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*ON THE COVER* Heart transplant recipient Mike Moul was able to realize his passion for sailing as a result of the care that he received at CPMC.
Celebrating 50 Years of Advanced Organ Care

Letter from the President

Dear Friend,

CPMC performed its first transplant operation in 1969. That procedure—a kidney transplant—set off a wave of groundbreaking work on behalf of patients that continues today. As our community celebrates the 50th anniversary of transplant care at CPMC this fall, we devote this issue of Your City, Your Hospital to the medical center’s remarkable work in advanced organ therapies like transplantation and to the people—physicians, patients, and philanthropists—who make it possible.

During this past half century, CPMC care teams have performed more than 9,000 organ transplants, including more than 6,200 kidney transplants; 2,000 liver transplants; 400 pancreas transplants; and 500 heart transplants. Along the way, these specialized efforts to treat specific organs or organ systems have expanded to encompass an incredible array of sophisticated therapies.

Innovation and research are at the heart of CPMC’s Department of Advanced Organ Therapies and Transplant. It has been the home to pioneers, such as the physicians who played important roles in developing methods for preserving organs and establishing organ donation and distribution processes. CPMC was the first private institution to have a heart transplant program in the U.S. And today, our teams continue to perform vital research, create innovative new treatments, and redefine how we care for patients. CPMC is home to highly specialized surgical procedures and therapies—from treatments for rare diseases to personalized cancer care to complex interventional endoscopy, which uses tools and techniques (some developed here) that can circumvent the need for traditional surgery. All of this crucial work builds on the past 50 years of achievement to keep the Department of Advanced Organ Therapies and Transplant on the frontier of patient care for the next 50 years.

These strengths are elevated by the addition of our two new smart hospitals, the Mission Bernal Campus and the Van Ness Campus. At the Van Ness Campus, custom-designed transplant operating rooms enable physicians to collaborate effectively during simultaneous operations. The new campus integrates a variety of resources so patients can easily visit their primary care physicians, get lab work, consult with a specialist, or be admitted for a procedure.

The result is that even as CPMC offers a wide range of advanced therapies, each patient can continue to be confident in receiving personalized, compassionate, whole-person care.

We hope you enjoy this special issue of Your City, Your Hospital, and that you join us in celebrating this amazing milestone and all the changed lives it represents.

Warmest regards,

Karen Jeu
President, CPMC Foundation
ABOVE Robert W. Osorio, M.D., FACS, chair of CPMC’s Department of Advanced Organ Therapies and Transplant, checks the sports page in his West Portal neighborhood with his dog Kima after performing a liver transplant the night before.

Donation Drives This Care

CPMC’s Department of Advanced Organ Therapies and Transplant has a vast reach, helping people throughout Northern California, from the Oregon border to San Luis Obispo. Its physicians see patients during almost 30,000 visits each year across this territory, ultimately performing about 800 surgical procedures, including around 300 transplants.

Department chair Robert W. Osorio, M.D., credits the generosity of our community for making much of this work possible.

“We wouldn’t be here to help care for all these patients if not for philanthropy, which has been a true partner along the way,” he says.

Osorio can quickly reel off a variety of ways this has been the case:

• Visionary philanthropists helped lay the foundation for the modern department such as by investing in technology like electronic health records, which they adopted years before the rest of the medical field.

• The highly complex care associated with the department means medical teams need to remain at the forefront of the latest technologies, but sometimes a beneficial new instrument can be a challenge to justify on a cost basis—that’s one area where philanthropy steps in.

• A doctor may have a creative new idea for a research project that could help our patients, and a donor can be what Osorio calls the “philanthropic angel investor” who provides the seed money to get that project off the ground.

Osorio says even the most modest amount of money can make a difference. “If a patient has trouble paying for gas to drive into San Francisco for treatment, we can send them a gas card thanks to our patient assistance funds,” he says. “It might be a small amount of money, but otherwise that patient couldn’t come here for the care they need, which makes it a huge gift.”

“Our doctors believe in the power of philanthropy so much that they are donors to CPMC themselves,” adds Osorio. “It’s fundamental to our work. Transplant medicine relies on people willing to make a precious donation—their organs—to help others. In more than one way, this department is all about giving.”
Philanthropic investments empower CPMC Advanced Organ Therapies and Transplant physicians and their teams to accomplish extraordinary things they otherwise would not be able to do.

In service to patients, philanthropy can:

- Innovate New Care Models
- Recruit and Retain Experts
- Inspire Intelligent Research
- Empower Patient Navigation
- Elevate Medical Education
- Enable Support Services
- Acquire New Technology

From treatment to transplant, CPMC’s experts can focus on individual organs or larger systems. For some patients, that can mean turning to us for multiple-organ procedures like kidney-pancreas, heart-kidney, or liver-kidney transplants.
Software That Saves Lives

A kidney transplant can be truly life-saving, and among kidney transplants, the best option is to receive an organ from a living donor. But sometimes the person who volunteers to donate isn’t an ideal match, based on blood type or immunological differences, for the kidney patient they want to help.

But a sophisticated process called kidney pair matching keeps the potential for transplant alive. This technique finds the best biological match possible from among different pairs of incompatible patients and donors. So if Donor A is incompatible with Patient A and Donor B is incompatible with Patient B, maybe Donor A is compatible with Patient B and vice versa. When it works out, they can arrange to swap kidneys between the pairs so that both patients can still receive a transplant.

Several years ago, Steven Katznelson, M.D., medical director of the CPMC Kidney Transplant Program, began to talk with a tech-savvy patient who had received a kidney transplant at CPMC about how to increase these matches. Identifying a match was a laborious process and there wasn’t a software solution readily available. "We used to paste up Excel spreadsheets across the office and try to match them by hand," says Katznelson, "but it gets incredibly complex, with about 40 different pieces of information for each patient."

At the time, there weren’t many companies or agencies looking to fund something like this, so Katznelson says it would have taken them months or even years to raise money for the effort. But with philanthropic funding from CPMC Foundation, they hired the engineering expertise they needed to get this project off the ground.

"The first time we ran the program," recalls Katznelsen, "it came up with a four-way swap that included one person with intricate immunology who was extremely hard to match—it was like finding a needle in a haystack."

In the years since, CPMC has performed more than 100 kidney transplants based on matches identified by this software, which has gone on to help more than 1,500 patients around the world.

"Philanthropy enabled us to get ahead of the game with this new technology, and we became the biggest transplant program on the West Coast doing these kinds of kidney swaps," says Katznelson. "We were able to move fast and save lives because we could transplant more people sooner, rather than having them languish on a waiting list."

ABOVE Steven Katznelson, M.D., medical director of CPMC’s Kidney Transplant Program, is a native San Franciscan who spends as much time as he can hiking or mountain-biking in the Marin Headlands. Here, he pauses before a ride in San Francisco’s Land’s End.
The Art of Matching Donors

Barriers to Living Donation

Approximately 50% of living donors cannot donate to their planned recipient due to blood type or immunological incompatibility.

When someone needs a kidney transplant, having a healthy, living donor willing to give a kidney typically has the best results for the patient. But it’s not unusual for that person, whether a friend or family member, to be medically incompatible with the patient.

In some cases, those two individuals can be matched up with another suitable patient-donor pair by using specialized software developed at CPMC with philanthropic funds that combs through a database of medical information from incompatible pairs. Once an ideal set of matches is found, physicians can perform transplants in what is called a “kidney paired donation,” “paired exchange” or “swap.” The process has also been used among potentially compatible donors who could benefit from an improved match based on age or other factors. Sometimes, the software will identify multiple matches among several pairs of patients and living donors, creating a domino effect known as a transplant chain.

The result: more people receiving kidney transplants who might otherwise have had to wait a long time or not received a transplant at all.

Incompatible Pair

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Compatible Pairs

2-Way Matching

3-Way Matching

6-Way Kidney Swap

244 / 5 Surgeons, 5 Nephrologists, 6 Anesthesiologists, 4 Physician Assistants, 33 Nurses & 191 additional team members, including techs, ICU personnel, pharmacists, and other support staff

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<tr>
<th>Time</th>
<th>Donors</th>
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<tr>
<td>9:30 AM</td>
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**Altruistic Donor**
Paying It Forward

When she selflessly donated a kidney to someone she didn’t know, Zully Broussard triggered a complex transplant chain at CPMC that ultimately gave six people new kidneys – and six new chances at life. Her kidney was a match to Oswaldo Padilla, who says, “Zully is an angel.” Another recipient in the chain, Mark Kim, says, “It’s amazing how smoothly it went. I had surgery on Friday and was home on my couch by Tuesday.”

“I lost my husband and my son to cancer,” says Broussard. “They both eventually died from kidney failure and all I could do was watch them go. So if I could give another organ, I would. This is the most rewarding thing I’ve ever done.”

Broussard’s gift of one of her own kidneys resulted in the West Coast’s largest single-center transplant chain, with six kidneys swapped among 12 people over two days. CPMC has performed more than 6,200 kidney transplants, including more than 160 paired donations like those in this chain.

To encourage more donation, philanthropic funding helped CPMC’s Kidney Transplant Program launch the Living Donor Champion Program, which trains a patient’s friend or family member to be an advocate who can share their story and identify potential donors. Living kidney donation greatly reduces wait times and is the best transplant option in all cases.
Your City, Your Hospital

Thanks to our philanthropic partners, CPMC’s Department of Advanced Organ Therapies and Transplant can provide people across Northern California with exceptional, personalized care.

<table>
<thead>
<tr>
<th>CPMC’s expert physicians bring specialized care to kidney, liver, and heart disease patients at 34 outreach clinics across the region.</th>
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<tbody>
<tr>
<td>CPMC is a pioneer in the development and use of ventricular assist devices to support patients with advanced heart failure and those awaiting a heart transplant.</td>
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<tr>
<td>CPMC researchers are creating clusters of functioning liver cells called organoids to better understand how the liver works and accelerate drug development studies.</td>
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9200+

CPMC has performed more than 9,200 transplants since the first surgery in 1969.

CPMC’s heart transplant program is recognized as having 100% 1-year patient and graft survival, among the best in the nation.

CPMC’s gastroenterology and gastrointestinal surgery programs are nationally ranked by *US News & World Report*.

CPMC has the largest pancreas transplant program on the West Coast.

CPMC physicians are pushing the boundaries of robotic surgery to reduce the impact on patients of otherwise invasive procedures like liver, kidney, and pancreas resections.

CPMC was the first private hospital to have a heart transplant program.

The El-Hefni Liver Biorepository at CPMC contains more than 160,000 blood, liver tissue, and DNA samples from more than 4,500 individual patients of diverse ethnicity.

In 2015 CPMC performed the West Coast’s largest single-center chain of living-donor kidney transplants by swapping six kidneys among 12 people over two days.

CPMC performs an average of 200 kidney transplants per year.

CPMC’s transplant patient outcomes are among the best in the country.

CPMC is one of about 20 hospitals worldwide testing live tumor samples with mouse avatars to develop a faster, more accurate way to treat liver, pancreatic, and other cancers.

2015
“My college roommate’s dad had a sailboat, and my roommate taught sailing. We lived together for a few years after college, and spent many nights on the Bay after work. I always had it in the back of my mind that I’d like to become certified to sail, but kids and life always got in the way.

“I was born with an insufficient aortic valve. I had it replaced when I was 38. I developed arrhythmia problems a year later, which led to my getting a defibrillator implanted in my chest. I went through a series of infections and had some surgeries that didn’t go well. Late in 2015, things just started dropping off the edge of the table. My cardiologist said it was time to start afresh and get a new heart—and CPMC was the best place to receive it.

“That first night in the hospital, I was thinking, ‘What is my future?’ At about 10 p.m., I heard a nurse say, ‘Doctor, what are you doing here?’ A male voice replied, ‘I’m here to welcome a patient.’ Next thing I knew, Dr. Michael Pham was standing at the foot of my bed reassuring me, explaining what he would do to help me. That late-night visit from Dr. Pham meant so much to me. Hearing him say, ‘Everything will be fine, we’ll take care of you,’ gave me the hope I needed.

“I was too sick to wait for a donor heart to become available so they implanted a pump called a left ventricular assist device, or LVAD. While I recuperated, we were given access to a friend’s condo with a fabulous view of the 700 boats moored at South Beach Harbor. While sitting there with the LVAD apparatus, I swore if I ever got the chance, I’d get my certification. Just a few months later, I was blessed with the heart transplant. My son and I have now received our certification, and go out on the Bay from South Beach Harbor every chance we get while we work our way up from small boats to larger ones.”

—Mike Moul, heart transplant recipient
CPMC experts provide advanced organ care where you need them most

With dozens of outreach clinics stretching across Northern California and into Nevada, experts from CPMC’s Department of Advanced Organ Therapies and Transplant fan out across the region to see patients in need of care for a variety of complex conditions.

Michael Pham, M.D., MPH, CPMC’s Chief of Cardiology, attends a regular outreach clinic in Redding with a nurse practitioner. “We get to meet patients in their communities and assist their primary cardiologist in managing their heart failure. Success for us is when a patient does not need a transplant or left ventricular assist device,” he says. “But when those treatments are needed, we can also discuss and plan for transplant and LVAD early on, in a less intimidating setting.”

Patients draw on CPMC experts like Dr. Pham and his fellowship-trained colleagues for specialized kidney, pancreas, liver, and heart care that might otherwise not be available in their home communities. This level of access is as convenient as visiting their local doctor, saving them the time, effort, and cost of traveling hundreds of miles to San Francisco. And that can make a huge difference for someone who is not feeling well or recuperating from a major operation.

“Practicing in Redding is very rewarding,” says Pham, “The cardiologists and patients really appreciate our partnership and willingness to travel up there and work with them in their own communities.”
“My father had a very clear vision and two priorities: first, to improve the health of those diagnosed with a disease that caused so much suffering for him and, second, to elevate the quality of science education for children around the world. My mother and I share his belief that these are two very important goals and an extremely good use of our foundation’s funds.

“And so we are collaborating with CPMC through the Ibrahim El-Hefni Liver Biorepository in the hopes of improving treatment strategies for viral hepatitis and liver cancer, preventing cirrhosis, and understanding the complex and unique liver immune system. We want to encourage collaboration between doctors and scientists around the world and in particular between the United States, the country my father adopted and loved, and his home country of Egypt, which has one of the highest incidences of viral hepatitis and liver disease in the world, and other countries struggling with high rates of liver disease like China.

“For any philanthropist, the main concern is that every penny will be used to further the goal of the grant. We know we can trust Drs. Wakil and Cooper to ensure that every dollar is put to maximum use toward our mutual goal. They are among the brightest research and clinical doctors in the world. We know this firsthand about Dr. Wakil as he personally treated my father during and after his liver transplant. They are incredible human beings with an absolute passion for their patients and for the mission of eradicating liver disease.”

—Suzanne Wright, philanthropist
Empowering Patients

“Autoimmune and cholestatic liver diseases are rare. Sometimes just a handful of people out of 100,000 will develop them. Despite those statistics, I have a busy practice and would see patient after patient struggling to live with these diseases on their own. A few years ago, a few of my patients and I created a monthly support group for them to come together and share their concerns and experiences. Patients mentor other patients on how to cope. In the process, they’ve felt empowered to take more charge of their care.

“I am always looking for ways to elevate our efforts. We have created a conference that brings together hundreds of patients and caregivers from across the country along with groups like the American Liver Foundation. At our next one, we are adding sessions such as parenting while managing this disease, and how to help kids handle the anxiety of seeing a parent undergo treatment or hospitalization.

“My work encompasses patient care, research, and collaboration with colleagues around the world. I really love all of these pieces, and philanthropy is woven throughout. I’ve been able to hire a research coordinator with philanthropic funds, accelerating our work, and to start our Autoimmune Liver Disease Research Fellowship, which contributes to patient care and trains future physicians in these rare diseases. Philanthropy is vital to patient support initiatives like our national conference. And it is important to key partners like the El-Hefni Liver Biorepository, which is a major research resource, and the Institute for Health & Healing, which helps my patients actively manage symptoms that affect their quality of life.

“My patients often say they don’t want to sit and wait, but want to be proactive in their care. It’s important that we help them be engaged beyond being told what medications to take.”

—Kidist K. Yimam, M.D.
Giving in Gratitude

In December 2014, Kendall Patton and his husband Mark Jordan faced a life-threatening diagnosis when Kendall needed liver and kidney transplants. Given just 60 days to live, Kendall needed treatment immediately. CPMC’s Liver Disease Management and Transplant Program didn’t have an opening that quickly, but his doctor, Todd Frederick, M.D., and the CPMC team jumped into action. They arranged for a transplant at the Ochsner Multi-Organ Transplant Institute in New Orleans and, as Kendall puts it, “42 days later I had a new liver and kidney, and a fantastic new life with my husband Mark.”

Ever since, Kendall says that CPMC has given him excellent care. “The people I’ve seen at every level here have been outstanding, not just in the beginning when I was still very ill, but even today,” he adds. “They care about me as a person, my return to good health, and they are always kind and caring.”

Kendall and Mark are profoundly grateful to the dedicated professionals who saved Kendall’s life and, in appreciation, they have made a significant commitment in their IRA to fund liver research at CPMC. “It makes us feel good that our investment will help others with liver disease,” says Kendall. “Plus an IRA gift to a charity is not taxed, so people should consider their IRA funds as the first asset to give charitable causes they care about. I also joined the board of CPMC Foundation with the goal of increasing community support for the work of CPMC’s transplant team and their colleagues. We plan to keep our philanthropy flowing to CPMC.”
The Campaign for CPMC

Naming New Hospital Spaces

Our two new safe and smart hospitals — Mission Bernal and Van Ness — provide our philanthropic partners with visible ways to be recognized or honor loved ones. Among those partners are the following:

Sloan and Roger Barnett
Mary Ellen and Thomas Benninger
Riva and David Berelson
The Berman Family
Jennifer Caldwell and John H.N. Fisher
The Dan and Stacey Case Family Foundation
Carolyn Chang, M.D. and J.P. King
Angela and Scott Crabill
Elyse Eng
The Beverly M. Folger Foundation
William Fries II Foundation
Vernon Giang, M.D. and Joy Chen
Jeffrey Gibson
Lisa and Douglas Goldman Fund
Catherine and David Hale
Rose Heide and Gary Sweet
Martha and David Irmer
Virginia L. Jones Foundation
Joan C. Kahr
Barbara and Ron Kaufman
The Kimball Foundation
Koret Foundation
Teresa Linn
The Ma Family
MacNaughton Family Foundation
Michele McLaughlin
Deborah Lee Minor Family
Janet and Clyde Ostler
Kendall Patton and Mark Jordan
Pediatrics Medical Group
Dolly Sandoval
Lisa and Stott Stevens
Richard Torretto
Bennetta and Anthony Wagner
Diane B. Wilsey
Richard H. and Fukan T. Yen

[As of 10/2/19]

While many spaces have been named in the hospitals, here is a sampling of some of the beautiful and prominent places that still remain at both campuses.

Starting at $25,000

- NICU Patient Rooms with Garden View*
- Bicycle Parking
- ED Treatment Rooms, Adult and Pediatric
- "Mother’s Room"
- Multipurpose Rooms
- Pathology
- Physician Sleep Rooms
- Workrooms (Interdisciplinary, Physician, Staff)
- Imaging Rooms
- ICU Patient Rooms
- Newborn ICU Patient Rooms
- Pediatric ICU Patient Rooms
- General Operating Rooms*
- ACE Unit PT/OT Exercise Suite
- ICU Waiting Area
- Mission Bernal Birthing Waiting Area
- Pharmacy
- Physicians’ Dining room
- Respiratory Therapy Suite
- Surgery Staff Lounge
- Women’s Services/Postpartum Family Area
- Meditation Rooms*
- Conference Rooms
- C-Section Suites
- History of Medicine Museum
- ICU Physicians and Residents Suite
- Nursing Administrative Suite
- Pediatric Multipurpose Activity Room
- Specialized Operating Rooms: Cardiac, Vascular, Transplant
- Ultrasound, Radiology and Other Imaging Suites
- Volunteer Services Suite
- Mission Bernal Cafeteria*
- Cardiology Care Unit
- Oncology Care Unit
- Orthopedics Care Unit
- Post-Anesthesia Care Unit
- Transplant Care Unit

*Corresponding image on left

For more information, please contact Blair Parker, Donor Relations Manager, at CPMC Foundation: parkerbx@sutterhealth.org, or 415-600-4405.
Ways to Give

Sutter Health’s CPMC is a not-for-profit medical center. Your philanthropic partnership enables our physicians and researchers to do what they otherwise could not for our patients and their families:

Innovate new care models
Recruit and retain experts
Inspire intelligent research
Empower patient navigation
Elevate medical education
Enable support services
Acquire new technology

Your charitable investment options include:

Appreciated securities
Bequests in a will or revocable living trust
Cash gifts
Charitable gift annuities
Charitable lead trusts
Charitable remainder trusts
Life insurance
Real estate
Retirement plan assets

Your City, Your Hospital is a publication of CPMC Foundation, the philanthropic team of Sutter Health’s CPMC.

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