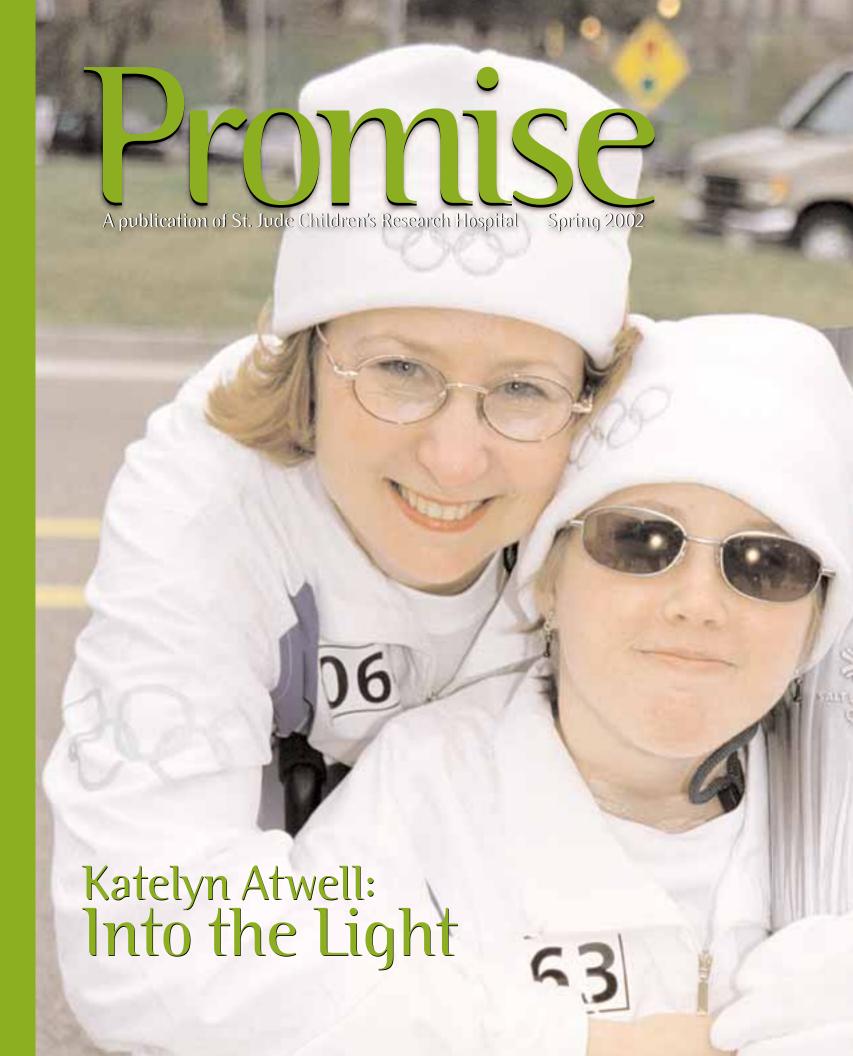
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St. Jude Children's Research Hospital was founded by the late entertainer Danny Thomas. It opened February 4, 1962. The hospital was created because of a promise Danny made during the depression era to St. Jude Thaddeus, the patron saint of the hopeless.

"Show me my way in life," Danny prayed. In return, Danny promised to build St. Jude Thaddeus a shrine. That shrine became a hospital that would treat children regardless of race, color, creed or their ability to pay. This remarkable event also inspired the name of this magazine,

Promise



St. Jude Children's Research Hospital, Memphis, Tennessee

Promise

Department of Public Relations St. Jude Children's Research Hospital 332 N. Lauderdale Memphis, Tennessee 38105

St. Jude Children's Research Hospital's mission is to find cures for children with catastrophic diseases through research and treatment.

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St. Jude Children's Research Hospital is an equal-opportunity employer. For inquiries about stories in this publication, call the Public Relations department at (901) 495-3306 or e-mail elizabeth.walker@stjude.org. Visit our Web site at www.stjude.org. Articles and photos may be reprinted with permission. ©2002. On the cover: St. Jude patient Katelyn Atwell and her mother, Sharon Atwell. Photo by Evanne Newman.

Highlights



St. Jude patient Cody Bigos and members of the Port Authority Police of New York/New Jersey were special guests at the Hope for the Children event, which raised more than \$1.8 million for St. Jude.

Radiation and the brain

The effect of radiation on a child's brain has been measured for the first time in a pioneer study of pediatric brain tumor patients. The study should enable doctors to plan radiation therapy so as to spare normal brain areas that could be affected by radiation. The research, published in the December 2001 *Annals of Neurology*, was led by Grant Steen, PhD, of St. Jude Diagnostic Imaging.

Sickle cell finding

A new study indicates that hydroxyurea, a drug proven to help prevent the pain crises of sickle cell disease in adults, is a potential treatment for infants with the

genetic disorder. A team of scientists led by Winfred Wang, MD, and Lynn Wynn, RN, BSN, of St. Jude Hematology-Oncology, determined that hydroxyurea therapy in children 6-24 months of age is feasible and well-tolerated with minimal side effects. The therapy also results in improved blood counts and may delay chronic organ damage from sickle cell disease. The research, which involved four institutions, was published in the December 2001 issue of *The Journal of Pediatrics*.

PTEN discovery

When mutated, the tumorsuppressor gene *PTEN* leads to brain tumors and other cancers. A recent study led by Suzanne Baker, PhD, of St. Jude Developmental Neurobiology, found that *PTEN* causes neurons in the brain to grow larger, not multiply. This research will help scientists understand how the gene may lead to brain tumor formation. The study's findings were published in the December 2001 edition of *Nature Genetics*.

Rising from the ashes

For the past 11 years, the Wall Street community has held an annual fund-raising dinner called Taste of New York, which has raised more than \$14 million for St. Jude. But last November's event was cancelled after the September 11, 2001, terrorist attacks on the World Trade Center.

Still wanting to help, the Wall Street community created a restaurant and wine-tasting event called Hope for the Children. More than 1,000 Wall Street executives and 100 area rescue workers attended the benefit, which raised more than \$1.8 million for the hospital.

"The September 11 tragedies serve to remind us that each life is a precious thing," says Richard Shadyac, national executive director of ALSAC. "And we are honored that the Wall Street community is continuing its support of St. Jude."

For information about the fall 2002 Wall Street event, call ALSAC's New York office at (212) 239-3239.

A Bombay Summer

A girl named Summer inspires The Bombay Co. and its leader, Carmie Mehrlander, to support St. Jude.

By Joe Hanna

Carmie Mehrlander had a decision to make.

As chairman and CEO of The Bombay Co. Inc., a specialty home furnishings retailer based in Texas, Mehrlander was scheduled to be in Denver, Colorado, for a ribbon cutting at her company's newest store. But she was also scheduled to be in Memphis for a meeting of the St. Jude Children's Research Hospital Professional Advisory Board—a group of business leaders and celebrities who assist the hospital in fundraising techniques.

Mehrlander turned to her close friend, Summer Wilson, for help. She called Summer on the phone and asked if she could go to Denver to cut the ribbon. Summer agreed to do it, but only after obtaining permission from her mother.

Summer, 5, is a patient at St. Jude. Both the institution and the patient have become significant parts of Mehrlander's life. "I guess it was—for both of us—love at first sight," Mehrlander says. "We're like good friends."

The Bombay Co. has raised about \$277,000 for St. Jude through its sale of plush bears during the past few holiday seasons. During the 2001 season, Bombay stores again sold a commemorative bear, with a percentage of the sales going to St. Jude. The bear was named Wilson, after the patient who inspired Mehrlander

and her employees. This hardworking bear netted \$127,000 for the hospital.

Summer and Mehrlander met when the little girl and her mom talked with Bombay Co. executives about how research at St. Jude had saved Summer's life. Summer had been born with a softball-sized



Summer Wilson and Carmie Mehrlander

tumor on her right arm, but doctors at the hospital had been able to remove the tumor and prevent the cancer from spreading.

Mehrlander and Summer immediately formed a special bond. When Mehrlander first visited St. Jude, she saw the hospital through a patient's eyes. "Summer personally took me on the tour. She showed me every part of the hospital," Mehrlander recalls. Summer now refers to Mehrlander as "Aunt Carmie."

Mehrlander says the feeling she

gets at St. Jude is unrivaled at any other institution. "The care and concern that each St. Jude professional has is so admirable," she says. "Their dedication and their relentlessness to finding cures....You feel it there. It is more like being with a family."

Becoming close to Summer gave

Mehrlander insight into the hospital's mission. So when the St. Jude Professional Advisory Board approached her about joining its ranks, Mehrlander agreed. Mehrlander said that what she enjoyed at her first board meeting was hearing "presentations by different departments that would tell us the hypothesis of a discovery they would be working on. It shows you that there is hope. There really is hope."

Mehrlander says she gains a sense of personal satisfaction from knowing that a diverse group of business leaders and celebrities can set aside the daily grind of corporate life to assist with the St. Jude mission. "I think all of that comes from going to St. Jude and seeing the children, who all have smiles on their faces," she says. "Seeing children who don't even know if they are going to live another day have such smiles on their faces is very heartfelt."•

Into the Military

Katelyn Atwell journeys out of the shadows with the help of her faith, family, friends and St. Jude caregivers.

BY ELIZABETH JANE WALKER

ne chilly day last December, Sharon Atwell stood, transfixed, watching her youngest daughter carry the Olympic torch through the streets of Memphis. Amid a deafening tumult of cheers, shouts, sirens and applause, 15-year-old Katelyn Atwell waved serenely at the crowd and, with a radiant smile, quietly passed the Olympic flame to her mother.

Only two years earlier, Katelyn's own flame had almost been extinguished by a bacterial infection that had catapulted her into the yawning void of a coma. Her journey back to the light has been slow, tortuous, and—in the words of many St. Jude researchers and health care providers—miraculous.

The candle flickers

Long before she ever held an Olympic torch, Katelyn Atwell had acquired the discipline and tenacious spirit of an athlete. A competitive swimmer, she spent countless hours in the pool, testing her limits. That same sense of determination also pervaded other aspects of Katelyn's life. When her family moved from Florida to Tennessee, the outgoing youngster joined the band and the flag squad at her new school, and helped lead a children's choir at church. Life was good; life was busy. Then her back began to hurt, and Katelyn went to the doctor. Soon the diagnosis came back: acute lymphoblastic leukemia.

In June of 1999, Katelyn began treatment at St. Jude



Children's Research Hospital. But after two weeks of chemotherapy, she complained of a chill. Immediately, her physician prescribed three antibiotics and admitted her to the hospital. "We rarely see meningitis in our patients, and even if it were meningitis, with three antibiotics, she should have been covered," recalls Jeffrey Rubnitz, MD, of Hematology-Oncology. But then Katelyn started having seizures. The doctors found that she had Bacillus cereus meningitis, an infection so rare that only six cases had been documented in medical literature. Two days later, she was critically ill on a ventilator. She slipped into a coma. Everyone thought she was going to die.

Everyone except Katelyn's mother, father and sister. During the five months Katelyn spent in the Intensive Care Unit (ICU), Katelyn's mother never left her side, constantly optimistic and determined, clinging to her faith in the midst of staggering odds. "I think Katelyn's mom almost willed her to live," observes Robert Tamburro, MD. "A lot of times, people are unrealistic or irrational, and act upbeat because they haven't really accepted how serious the situation is. That was never the case with Katelyn's family. They said, 'We're going to stick with our degrees for more than faith and be as upbeat and positive for Katelyn as we can, because that's what she's going to need."

Sharon watched as scientists and clinicians joined forces to fight for Katelyn's life. "The people at this hospital don't accept defeat gracefully," Sharon says. "When you present them with challenges, they really go to battle. It was a hospital-wide effort. Our doctors would be beeped by scientists in the Danny Thomas Research Tower, who would say, 'I've been researching Kate's situation. Have you tried this or that?' Every department was doing everything they possibly

could—researching and calling other hospitals to see if they could find anyone who had ever had this infection before."

At one point, a prominent neurosurgeon arrived to provide a second opinion on Katelyn's condition. "He looked at the diagnosis, he saw the type of infection that she had, he looked at the CAT scan, and he told me, 'You might as well kiss this baby goodbye and call your family in, because there is no hope for her," Sharon recalls. "I believe with all my heart that if she had been in any other hospital than St. Jude, they would have taken his word for it, and Katelyn would have passed away. But the

folks at St. Jude said, 'You know, we're not ready to believe that yet,' and they called in someone else."

Because of increased pressure within her brain, Katelyn underwent dozens of operations to insert drains, shunts and remove cysts. The trauma to her brain prompted what doctors called autonomic storms. Her temperature would plateau at 108 or 109 12 hours. Her heart rate would skyrocket, and her blood pressure would increase to 200/185. The storms would abate for a couple of hours, and then they would resume with increased ferocity. "We didn't think she was going to make it," says ICU nurse Peggy Derringer. "And we thought that if she did make it, the damage to her brain would be so profound that her quali-

ty of life would be terrible." But Katelyn did not die. She remained in a coma for more than a year.

Fanning the flame

During that year, Sharon and Ray Atwell and their older daughter, Crystal, prayed relentlessly and celebrated each achievement, no matter how small. They leaned on their faith, friends and family for support. Through the Internet, people around the world heard about Katelyn and began to pray for her. Sharon sent out regular "Kate Update" e-mails to an ever-increasing number of







When she slipped into a coma, her family tried to "reach" her by involving her in activities that she had once enjoyed and by surrounding her with people and things she loved. As a competitive swimmer, Katelyn had trained about two hours every day, swimming laps in a pool. Crystal Atwell spent countless hours trying to stimulate her sister and relax Katelyn's drawn muscles. Today, Katelyn has no memory of these sessions. Katelyn's dad, Ray Atwell (above) shares a private moment with his daughter.



In St. Jude Rehabilitation Services, Katelyn and Physical Therapist Assistant Janet Adams urge physical therapy students Raquel Bengoechea and Jenny Puff to bend ever lower in a high-energy game of "limbo."

"prayer warriors." A huge map on the wall of Katelyn's room marked the cities and towns where people were praying for her. "I wanted Katelyn to know when she woke up how many people had prayed for her to be well," explains Sharon.

The medical staff taking care of Katelyn were astonished by her family's unwavering optimism and faith. "There was always a family member at Katelyn's bedside, encouraging her, playing her favorite music, doing passive range of motion exercises," recalls Stephen Thompson, MD.

Katelyn's caregivers received support, as well. "Whenever I'd operate on Katelyn, I'd get e-mails literally from all over the country people saying, 'We're praying for you; we're praying for Katelyn," recalls Stephanie Einhaus, MD. "It was incredible."

Sharon compares Katelyn's battle with Bacillus cereus meningitis to a roller coaster ride. As soon as doctors would rectify one

problem, another would arise. She would begin to rally and then she would have a stroke. Or she would get a viral infection. Or she would have a seizure. But a vear into Katelyn's coma, her condition began to improve. Although she was blind and nonverbal, she began to respond to her family with hand squeezes, blinks or nods.

In a June 2000 "Kate Update," Sharon wrote, "It was one year ago today that the Atwell family got on this roller coaster ride called the cancer express. It has more corkscrew turns, downward spirals, upside down turns, only to be shot straight up into the heavens or to find yourself plummeting down into the bowels of the earth. For a very long time I prayed every day for God to get us to the exit ramp, but we never did see it....We are now on a very smooth ride, every once in a while a whoop-tee-doo, but for the most part just an enjoyable, slow ride going forward."

Dividing light from darkness

One evening, four months after writing that e-mail, Sharon was tucking Katelyn into bed. After a goodnight kiss, she said, "I love you Katelyn." As she backed away, Sharon saw her daughter silently mouth the words "I love you, too." Within days, Katelyn began to lip sync her favorite songs. In November of that year, her sight suddenly returned. In December, she began eating for the first time in a year and a half. Slowly, steadily, Katelyn began to surface. "I remember the first time she came to my office after she woke up," says Einhaus, who performed dozens of operations on Katelyn's brain. "She had started to communicate. I cried; it touched me that much. Many neurosurgeons had told me, 'You're wasting your time operating on her. She's not going to wake up.' But we just plugged along, hoping that she might. Then all of a sudden she woke up. It was a bit miraculous, to be perfectly honest."

Everyone who took care of Katelyn was astounded at her recovery. "You know, the word 'miracle' is sometimes thrown around too freely in the world of medicine," observes Tamburro. "But certainly with Katelyn, I think it's appropriately used. To see the way she's progressing is nothing short of miraculous."

Thompson, who spent many nights sleeping outside Katelyn's door in the ICU, keeps a picture of Katelyn on his desk. "This is probably one of the most satisfying recoveries I've ever seen in a patient I've cared for," he says.

"Hers is truly a miraculous recovery." Derringer, who has worked as an ICU nurse for 12 years, says the faith of Katelyn and her family, combined with aggres-

6 Promise Spring 2002 Spring 2002 Promise 7 sive medical care, made the difference. "She's one of our true, bonafide, no-way-she-should-behere miracles. And that's the truth," Derringer says.

As Katelyn began to surface, she quickly regained her competitive spirit and sense of humor. The rehabilitation specialists who had worked tirelessly with Katelyn during her coma now began to help her relearn the most basic tasks. With the daily help of physical, occupational and speech therapists, she began to make progress. She began to sit alone, then talk, then stand. In September, she had her last dose of chemotherapy. Two months later, she walked with her walker from Rehabilitation Services to the St. Jude reception desk, as St. Jude staff and patients lined the corridors and filled the lobby, cheering.

On Friday, December 14, Katelyn carried a flaming torch through the streets of Memphis. "I stood at the corner of the street, watching this huge entourage of people coming my way," wrote Sharon in a "Kate Update." "I stood there praising God for how





According to a member of the committee that chose the Olympic torchbearers, Katelyn received hundreds of torchbearer nominations—more than anyone else in the state of Tennessee. Although she originally intended to walk part of the route, Katelyn changed her plans to accommodate Olympic officials, who wanted the torch to move quickly.

great he truly is. Who would have ever thought two years ago that she would be coming toward her mother with torch in hand, waving at everyone with the biggest smile possible on her face? A vision of her in ICU with all the tubes and machines popped into my head, and then I looked at her coming toward me, and I almost lost it."

Katelyn seems unaware that she

has become a symbol of hope and faith to others. "Every time I see Katie, my heart just swells," says Derringer.

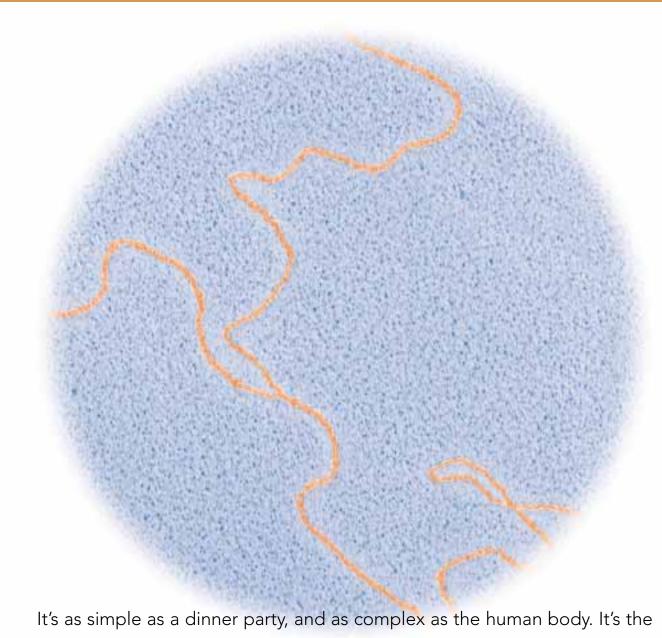
"Doctors, nurses, respiratory therapists, we all light up when we see Katie. When she walks into the ICU, we look up and say, 'Ah! We're so glad you're here!' She gives us inspiration, and she lifts our spirits."

Let your light shine

During the past year, a silent girl with a blank stare has evolved into a vivacious teenager who greets everyone she meets with a broad smile and enthusiastic greeting. At any moment, Katelyn might break into a praise song, a joke or a pithy commentary. "There's me as a body-woddy," says Katelyn, as she marvels at the emaciated stranger depicted in her mother's photo album. "I don't remember diddly squat. All I remember is loud, annoying beeps."

Katelyn doesn't mourn about the time she has lost; she is too busy setting, meeting and exceeding goals. Today she is dressed for physical therapy in a navy sweatshirt, Florida Gators sweat pants and blue glitter nail polish. Sunlight streams through the windows of Rehabilitation Services, falling in a bright strip across the linoleum floor. For Katelyn, walking is still hard work, a task that demands intense concentration. Brow furrowed, head bowed, muscles quivering, she takes one step, a deep breath, then another.

"C'mon, girly girl! You can do it!" urges Sharon. Panting, Katelyn steps into the light, moving forward, ever forward. Instilled with determination, upheld by faith and propelled by the sheer power of a mother's love.•



Human Genome.

BY MICHAEL CODY

The patients of St. Jude Children's Research Hospital

benefit enormously from what we know today as the Human Genome Project.

Much of the hospital's research has been accelerated by the project and its tools, found in the St. Jude Hartwell Center for Bioinformatics and Biotechnology. But what is this nebulous and official-sounding project and how does it help fight disease?

Forks, knives and genes

To understand the implications of the Human Genome Project, you the world are using the Human must first understand the term "genome." The On-Line Medical Dictionary* defines a genome as "the total set of genes carried by an individual or cells." Notice that the word "set" is used in this definition. A "set" also pertains to your mother's silverware and place settings. If you stretch your imagination (not to mention a few laws of physics), you can draw some simple comparisons between our bodies and a dinner party.

Consider a table setting for about 1,000 people. Lots of china patterns, plus similar—but not quite matching—plates, saucers, coffee cups and many, many tables. A special name card adorns each place setting. Sounds complicated, but step back and it's really grand and beautiful.

Each individual consists of mil-



Tom Curran, PhD



Joseph Mirro Jr., MD



James Downing, MD



lions of different cells (table settings), but there's also a good bit of stand how genes function and order to them. Assume that the Human Genome Project, which genetic researchers put in motion about a decade ago, is a gigantic table setting of the human body.

*On-Line Medical Dictionary, http://www.graylab.ac.uk/cgi-bin/omd.

Researchers are trying to underinteract. "Some diseases are associated with single-gene defects; others are involved with multiple genes," Mirro explains. "With the Human Genome Project, you can go in and screen for diseases we've identified as single-gene defects, but someday we'll be able to screen for diseases caused by multiple genes."

think the genome project is going to revolutionize the way these studies are done and the amount of information that comes out of them."

People with certain genetic dispositions have different responses to diseases and environmental factors, such as the chemotherapy and radiation used to treat many St. Jude patients. Each gene in the



Scientists at St. Jude and around

Genome Project as a map to look

into our bodies. Joseph Mirro Jr.,

MD, St. Jude chief medical officer,

likes to compare the project to the

alphabet. "Your genetic makeup

determines absolutely everything

about how you're going to respond

to your environment—when you're

going to die, what diseases you're

going to get, what you're capable

allows us to get a better handle on

human diseases. The project has

laid out for us the letters—about

the 3 billion letters there are over

3 billion base pairs. Among

40,000 words, or genes. Then

you have to figure out how the

words fit together to make sen-

make paragraphs—and, finally,

tences and how the sentences

a human being."

of doing," says Mirro. "The

Human Genome Project really



A strand of DNA, or deoxyribonucleic acid. Each gene in the human body is made of DNA.

The main course

"Can we better define the molecular abnormalities that cause cancer?" asks St. Jude Pathology Chair James Downing, MD. "Can we understand how these lesions lead to cancer? Can we use that information to develop better therapies that are more effective against cancer, yet less toxic? I



human body is made of DNA, or deoxyribonucleic acid. Downing is employing the tools of the Human Genome Project to study the DNA of the children treated at St. Jude.

Genes of every cell, while growing or differentiating, express themselves in the form of messenger RNA, or ribonucleic acid. RNA is translated into proteins. These proteins are used by cells to perform various tasks—such as cell growth, cell division, chemical reactions and are also part of the structure of cells. In the Hartwell Center, researchers use microarray tools developed through the Human Genome Project to look into the RNA of the cancer cell. "We hope to be able to predict which patients will respond to therapy and which patients will not," Downing says. "The patients who will not respond well will have a higher risk of relapsing."

How do the tools of the Human Genome Project help? The microarray process allows scientists to look at a cancer's gene expression profile by simultaneously measuring the expression level of thousands of genes. "We're using a system right now that allows us to screen a leukemic sample for over 10,000 genes," says Frederick Behm, MD, of Pathology. "That's an awful lot of material to look at and data to crunch."

Developmental Neurobiology Chair Tom Curran, PhD, calls the gene chips that the Hartwell Center analyzes for his brain tumor research "the Rosetta Stone of cancer." "By reading a gene chip, you can get a picture of what's going on inside a cancer cell," he says. "These are still early days with this type of technology, and the Hartwell Center is among the world's frontrunners in terms of applying this technology. We want to use the technology to understand what makes a brain tumor cell grow and to suggest how we can stop it from growing."

Curran says the technology will help researchers predict what types of therapy will work best for patients.

Curran's team also uses the tools of the Human Genome Project to look at the composition of individual proteins. After purifying the proteins, they send them to Clive Slaughter, PhD, who heads the Proteomics division of the Hartwell Center. "He helps us understand exactly what's going on with that protein," says Curran.

Do most of the patients at St. Jude care about proteins and chromosomes and the applications of the Human Genome Project? Probably not. But the researchers and clinicians at St. Jude care. And as they piece together the grand table setting of the Human Genome Project, they move ever closer to finding cures for the diseases that threaten the lives of children worldwide.

The Patient and the Project

DAVID Scanlan is one of the few St. Jude patients who understands exactly why the Human Genome Project is important. "I use tools, same as those used by the Human Genome Project, to break down DNA, read it and then put it back together," says Scanlan, who was treated for non-Hodgkin lymphoma at St. Jude in the 1980s.

Scanlan, 26, spends his days "ripping apart" bacteria for The Institute for Genomic Research (TIGR), which collaborates with the National Institutes of Health and many companies to sequence genomes. "The microarray technology I use at TIGR, which is the same as that used in the Hartwell Center, helps us determine what genes are being turned on to make proteins that are expressed by individual cells," he says. "We are studying bacteria that are closely related to the now-

infamous anthrax bacteria. By examining the growth cycle, we hope to learn more about what genes are turned on in response to a variety of growth conditions."



After completing cancer treatment, Scanlan couldn't stay away from St. Jude—returning to work for a summer in the Immunology department with Nobel Prize-winner Peter Doherty, PhD. "I've always been interested in biology and medicine," Scanlan admits. Today, the Virginia Tech graduate and proud cancer survivor lives in Washington, DC, as he makes plans to attend medical school.

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Years of Progress

Four decades after opening its doors,
St. Jude Children's Research Hospital
is still growing, improving and saving young lives.

BY TANUJA SURPURIYA

Cost of treating a child with cancer per day: \$2,220.
Cost of running the hospital per year: \$270,464,436.
Cost of upholding the highest standards of medical excellence while saving the lives of the world's children: *Priceless*.

t. Jude Children's Research Hospital celebrates its 40th anniversary this year, and like a fine cabernet, the institution proves that some things really do get better with age. At 40, St. Jude has never looked better—sporting an unprecedented \$1 billion expansion and world-renowned research. The past four decades have brought higher survival rates for every type of childhood cancer and new scientific discoveries and technology for more effective treatments. The hospital has come a long way from the one-building institution that set out with the ambitious idea of curing the sickest children without charging them. This success is possible because of the efforts of ALSAC, St. Jude's fund-raising arm, and the hospital's backbone: its volunteers, donors and employees.

Hospital founder Danny Thomas knew that well. At the dedication ceremony February 4, 1962, Thomas told the crowd of staff and supporters from around the country, "A dream is one thing. A realization is something entirely separate. I publicly thank you, wherever you may be, for the support of this dream. It took a rabble-rousing, hook-nosed comedian to get your attention, but it took your hearts, loving minds and generous souls to make it come true. If I were to die this minute, I would know why I was born."

Adopting the mission

Danny Thomas was not the only person to find purpose at

St. Jude. Thousands of employees have since taken on the hospital's mission as a personal goal, whether through direct patient care, research or support.

Bobbie Fisher, a St. Jude Laboratory Services employee since 1964, has witnessed four decades of progress. "When I first came to work here, you could say that children were doomed," she recalls. "I'm glad to say that I have lived to see that today our children are living; they are going to college; they're getting married; they're having families." Back in the '60s, Fisher worked for 91 cents an hour, three days a week. Her belief in the hospital's mission was so strong that after her shift ended at 5 p.m., she continued working in the labs until midnight for free. It was a service she called her "dedication time." "And it wasn't just me," she says. "All of the people who have come to work for St. Jude have had the highest dedication and love and honor."





Bobbie Fisher, a St. Jude employee since 1964, has gone the extra mile to demonstrate her commitment to the hospital.

Inventiveness is another word that can be added to that list. Time and again employees found ways to keep patient care at the highest level without wasting donor money. In the early years, ALSAC volunteers stretched donor dollars by using the backs of incoming mail and envelopes to make carbon copies of letters. The Ladies of St. Jude also re-rolled adding machine tapes in Accounting each evening so that both sides of the paper were used. Commercial blood banks used to pay blood donors \$5 per donation; the banks then sold that blood to local hospitals for \$25. That price seemed unreasonable, so St. Jude created its own Blood Donor Center. The hospital still draws most of its blood supply from this source.

Defining progress

Whether building the city's first earthquake-resistant structure or rejecting racial segregation, St. Jude has demonstrated foresight and egalitarianism. Paul Williams, a noted African-American architect and one of Danny Thomas' friends, designed the original hospital with its five-pointed star shape. From its inception, the hospital not only integrated its own patient care areas, dining room and office holiday parties, but it also forced some reluctant local establishments to either follow suit or forget about doing business with St. Jude.

The hospital's greatest success has always been its patients. "The physical growth has, of course, been phenomenal, but more important has been the progress in treatment of catastrophic diseases affecting children," says St. Jude veteran Elizabeth Pell, Pathology. "And it's not only with leukemia, but solid tumors, sickle cell disease and HIV, and the quality of research that has made this possible. Being part of this in some small way is what has kept me here for 37+ years." Laura Strom, another 37-year veteran of the hospital, agrees. "I think the employees make St Jude what it is," says Strom, Radiation Oncology. "I feel good when I leave here at the end of the day. When some little child puts his or her arms around me and says, 'Miss Laura, I love you,' it's a wonderfully warm feeling."

Pat Patchell is the longest living St. Jude ALL survivor.



A shrine to life

When St. Jude opened, leukemia was an incurable disease. Pat Patchell, 49, the hospital's longest living acute lymphoblastic leukemia survivor, helped St. Iude change that. Patchell arrived at St. Jude in 1964 and responded quickly to treatment. He was one of the first five patients to be taken off medication after a long-term remission at a time when cancer patients received treatment indefinitely. "That was a pretty radical idea at the time," Patchell says. "I'm just so glad they had the nerve to do it. It gave me a lot of freedom." Now a Memphis accountant, Patchell says he gets tongue-tied when discussing his feelings about St. Jude. "How can you express enough thanks, when you were in dire straits and they saved you? It really is the greatest place," he says.

That sentiment would have pleased Danny Thomas, says Paul Parham, Thomas' friend and retired director of ALSAC Communications. Thomas liked to tell Parham and others about his famous promise to St. Jude

Thaddeus, "Show me my way in life and I'll build you a shrine."

"He used to say that when he made that vow, he was thinking more along the lines of putting a statue in the Catholic church; but that St. Jude was a harsh taskmaster," Parham recalls. "Every time I think I've done all that is possible, he gives me more to do,' Thomas would say."

Parham believes it is important for the world to remember Thomas. "Sure, he was a No. 1 TV star, but he was also this dynamic guy who would get things done," Parham says. "It was his leadership, his dream, his goal and his fanaticism that built this place. He'd be very proud to see St. Jude today."•

The Giving "Family" Tree

ongtime donor Judith Helmuth, of
Farmington Hills, Michigan, was destined
to become a supporter of St. Jude
Children's Research Hospital. Like the hospital, Judith was named after St. Jude
Thaddeus, the patron saint of hopeless causes.
Her family's devotion to the saint has spread to
support of the hospital, and now three generations of women are St. Jude donors.

It all started back in the 1940s during World War II when Helmuth's parents were engaged. Her father was in the military and her mother, Dolores Nowicki, prayed to St. Jude Thaddeus not to send her fiancé overseas. Her prayers were answered, and her husband's assignments were always on American soil. They never forgot the blessing. "My husband always said that we were going to name our first-born after St. Jude, no matter if it was a boy or a girl," Nowicki recalls.

Nowicki's devotion sparked her daughter's fondness for St. Jude Children's Research Hospital.



When she landed a job with Merrill Lynch, Helmuth decided to donate a portion of each paycheck to the hospital. She has done so for 17 years. "I think what St. Jude does for children and their parents by giving them the best care without asking them to pay is remarkable," says Helmuth. She has never been to Memphis to visit the hospital, although she would like to someday. "I think of this as an act of faith," she says. "I know the good work that goes on there, and that's enough for

Nowicki followed in her daughter's footsteps in 1994 after having an operation for a perforated appendix. "It was a scary time in my life," she says. "I just thought about St. Jude and decided that if I came through the surgery, I'd make a donation in his name."

Now Helmuth's daughter, Jessica Nienus, 27, an industrial designer living in Chicago, carries on the tradition. She has made a donation to St. Jude as her mother's Christmas present for the past two

years. "It's the best present I could ever think of," says Helmuth. Jessica's grandmother agrees. "I'm proud of her. You don't see as many young people getting involved in these causes. I hope this encourages others. I can definitely tell them St. Jude really does work miracles."

It's pretty clear she was talking about both the hospital and the saint.

For three generations, donating to St. Jude has been a family affair. Judith Helmuth (far left) began the tradition, which has been embraced by her mother, Dolores Nowicki (far right), and the youngest family member, Jessica Nienus (center).



The tests that evaluate lung capacity and airflow provide entertainment and challenge to an inquisitive 10-year-old like Rodrick. "This is fun," he says. "I like drawing pictures with my breath."

"We want you boys to understand why we don't want you to smoke," says Melissa Hudson, MD. "Smoking can have long-lasting effects on the heart and the lungs. And it could give Rodrick a higher risk of getting anoth-

er kind of cancer."



A survivor of childhood cancer spends his first day in the St. Jude ACT Clinic.

en-year-old Rodrick
Thompson of Memphis
loves playing dodge
ball, basketball and
hide-and-go-seek. He loves eating pizza and reading books.
And he loves coming to St. Jude
Children's Research Hospital for
his yearly checkups.

For as long as he can remember, Rodrick has been a patient in the "A" Clinic at St. Jude, where he has received treatment and follow-up care for Hodgkin disease. But today he begins a new adventure, visiting the After Completion of Therapy (ACT) Clinic for the first time.

T:15 a.m.

Rodrick hops out of bed and dons clothes carefully chosen for this special day. He waits impatiently for the 7 a.m. arrival of the St. Jude shuttle. "I like going to St. Jude because when I was sick, I went there and they helped me out," Rodrick explains. His mother, Ynetta Thompson, says he likes to go because "the nurses kiss on him."

Rodrick was a toddler when he made his first trip to St. Jude.

He had Hodgkin disease, a cancer rarely seen in children under the age of 5. After two years of treatment, his disease went into remission, and his checkups occurred every three months, then every six months, and then every year. Now the young cancer survivor is moving to the ACT Clinic, where he will receive care until he is 18 years old.

7:45 a.m.

Rodrick, his mother and his brother, Jeramie, arrive at the hospital and proceed through Patient Registration to Assessment Triage, where Rodrick endures a routine needle stick without flinching. "Now that I'm big, I don't cry when they stick me," he boasts.

Rodrick has grown and matured during the last seven years. In the past 40 years, St. Jude has grown and matured, as well. In 1962, less than 20 percent of patients survived treatment; today, more than 70 percent of childhood cancer patients live to adulthood. Through the ACT Clinic, St. Jude provides services to survivors, while gleaning research findings that will help tomorrow's patients. "Unlike other institutions, St. Jude follows its patients as they age," says Melissa Hudson, MD, clinic director. "That makes us different. We are able to monitor patients over long periods of time and get very accurate assessments on long-term outcomes."

9 a.m.

Deep in concentration, Ynetta fills out an ACT questionnaire that includes detailed information about Rodrick's health status and family history.

Meanwhile, Rodrick debates what he wants to be when he reaches adulthood. Should he be a police officer or firefighter?

Rodrick puts off the career decision when he hears his name called over the PA system. Dorothy Rogers in Echo/EKG is ready to test his heart function. When that activity is finished, Rodrick moves to another room where his lung capacity is evaluated. Next, he progresses to X-Ray, where he stands as still as a statue during lung X-rays. Hudson will use these and other test results to determine whether Rodrick's past therapy is causing adverse effects and to predict problems that may arise.

11:15 a.m.

With the tests completed, Rodrick and his family go meet their ACT social worker, Sally Wiard. "We're happy to have you in the ACT Clinic. It's a really good place to be because that means you're a survivor of cancer," says Wiard, who will delve into Rodrick's emotional, social, educational and financial concerns. She will also spend hours discussing community resources with him. "Before you graduate from the ACT Clinic, it's important that you learn all the things you need to know to be a healthy survivor of cancer," she says. Wiard gently quizzes

By Elizabeth Jane Walker

Rodrick about his lifestyle, emphasizing the importance of making healthy choices. Eventually, she will staff will closely monitor his heart, help him explore health insurance and access to medical care—two issues that often plague cancer survivors. "Do you think you want to go to college one day?" she asks. "Yes," he replies. "Well, there are some scholarships for people who are cancer survivors, and we'll be sure and talk about them," she promises.

After the social work appointment, the Thompsons greet Margie Zacher, data coordinator for the St. Jude Longterm Follow-up Study. She offers Rodrick the opportunity to participate in the study. "We not only track your progress to give you good quality care, but we also use information from the study to continue our research into late effects," she

that were taken in 1995. Hudson assures him that the ACT Clinic lungs and thyroid gland, the three organs most likely to be affected by his past treatment. "We'll be checking your progress every year to be sure that you are growing normally and go through puberty on time," Hudson says. "We're also going to teach you about what you can do to stay healthy after cancer therapy."

2:15 p.m.

At the end of a busy day, Rodrick and his family board the bus to go home. Next year, they'll come back again for another ACT checkup. In the meantime, ACT staff members will continue working with the hospital's 3,800 sur-

> Rodrick watches the computer screen during an echocardiogram as Dorothy Rogers, St. Jude echocardiology technician, explains the parts of the heart and why she's looking at each area. Later, Hudson expounds on the significance of the test: "Some of the medicines you had during your treatment may affect your heart, lungs or thyroid gland," Hudson says. "We're going to monitor you every year to be sure that your heart and other organs stay healthy.'



explains. Rodrick and his mother agree to participate and sign release forms.

Finally, the moment arrives when they meet Rodrick's new doctor. Before performing a physical examination, Melissa Hudson spends a half-hour discussing Rodrick's medical history and his prospects for the future. Hudson and Rodrick peruse his medical file, discussing radiation fields and smiling over photos of Rodrick

vivors, conducting research that may someday help Rodrick. One of the ways St. Jude is collecting that information is through their participation in the Childhood Cancer Survivor Study (CCSS). More than 1,300 patients who came to St. Jude between 1970-86 have joined CCSS, the largest childhood cancer survivor study ever conducted. This project encompasses more than 14,000 former patients from 25 institu-

tions. In addition to educating survivors and their community physicians, Hudson and her CCSS colleagues are acquiring new knowledge about the long-term effects of cancer and therapy. "I think it's important for institutions to combine their expertise and their patient populations in research initiatives like this one," says Hudson. "This study will give us a comprehensive look at what is happening to the survivors throughout the country." Hudson also uses the forum to share St. Jude educational materials and programs with patients nationwide.

February 2010

If all goes as planned, Rodrick will graduate in 2010 from the ACT Clinic. The day he becomes

> an alumnus, he will receive a special book called a Personal Health Record. St. Jude is the first center in the United States to present these books to alumni. Rodrick's book will include treatment summaries, copies of medical reports, recommended timelines for tests and screenings, and healthcare guidelines specifically created for him. The document

will give his physicians easy access to his medical information and to St. Jude. The book will also provide follow-up forms and phone numbers that Rodrick can use to keep in touch with St. Jude. Armed with his ACT education and his Personal Health Record, Rodrick can expect years of productivity as a healthy survivor of childhood cancer.



Bernie Doubler

The sky's the limit for this dedicated donor, who shares his money, his career and his heart with the children of St. Jude.

BY JOE HANNA

henever Bernie Doubler travels through Memphis, his path leads along the I-40 corridor, giving him a glimpse of St. Jude Children's Research Hospital. He looks toward the hospital and thinks of the children there who are battling deadly diseases every day, and he sends a little hope and love their way with

He can't see any of the children, of course. But he knows right where the hospital is supposed to be by heart. He can see it, even from 40,000 feet.

his thoughts.

Captain Bernard "Bernie" Doubler is a pilot for Delta Airlines. Quite often when he takes the helm of a Boeing 757 or 767, his flight path guides him over Memphis, giving him a literal bird's-eye view of St. Jude. "Every time I fly over Memphis, it is a reminder to me of the children and what they are going through and all the wonderful work the incredible people at the hospital are doing," he says.

A native Tennessean, Doubler remembers hearing as a child about the entertainer Danny Thomas opening a hospital in Memphis. His parents had always placed

great value on charitable giving, so when Doubler grew up he took St. Jude and a few other charities under his wing. "But St. Jude became my favorite," he

Every quarter for the past 15 years—that's 60 quarters—Doubler has continued what he calls his "giving streak," comparing it to the 56-game hitting streak of New York Yankee great Ioe DiMaggio.

In 1994, Doubler decided to visit the hospital for the first time. "I think the reason I was reluctant to come was because I thought I would see pain," he admits. Doubler witnessed just the opposite. "Instead, I saw healing," he says. He also came face to face with what he had helped accomplish.

He was preparing to leave the hospital, taking a shuttle bus to the parking lot when a patient and her family stepped aboard; he had met them earlier at a luncheon. The little girl's father sat down in front of Doubler. He turned around, looked Doubler in the eye and said, "Thank you for helping save my little girl's life."

"It was like a thunderclap," Doubler recalls. "It was one of the defining moments of my

life. And that happened on my very first visit to the hospital."

After that, Doubler felt a need to do more—to continue to visit the children. He thought he could visit with them and tell them about his job as a pilot, tell them how airplanes work, and—if only for a little while—make them forget that they were sick.

His presentation has evolved over the years and now includes video of the movie The Spirit of St. Louis, the story of Charles Lindbergh's flight across the Atlantic. He relates Lindbergh's dangerous—yet triumphant—journey to each of the patients' lives. "When Lindbergh made his epic flight ... he overcame many obstacles along the way and many dangers," Doubler says. He tells the children that he knows they are fighting long and difficult battles, "but if they can just be like Lindbergh and take it an hour at a time and a battle at a time, hopefully they can win the war."

Doubler enjoys being with the children and misses them when he is away. That's why he always looks in on St. Jude whenever he passes through the Memphis sky.

He could be watching right now.

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St. Jude cancer survivor Mickey Heffernan depicts a CT scanner surrounded by crimson lungs and cigarette smoke in his award-winning oil painting, "My Habitual Hypocrisy."

JUJ55 of Contention

St. Jude researchers search for ways to stop or prevent osteoporosis in Survivors of childhood cancer.

By Elizabeth Jane Walker

ickey Heffernan used to have a skeleton in the closet. As a result of participating in a bone density research project at St. Jude Children's Research Hospital, he now has one on the wall, as well.

A survivor of acute lymphoblastic leukemia (ALL), Heffernan knew that cigarette smoking could harm his lungs and heart and put him at risk for other kinds of cancer. But when he enrolled in a protocol studying bone mineral density, Heffernan learned that his nicotine addiction was literally leeching the calcium out of his bones. In response, Heffernan created an award-winning oil painting titled "My Habitual Hypocrisy" and redoubled his efforts to quit smoking. "My little skeleton in the closet was my smoking," admits Heffernan, who is studying art at the University of Arkansas, Fayetteville. "This painting was about my addiction to cigarettes and how it was pretty stupid."

When Sue Kaste, DO (Doctor of Osteopathy), of the St. Jude Diagnostic Imaging department began studying the bone density of childhood ALL survivors, she never dreamed that her research might inspire a work of art. She did hope that it would improve the quality of life for cancer survivors. Several years ago, the pediatric radiologist noticed that the bones of many St. Jude patients looked "washed out" on X-rays. "I wondered if my

Cheerleader and ALL survivor Lindsay Rosales is participating in the St. Jude bone density study. eyes were failing me or if, in fact, our kids had bone mineral deficits," Kaste recalls. Lower bone density might signal the early onset of osteoporosis, a silent bone disease that is not usually detected until late adulthood. People who suffer from osteoporosis have weak, thin bones that can break easily. Depending on the extent of bone loss, osteoporosis may be accompanied by severe pain, deformity, fractures and loss of height.

Bones at risk

In conjunction with endocrinologists and researchers from Hematology-Oncology and Biostatistics, Kaste studied 141 survivors of childhood ALL who had been off therapy for at least four years. Sure enough, the team found that the participants were at increased risk for developing osteoporosis. Sixty-eight percent of the patients had a bone mineral density below normal, and 14 percent of those survivors fit the criteria for osteoporosis.

Most people assume that osteoporosis is a disease of older women. But men are at risk, too. "My own dad actually suffers from adult onset osteoporosis," says Kaste. Using a process called quantitative computed tomogra-

phy (QCT), the St. Jude researchers found that boys actually experienced more bone loss than girls. In the past, patients received cranial and spinal radiation as a standard part of ALL treatment. The researchers discovered that children who had received these high doses of radiation had lower bone density, as did Caucasians and patients who had undergone intensive chemotherapy. Kaste found that the ALL sur-

adolescent has real-

ly gone down the

couple of decades,

and it's reflected in

tubes in the last

vivors were just like their peers of disease and treatment, you see across the nation: most of them kids who are actually getting oldwere "couch potatoes" who age bones at a young age," ate too few dairy products says Kaste. and drank too many sodas. "The overall diet of the average

Bone boosters

When St. Jude

opened its doors 40

the St. Jude population," observes

American teen-agers do not get the

minimum daily requirement of cal-

cigarettes, caffeine, sodas and alco-

cium. And few teens realize that

holic beverages are bad news for

bones. Also, a patient undergoing

therapy may not feel like exercis-

ing—another risk factor for osteo-

porosis. "When you take the nor-

mal adolescent lifestyle and then

you compound it with the effects

Kaste. About 70 percent of

years ago, only 4 percent of patients survived treatment for ALL, the most common form of childhood cancer. Today, with the survival rate at 80 percent, thousands of ALL patients

are reach-

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Cancer survivor Mickey Heffernan is surrounded by his paintings.

ing adulthood. "Now that we've been so successful with cures, we have to work on reducing the adverse effects of those cures," says Kaste. "It's sort of a double-edged sword. We're blessed with a large survivor cohort, but we're also plagued with some of the complications, and now we have to tackle those, too."

Armed with information they have learned about bone mineral loss in St. Jude survivors, Kaste and her colleagues are now looking at ways to solve the problem. Their current study will include about 535 ALL survivors. In addition to identifying other risk factors, the researchers are studying the role of genetics in bone mineral loss. They are using two methods of testing bone loss in these patients—QCT and dual x-ray absorptiometry (DEXA). The researchers are trying to find a way to reduce the loss of bone mineral in survivors, and to prevent that loss in future patients. To test the effectiveness of dietary supplements, half of the study's participants are taking calcium and vitamin D; all of the adolescents are receiving intensive nutritional counseling as part of the three-year project.

St. Jude researchers are also studying osteonecrosis, which is sometimes called "bone death" or "avascular necrosis."

"Osteonecrosis is usually an adult process," explains Kaste.
"Kids don't get it. Except for our kids—young patients who have had radiation therapy or certain medications such as steroids." Kaste says clinical care at St. Jude has been revamped so that clinicians are constantly looking for symptoms and risk factors associated with osteoporosis and osteonecrosis, and they are ready to spring into action if they suspect that a

patient is losing bone mineral.
"There are some modifications of therapy that can be done," says
Kaste. "We don't want to sacrifice cure, but we want to minimize the adverse late effects."

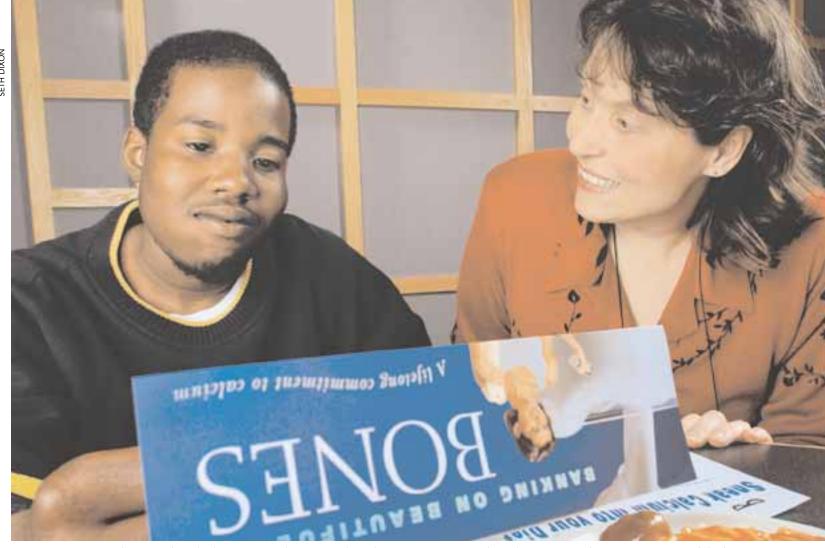
Healthy living for life

Nick Lawrence from Louisiana is one of those survivors who found out he was a 20-year-old with "old-age bones." He says he has changed his eating and exercise habits as a result of participating in the interventional study. "Now I eat a lot of cheese, cereal and ice cream," says Lawrence, "and I play basketball, do pushups and lift weights." Lawrence's calcium levels have increased after being on the study for a year.

Unlike most of her friends, 18-year-old Lindsay Rosales has always enjoyed calcium-rich foods and strenuous exercise on a regular basis. As part of her frenetic schedule, the high school senior from Illinois runs, lifts weights, volunteers at a local camp for cancer patients and serves as captain of her school's cheerleading squad.



Sue Kaste, DO, of the St. Jude Diagnostic Imaging department uses a process called quantitative computed tomography as one way to study bone loss in 535 survivors of acute lymphoblastic leukemia. Behind Kaste are CT Technologist Pam Henry and current St. Jude patient Chase Coleraine. What Kaste and her team learn about bone density may benefit Chase and thousands of other patients in the future.



Karen Smith, research and education coordinator in Clinical Nutrition, meets with Nick Lawrence of Louisiana as part of the bone density study. During the session, they discuss tactics for increasing calcium and vitamin D in the diet.

But in spite of her healthy lifestyle, Rosales' bone density levels were low as a result of the ALL treatment she completed in 1993. Her mother, Sue Ellen Patkunas, is thankful that Rosales was targeted for the research project. "They say that bones continue storing calcium through your 20s and 30s, so there's still time to do something for Lindsay," Patkunas says. "I'm glad they found this out, and that they're able to do this study."

Heffernan, a college freshman, says involvement in the osteoporosis protocol has transformed the way he eats. "I used to drink a lot of carbonated beverages, but I don't anymore. It's solely because of the study. Now I drink more milk, water and different kinds of juices, and I eat cereal in the mornings. Today, I came home from class and said, 'Oh, what to eat?'

and I thought, 'Oh, I'll have a grilled cheese sandwich!' So it's influenced me a lot. Before, I never really paid attention to what I ate. Now, I have to pay attention."

Tomorrow's survivors

Kaste and her colleagues are following about 2,000 survivors as part of their bone density studies. Juggling that much data is an enormous undertaking, but one that may yield life-changing results for survivors of childhood cancer. Information gleaned from the studies will eventually be used to help other St. Jude patients, such as children with solid tumors, bone marrow transplants and HIV/ AIDS. "It's a tremendous opportunity," says Kaste. "Seeing the impact that we've made in just a little over four years is very

rewarding, but very humbling at the same time. We've got a lot of work to do, and we are just chipping away at it."

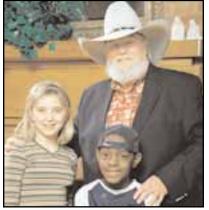
In the meantime, former patients like Nick Lawrence, Mickey Heffernan and Lindsay Rosales are doing all they can to help in the research—taking supplements, filling out nutritional questionnaires, and, in Heffernan's case, creating artwork that wins awards and sparks discourse. "One of the reasons I'm doing this study is because I feel like I'm giving back," says Heffernan, who began painting at the age of 4, when he was in treatment at St. Jude. "The people at St. Jude gave me so much. They saved my life. So if studies like this one pop up, I should do them. It's my small way of giving back.".

Perspective

A Place for Healing

Several years ago when I was asked to join the Professional Advisory Board at St. Jude Children's Research Hospital, I was delighted and honored.

I knew that some wondrous things were happening at St. Jude, but only after joining the board did I begin to realize and appreciate the scope of research and treatment taking place there. The best and the brightest populate the research labs, with programs in place to had successful surgery and am now cancer free. But I know the fear and worry that being told that you have cancer brings. I know what it did to me, and I'm a 65-year-old man. I can't imagine what it must do to the mind of a tender child and their parents. I feel that one of



Charlie Daniels takes a break from a Professional Advisory Board meeting to meet St. Jude patients Bayleigh Jones of California and Keyone Docher of Mississippi.

find treatments for sickle cell anemia, AIDS, leukemia, cancer and a myriad of childhood diseases that I don't even know the names of.

Of all the words in the English language, few are scarier than the word cancer. I know from first-hand experience, because last year my doctor told me that I had prostate cancer and it just knocks the props out from under you as your mind floods with all kinds of

"I know the fear and worry that being told that you have cancer brings."

By Charlie Daniels

job they've started.

horrible thoughts. Thank God I had successful surgery and am now cancer free. But I know the fear and worry that being told that you have cancer brings. I know what it did to me, and I'm a 65-year-old man. I can't imagine what it must do to the mind of a tender child and their parents. I feel that one of these days somebody is going to look into a microscope and say, "There is the cure for cancer," and it may well happen at St. Jude. And that's not just a dream. I remember when polio was one of the most feared diseases known to mankind.

But polio had a lot of enemies. People like Jonas Salk who refused to give up, no matter how many times they failed, until that blessed day when they discovered the vaccine. Well cancer, leukemia and all catastrophic childhood diseases have a lot of enemies, too. And many of them work at St. Jude Children's Research Hospital. They hate sickness and disease. They hate seeing children who can't have a normal childhood because of illness. They hate it, and they are doing something about it. Of course, all of this costs a lot of money. When I think about the absolute fact that money, or lack of it, could be the difference between precious children living and dying, it makes me want to do everything I can to make sure the good people at St. Jude have everything they could possibly need to finish the

One of my favorite stories, which happens to be true, is about a man who had a gold claim many years ago. He dug and dug and found no gold until he got disheartened and quit. One of his employees took over the claim and went back to work, only to discover a rich vein of gold one foot deeper than the former owner had dug.

My analogy is that it would be a world-class shame to stop a few million or billion dollars short of finding cures and treatments for suffering children. We don't want to stop one foot short of the gold, or the goal in this case. I believe in St. Jude, I believe that the motivation is pure and the love is real, and I will gladly be a part of anything I can to see that the great work continues.•

With my prayers, my support and my love, Charlie Daniels

A valued member of the St. Jude Professional Advisory Board, Grammy award-winner, author and actor Charlie Daniels is internationally renowned for his work in country, rock and gospel music. In addition to selling more than 13 million albums, he has garnered countless hits, platinum recordings and has published a book of short stories.



Talk about leaving your stamp on society. Australia has honored St. Jude immunologist Peter Doherty, PhD, by placing his image on a postage stamp. Doherty, who has worked at St. Jude since 1988, won the Nobel Prize for Medicine in 1996, an honor he shared with Rolf Zinkernagel of Zurich, Switzerland. The two laureates discovered how T-lymphocytes of the immune system recognize virus-infected cells. The stamp featuring Doherty is part of the "Australian Legends" series of postage stamps. In the past, Australian Legends series have included Olympic medalists, musicians, soldiers and artists. The 2002 series honors "five Australian scientists who changed the world."