefit programs, and education and tr and other health professionals

(Includes hundreds of free community education and medi offered at the medical center and in local schools, homeles

Research programs (Includes translational and clinical r

Research funding from grants (\$102,496,000)

Research net of funding from grants (\$75,660,0

Total quantifiable community benefits, including the unreimbursed cost of caring for Medicare patients

	\$3	3,090,947,000
	\$ 2	2,711,277,000
	\$	379,670,000
	\$	(13,606,000)
	\$	366,064,000
	\$ 1	L,045,381,000
nology and other	\$	170,470,000
	\$	44,449,000
oor and underserved	\$	89,597,000
patients)		
nts (\$67,812,000)	_	
care patients	\$	288,682,000
raining for physicians	\$	103,512,000
dical screening/immunization programs ess shelters and community centers)	Ψ	103,312,000
research and studies on healthcare delivery)	\$	178,156,000
000)		

\$ 659,947,000

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