## ife in th

my concrete floor. "Where am I?" She realized she was lying on a clamred lights, shrill sirens, loud voices Barbara Gerwitz's mind. Flashing Barbara asked. s THE SOFT, early-morning light and images swirled through touched her eyelids, sounds

said. "The drunk tank." "Marin County Jail," a woman

something happened. But what? driving along Highway 101. Then cisco supermarket. She remembered dimly recalled leaving her home in her job at an all-night San Fran-Petaluma, Calif., at 1:30 a.m. for A shiver ran through Barbara. She

and of drugs. ing under the influence of alcoho ing arrest, resisting arrest and drivbeen arrested on four charges: evad-A duty officer informed her she'd

pervisor for the San Francisco Municipal Railway. "Jim," she said in a quavering voice, "something really bad has happened to me." phoned her husband, a payroll su-Her hands shaking, Barbara tele-

police report. Dated April 10, 1989 lanes of Highway 101 at 1:55 a.m been weaving across the southbound it stated that her blue Honda hac Later, in court, Barbara saw the

> to be born with two "You've had the Barbara Gerwitz the doctor told major cerebral problems," bad luck

ern end of the Golden Gate Bridge. trance ramp. The police chased her at and re-entered the highway on an enbus-stop area, sped past a stop sign high speed for 12 miles and stopped At one point, she'd swerved across a her at the tollgates before the south-

she was under the influence of tions and mumbled incoherently." not blink or acknowledge my quesject stared straight ahead and did The arresting officer had concluded The report continued: "The sub-

cohol or a hallucinogen.
"Life's a Risk." The "something ed seven years earlier, in 1982, when bad" Barbara alluded to had start-

BY JOHN PEKKANEN

The doctor was far more concerned

night, the sound was louder. She feel a throb. water pulsating through a hose, in she heard a swooshing noise, like put her hand on her ear and could ing after climbing the stairs, she her right ear. Must be my heart pound-

the noise Barbara heard. gushes through under extremely high ies and veins are missing, and blood capillaries that normally link arteran AVM are thin and fragile, the gled knot of abnormal blood vessels and behind her right ear. An annormality in her brain, just above cal tests showed a lemon-size abpressure. The gushing blood caused bryonic development. The arteries in that forms in the brain during emformation, or AVM. This is a tanvessels, revealed an arteriovenous mal-X rays to show the brain's blood giogram, which uses special dyes and Over the next two weeks, medi-

only very small vessels emerged from artery came to an abrupt stop, and abnormality in her right carotid artery, one of the major arteries carit, delivering minimal blood. branching into two major vessels, the rying blood to the brain. Instead of The neurologist also found an

ing surgical removal too risky, in his opinion. "You'll just have to learn to live with this," he concluded. controls movement and sight, maktime and cause a brain hemorrhage, had always coped with any problem about the AVM. It could burst at any in her brain, in a critical area that he told Barbara. It was located deep From early childhood, Barbara

or challenge. Now, at age 35, she promised herself: "This thing is not ruin my life." going to get to me. I won't let it

into a daydream. They struck at She also had periodic "spacey" episodes, as if she'd suddenly lapsed suffered increasingly severe headaches and throbbing in her ear, Barbara and usually lasted only a few seconds. any time, even in mid-conversation, They left her feeling lighthcaded. Besides the relentless swooshing

Her doctors diagnosed "absence scizures" triggered by the AVM and prescribed medication. But it didn't help. The episodes continued.

closer, Barbara worried how Jim would react to her medical condiit off immediately. As they drew bara to Jim Gerwitz. The two hit In 1984, a friend introduced Bar-

that she could die at any moment. him about her AVM and the fear tion. One day, nervously, she told

one can predict the future." tion. He thought the strain of natchild. The doctor said Barbara could have a baby only by Caesarean sec-"This doesn't change my feelings for you," he said. "Life's a risk. No Later married, they hoped for a

and twice she miscarried. witz, seven pounds, 14 ounces, was On April 1, 1987, Travis James Gerforward; even her seizures stopped. A third time her pregnancy went

AVM. Twice she became pregnant, ural childbirth could rupture her

thought I'd have any of it."

Double Jeopardy. Then, in the "Things are going so well for me that I hardly believe it," she told a friend. "I have a nice home, a wonderful husband, a child. I never

early-morning hours of April 10, sented showed that while driving she tem. Instead, medical evidence pre-1989, Barbara was arrested and spent powerful absence seizure. Hence her the night in the Marin County Jail. bizarre behavior. The charges against had suffered an unusually long and nad no alcohol or drugs in her sys-In court, urinalysis results proved she her were dropped.

rolled back in her head, and she lost and legs flailed violently, her eyes tating type of convulsion. Her arms grand-mal seizure-the most devasurday afternoon, Barbara suffered a Two weeks later, on a quiet Sat-

treat your symptoms." her recover, but doctors told her, "There's nothing we can do except Strong doses of medication helped

supermarket job. stricted. Her medication was causduration. Her life grew more recoaster. Every 40 days or so she suf-fered seizures of varying types and had to cut down her hours at her ing constant grogginess, and she Barbara was on a medical roller-

a newspaper clipping about Dr. Gary "time bombs" in the brain. Immeback. "I think I can help you," he medical records, Steinberg called in Palo Alto. After asking to see her Stanford University Medical Center diately, she called Steinberg at the Steinberg, a neurosurgeon who was In the fall of 1990, Barbara saw

confidence that instantly put them at man of 38, he spoke with a quiet and met Steinberg. A wiry, intense Jim and Barbara drove to Stanford

brain, she also had a condition called moyamoya—Japanese for "misty." The artery, which, when enlarged, apto the AVM on the right side of her leading from the damaged carotid name derives from the tiny vessels He told Barbara that in addition

pear cloudlike on brain X rays. "You've had the bad luck to be nation of the AVM and moyamoya were probably caused by a combiborn with two major cerebral probing scizures, the physician continued lems," Steinberg said. Her worsen-

> rounding brain cells, Both had the capacity to irritate sur-

Barbara asked. "What's going to happen to me?"

a relentless, progressive disease." continued, "because moyamoya can be most likely increase," the surgeon danger of a stroke. "Your risk will or catastrophic; moyamoya put her in and the bleeding can be moderate AVMs bleed, Steinberg explained,

a separate new procedure for corered her AVM impossible to remove. Now, Steinberg's team was using refined surgical techniques for AVM removal. The doctor also mentioned fore, Barbara's doctor had considrecting her moyamoya. Iron Determination. Ten years be-

what you decide." be a long, hard pull. Let me know "These are both major opera-tions," Steinberg emphasized. "It will

could kill me tomorrow." do it," she told Jim. "This thing Barbara didn't hesitate. "I have to

tire left side was paralyzed. a major hemorrhagic stroke. Her en-Super Bowl party, Barbara suffered uary 27, while getting ready for a The AVM surgery was scheduled for February 6, 1991. But on Jan-

her on the phone. Jim quietly reas-sured her. "If you don't get better, I'll still be here for you." her room at Stanford University Medical Center or called to pray with Family and friends poured through

ed from a wheelchair to a walker. the end of February, she'd graduatbara plunged into rehabilitation. By With iron determination, Bar-

Dr. Steinberg rescheduled the AVM surgery for March 7.

took four hours. each one to close it. The procedure ed a small amount of bucrylate, simone of Steinberg's colleagues squirtto identify the major conduits that ed through Barbara's femoral artery they used a micro-catheter threadto lessen the risks of catastrophic bleeding during surgery. To do this, berg and his team had to shrink it ilar to household super-glue, into ing the catheter's trigger device steady, fed blood to the AVM. Then, hold Before removing the AVM, Stein-

off the larger ones he'd glued shut did so, he coagulated the small ves-sels shut and then clipped and cut totally spent. earlier. Five hours after he'd begun, and using tiny instruments, he caucatheter. Exposing a small area of Steinberg cut off the last vessel that tiously cut around the AVM. As he through an operating microscope shrunken malformation. Peering Steinberg gained access to the now-AVM but were inaccessible to a sels that also pumped blood into the berg's surgical team reassembled to he removed it, he stepped backpumped blood into the AVM. After Barbara's brain near her right ear, tackle the hundred or so smaller ves-A week later, on March 14, Stein-

turned home and plunged into reher head. By mid-April, she refirst time in nine years, she no longer eased, Barbara realized that for the had the swooshing and throbbing in Later, after the pain of the surgery

strength in her left leg to trade the May, she had regained enough walker for a cane. habilitation therapy. At the end of

good soon," she said. surgery, Jim and Barbara dropped driving to Stanford for the second long hug. "Mommy will be back for ing him, Barbara gave her son a big, Travis off at his school. Before leav-The Last Hurdle. On June 19,

to eliminate the danger of more to the right side of Barbara's brain challenge was to bring more blood jor surgery got under way. The The next morning, the second ma-

> were only five recorded cases of this strokes and seizures. Because there dure crucial to the surgery. on omental transposition, a proceversity School of Medicine, to assist. er performed it, he had asked Dr. and because Dr. Steinberg had nevnovel procedure in the United States, Goldsmith was a leading authority Harry S. Goldsmith, of Boston Uni-

wall. The omentum is rich in blood opened Barbara's skull. At the same tissue that hangs off the stomach time, Goldsmith surgically exposed her omentum, a large apron of fatty

nect aged. The plan was to conabdominal vessels are damto the right hemisphere of provide the needed blood her brain, where it would Goldsmith partially cut Barbara's omentum

away a strip of omental tisand over two feet long, leavsue about four inches wide ing one end attached to the

of Barbara's chest wall. He a series of cuts in the skin neled the graft under Barof the neck, he further tunneuvered the strip around the neck, Goldsmith maand slowly began to pull reached under the skin, the back of the right ear the graft upward. Near Using incisions in the skin

In the operating room Steinberg

blood-vessel growth when vessels and promotes new

stomach. Then Goldsmith made

> skull opening he'd made and gently of the right hemisphere. the omentum tissue through the bara's skull. Steinberg! then pulled positioned it over the entire surface

He then closed the skull opening. membrane surrounding the brain. berg stitched it to the dura, the our hours. he grafting had taken more than To hold the graft in place, Stein-

went very well. She's going to be what he'd been hoping to hear: "It news. Finally Dr. Steinberg relayed Jim had been anxiously awaiting Jim let out a long sigh of re-

> finally over, he thought. lief, and offered a silent prayer. It's

memory returned with new clarity. ther therapy, by spring she needed only her cane to walk outside. Her this year, abruptly stopped. With fur-Her seizures diminished and, early Barbara went home a week later.

"You're a regular mom now, aren't stroll, Travis turned to his mother. On a recent afternoon during a

I'm home to stay." you?" he asked, eyes sparkling.
"Yes, honey," Barbara said, with



## Quip Lash

to the car, my husband stuck his head out the door and yelled, "Break bit unsure of myself, I left early for church to practice. As I walked down ONE SUNDAY, I was called to substitute for our church organist. Being -Contributed by Edith M. Whyte

I was riding with my mother, sitting on the passenger side of her car. I noticed numerous smudges on the lower half of all the side windows and asked her about them. "We call those Stretch marks," she said. got a mixed-breed dachshund/beagle that they named Stretch. On a visit, AFTER MY BROTHER and I left home and were on our own, my parents

-Contributed by Jeffrey L. Wil

noticed that the meatballs were a slightly different color. "Grandma," my son asked, "are these your meatballs?"
"Yes, dear, they are," she said. "Grandma is now serving only fowl balls." FOLLOWING their doctor's advice, my parents were using more poultry in their meals. On a visit to their house for a spaghetti dinner, my children

-Contributed by Gizzla Woll

attendant that we now were being charged for something that had been free for years. "It's not my fault," he said. "It's inflation." machine had been replaced by one costing a quarter. I complained to the AT THE CAS STATION I frequent, I was perturbed to see that the old air

-Contributed by Alan Ball