

Breathtaking
DISCOVERIES



Life-Changing CARE



Breathing Science is Life.

Breathtaking Discoveries Life-Changing Care

Working at the intersection of discovery and care is one of medicine's great opportunities. It offers an amazing platform for positively impacting lives that we at National Jewish Health never take for granted. When physicians, caregivers and researchers pull together and solve new challenges, the results are breathtaking. When these discoveries and solutions guide care for patients, the results can change lives. This connection remains an unwavering part of our mission, one that we are always eager to share. Breathtaking Discoveries. Life-Changing Care.

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LEADERSHIP LETTER

We have much to celebrate this year, beginning with the opening of our new Center for Outpatient Health last October. This carefully planned clinical space is now providing much-needed modern facility support as we care for more children and adults who come to us with a variety of lung, heart, gastrointestinal, immune and related diseases. We also have begun to reimagine and remodel existing space in our Smith and Goodman buildings, including a renovation that is now underway to expand capacity for our Minimally Invasive Diagnostic Center. We are identifying new ways to utilize space for ongoing and increased research, enhancing the support for the robust efforts we have in these areas.

At the same time, we are appreciative that the global pandemic we have all faced since its emergence in 2020 is waning. Though COVID is not yet conquered, we have safe and effective vaccines available and a wider array of treatments that are lessening the impact on most people. In addition, while there is still much to learn about the virus and how it affects individuals, we can now move forward with a greater sense of confidence. Our faculty and staff, who have made herculean efforts during the pandemic, continue to excel in their work at National Jewish Health despite facing challenges in their own lives during these times.

At National Jewish Health, we continue to focus on the needs of our patients — both children and adults — who have been affected by COVID-19. Our Center for Post-COVID Care and Recovery treats a broad range of COVID-related issues and, in particular, offers care for those who are suffering the symptoms and effects of long COVID.

Even more broadly, our National Jewish Health 2022 Annual Report details many of the ways in which our doctors, researchers and staff have worked together over the past year, helping individuals who need care and treatment, while also focusing on advancing research.

Breathtaking Discoveries and Life-Changing Care are brought to life in these pages through the eyes of patients such as Tim Farquhar, a pilot from Atlanta who feared he might not fly again. A trip to see doctors at National Jewish Health brought a diagnosis of bronchiectasis and lung infections and guided him onto a life-changing treatment plan. Or, consider 8-year-old Layja, who had a rare inflammatory disease that needed to be diagnosed before she could be successfully treated. Her life was changed through the efforts of caregivers in our Pediatric Day Program.

Read how our early lung cancer screenings are improving outcomes for patients and how the health of the heart is tied directly to many other illnesses, including cancer and lung disease. Our researchers have published studies this past year that help identify how some asthma genes work, which in turn will help identify pathways to new possibilities for treatments. You can read about research on the effects of vaping and about a new tool built to help address disparities in cystic fibrosis diagnosis. You also can learn how a video game is helping patients with lupus improve their cognitive function. These are only a few of the many stories and achievements that we celebrate in our 2022 Annual Report.

We invite you to read on and learn more about how our caregivers, researchers and staff truly deliver breathtaking discoveries and life-changing care to improve lives throughout our communities and the world.

Michal Salen

Michael Salem, MD, FACS President and CEO

Steven D. Kris *Chair, Board of Directors*

Michael Salem, MD, FACS President and CEO **Steven D. Kris** *Chair, Board of Directors*

Breathtaking GROWTH



Dedication to our mission and generosity from our supporters enabled National Jewish Health to expand our main campus, double clinic capacity, add new services and programs and continue to grow research. Together, we work to bring the best care possible to patients suffering from respiratory, cardiac, immune and related disorders.

THE CENTER FOR OUTPATIENT HEALTH DELIVERING LIFE-CHANGING CARE

To meet the growing demand for clinical services on our main campus, National Jewish Health opened the Center for Outpatient Health (COH) on October 11, 2021. The completion of the Center was the culmination of the multiyear Comprehensive Campaign that garnered tremendous engagement from our community of supporters both locally and nationally.

The five-story Center supported nearly 140,000 patient visits in its first year of operation. The 230,000-square-foot facility doubled the capacity to administer life-changing care to more adults and children with respiratory, cardiac, immune and related diseases.

Exam Rooms Designed for Care

Exam, treatment and therapy rooms are at the heart of the patient experience for many who receive care at National Jewish Health. Each patient spends time with their doctor and care team who review their health history, explain test results, provide patient education and more. The 110 exam rooms in the Center have comfortable furniture, calming artwork and scenic views to put children and adults at ease amidst potentially stressful medical journeys. The latest technology and equipment support the work of the care team for delivering accurate diagnoses, precision care and personalized treatment.

"The first year has gone extremely well," said Carrie Horn, MD, chief medical officer. "The patients and staff have appreciated the bigger exam rooms and the natural light. Our providers who work together to mutually care for patients, such as those with interstitial lung disease and



rheumatological disorders or those with asthma and allergies, have found that working in the same space is more convenient for patients and more efficient for provider consultations."

Dedicated infusion rooms help meet the needs of patients with cancer or infectious diseases and immune conditions. The infusion floor was designed to help patients feel serene and comfortable during treatments. Patients receive their treatments in specially designed rooms that extend the sense of calm and caring during long sessions.

Campus Renovations

With the opening of the COH, renovation projects for existing space began to maximize functionality, as well as visually connect all parts of campus. A new circle drive in front of the Smith and Goodman Buildings provides patient drop-off access to the Smith entrance (the old main entrance) and the Goodman Building, which is now home to Immediate Care, as well as other patient and treatment areas and research laboratories. New external awnings in this area were added to match the look of the Center for Outpatient Health.

In addition, Heitler Hall, a meeting and conference space, was transformed with the latest audio and visual technology and expanded seating capacity. This hall supports training, important in preparing the next generation of physicians and scientists.

Renovations to the Minimally Invasive Diagnostic Center are underway to increase the number of preoperative and recovery rooms and to add additional private, negative pressure procedure rooms. "The new space will be more open and allow for better patient visualization by nurses and providers," explained Kristi Melton, MSN, RN, NE-BC, vice president of Clinical Business Operations. "Every space has been set up for efficiency and effectiveness, which will help increase the number of patients we can serve."







"The building feels less like a school and more like a place of discovery."

SARA ANDERSON FIRST AND SECOND GRADE TEACHER









Morgridge Academy Renovations – New Spaces, New Discoveries

"Wow, it's like a whole new school," said one student on the first day of school. "We heard many students say 'ahh' and 'cool' and how excited they were to see all the changes," stated Jennifer McCoullough, MA, director of the school. Much of the school renovations were funded through generous gifts from several long-time donors to the program.

Built in 1977, the school building has seen thousands of students come through its doors and has had updates over the years, but this was almost a complete overhaul. "We asked students and staff what they would change in the school, shared that input with the renovation experts and let them do their job," explained McCoullough. "We're so grateful for the donor support that made this possible and that allows us to care for and teach our amazing students."

All flooring, lighting and paint were updated in a color palette of blue, green and yellow, which enhances learning according to research. The bathrooms were all refurbished and a new gender-neutral, fully accessible restroom will be completed soon. A wall in the library was removed to increase usable space and allow natural light from the windows to stream in. The elevator was replaced for improved accessibility, and the fire alarm and security systems were updated.

Morgridge Academy, the nation's only K-8 grade school for chronically ill children on a medical campus, is updated and ready for years to come.

"Being here makes me happy!"

MARLAYA FIRST GRADE



FOCUS ON LONG COVID CAUSES AND CARE

As the COVID-19 pandemic stretched into its third year, millions of patients continued to struggle with lingering symptoms. From shortness of breath and fatigue to brain fog and gastrointestinal problems, patients' symptoms are often mysterious, making their treatments challenging and their outcomes uncertain.

More than 6,000 of those patients have come to the National Jewish Health Center for Post-COVID Care and Recovery. The experience gained in seeing so many patients, combined with the extraordinary expertise of National Jewish Health practitioners, has provided important insights into patient care, prognosis and causes of long COVID.

"There were so many unknowns when we started helping post-COVID patients," said Rachel DeCosta, nurse practitioner with the Center. "We know so much more now. For instance, we know that recovery is likely to last nine to 12 months and lung scarring will stabilize or improve." In addition, the team learned more about the root cause of long COVID symptoms and published their findings in the *American Journal of Respiratory and Critical Care Medicine.*

"There is no common characteristic among patients experiencing post-COVID syndrome," said Irina Petrache, MD, co-author of the study. The article summarized much of what they have learned about post-acute COVID-19. About a third of COVID-19 patients they saw in 2020 continued to suffer symptoms four or more weeks after the onset of disease. A lost sense of smell was the greatest single predictor of developing long COVID. Conversely, pre-existing lung disease did not predispose patients to lingering symptoms.

The team also described four different varieties, or phenotypes, of patients. Three of the phenotypes, accounting for about half of the patients, were previously recognized syndromes resulting from acute infection, intensive care unit and hospital stays, and the worsening of pre-existing lung disease.

"At National Jewish Health, we have decades of experience and established protocols for caring for patients with severe lung disease" said Center Director Nir Goldstein, MD. "We are equipped and know better than most how to care for them."



The fourth category is the mysterious long COVID, which commonly affects previously healthy, younger patients, who often suffered mild disease. They can experience extreme fatigue, exercise intolerance and wildly fluctuating heart rates, among other symptoms.

National Jewish Health researchers have discovered a clue, however, to the potential cause of long COVID. Extensive and specialized testing suggested that mitochondria, the energy factories within cells, are malfunctioning.

"If the mitochondria are sick, nothing works well," said Irina Petrache, MD, chief of the Pulmonary, Critical Care and Sleep Division. "We are very excited about this discovery, but need to learn more before we can be sure that mitochondria are the problem."

Although children generally suffer milder COVID-19 symptoms than adults, they too can experience lingering symptoms, a problem pediatrician Nathan Rabinovitch, MD, believes is underappreciated. Dr. Rabinovitch and his colleagues in the Pediatric Center for Post-COVID Care and Recovery have seen dozens of previously active, healthy children who report trouble breathing and are barely able to exercise after COVID. Regular lung-function testing shows no abnormalities, spurring some physicians to suggest the malady is merely a product of the children's minds.

Dr. Rabinovitch and his colleagues have found, however, that many of these children suffer damage to the small airways deep in the lungs. They recently reported the case of one such child in the *Journal of Allergy & Clinical Immunology: In Practice.* Fortunately, the child recovered after treatment with standard asthma medications and a graduated exercise regimen.

The ongoing pandemic will no doubt increase the numbers of those who suffer long COVID symptoms, making it even more important for National Jewish Health researchers and caregivers to continue the focus on this illness.

Immediate Care for the Community

Immediate Care was formed in late 2021 in response to our community's need for same-day, non-emergent care for COVID-19 and other respiratory illnesses.

"During the first year of offering Immediate Care, not only have we met a community health need, but also we've introduced many new patients to National Jewish Health," said Carrie Horn, MD, chief medical officer and chief of the Division of Internal and Hospital Medicine. "Patients love having access to care for urgent needs such as sutures, sprains, infections and more, and we love being able to tell them, 'if you're not feeling well, we can evaluate and treat you, or transport you to the right level of care.'"

This thriving, full-service clinic is now located in a renovated location on the main campus, with easy parking for patients as well as a patient drop-off zone.

"Immediate Care has quickly become a point of information and care in the community," explained Kelli Lewis, MD, medical director of Immediate Care. "Patients tell us that they come because of our reputation for taking care of really sick people," said Kristi Melton, MSN, vice president of Clinical Business Operations and chief nursing officer. "The hospital now reaches people with acute illnesses and many become patients of our specialty care physicians. As the program grows, we look forward to helping more neighbors with their health care needs."

IMMEDIATE CARE **CARE**



Long COVID Odyssey Ends in Recovery

At one point, Sophia Laderman strategically placed chairs all around her house, including in the shower. Her long COVID symptoms had become so severe that she could hardly stand up without blacking out. She crawled from room to room, and her husband carried her up the stairs of their Denver-area home. "I couldn't take care of myself," said Laderman. "At times I worried that I was going to die."

Before contracting COVID-19 in March 2020, Laderman had been a highly active, accomplished 29-year-old who loved skiing, was vice president of a nonprofit and pursuing her PhD. COVID was difficult, but she recovered after about two weeks at home.

A month later Laderman felt a sharp pain in her chest while running. Then she felt nauseated, out of breath, dizzy and feverish during a tennis match and again at the grocery story. Those episodes started a two-year odyssey with debilitating long COVID. She stopped pursuing her PhD, was confined mostly to her bed and, as one doctor put it, "dropped off the face of the earth."

In May 2021, Laderman came to the National Jewish Health Center for Post-COVID Care and Recovery, where she saw a multidisciplinary team of pulmonologists, cardiologists and neurologists, as well as physical, speech and occupational therapists. She worked especially closely with physical therapist Kelly Hines, PT, DPT, and Glenn Hirsch, MD, chief of the Division of Cardiology.

"He changed my life," said Laderman. "Dr. Hirsch actually listened, waited until I was done talking, and then answered all my questions."

Dr. Hirsch diagnosed Laderman with postural orthostatic tachycardia syndrome (POTS), which causes patients to become dizzy and their hearts to beat furiously when they stand up. He prescribed a beta-blocker medication. "Within 15 minutes I could actually feel I was coming back," said Laderman. "I was less lightheaded, and I just felt more like myself."

Over the next few months, Dr. Hirsch and the National Jewish Health team tried a variety of pharmacological and lifestyle therapies to treat Laderman's ongoing symptoms, which included chest pain, fatigue, brain fog and a lost sense of smell. At one point, she cheerfully reported to Dr. Hirsch that she was feeling 70% better. "He said, 'That is not good enough. We need to get you as close to 100% as we can,'" said Laderman.

POTS and many of the other long COVID symptoms involve the autonomic nervous system, which controls involuntary functions of the body, from the heart to the liver, bladder and digestive system. Dr. Hirsch prescribed a couple of medications approved for diabetes and neuromuscular disorders that he thought might address the autonomic dysfunction.

"We are ready to try new options if there is some rationale or indication that they might help," said Dr. Hirsch.

The final step in Laderman's recovery came when she read a case report in a scientific journal about stellate ganglion block, a treatment that appeared to "reboot" the malfunctioning autonomic nervous system. Dr. Hirsch thought it was worth a try. He coordinated the care and procedure at a local hospital. It worked like a charm, resolving her remaining symptoms. She resumed her full suite of activities and plans to defend her PhD thesis in November 2022.

"My recovery was amazing," said Laderman. "I feel so lucky and very grateful."

Life-Changing CARE

At National Jewish Health, improving patient health and quality of life is at the forefront of our work. We find answers that patients haven't found elsewhere and provide multispecialty care that is life-changing.

Pull Up and Fly High

Not everyone takes coughing and sinus problems as seriously as they should. However, when you're steering 100 tons at 30,000 feet, you don't have a choice.

For Tim Farquhar, piloting a commercial airliner was rewarding work, even though it lacked a certain thrill — the supersonic variety from his days flying F-16 fighter jets in the U.S. Air Force.

In 2017, as he began to suffer multiple bouts of bronchitis and mysterious sinus infections, Farquhar's wings were in danger of being clipped. The Federal Aviation Administration's strict health assessments require pilots to be in top shape before they take off, and Farquhar would have weeks where his breathing problems were so severe he had to sleep in a recliner.

Looking for a solution, Farquhar began consulting with various pulmonologists, allergists and other specialists in his hometown of Atlanta. But nobody seemed to have a clear diagnosis, much less a cure.

"During this whole time we were trying to treat symptoms with cough medicine, antibiotics; things like that," he said. "I would go on this roller coaster where I would get a little bit better, and then I'd go back down."

Farquhar's situation worsened. He attempted several treatments, including IVs of antifungals and antibiotics for six weeks, but nothing worked. In March of 2018, he was out of sick leave and had to go on temporary disability. With his condition still not improving by early 2019, he sought more expertise. He turned to a family friend, a pulmonologist, who gave him a short list of the top institutions in the country where he would have the best chance for recovery. He tried one, but it still wasn't enough. "You're just going to have to live with your symptoms," they told him. Ever determined, he tried another. It was then that he arrived at National Jewish Health.

"They didn't leave any stone unturned," said Farquhar, recalling his experience with pulmonologist Steven Lommatzsch, MD. "They're not just doing their job. They're here to help make you feel better. It's an attitude l've never seen at any other medical institution."

It wasn't long before Farquhar was on a more comprehensive treatment plan for his bronchiectasis and lung infections. He began rapidly improving and was given a medication plan that would allow him to fly again. According to Dr. Lommatzsch, the coordinated care system at National Jewish Health was what made this possible.

"It's different here," he said. "You get real-time feedback from other specialists as you're thinking about the patient. That's our secret recipe. We have detailed and thorough communication among all our providers."

Farquhar continues to work with Dr. Lommatzsch and the rest of the team at National Jewish Health, and now he's back in the skies, doing what he loves. "It's rewarding to get people where they want to go," Farquhar said.

We couldn't agree more.







SAVING LIVES WITH LUNG CANCER SCREENING

Lung cancer is still the leading cause of cancer death in the U.S. Early detection by low-dose screening CT scan can dramatically decrease mortality in high-risk patients. When lung cancer is detected early and while it is still localized to the lungs, the survival rate is 70–90%. The National Jewish Health Lung Cancer Screening Program identifies patients with lung nodules that need to be monitored and those that are cancerous and require treatment.

"Our Lung Cancer Screening Program performs above the national average," said Debra Dyer, MD, chair of the Department of Radiology. "Of our patients who were diagnosed with non-small cell lung cancer through our low-dose screening CT, we caught 86% at Stage 1. At that stage, lung cancer is small, has not spread outside the lungs and is highly curable," explained Dr. Dyer. The national average for finding Stage 1 lung cancer through screening is between 60% and 65%.

Dr. Dyer and other providers at National Jewish Health have collaborated on national research and provided leadership on national committees regarding lung cancer screening. This combination of leadership and patient care have brought recognition to National Jewish Health as a Screening Center of Excellence and a Lung Cancer Center of Excellence by the GO_2 Foundation for Lung Cancer, and as a Designated Lung Cancer Screening Center by the American College of Radiology.

National Jewish Health offers the latest technology to confirm the diagnosis and stage the lung cancer. "Robotic bronchoscopy allows us to reach more types of lung nodules in a minimally invasive outpatient procedure," said Ellen Volker, MD, director of Interventional Pulmonology. "This technology combined with



our pulmonary expertise allows us to reach difficult areas of the lung with greater than 90% success compared to older technologies."

Cancer care at National Jewish Health goes beyond lung cancer as our team offers comprehensive care for all adult cancers and blood disorders. "The Cancer Center at National Jewish Health brings the best in cancer diagnosis, treatment and follow-up care for patients. Our care is focused on the whole patient, not just the cancer, not just the symptoms, but how we can help each patient get the best care, the best result from therapy and have the best quality of life possible," explained Jeffrey Kern, MD, chief of the Division of Oncology and Cancer Center.

Cancer screening is life-changing care that can save lives. Lung cancer screening is recommended and free for people 50 to 80 years old, current or former smokers with at least a 20 pack-year history of smoking and those who currently smoke or who quit in the last 15 years.

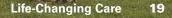
Quitline Identifies Callers Eligible for Lung Cancer Screening

Over the past 20 years, National Jewish Health has helped more than 2 million people with their attempts to quit smoking. "There are about 34 million Americans who smoke and more than half of those people try to quit each year," explained Thomas Ylioja, PhD, clinical director for Health Initiatives and smoking cessation services at National Jewish Health.

This year, the Quitline incorporated lung cancer screening education with the quit counseling provided in the program. "Smoking is a major risk factor for developing lung cancer, so there is a clear link for us to include the screening education with smoking cessation information," said Dr. Ylioja.

It's estimated that 56% of callers to smoking quitlines are eligible for lung cancer screening based on age and smoking history. "Not only do we hope to help people quit smoking and live healthier lives, but also we'd like to save lives with lung cancer screening."

National Jewish Health is one of the largest providers of phone-based and digital smoking cessation services in the U.S., operating 21 state Quitlines. People who make quit attempts through our program see a much higher success rate because we use proven techniques. Our Lung Cancer Screening team has had tremendous success in screening people and catching lung cancer at the early and treatable stage. "We hope we can build on the success of both programs by educating Quitline participants about the importance of lung cancer screening," added Dr. Ylioja.



Coordinated Care Puts Patient on Road to Recovery

Roger and Carol Dodge met at the end of high school 40 years ago in Virginia and have been together ever since. Many memorable milestones followed, including three kids, grandkids and a mid-1990s move to Colorado, where they settled. Roger worked as a certified mechanic and enjoys spending time with his family.

Recently, though, a lung cancer diagnosis for Roger threatened to disorder the couple's lives. With the help of a dedicated team at National Jewish Health, however, they are again looking forward to full and fruitful lives.

Roger's lung problems began a couple of years ago with a chronic obstructive pulmonary disease (COPD) diagnosis. Imaging scans revealed spots on his lungs that he was told were scar tissue. In October 2021, however, a scan at the National Jewish Health Lung Cancer Screening Program raised suspicions that the spots could be cancer. After a PET scan, interventional pulmonologist Ellen Volker, MD, biopsied tissue from Roger's lungs and confirmed that he had cancer in his left lung.

The plan to treat the cancer proceeded quickly. Thoracic surgeon John Mitchell, MD, scheduled surgery for the Sunday before Thanksgiving. The prospect was frightening, but Roger said Dr. Mitchell and his team eased his fears. "They explained everything — exactly what was going to happen and how it was going to happen," Roger said.

Dr. Mitchell successfully removed a lobe from Roger's lung. After recovering in the intensive care unit, Roger completed a four-month chemotherapy regimen to eradicate any remaining cancer. He now receives immunotherapy — an infusion of drugs that help the immune system recognize and block cancer cells — directed by oncologist Laurie Carr, MD. He will continue to receive the infusions every three weeks for a year.

Roger doesn't minimize the challenges of lung cancer treatment. He was very sore after the surgery, and the chemotherapy left him severely fatigued. But he is building lung strength with pulmonary rehabilitation and generally needs supplemental oxygen only at night. "I'm almost back to where I was before the cancer," Roger said.

Carol said Roger has helped his recovery by following the instructions from his National Jewish Health caregivers. He has had plenty of help, she added, from the entire team and their coordinated care — from screening to biopsy, surgery and immunotherapy. "All the medical folks have been great," Carol said. "Everyone was encouraging and positive."

Best of all, Roger is able to travel with Carol. He looks forward to attending an upcoming naming ceremony for his baby granddaughter Cassidy in Georgia.





CARDIO-ONCOLOGY PROGRAM HELPS CANCER PATIENTS MANAGE HEART RISKS

Cancer can be hard on the heart. Some cancers, such as breast and blood cancers, increase the risk of heart attack, blood clots and stroke. Treatments for cancer can also harm the heart and circulatory system. On top of that, many cancer patients have pre-existing conditions that increase their risk of cardiovascular complications during and after cancer treatment.

National Jewish Health has created a Cardio-Oncology Program led by Chris Fine, MD, to help cancer patients and their oncologists manage and reduce cardiovascular risks associated with cancer and its treatment.

"I focus on cancer patients' heart health to ensure they remain strong enough to endure treatment and to monitor their increased risk for cardiac events," said Dr. Fine.

Dr. Fine, one of the few certified cardiooncologists in the country, often sees cancer patients before cancer treatment begins, to improve their ability to tolerate care and identify cancer therapies that pose the least risk to individual patients.

"Dr. Fine has been very, very helpful," said Rao Mushtaq, MD, oncologist at the National Jewish Northern Hematology-Oncology practice. "In one case, he optimized the heart pumping capacity of a patient with congestive heart failure before we began therapy. That gave us more options for the best possible care of that patient."

During cancer treatment, Dr. Fine closely monitors patients, often through phone apps that can catch even subtle changes in heart function. This allows a patient's care team to adjust cancer therapy or cardiovascular care so they can continue with the most effective therapy.

Even when in remission, cancer patients often face increased cardiovascular risk from the cancer itself or from toxic effects of the cancer treatments. Dr. Fine understands those risks and how to manage them.

"I am with my patients throughout their entire cancer journey and well after remission," said Dr. Fine.

What Is Cardiotoxicity?

Cardiotoxicity is damage caused to the heart and cardiovascular system by some cancer treatments

Heart Problems Caused by Cancer Treatment

- Abnormal heart rhythm
- Blood clots
- Congestive heart failure
- Coronary artery disease
- High or low blood pressure
- Myocarditis
- Peripheral vascular disease
- Valve disease

Potential Heart Damaging Treatments

- Chemotherapy with certain drugs
- Chest radiation therapy
- Drugs to prevent recurrence
- Molecular therapy
- Monoclonal antibodies

Monitoring Heart Health Gives Patient Peace of Mind

Janet Schmidtlein-Sparling works with her doctors to attack her cancer from every possible angle. But treatments have taken a major toll on her heart. She needs specialized expertise beyond that of a general cardiologist.



Chris Fine, MD, explains heart-protecting treatments to patient Janet Schmidtlein-Sparling.

1 in 10 cancer patients die from heart disease not cancer "If I want to stay healthy and be able to see my nieces and nephews and have a normal family life, I need to know my heart is safe," said Schmidtlein-Sparling.

Schmidtlein-Sparling was referred to National Jewish Health cardio-oncologist Chris Fine, MD, an expert at managing cardiovascular complications of cancer care. He not only looks after her heart throughout cancer treatment, but also stands behind her as she fights cancer.

"I told Dr. Fine, 'I'm not ready to give up yet,'" said Schmidtlein-Sparling. "And he says, 'Then I'm walking with you.'"

Dr. Fine has become an integral part of Schmidtlein-Sparling's care team. He stays in close contact with her oncologist, offering advice on medications and other therapies that may affect her heart. He conducts heart imaging and screening though routine echocardiograms and electrocardiograms. He also has given Schmidtlein-Sparling a phone app to keep close tabs on any changes to her blood pressure, heart rate, oxygen levels and other heart-related factors.

Seamless follow-up care also is becoming increasingly important, as cancer survivors are more than twice as likely to die of heart disease as the general population.

"Even when the battle has been won, we're continuing to keep a close eye on things and monitor our patients' overall cardiovascular health long term," said Dr. Fine. "I am going to be with her the whole way."

It's this expert care and commitment that helps Schmidtlein-Sparling keep going every day.

"It's very nice to know I have a doctor that is there to support me through my cancer treatment, be aware of what the cancer is doing to my body and to help me survive while I am going through the cancer treatments," said Schmidtlein-Sparling.

UNIQUE PEDIATRIC DAY PROGRAM OFFERS LIFESAVING CARE FOR KIDS

More than 40% of school-aged children and adolescents in the U.S. have at least one chronic condition such as asthma, obesity or food allergies, and many have multiple chronic conditions. For parents, having a child with a chronic disease is challenging on many levels.

The Pediatric Day Program at National Jewish Health is a one-of-a kind program designed to help parents by solving diagnostic dilemmas and hard-to-manage asthma, allergies, long COVID and other respiratory conditions. The program also helps children who are having difficulty taking their medication regularly.

"The program combines a comprehensive diagnostic evaluation with treatment plan development into one multiday outpatient visit. This approach eliminates parents going to multiple appointments over several months and actually makes the biggest impact on health," explained Nathan Rabinovitch, MD, program director. "The Day Program brings together a multidisciplinary team to accurately diagnose and treat the whole child and family in a relatively short time. We send each family home with a plan that they have practiced with us and that is really going to make a difference. There's no other program exactly like this."

Each child's Day Program team may include specialists in allergy, immunology, pulmonology, behavioral health, nutrition, patient education, rehabilitation and more to address all aspects of each patient's health and life, along with the family's situation. Education is an important component of the Day Program. Patients and family members learn about their disease, why and how their medicine helps keep it controlled, how to follow their plan, what to do if a problem comes up, and how to help children and family members manage the emotional issues related to having a chronic disease.

"Behavioral health is a big part of the Day Program," stated Bruce Bender, PhD, head of the Division of Pediatric Behavioral Health and a contributor to the program.

"We view the family as a whole entity," explains Dr. Bender. "A child's chronic illness can impact the whole family. So we work with the family to address behaviors, emotional health and other family issues. Our goal is to help the patient and family in every way possible, so they can go home, keep their chronic condition managed and lead a normal life. The results are amazing."



Karen Gentile, MSN, CPNP, checks lan Kearney's breathing in the Day Program.



Ian Kearney is an 18-year-old from Las Vegas, who now attends college in Iowa and plays Division 3 soccer. He was born with food allergies and has had to restrict his eating to the same few foods that he knows are safe.

"I've been allergic to dairy, beef and other red meats, eggs and pork, pretty much my whole life," explained lan. "Before going off to college, I wanted to find out if there are other foods that I can eat safely."

"It's been remarkable to be here," said lan's mom Dana Kearney, describing their experience at National Jewish Health *for Kids.* "In the Day Program, they listened and didn't just say 'avoid those foods.' They circled around lan and focused on all that he's gone through and what his goals are — to eat other foods and to be safe at college."

"I was kind of resistant to coming here, but I'm so glad I did," said Ian. "I have learned more in a few days here than I have from all the other allergists I've seen. I won't outgrow the dairy or beef allergies, but I have some new foods that I can eat and a protein shake that I can have before and after soccer. I even know how to give myself epinephrine. It was scary to have a severe reaction during the beef food challenge, but they talked me through how to inject myself, and now I know I can do it if I ever need to again."

"You've given my son answers we couldn't get at home, new foods to eat, new information to manage his allergies, new treatment options and a whole group of people who really care for Ian. You all have been amazing," said Dana.

A Young Detective with a Medical Mystery

Layja is an eight-year-old who loves to swim and read mysteries. This little girl was herself a medical mystery for physicians. She first was evaluated by doctors at the Tripler Army Medical Center in Honolulu, who reached out to their former U.S. Army doctor colleague and now pulmonologist at National Jewish Health *for Kids*, Jane Gross, MD, PhD.

In Hawaii, Layja had been seen for what looked like pinkeye that never improved and for what appeared to be Bell's palsy, a weakness on one side of her face, that also didn't improve, but switched sides. She also lost hearing in one ear. The doctors suspected sarcoidosis and referred her to the Pediatric Day Program.

"Sarcoidosis is a rare disease among adults and even more rare in young children," explained Dr. Gross. "We were totally dedicated to finding the diagnosis and optimizing care so Layja can get back to reading mysteries, swimming and being a kid."

Sarcoidosis is a rare inflammatory disease that causes the immune system to overreact and produce tiny clusters of inflammation called granulomas. This disease can affect any organ in the body, but about 90% of the time it affects the lungs. There is no cure for sarcoidosis, but the disease can be treated and managed to minimize organ impact.

In the 10 days that Layja was on-site in the Day Program, Dr. Gross and Lisa Maier, MD, an expert in adult sarcoidosis, coordinated a large multidisciplinary team. Working together to rule out other conditions that can mimic sarcoidosis, they ultimately confirmed that Layja has a very rare presentation of sarcoidosis in the brain and lungs. The team started treatment and addressed issues that could have long-lasting impact on Layja, such as sleep and access to specialty care.

"I now understand the full extent of my daughter's condition," said Layja's mom. "I sat down with her Day Program doctors and they went over, in detail, everything about her lungs and brain, the treatment plan and things to watch for. We have an emergency plan and a letter for school. She is in the best hands possible."

Life-Changing Care 27



Jenna Milliron, NP; Darlene Kim, MD; M. Patricia George, MD; and Dthia Kalkwarf, RN; work together to help patients overcome metabolic health issues.

AN EVIDENCE-BASED APPROACH OVERCOMING CHRONIC ILLNESS WITH FITNESS

"Eat less, exercise more" is a maxim behind many weight loss missions. It's straightforward, easy to understand. However, with American obesity rates at record highs, this slim slogan isn't working. Perhaps it's because dieting is ultimately a more scientific problem, one for which four simple words are too small a portion.

Beginning early this year, the Metabolic Health and Breathing Program at National Jewish Health was inspired by recent advances in the study of how more precise nutrition and lifestyle choices can unlock better health outcomes. Obesity, diabetes, hypertension and elevated blood sugar are often linked to the respiratory conditions National Jewish Health is renowned for treating, so it was crucial to find an innovative solution.

"We started thinking about how to address the root cause," said pulmonologist and program co-founder Marjorie Patricia George, MD. "What if we counsel people in ways to nutritionally modulate their disease — to put it into remission in the same way subjects have done in the literature? And so, that's what we've done."

Alongside specialists like Mohammad Dalabih, MD; Darlene Kim, MD; and Dthia Kalkwarf, RN; Dr. George helps patients develop strategies for better health. This process leads to dramatic results. In some cases, patients are able to reverse chronic conditions like diabetes.

"I think a lot of patients have been chronically ill for a long time, and that starts to feel normal. They feel powerless," said Jenna Milliron, NP. Even though the program is new, Milliron has seen multiple transformations. "What I hear consistently from patients is that they feel more empowered to make changes in their life because they better understand the problem."

These turnarounds come from the program's cutting-edge approach. Dr. George and her team create personalized diets that curb carbohydrate and sugar intake. Because these diets are so interconnected with other aspects of health care, the successes of the program's patients reverberates throughout the hospital. Dr. George recalled how one patient's previous weight gain caused her to develop a stiffness on the left side of her heart and other complications that put her life in danger. After working with the program though, this patient was able to lose 100 pounds.

"We see her every three months. She's doing great now," said Dr. George. "She went from being able to do short bursts moving around in the hospital bed to walking on the waterfront, just doing tremendous."

The Metabolic Program is another instance of how National Jewish Health is exploring every possible way to help people breathe better.

Life Gets Back on the Green

Even over the phone, Michael Brown's voice is a hypodermic of pure energy. Indeed, the first word neurologist Jinny Tavee, MD, used to describe him is "ebullient." But it wasn't always this way.

When Brown first saw Dr. Tavee at National Jewish Health in 2021, his usual charisma was muffled. "He just seemed so depressed when I met him," recalled Dr. Tavee. "He had so much pain and numbness in his legs, severe headaches and vertigo. He couldn't stand having light in his eyes. It was intense, and it kept getting worse over time."

Anyone would have trouble with Brown's symptoms. Since 2007, he'd been battling multisystem sarcoidosis, a rare disease that causes inflammation and tissue damage. In this case, the neurological complications, in particular, were a cause of constant discomfort. "I was unable to do anything when these symptoms were occurring, and they were occurring about 8-10 hours a day," Brown said. It was difficult for Brown to ascend a stairwell, much less play golf, something he'd enjoyed for years prior to the onset of his condition.

However, Dr. Tavee was able to intervene with a new regimen of treatments that put Brown back on track. Within six months of working with Dr. Tavee and her team at National Jewish Health, Brown began thriving, both at work, where he was able to maintain a leadership role, and at play, as he once again hit the links.

"Dr. Tavee is inspirational," said Brown. "She always leaves you with a positive attitude. And, you know, having seen her when I was at my worst and when I was at my best, she always treats you the same. She walked me through every step."

Now every time he greets Dr. Tavee for his appointments, Brown sports a signature red Tiger Woods polo shirt — a reminder of everything he's regained. His vibrant personality is back and in full swing.



Changing Gears and Adding Years

Something ignites in Rodney Cascio-Weldon when you ask about his car collection. He's been building things all his life — from homes to hot rods — and the passion has paid off. He thumbs through picture after picture of mint condition classics: a royal maroon Galaxy, a goldenrod 1972 Gran Torino. Before the year is out, he's finally going to resume work on a coveted '56 Bentley.

His next build is going to be special, no doubt. In January of 2022, when he arrived at National Jewish Health, Cascio-Weldon's normally hardy 6 foot, 6 inch frame was wheelchairbound. A few months after his symptoms began, he lost 80 pounds and could barely breathe.

"He couldn't even walk to the mailbox," said Dana, Rodney's wife of 27 years, sitting by his side in the infusion center. Since that first visit, she's learned that if they had waited much longer, her husband may have never recovered.

In September of 2021, Cascio-Weldon got sick with what seemed like just a cold. When his symptoms worsened, he visited his local doctor, who informed him that he was simply dealing with post-COVID syndrome, as he had been infected a few months earlier. However, this wasn't the case. "Come December, I just wasn't getting any better. In fact, I was getting worse. My skin was gray, literally gray," Cascio-Weldon said.

Left untreated, his condition deteriorated. After receiving a recommendation from a friend, he and his wife decided to travel over 100 miles north from their home in Pueblo, Colorado, to National Jewish Health.

Because of his previous diagnosis, he was initially treated at the post-COVID clinic. It was here, however, that the hospital's unique system of coordinated care kicked into gear. While in the clinic, nurse practitioner Katie Rosen, NP, noticed that Cascio-Weldon showed signs of interstitial lung disease (ILD). Rosen immediately advised that he see pulmonologist Matthew Koslow, MD.

"Katie's experience with the team here helped direct the patient with a disease that we see commonly," said Dr. Koslow, remembering her quick thinking. "That was the important first step."

Once the patient was brought into the care team, Dr. Koslow developed a more accurate diagnosis with a core group of specialists, including hospitalist and Chief Medical Officer Carrie Horn, MD; internist Amy Silverberg, MD; neurologist Jinny Tavee, MD; and rheumatologist Liudmila Kastsianok, MD.

Cascio-Weldon was placed on a precise treatment plan at once. According to Dr. Koslow, because National Jewish Health acts as a close-knit neighborhood of specialists, what could have taken six weeks to diagnose and treat was abbreviated to a few days of intense care. Cascio-Weldon, who came to National Jewish Health in a wheelchair, was able to walk within 48 hours.

"It was phenomenal," Cascio-Weldon said. "The way they took care of me, it was like family."

Cascio-Weldon improved even more over the following months. Sitting in the infusion center, he and his wife revealed plans to attend their first car show in over a year. Cascio-Weldon pulls up a picture of a hulking Ford F-600, a fitting entry to signal the return of his old strength. As Cascio-Weldon rises to his feet, he's beginning to feel like more than a match for the road ahead. And now he's ready for the right kind of wheels.



Breathtaking DISCOVERIES



Physician scientists and researchers at National Jewish Health make breathtaking discoveries through their focus on a wide variety of diseases and illnesses. They are looking at the long-term effects of COVID-19, how certain viruses can fight bacterial lung infections, why some genes make asthma worse and much, much more. Basic, translational and clinical research lead to life-changing treatments for patients around the world.

RESEARCH ACCOMPLISHMENTS

Basic, translational and clinical research that advances breathtaking discoveries and produces life-changing care has always been part of the DNA at National Jewish Health. The following highlights represent just a few of the many achievements of our ongoing research.

Skin Barrier Improved with Dupilumab

Donald Leung, MD, PhD; Mark Boguniewicz, MD; Evgeny Berdyshev, PhD; Elena Goleva, PhD; and other National Jewish Health colleagues and researchers around the world published findings in the journal *Allergy*. They showed that the drug dupilumab, the first biologic injection for atopic dermatitis, significantly improved the skin barrier function in patients with moderate-tosevere atopic dermatitis. Patients with atopic dermatitis have abnormal skin lipids (the skin's natural fats) that are largely driven by a hyperactive immune response. Skin lipids play an important role in maintaining the strength of the skin's protective barrier by holding moisture, protecting the skin from damage and keeping out impurities. In the study, patients who received dupilumab had significant improvements

in transepidermal water loss within about two weeks and in lipid composition within four weeks.



Researchers Fight Mycobacterial Lung Infection with Virus

For the first time, researchers have successfully used bacteriophages — viruses that kill bacteria to treat an antibiotic-resistant mycobacterial lung infection, clearing the way for a young National Jewish Health patient with cystic fibrosis to receive a life-saving lung transplant.

Cystic fibrosis is an inherited disease that causes a buildup of thick mucus in the lungs, leading to repeated bacterial infections that damage the lungs and respiratory failure.



"We had tried unsuccessfully for years to clear the patient's mycobacterial infection with a variety of antibiotics," said **Jerry Nick**, MD, lead author on the study and director of the Adult Cystic Fibrosis Program at National Jewish Health. "When we used the bacteria's own natural enemies, we were able to clear the infection, which resulted in a successful lung transplant."

The 25-year-old patient has now been able to discontinue all treatment for *Mycobacterium abscessus* and is able to live a normal life.

"This research can serve as a road map for future use of phages to treat patients with severe *Mycobacterium abscessus* lung infection and to save lives," said Dr. Nick.

Video Game Helps Lupus Patients' Cognitive Function

National Jewish Health researchers have shown that a video game that requires players to cope with complex and competing stimuli improves attention and executive function in patients with systemic lupus erythematosus.

Lupus, an autoimmune disease that attacks many organs and systems in the body, has both physical and cognitive symptoms.

Elizabeth Kozora, PhD, researcher and clinical neuropsychologist at National Jewish Health, led the evaluation of the video game known as AKL-T01, which has already been approved by the U.S. Food & Drug Administration to treat attention deficit hyperactivity disorder. The game is designed to train "interference management" through multitasking, attention to some stimuli while disregarding others and navigation through a constantly changing virtual landscape.



Lupus patients in the study demonstrated significant improvement in motor speed, attention and cognitive flexibility after playing the game for approximately 25 minutes per day at least five days per week for four weeks.

New Monoclonal Antibody Helps Fill Gap in Asthma Treatment

Monoclonal antibodies, immune system molecules engineered to attack specific molecules in the body, have been used for several new and successful treatments for allergic asthma. However, many people with moderate to severe asthma continue to suffer uncontrolled symptoms.

"We are always looking for new strategies for patients who don't respond to currently available therapies," said **Michael Wechsler**, MD, director of the National Jewish Health Cohen Family Institute.



Dr. Wechsler and his colleagues recently reported in the *New England Journal of Medicine* that a novel monoclonal antibody safely reduced asthma attacks and improved quality of life in patients with moderate to severe asthma. The novel monoclonal antibody, itepekimab, targets interleukin-33, a molecule that is further upstream in the inflammatory cascade.

"We have targeted a new pathway that may potentially interrupt the inflammatory cascade and improve care in asthma patients," explained Dr. Wechsler.

RECOGNITION AND RESEARCH ACCOMPLISHMENTS



ATS Welcomes New President

In May of 2022, National Jewish Health Executive Vice President of Academic Affairs & Provost Gregory Downey, MD, was named to serve as president of the American Thoracic Society (ATS).

Since Dr. Downey assumed the position, he has focused his efforts to raise awareness of the global burden of respiratory disease and improve patient outcomes through collaborations with partner respiratory societies, including the Federation of International Respiratory Societies and the World Health Organization.

"My goal is to develop plans with our sister respiratory societies around the world to address the root causes of respiratory diseases and thus improve respiratory health," said Dr. Downey.

ATS is the premier medical society for advancing respiratory health through multidisciplinary collaboration, education and advocacy. To date, the organization includes more than 16,000 physicians, research scientists and other health care professionals.

Vaping Exaggerates the Pro-Inflammatory Response in the Flu

Hong Wei Chu, MD; Irina Petrache, MD; Mari Numata-Nakamura, MD, PhD; Brian Day, PhD; and other research colleagues at National Jewish Health published the first evidence that exposure to e-vapor significantly impacts the human distal airway epithelial responses to influenza A virus infection. Findings published in the *Archives of Toxicology* show that short-term exposure of just three days was enough to effect the distal airways. Viral infections often affect these airways, exacerbating airway obstruction and

destruction in chronic obstructive pulmonary disease. These results can be used to design future long-term studies examining the prevalence or severity of respiratory viral infections for people who vape regularly.



Dr. Hong Wei Chu

New Tool Offers Cystic Fibrosis Screening for All

After meeting a man of color whose cystic fibrosis (CF) had gone undiagnosed for years because it was considered "a white person's disease," pulmonologist **Jennifer Taylor-Cousar**, MD, collaborated with the patient and created a CF screening tool to help more diverse patients.

Dr. Taylor-Cousar's efforts to address this issue resulted in the Wright Cystic Fibrosis Screening Tool[®], which assists medical providers and people of various backgrounds in recognizing and understanding CF symptoms. "The sooner we get the word out about this new tool the better — it could literally save, or change,

someone's life," said Dr. Taylor-Cousar. The tool has been shared with CF care teams by the Cystic Fibrosis Foundation and is currently available at noaacf.org.



Researchers Uncover How Some Asthma Genes Work

Many genomic studies identify genes associated with specific diseases. However, they seldom explain how these genes cause disease or where they work in the body. Researchers at National Jewish Health, led by **Max Seibold**, PhD, have combined cutting-edge genomic techniques with cell culture studies to demonstrate how two genes cause excessive mucus and type 2 inflammation, an allergic response that can exacerbate asthma.



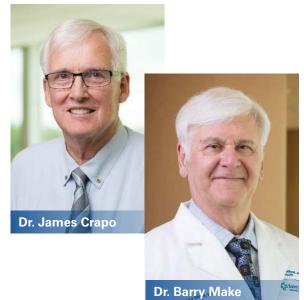
"Mucus plays a role in so many health conditions, everything from the common cold to COVID and chronic lung diseases, such as asthma and COPD," said Dr. Seibold, senior author on the study and director of the Regenerative Medicine and Genome Editing Program in the Center for Genes, Environment and Health.

National Jewish Health researchers discovered how variants of the gene MUC5AC increase production of mucus and mucus secretory cells in the airways. The researchers also found that variants of other genes associated with asthma increase production of several molecules in the type 2 inflammatory pathway.

"This work will help us identify targetable pathways to intervene for asthma and other lung diseases," said Dr. Seibold.

10-Year Lung Function Results from the COPDGene[®] Study

Barry Make, MD; James Crapo, MD; Elizabeth Redente, PhD; Matthew Strand, PhD; and colleagues across the nation examined the trajectory of lung function over time in people who smoke cigarettes and published findings in the *Annals of the American Thoracic Society*. Using data from the COPDGene® study, one of the largest studies ever to investigate underlying genetic factors of chronic obstructive pulmonary disease (COPD), the researchers determined that current cigarette smokers had a greater loss of lung function than former smokers.



This suggests that many former and current cigarette smokers, even those without a COPD diagnosis, are at risk for lung function decline, development of respiratory symptoms and loss of functional capacity that may have a significant impact on quality of life and amount of function.

STRONG ALLIES IN CARE AND RESEARCH

National Jewish Health continues to advance care and science across the nation through unique collaborations with medical and research partners both locally and nationally. One of the unique ways we have approached these collaborative relationships is through the formation of Respiratory Institutes, first with Mount Sinai in New York City and later with Jefferson Health in Philadelphia. Locally, our eight-year collaboration with Saint Joseph Hospital has grown to include a Respiratory Institute. Each of these programs extends the opportunity to enhance care through ongoing research.

RESPIRATORY INSTITUTES ADVANCE RESEARCH

"We've had tremendous success in expanding the services we offer, impacting more patients and identifying exciting new collaborative research opportunities through our Respiratory Institutes in the past year," said James Finigan, MD, director of the Respiratory Centers of Excellence at National Jewish Health.

The Mount Sinai – National Jewish Health Respiratory Institute® in New York City and the Jane and Leonard Korman Respiratory Institute Jefferson Health – National Jewish Health® in Philadelphia launched programs in bronchiectasis, adult cystic fibrosis and lung transplant health. The Respiratory Institutes have created the framework to encourage expanded collaboration for research and professional education. Both institutions are sending clinical fellows to National Jewish Health as a part of their training. Additionally, with National Jewish Health leadership, Jefferson Health is launching a respiratory therapy training program. The collaboration between National Jewish Health and Saint Joseph Hospital continues to foster results for patients throughout the Denver metro area and beyond. Highlights of the year include the introduction of an innovative program for lung cancer screening, diagnosis and treatment and the expansion of the cardiac critical care program.

Additionally, the Respiratory Institute[®] at **National Jewish Health | Saint Joseph Hospital** continues to grow and has introduced several new pulmonary and critical care clinical studies in the past year.

In April, SCL Health, the parent company of Saint Joseph Hospital, merged with Intermountain Health, a health system based in Salt Lake City. The relationship between National Jewish Health, Saint Joseph Hospital, and Intermountain Health continues to be strong, providing quality care and key services through the joint operating agreement.



ONGOING COLLABORATIONS EXTEND REACH

National Jewish Health and the **University** of Colorado School of Medicine, longtime affiliates, continue to collaborate in training the next generation of physicians and researchers. Medical students, residents and postdoctoral fellows work in both clinics and laboratories throughout the institution. The two organizations collaborate in many areas of both care and research.

Acutely sick patients in intensive care units (ICUs) at 25 **Banner Health** hospitals across the western United States benefit from the expertise of National Jewish Health intensivists via the Tele-ICU program. National Jewish Health intensivists monitor patients and provide guidance on their care from a telehealth location on the National Jewish Health campus.

National Jewish Health continues to work closely with the **University of Denver** and their COVID-19 management protocols. Physicians advise the university in areas of housing, testing, treatment and other areas of student life as the community emerges from the pandemic. In addition, the relationship is growing to include other types of research and education programs that combine the unique expertise and relationship that developed during the pandemic. "We have funded several research projects together and continue to find new and exciting ways to work together," said Dr. Finigan.

Our National Jewish Health for Kids also continues to provide diagnostic and treatment services for respiratory, allergic and immune system disorders through a collaborative relationship with Rocky Mountain Hospital for Children in Denver. This relationship has expanded resources for children and families throughout the area.

Serving Community Needs

Also growing out of needs identified over the past two years of the pandemic is our ongoing work with Little League World Series. Dr. Finigan serves as medical advisor for the program and helps the organization navigate through the challenges created by COVID during the annual summer tournament in Williamsport, Pennsylvania. "While we had a few COVID cases pop up this year, with our guidance and recommendations, the tournament has taken place without interruption," said Dr. Finigan.

FINANCIAL REPORT

Throughout the COVID-19 pandemic, National Jewish Health provided vital services, from much needed laboratory testing for multiple states to caring for thousands of the sickest patients in Intensive Care Units in multiple states. We led mass vaccination events, implemented dedicated respiratory care clinics for children and adults, and made extraordinary research efforts to understand this virus and test new treatments in clinical trials. These efforts are ongoing. As we have excellent vaccines, increased immunity and other treatments, the pandemic is less of a threat. However, we continue to provide pandemicrelated care through the clinical laboratories as well as through our Center for Post-COVID Care and Recovery and our new Immediate Care service on our main health campus. We are making best efforts to navigate the worldwide workforce and inflationary pressures left in the pandemic's aftermath.

Net patient service revenue increased in 2021 due to the high demand for COVID-19 testing. This demand waned in 2022 consistent with the decline in COVID-19 cases. Though demand for laboratory testing declined, patient demand for in-person outpatient care increased from pre-pandemic levels by over 6%. Hospitals across the country have faced unprecedented levels of staff shortages and supply chain constraints, which have negatively affected financial performance. While our joint venture partners remain strong, our revenue from joint ventures reflects these financial realities decreasing from a gain of \$1.6 million to a loss of \$1.5 million. Our faculty continue to experience success in their collaborative research efforts as reflected by grant revenues, which increased 4.4% year-over-year.

National Jewish Health experienced, like others, poor performance of the financial markets. Though the investment committee took steps to reduce investment risk, investment returns declined from a gain of \$28.3 million in 2021 to a loss of \$13.4 million in 2022. National Jewish Health tightly managed expenses throughout the year. As a result, total expenses only increased 1.5% in spite of unparalleled wage and supply inflation. We continue to be grateful to our loyal donors from across the country who contributed \$34.6 million to ensure our continued growth and success. The development team welcomed the return to in-person events and enjoyed inviting donors back to our campus.

The new Center for Outpatient Health (COH) opened on time and on budget in October. This new facility brings new vibrancy to the clinical programs and allows for future growth. In addition to the COH, we are investing in our campus and our programs through expansion of our Minimally Invasive Diagnostics Center, renovation of the Morgridge Academy, modernization of our Institute for Advanced Biomedical Imaging, implementation of a new electronic health record, recruitment of faculty and advanced practitioners and development of new clinical and research programs.

Looking to the future, we will continue to navigate the challenges created by global economic unpredictability, political uncertainty, disruptions in the financial markets and periodic COVID-19 surges. National Jewish Health has been nimble and creative in its response to difficult circumstances for over 123 years, and our faculty, staff, patients and community will emerge together from the current pandemic stronger and more resilient than ever before.

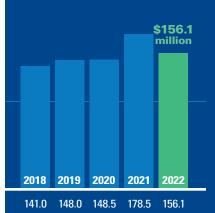
Larry Silverstein Treasurer

CONSOLIDATED STATEMENTS OF ACTIVITIES (IN MILLIONS)

Revenues, Gains and Other Support	2022	2021
Net Patient Service Revenue	\$156.1	\$178.5
Health Initiatives Revenue	13.2	13.5
Revenue From Joint Ventures	(1.5)	1.6
Grant Revenue	59.8	57.3
Contributions	34.6	36.3
Investment Returns	(13.4)	28.3
Other Income	84.5	79.3
Total Revenues	\$333.3	\$394.8
Expenses		
Academic Services	\$111.2	\$106.9
Clinical Services	158.6	162.8
Other Services	11.7	13.2
Admin, Fiscal and Support Services	56.2	51.1
Fund Development	8.4	7.1
Total Expenses	\$346.1	\$341.1
(Decrease) Increase in Net Assets	(\$12.8)	\$ 53.7
Net Assets Beginning of Year	\$292.8	\$239.1
Net Assets End of Year	\$280.0	\$292.8

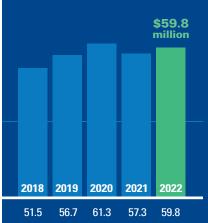
CONSOLIDATED STATEMENTS OF FINANCIAL POSITION (IN MILLIONS)

Assets		
Cash and Cash Equivalents	\$ 40.5	\$ 44.3
Accounts Receivable — net	70.8	70.1
Investments — at fair value	136.2	152.5
Other Assets	42.7	49.5
Property, Plant and Equipment — net	147.9	137.6
Total Assets	\$438.1	\$454.0
Net Assets and Liabilities		
Accounts Payable and Current Liabilities	\$ 60.0	\$ 53.6
Long-term Debt	15.3	19.3
Other Long-term Liabilities	82.8	88.3
Net Assets	280.0	292.8
Total Net Assets and Liabilities	\$438.1	\$454.0



Patient Service Revenue (Dollars in millions)

Demand for COVID-19 testing waned in 2022 while demand for in-person outpatient care increased 6%+ over pre-pandemic levels.



Grant Research Revenue (Dollars in millions)

National Jewish Health researchers continued to be successful in obtaining federal and foundation grant support, including two prestigious NIH 7-year R35 awards.



Net Assets and Liabilities (Dollars in millions)

Tightly managed expenses and outstanding donor support helped limit the effects of poor financial market performance.

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A New Generation Rediscovers the May Family Connection to National Jewish Health

Philanthropy is as much of the May family's brand as the iconic May Company that led the way in the retail and merchandising industry for more than a century. Traditions of generosity and community engagement trace back to David May I, a German-Jewish immigrant who helped to settle the town of Leadville, Colorado, in the 1870s, and later established the successful retail chain in Denver. A well-respected business, civic and philanthropic leader, he championed the cause of National Jewish Health and was one of its original incorporators in 1890.

Since then, the Mays have generously supported National Jewish Health. In addition to David May I, his sons helped to steward the hospital's success by serving in executive and board of directors leadership roles through the 1960s. Because of their dedication and years of support, one of the buildings on the hospital's main campus in Denver proudly bears the May family name.

While researching the family's history, Brian Rosenstein, 43, a California-born, fifth-generation descendent of David May I, gained a new appreciation for the enduring commitment that helped National Jewish Health become a beacon of hope to millions around the world. "I was astounded to learn the details of our family's significant connection to the hospital over decades," remarked Rosenstein, who wants to better understand the family's philanthropic past to help shape its future.

Rosenstein credits his mother, Anita May Rosenstein, for setting an extraordinary example by sharing her gifts, her voice and her leadership to improve the lives of others. This has inspired a new era of giving through the Wilbur May Foundation, a charitable organization established to honor his great uncle's legacy. Rosenstein serves on the family-led foundation's board, which also includes Wilbur's daughter, Dixie May, as an officer. Together, the family is expanding a long-established history of giving to National Jewish Health by focusing on the health, education and well-being of children — as Wilbur would have wanted.

Wilbur May was David May I's son, an entrepreneur in his own right, with a sense of adventure and passion for world travel. "Wilbur always cared greatly about children and supported numerous youth organizations of all kinds," explained Rosenstein.

Wilbur saw to it that National Jewish Health would receive an annual contribution from his estate to recognize the family's early roots in Colorado and with the hospital. As a new generation guides the May family's vision, the Wilbur May Foundation is bringing the connection full circle by making a significant and meaningful commitment to "whole child" care in the Pediatric Behavioral Health Program, and by investing in the futures of students at Morgridge Academy, the K-8 day school for chronically ill children, located on the hospital's main campus.

"For every generation in our family, giving back is a must, not a choice. It is part of our DNA," reflected Rosenstein on why the Wilbur May Foundation is connecting the family's tradition of generosity to the future of National Jewish Health.



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Robert and Anne Ivanhoe Fund for the Research and Care of Rheumatoid Arthritis and Immune-Related Diseases

2012 New York Real Estate & Construction Industries Dinner The Cathy and Gary Jacob Fund for the Research and Care of **Patients with Autoimmune Diseases**

2016 New York Real Estate & Construction Industries Dinner

Aron H. and Irma B. Jacobson Fund for Children with Asthma Irma B. Jacobson & A.J. Contracting Company, Inc.

Anthony M. & Lena M. Javancie Trust for Asthma and **Emphysema Research**

Samuel & Alma Kates Emphysema Research Fund

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Herman F. Kerner Immunology Research Fund Herman F. Kerner

Boris & Jacqueline Kliot Fund for Pediatric Pulmonary Research

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The John R. and Karen K. Klopp Fund for Childhood Asthma and Environmental Research

2005 New York Real Estate & Construction Industries Dinner

The Doris M. Knauff Memorial Fund for ILD Research Mr. J. William Knauff III

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The Lana Cain Krauter and Philip J. Krauter Fund for Basic and Cancer Research

2001 New York Retail & Fashion Industries Dinner

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2004 New York Real Estate & Construction Industries Dinner Lapporte Crystallography Imaging Center

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Evelyn and Leonard Lauder Fund

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Joshua Lehman Asthma Research Fund Ilona V. Katonah, Family & Friends

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The Joanne Siegel Memorial Fund for the Advancement of Pediatric Care

Lila Siegel, Family & Friends, & Dana Bischoff Noonan

The Stephen B. & Wendy Siegel Fund for Pediatric Asthma & Allergy Research

1992 New York Real Estate & Construction Industries Dinner The Wendy Siegel Fund for Leukemia and Cancer Research

2013 New York Real Estate & Construction Industries Dinner

Ilse Silten Memorial Fund for Research in Immunology R. G. Silten

The Klara and Larry Silverstein Fund for Pediatric Asthma and Allergy Research and Treatment

2013 New York Real Estate & Construction Industries Dinner

Amy Simkowitz-Rogers Fund

Sara Simkowitz, Thomas Rogers, & Lucy & Isidore Simkowitz

The Roselyn Simon Memorial Fund for Asthmatic Children

Brian Simon, Randy Simon, Robert Simon, MD, Gary Steiner & Rabbi Baruch Cohon

Samuel W. Spain Endowment for Excellence in Graduate Education

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1981 New York Real Estate & Construction Industries Dinner

Leonard and Shirley Sterling Research Fund

Leonard & Shirley Sterling

Michael & Eleanore Stobin Laboratory for Pediatric Research Eleanore & Michael Stobin

Burton M. & Rita Tansky Fund for Research on the Influences of Viruses on the Immune System

1988 New York Retail & Fashion Industries Dinner

The Owen D. and Jennifer B. Thomas Research Fund for Immunology

2000 New York Real Estate & Construction Industries Dinner

Tinkel-Wolfson Research Fund in Basic Immunology Dr. & Mrs. Alexander Tinkel

The Ralph Tornberg Endowed Asthma Research Fund Barbara Tornberg, Family & Friends

The Ronald Townsend Fund for Morgridge Academy Ronald Townsend

Marsha & Kenneth L. Tucker Library Fund Marsha & Kenneth L. Tucker

The Hal J. and Shari Upbin Fund for Immunology Research 2001 Retail & Fashion Industries Dinner

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The Mark A. and Lisa J. Walsh Fund for Immunology and Allergy Research

2001 New York Real Estate & Construction Industries Dinner

Gilbert and Sara Sacks Wegad Memorial Endowment Fund for Respiratory Research

Mary Nan West Memorial Fund

2001 San Antonio Dinner

Thomas D. Welch Memorial Fund for Antioxidant Research in Lung and Immune Diseases

1997 New York Real Estate & Construction Industries Dinner

Samuel L. Westerman Immunology Research Fund Trustees of the Samuel L. Westerman Fund

Medora White Research Fund Family & Friends in Dallas, Texas

The Helen Wohlberg & Herman Lambert Laboratory for Pharmacokinetics Research Helen Lambert

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RESEARCH AND EDUCATIONAL SUPPORT

The following corporations, foundations, organizations and individuals provided research grants, contract and educational support for a variety of investigators and laboratories at National Jewish Health.

2040 Partners for Health 4D Molecular Therapeutics Abbott Labs Inc. Actelion Pharmaceuticals US Actelion Clinical Research, Inc. **ADC** Therapeutics Aeolus Sciences Inc. Aeris Afferent Pharmaceutical, Inc. Aimmune Therapeutics, Inc. Alamosa County Public Health Department Alex's Lemonade Stand Foundation Allinaire Therapeutics, LLC Alpha One Foundation, Inc. AlphaNet, Inc. American Academy of Allergy Asthma Immunology American Heart Association American Lung Association American Physio American Thoracic Society AN2 Therapeutics, Inc. Anacor Pharmaceuticals, Inc. Anthera Pharmaceuticals, Inc. Arena Pharmaceuticals, Inc. Argenx BVBA Aridis Pharmaceuticals, Inc. Arizona State University Astellas Scientific and Medical Affairs, AstraZeneca Pharmaceuticals LP at YR Pharma, Inc. Pharma, Inc. Augusta University **Baver Corporation Bayer HealthCare** Pharmaceuticals, Inc. Bellerophon Pulse Technologies, LLC Benaroya Research Institute at VA Máson Biodesix, Inc. bioMerieux, Inc. BioResponse BioSuperior Technology, Inc. Body Vision Medical, LTD **Boehringer Ingelheim** Pharmaceuticals Inc. **Boettcher Foundation** Bond Avillion 2 Development, LP **Borstein Family Foundation** Boston Children's Hospital **Boston Scientific Corporation** Brigham & Women's Hospital **Bristol-Myers Squibb Company**

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NATIONAL JEWISH HEALTH EVENTS

Innovation is a central aspect of care and research at National Jewish Health. At the height of the pandemic and since then, our Development team found creative ways to engage with our supporters virtually and to safely re-engage in person. We presented exceptional events that raised funds and awareness of our scientific breakthroughs and how we deliver the best in care. Many thanks to all who participated in our events and gave generously to support our continuous efforts. Your dedication over the past year helped us return strong and raise millions of dollars to benefit the thousands of people we serve locally, across the country and around the globe.

Dialogue with a Doc

Dialogue with a Doc is a series of conversations with our physician-scientists about their work, supported by our donors; and how it helps people in communities near and far. Started in Florida in 2017, this popular series went worldwide on Zoom[®] in 2020. The series gives our patients, donors and friends a trusted and valuable source of information on lung, heart, immune and related conditions. Visit njhealth.org/DocSeries to view archived dialogues.



CALIFORNIA

Los Angeles Black & White Ball Honorees Kiyoun Kim, Israel Discount Bank

Michael A. Hoyal, The ActOne Group

Honoree Co-Chairs Moti Levy, Israel Discount Bank Michael Rosenthal, Baronthal Ventures

Dinner Co-Chairs Gail K. Bernstein, Former Honoree Sydnee Breuer, Rosenthal & Rosenthal of California Robert Ezra, Freeman, Freeman & Smiley LLP Ronald S. Friedman, Marcum LLP William Mark Levinson, Carlton Fields LLP Debbie Steinberg, Former Honoree

Los Angeles Real Estate and Financial Services Breath of Life Golf Classic

Chairs Anthony Behrstock, Commonwealth Land Title David Sonnenblick, Sonnenblick-Eichner Company

COLORADO

Aspen Bella Sera Presented by Nancy & Richard Rogers

Honoring Denise & Warren Cohen Jan & John Sarpa

Celebrity Night & Day Golf Classic

Chairs Vic Lombardi Marc Steron

Hoops & Hoopla

Coaches Craig Gallogly, CED Bill Gregor, Mortenson Construction Gunnar Jacobs, Monigle Richard Kalisek, Swimlane Jerry Laflen, BKD, LLP Jeff Lindsay, Mortenson Construction Tom Tarver, Greiner Electric Kris Wintroub, Greiner Electric

5280 AIR Society

Chairs Margery & Mike Gavin Kelsey & Brad Morse

Rev the Runway

Chairs Debbie Feiner Jordan Feiner Lisa Walko

Honorary Chair Cindy Farber

Serve It Up! Doubls Tennis Tournament

Presented by Y Moskovich & Co., Fine Jewelry Rachel & Yuval Moskovich Co-Chairs Sue Allon Rebecca Gart Yuval Moskovich

FLORIDA

The New Directions Luncheon Speaker Michelle Bernstein

Acclaimed Chef, Author and Restaurateur

Honorary Chairs Three Generations of The Sandler Family Ladies Phyllis Sandler Amy Ross Robin Rubin Andrea Schnurmacher Ali Benmen Brittany Kohn

GEORGIA

Atlanta Golf Outing Hosts Bernie Marcus Bob Paller

NEW YORK

Breath of Life New York Golf Tournament

Chair Emeritus Samuel B. Lewis, SBL Property Consultants, LLC

Honorary Chairs Robert E. Helpern, Tannenbaum Helpern Syracuse & Hirschtritt LLP Stephen B. Siegel, CBRE, Inc.

Founders Nancy & James Berry Hill Marjorie & Stephen Raphael

Financial Industries Dinner

Honoree Janet Jarrett, Truist Securities

Dinner Co-Chairs Amy Barrentine, Truist Financial Darryl Kuriger, Truist Securities

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New York AIR Society The Sky's the Limit Benefit Honoring Whitney Arcaro, RXR Realty Chair

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WASHINGTON, D.C.

Capital Area Breath of Life Golf Classic

Tournament Co-Chairs Ron Bubes, Scheffres Laundry Service Michael Scheffres, Scheffres Laundry Service

Honorary Co-Chairs Solvin W. Gordon, Gordon Insurance Robert M. Keats Dale D. Schuble, Schuble Family Foundation





BEAUX ARTS BALL

On February 26, 2022, the 25th Anniversary of the Beaux Arts Ball, presented by the Morgridge Family Foundation, returned as an in-person event and raised more than \$2 million to support National Jewish Health. With a theme of "Moulin Rouge," guests enjoyed an extravagant vintage French cabaret setting throughout the ballroom. The event honored Grand Marshals Robin and Senator John Hickenlooper; Karen and John Ikard; Terry and Vic Lombardi; Michele and Richard Right; and Maja and Mark Rosenquist for their long-time commitment to philanthropy and service to the community.

During the evening's program, guests learned about the challenges facing the many patients who are suffering debilitating symptoms of long COVID that can greatly impair stamina and cognitive function. The "Fund-A-Need" portion of the event focused on The Center for Post-COVID Care and Recovery at National Jewish Health, which employs a multidisciplinary approach to treat the "whole person" and help children and adults restore their health and enjoy life again. Many patients with ongoing COVID symptoms are benefiting from personalized care while we continue to make discoveries on causes and treatments for this condition.

Co-Chairs

Anne & Rich Baer Rosalina & Richard Diecidue Lindsey & Stanton Dodge David Engleberg Edward & Lisa Hansen Abby Goldsmith & R. D. Sewald

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A WINTER'S EVENING

The 53rd Annual National Jewish Health 'A Winter's Evening' black-tie gala was held December 11, 2021, and raised \$1.8 million for The Danielle and Ben Brown Family Fund for Pediatric Respiratory Care and Research. The winter wonderland themed event was held at The Glasshouse in New York City and honored Ben Brown, Managing Partner and head of the U.S. Office of Brookfield Properties, Inc., with the National Jewish Health Humanitarian Award.

Honorary Chair

Larry A. Silverstein, Silverstein Properties, Inc.

Event Chairs

Marty Burger, Silverstein Properties, Inc. Ric Clark, WatermanClark Jonathan L. Mechanic, Fried, Frank, Harris, Shriver & Jacobson, LLP Stephen B. Siegel, CBRE

Executive Chair Wendy M. Siegel

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The Chairman's Award for Special Achievement is presented by the chair of the Board of Directors to recognize those who have made exceptional contributions to National Jewish Health.

2022

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Murray D. Fischer 2013

Anne & Norman K. Jacobson Neva & Marvin I. Moskowitz

2011

Boettcher Foundation Adolph Coors Foundation Kenneth L. Tucker

2010

Molly Blank H. A. & Mary K. Chapman Charitable Foundation Mrs. Frances B. Cohen Brian Greenspun

2008

Edelstein Family Foundation Mrs. Edith S. McAllister Milton Schneiderman

2006

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2005

Amy M. Murnick, Jay M. Murnick & Lee S. Murnick (New York AIR Society) Myra Schaps Van Pelt Foundation

2004

Grand Aerie Order of Eagles C.L.C. Kramer Foundation Armstrong McDonald Foundation Abraham & Sonia Rochlin Foundation

2003

Carol Aaron Philip Leitman Lucille Raphael Dale & Joseph Schuble Ralph Tornberg

2002

Daniel Freed Irma Jacobson Jeffrev H. Kapor Samuel Lewis **Robert Paller** Lila Siegel David Sonnenblick

2001

Joan & Stanford Alexander Herbert L. Ash, Esq. Bruce H. Corbin John Knott Ambrose Monell Foundation Vickie & Trygve E. Myhren

2000

Evelvn Best Paul R. Charron Sherman McCorkle Howard Michnick Milton Morris

1999

Carole & Albert Angel Marianne Cohn Roger Gibson David Liniger Samuel J. Rosenfeld Melba Steed

1998

Maurice Austin William Gold II Mike O'Callaghan Ron Ruskin Allan Zidell

1997

Joseph J. Carroll Walter F. Imhoff Donald W. Hoagland Wendy Siegel William D. White Jr.

1996

Leonard Boxer Larry Buchanan Kenneth Chirba **Cary Marmis** Henry Zarrow Jack Zarrow

1995

Joseph Berenbaum, Esg. Sunva Kronstadt Michele S. Marvins New York AIR Society

1994

Robert L. Mettler Carol D. Nichols **Randy Rutherford**

PRESIDENT'S AWARD

The President's Award, presented by the president of the institution, pays tribute to business and philanthropic leaders whose support goes far beyond the usual to promote the mission and vision of National Jewish Health.

2022

John W. Kappler, PhD

2019 Richard J. Martin, MD

2018 Robert E. Helpern

2017 Erwin W. Gelfand, MD

2014

William Gold II Philip H. Karsh Edward A. Robinson

2013

The Hearst Foundations Dr. Antonio J. L. Simoes

2011

Roger A. Silverstein Allan Zidell

2010 Rich Baer

Natalie Zucker 2009

Diane & Charles Gallagher

Family Foundation

2008

Monfort Family Foundation

2005

Mvra Levv Sherman McCorkle Drs. Harold & Mary Zirin

2003

Thomas M. Flexner James D. Kuhn Milton Morris

Wendy Siegel 2002

Molly Blank

2001

Seryl & Charles Kushner

2000 Louise & Richard Alderson

1999

The Honorable Ben Nighthorse Campbell, **U.S. Senator**

1998

Norman Brownstein

1996 Alan Landsburg

LORBER AWARD

The Arthur B. Lorber Award for Distinguished Services is the highest award given at National Jewish Health. It is named in memory of Arthur Lorber, who led the transformation of the Denver Sheltering Home from an orphanage to the premier treatment center for respiratory diseases in the country. Recipients show leadership in an area that has impacted our reputation, service, science or mission.

2017

Carrie & John Morgridge

2012 The Honorable Daniel K. Inouye, U.S. Senator

2010 Michael & Iris Smith

2008 Norman Brownstein, Esq.

Wendy Siegel

2004

Herbert L. Ash

2002

The Fund to Cure Asthma Nancy & James Berry Hill Marjorie & Stephen Raphael 2001 Albert D. Angel

2000 Sunya P. Kronstadt

1999 Robert L. Mettler

1997 Carol D. Nichols

1996 Peter M. Henson

1995

Burton M. Tansky 1994

Larry A. Silverstein

1993 Leonard M. Perlmutter

1991

J. Peter Grace

1990 Philippa Marrack, PhD, & John Kappler, PhD

1989 Conrad D. Stephenson

1988

Cecil Green & Howard V. Rickenberg, PhD

1987 Richard S. Farr, MD 1986 Robert L. Silber & David S. Touff

1985 Arthur Robinson, MD

1984 Dollie & Jack Galter

1983 Richard N. Bluestein

1982 Andrew Goodman

LEGACY OF HOPE

The Legacy of Hope is a society established to recognize all those supporters who have included National Jewish Health in their estate and financial plans, including a will, charitable gift annuity, trust or insurance policy. These gifts will live on for generations helping to ensure that National Jewish Health will continue its mission. The following names are new Legacy of Hope members who added National Jewish Health to their estate plans July 1, 2021, to June 30, 2022.

ARIZONA

Miriam C. Ailloni-Charas Julius Altman Susan and Michael Barrena Jack C. Busler Dr. Leslie & Mrs. Hazel Davis Elaine Germont-Gavette Susan S. Green Raymond F. Ptak II Diane G. Reynolds Rona S. Rosenberg Gail & Daniel Tenn Sondra C. Weiss

CALIFORNIA

John and Helga R. Carden Barbara Gallagher Roger A. Gibson Norm Lewis Jill & Bertram Shure Sanford Zisman and Janis E. Frame

COLORADO

Anonymous (4) James H. Brewster III and Janie E. Brewster Darryl and Jerry Hammons Robert L Jones & Dixie L. Savio-Jones Martha L. Malson Richard J. Martin, MD & Helene I. Martin Sharon A. Seeman Martin & Jo Ann Semple

CONNECTICUT

Avrom Kopleman

FLORIDA Emilia Selinger

ILLINOIS Anonymous

Amory Cummings Elisabeth W. Szegho

MARYLAND

In Memory of Martin Norwitz by Mary Norwitz and Evelyn Norwitz

MASSACHUSETTS Anonymous

MICHIGAN

Laurie J. Champion Ina C. Cohen William M. Kerr Catherine Manigold Kevin & Michelle Vogler

MINNESOTA

Robert. D. Andring Buron Family Glenn Corliss Alan Linoff Kate K. Piper

NEVADA

David Salo and Nancy Crenna

NEW HAMPSHIRE Anonymous Laurie L. Chandler Revocable Trust

NEW JERSEY

Ethel A. Abrams Alison P. Block Phyllis M. Freed Melanie Simon

NEW MEXICO

Anonymous Victoria Holmes Eric J. Hoover and Deborah Gaynor

NEW YORK

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Philip & Shelley F. Engler

OKLAHOMA

Marcel Binstock Mrs. Cecilia M. Massey

PENNSYLVANIA

David Gerstman Lewis J. Hoch and Family Debra C. Kalodner Elizabeth D. Kalodner

VIRGINIA

Joel D. Aron Anne L. McCracken Thomas Andrew Sachs Harriette Moskowitz Kingoff Will

WISCONSIN

William E. & Kathleen J. Appel Michael & Katherine Place

BEQUESTS

Those who remember National Jewish Health in their estate plans leave a lasting legacy in support of our programs. During fiscal year 2022, the friends listed below remembered National Jewish Health with bequests that will further our mission.

ARIZONA

Sol J. Cohen

ARKANSAS

David J. Lawless Alvin S. Tilles

CALIFORNIA

Barbara Amberson Robert B. Easton Herman H. Flum Astrea Garnet Gorin James E. Grindlinger Marvin D. Kahn Hertha Sandra Leshner Bertha J. Nebenzahl Harry W. Ofshay Paulina S. Pollak Ida Rosenman Sands Barry R. Silverman Hannelore Spielman Maisie A. Tierk

COLORADO

Anonymous Ida Marlene Beam Lillian Bloom Mildred R. Busch Arthur B. Hayutin Mark M. King Robert E. Lepic Minnie B. Lindsey Terrie L. McAlarney Clara C. Perini Family Trust Richard Silberstein Elsie Stein

FLORIDA

Ruth Albert William M. & Gloria S. Anderson Theodore I. Bieber

Ilene J. Gellerman Jules Jacobsen Elaine R. Kronberg Myra Priskie Sue Shields Rosenberg Fund of Gulf Coast Community Foundation Flora R. Walter Wolfgang Wassermann

ILLINOIS

Susan C. Coppock Harold Heyward

KANSAS

Dixie K. Childs-Smith

MARYLAND

Isador & Bessie Turover Philanthropic Fund of the Jewish Federation of Greater Washington

MICHIGAN

Antonio Forcellini Marvin I. Wolf

MISSOURI

Robert B. Kahn

NEVADA

David Eddingsw Bernard Greenblatt

NEW HAMPSHIRE Godfrey Klein

NEW JERSEY

Ethel and Alex Kargman Endowment Fund of the Jewish Community Foundation of the Jewish Federation in the Heart of New Jersey

Leo Katzenstein

Larry Stock

NEW MEXICO Ronald J. Manzi Rosina Patterson

NEW YORK

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OHIO

Norman Cohen Lina Weintraub Memorial Fund of the Jewish Federation of Cleveland

OKLAHOMA

Raymond & Miriam Freedman Blanche C. Kelly

PENNSYLVANIA

Mildred Gottfried Muriel G. Lewis Fernal R. Marlier

SOUTH CAROLINA

Gisela W. Dales Anna Lurey

SOUTH DAKOTA

Ken & Lois Borecky Designated Fund of the South Dakota Community Foundation

Ken & Lois Borecky Fund-Nationa Jewish Center for Immunology of the South Dakota Community Foundation

TEXAS

James R. Alexander

Rosalie C. Alexander

Carolyn F. Hyman Fund at East Texas Communities Foundation

Florence Seaman

WASHINGTON

Paul Weiner

WEST VIRGINIA

Meyer Bell

HONOR ROLL OF PHILANTHROPY

Lifetime Achievement Societies

The Frances Wisebart Jacobs Founder's Society, the Chairman's Society and the President's Society pay tribute to the lifetime giving of individuals, foundations and corporations whose steadfast support serves as inspiration to others and whose dedication has helped make National Jewish Health a world-renowned institution.

Frances Wisebart Jacobs Founder's Society \$10,000,000+

Anonymous (CO) Estate of David & Leigh Eddings Morgridge Family Foundation Iris & Michael Smith

The Chairman's Society \$5,000,000 - \$9,999,999

Anonymous* (MI) The Molly Blank Fund of The Arthur M. Blank Family Foundation Michele & Martin Cohen Feiner Family Partnership/Feiner Family Foundation/Mr. & Mrs. Michael A. Feiner Estate of Milton Morris Ambrose Monell Foundation Klara & Larry Silverstein/Silverstein Family Trust Sturm Family Foundation Tuchman Family Foundation

President's Society \$1,000,000 - \$4,999,999

Anonymous (CA) Anonymous (3) (CO) Anonymous* (FL) Anonymous (TX) Marshall & Helene Abrahams and Family Estate of Joe J. Ballard Sally Lease Bartalot Estate of Ida Marlene Beam Estate of Madeline and Girard J. Beno Estate of Evelyn Best Molly Blank* Estate of Anna Marie A. Blum Antoinette E. & Herman Boehm Foundation **Boettcher Foundation** Garthe Brown and Grace L. Brown Fund II of The Oregon Community Foundation Mr. & Mrs. Norman Brownstein Estate of Barbara Ann Carroll Johnny Carson Foundation The Mary K. Chapman Foundations Children's Miracle Network Frances B. Cohen* Adolph Coors Foundation Estate of Hazel M. Crismon **Daniels Fund**

The Denver Post Season To Share Estate of Dr. Larry A. Dornburg Estate of Esther B. Dunlap **Edelstein Family Foundation** Mr. & Mrs. Irwin P. Edlavitch Estate of Beatrice M. & Miguel G. Elias ExxonMobil Foundation Estate of Rose Galin/Estate of Michael E. Felsher Trust #2 Estate of Oscar H. Friedman Estate of Joseph H. Fuchs Estate of Esther Galinsky **Diane and Charles Gallagher Family Foundation** Mr. & Mrs. Jack Galter*/ **Galter Foundation** Thomas W. Gamel* Estate of Virginia L. Garrison Estate of Grace A. George Alexander Sr. and Willie Mae Goldstein Family Foundation Inc. Nena & Andrew Goodman* Grand Aerie, Fraternal Order of Eagles/Max Baer Heart Fund Barbara Greenspun*/Brian **Greenspun/ Greenspun Family** Foundation Estate of Charles P. Gresham The Frederic C. Hamilton **Family Foundation** Estate of Mildred S. Hansen The Hearst Foundations Albert & Ethel Herzstein **Charitable Foundation** Estate of Lewis Humphreys The Ivanhoe Charitable Foundation, Inc. Anne & Norman K. Jacobson Estate of Irma B. Jacobson Kaiser Permanente Colorado Estate of Rose I. Kalman Leah Kayem* William É. Keller* Estate of Veola S. Kerr Mr. & Mrs. Lewis M. Kling Estate of John J. Kohberger C.L.C. Kramer Foundation Charles and Seryl Kushner Family Foundation Estate of Burton H. Ladensohn Estate of Helen Lambert Estate of Mary Levy Estate of Grace M. Lieberthal Estate of Dorothy J. Lord

The Marcus Foundation, Inc. Estate of Rudolf E.S. Mathias Armstrong McDonald Foundation Estate of Šelma Merkin Estate of Beatrice Mersereau **Monfort Family Foundation** Estate of Norma W. Moon Mr. & Mrs. Marvin I. Moskowitz/ The Moskowitz Family Foundation Theodore Z"L & Maxine B. Murnick and Family National Mah Jongg League, Inc. Mr. & Mrs. Lee S. Neibart Padosi Foundation Mr. & Mrs. Lewis C. Pell Estate of Rose B. Posner Marjorie & Stephen E. Raphael Estate of Judy W. Renick Kristin & Blair E. Richardson Veda H. Ritter* Mr. & Mrs. Edward A. Robinson Heidi Rochlin/Abraham & Sonia **Rochlin Foundation** Estate of George W. Rose Dr. Jonathan D. Rose Estate of David M. Rosenbaum Mr. & Mrs. William E. Rosenthal Estate of Lizzi Rothenstreich David Salo Salon National La Boutique Des Huit Chapeaux et Quarante Femmes Leah R. & Alfred E. Schaefer **Charitable Foundation** Louise B. Scheril* The Schramm Foundation Sheryl & Barry K. Schwartz Dr. Antonio J. L. Simoes The Stead Foundation Estate of Lena Strauss Robert B. Sturm Sunshine Chapter United Refrigeration, Inc. Maxine A. & Don E. Vestal* Wal-Mart Stores, Inc. Estate of George Witsma Jr. Rubin and Gladys Wollowick **Family Foundation** Estate of William Woolner Mary F. Zirin, PhD* **Zucker Family Trust** Meghan & Evan Zucker

HONOR ROLL OF PHILANTHROPY

Multiyear Commitments

This group of donors demonstrated loyalty and support for our visionary projects by committing to multiyear pledges in 2022, allowing National Jewish Health to fulfill its mission to care, to discover and to educate.

\$5,000,000 Sturm Family Foundation (CO)

\$2,000,000 Robert B. Sturm (CO)

\$1,000,000 Morgridge Family Foundation (CO)

\$100,000 - \$499,999

Borstein Family Foundation (CA) Roger A. Gibson (CA) Mr. & Mrs. Richard A. Massman (TX)

\$25,000 - \$49,999

Mr. & Mrs. Ira G. Asherman (NY) Janice G. Jiler (FL)

HONOR ROLL OF PHILANTHROPY

Annual Giving Circles

National Jewish Health is grateful for the generous contributions from individuals, corporations and foundations across the country and around the world. The following is a list of those who made gifts of \$500 or more in fiscal year 2022.

\$1,000,000 or more

The Molly Blank Fund of The Arthur M. Blank Family Foundation (GA) Feiner Family Partnership/Feiner Family Foundation/Mr. & Mrs. Michael A. Feiner (CO) Morgridge Family Foundation (CO) Dr. Jonathan D. Rose (MI) Sturm Family Foundation (CO) Robert B. Sturm (CO)

\$500,000 - \$999,999

Anonymous (CA) Wilbur May Foundation (CA) Mary F. Zirin, PhD* (CA)

\$100,000 - \$499,999

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\$50,000 - \$99,999

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\$15,000 - \$24,999

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\$10,000 - \$14,999

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