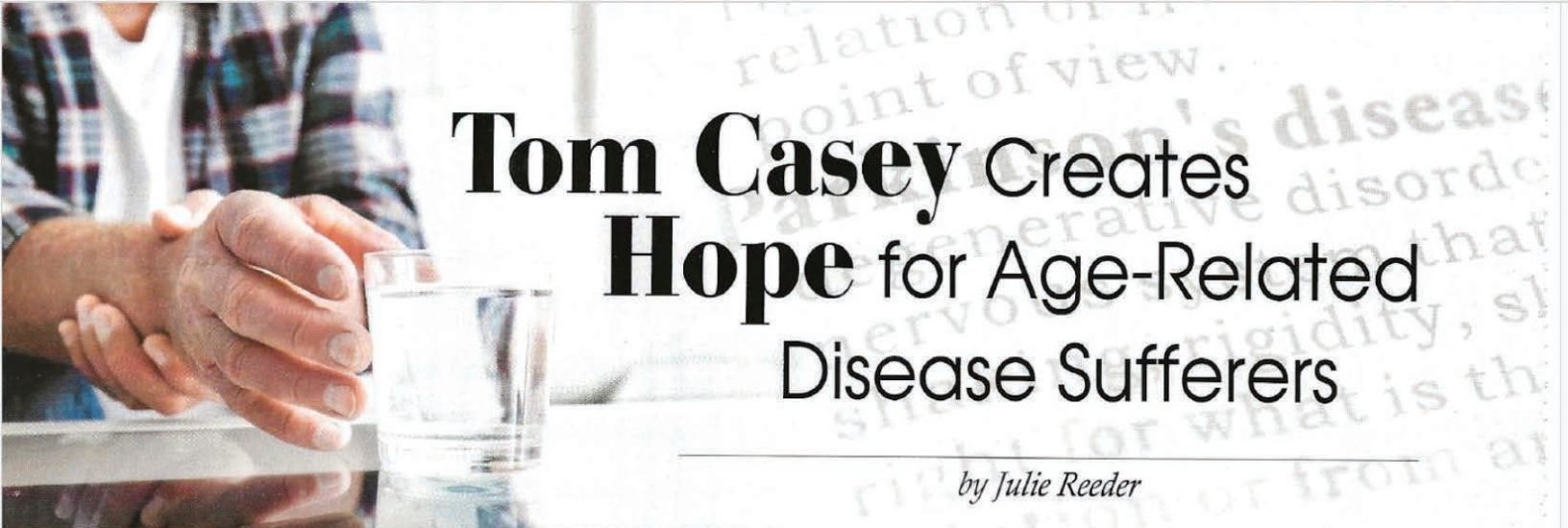


THE ENTREPRENEUR LIFE OF
THOMAS CASEY

HOPE



Tom Casey Creates Hope for Age-Related Disease Sufferers

by Julie Reeder

THE GREATER FALLBROOK AREA SOURCEBOOK

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When Rainbow resident Tom Casey's much beloved mother passed away from Parkinson's disease in 2001, his family's grief was furthered by their sense of frustration that nothing of any enduring effectiveness was able to be done to halt her steady decline from vibrancy to involuntary movements, depression and then, with her facial expressions long frozen, her death.

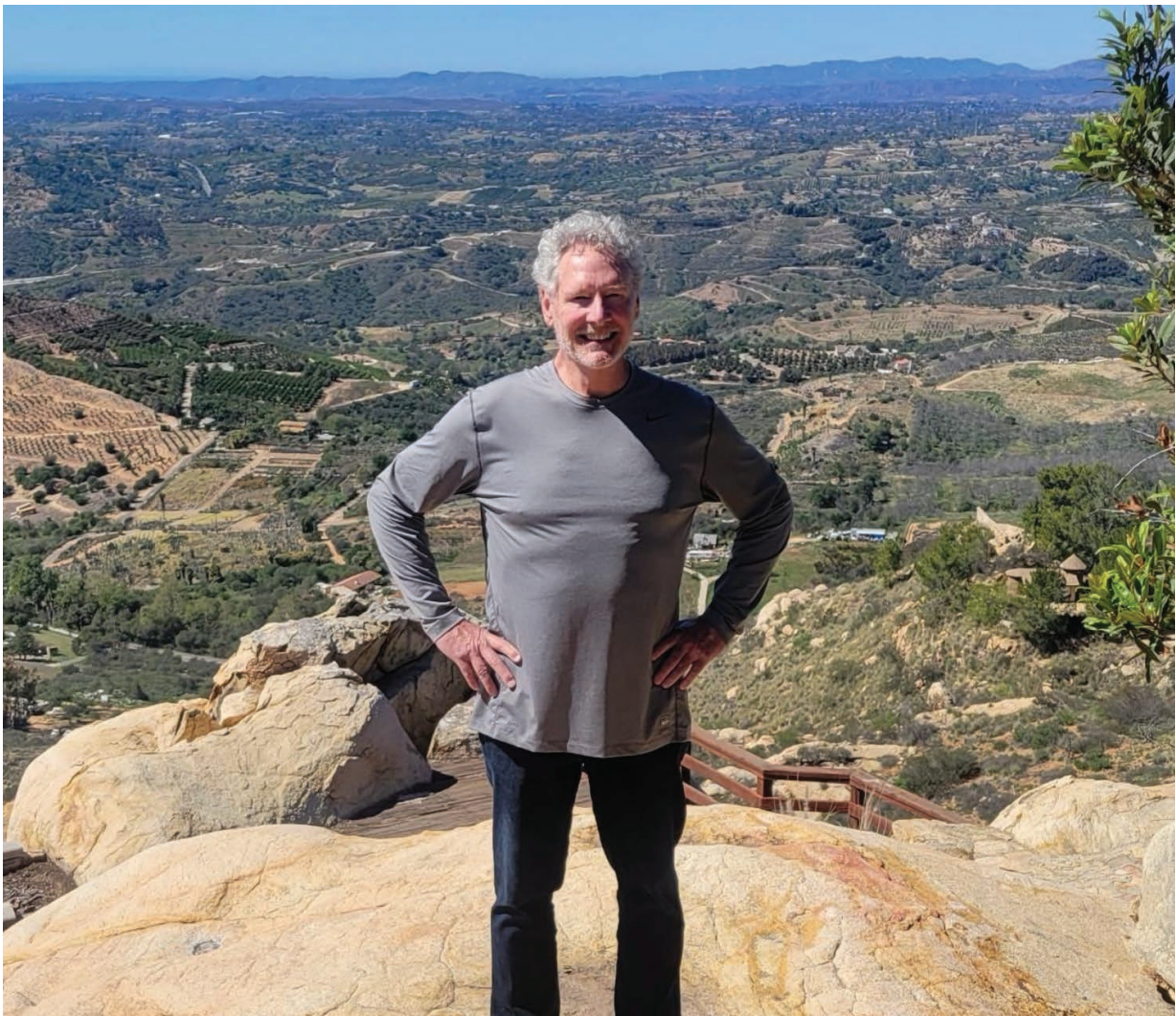
Now twenty years later, Tom is the initiator of the first Institutional Review Board approved placebo-controlled study to prove in 205 years that the *'Shaking Palsy'* James Parkinson described in 1817 can be significantly reversed. Casey explained, "Previous to my study, Parkinson's was primarily treated using medications targeted 'at' the motor dysfunction that enables the patient to physically perform as best as possible while the disease progresses."

His study is currently undergoing peer-review prior to its publication. He doesn't believe there has ever been anything preceding his plasma treatment that could provide so much hope to literally ten million sufferers to safely and simply restore their lives back to a semblance of normalcy. While his present achievement is personally unprecedented in its positive impact, Tom's path to this point has been filled with amazing accomplishments.

Tom entered medicine via the IV business after graduating from the University of Connecticut, becoming McGaw Laboratories' product manager (now B. Braun Medical) for IV, wound & urological irrigation, dialysis, pharm ad-mix, and small volume parenterals.

He then left McGaw at the age of 26 to co-found the world's largest compounding pharmacy/home infusion business that came to be known as Caremark. It is now known as CVS Coram. Coram currently administers 20,000 out-of-hospital infusions a month.

While Tom's time at his infusion company was relatively brief, he went on to become involved in the development of the world's first pulsatile heart-bypass machine and then served as an Officer and Director of an infection control division of Kema Nobel, Sweden (the first Nobel Prize in Medicine was awarded to convalescent plasma in 1901), before spending over twenty years as the CEO and Chairman of a public applied intelligence development company whose software was honored by placement in the UCSD Engineering timecapsule (to be opened on the University's 100th anniversary). In January 1993, Upside Magazine identified Audre Recognition Systems as the technology company with the greatest growth potential in the United States (Microsoft is #7).



Although Tom has been twice nominated for Entrepreneur of the Year and served ten years as a member of the UCSD Industrial Liaison Committee and a member of the UCSD Chancellor's Advisory Council, he also found time for Fallbrook.

Casey served as a member of the Executive Board of Directors of the Fallbrook Chamber of Commerce. During Tom's two years as the Chamber's Chairman of Government Affairs Committee, he developed a "Historic Initiative" economic revitalization strategy by authoring, documenting and legislatively passing California's designation of Historic Route 395.

He worked with local jurisdictions to install more than 120 signs along the 395 route in Southern California, including those that guide enthusiasts from San Diego to Riverside, traveling locally through Vista, Bonsall, Fallbrook, Rainbow and Temecula.

Tom established an alliance with the Fallbrook Historical Society in reaching an unprecedented agreement with the County to create a new classification of Historic Registrations that included 23 historic sites and buildings in and around Fallbrook, many of which form the core of our Historic Downtown District.

Additionally, while serving as the acting Chairman of a San Diego North Economic Development Council public policy hearing, Tom initiated a Transportation Impact Fee review that resulted in a reduction of the cost to open a new business within the County of San Diego.

It was the launch of UCLA's stem cell research program in 2005 that started Tom's long journey towards addressing Parkinson's.

Unfortunately, after many years of closely following the research to the point of almost establishing a stem cell clinic on the site of the former Santa Ysabel casino, Tom said it became understood that adult stem cells are tissue-specific and can only duplicate themselves, so their usefulness in disease fighting is, at best, limited.

Tom said, *"At that very moment of abandonment of my stem cell clinic, I read a research paper in May 2014 that turned it all around. It was titled 'Young Blood Reverses Age-Related Impairments in Cognitive Function and Synaptic Plasticity in Mice'."*

He said, *"The publication in Nature Medicine pulled together research by Stanford, Harvard and other prestigious institutes in proving what many had often thought about for centuries, that young blood (plasma) may be a fountain of youth."*

"In that paper, the researchers revealed that old plasma injected into young subject animals made their cells functionally old and plasma from young donors injected into old subjects made their cells functionally young," said Casey.

"Plasma, the most versatile component of human blood, contains an organically perfected mix of over 10 thousand individual proteins, 5 thousand different peptides, 1.8 billion exosomes per ml, 50 different gender specific hormones, 45 cytokines, enzymes and minerals." He continues, "The science of understanding the plasma proteome has advanced so far it is now understood that while we are physically programmed to age at very specific stages in our life's journey starting at 26, then reaching peaks at 34, 60 and 78, our plasma changes profoundly to control that aging to the point that it has now been shown that your age can become identified to an accuracy of within three years simply by reading its present composition, regardless of your size, shape or race."

He concludes, *"By simply infusing plasma from young sex identified donors between the ages of 18 – 25 into the sex and blood-type matched aging (the proteins most strongly associated with age also change significantly with sex), all the cells in their older bodies immediately respond by actively regenerating and restoring lost function, just as they did when young."*

Tom states that the benefits have been reported to last as long as two years. Casey's background in the IV business made him immediately recognize that not only has plasma been in use for 100 years, with the United States currently transfusing approximately 6,500 units per day. *"Unlike stem cells,"* he adds, *"plasma is an FDA approved biologic with an extraordinary history and record of safe use."*

The FDA published that in 2019 (their most recent data) only one plasma related and completely avoidable fatality occurred out of 2.1 million transfusions. There were no plasma related fatalities reported in 2020 and 2021.

In Nov. 2017, with Tom's knowledge and experience, he opened the world's first and presently only FDA registered and Association for the Advancement of Blood & Biotherapies (AABB), and CLIA fully accredited blood bank that exclusively collects young plasma.

While Casey continues to live in Rainbow, his business, Spectrum Plasma, Inc., is located in San Marcos, Texas. Tom's blood bank adjoins the very large campus of Texas State University from which it recruits its volunteer donors.

Spectrum Plasma has now filled prescriptions for hundreds of patients, including supplying young Fresh Frozen Plasma (yFFP®) to the Parkinson's disease study conducted at the Texas Medical Center: *"Young plasma infusions significantly improve clinical symptoms and UPDRS scores in patients with Parkinson's disease,"* noted Dian J. Ginsberg M.D., Principle Investigator.

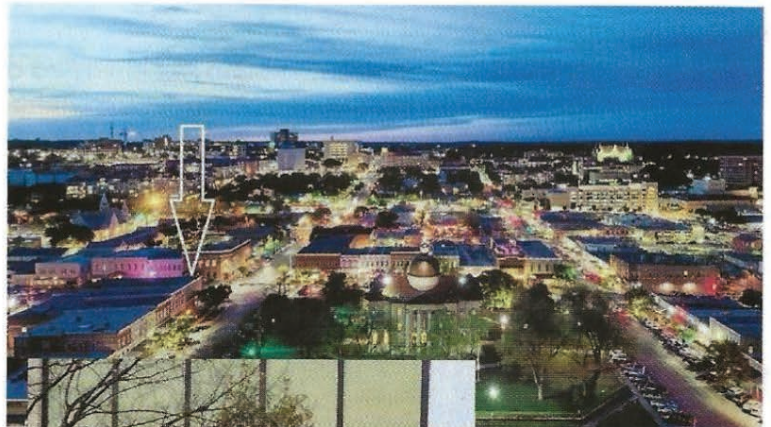
The Unified Parkinson's Disease Rating Scale (UPDRS) is the most widely applied rating instrument for Parkinson's disease as it includes 31 items contributing to three subscales:

- i. Mentation, Behavior, and Mood;
- ii. Activities of Daily Living; and
- iii. Motor Examination.

While this success is hopefully the first of many age-related advancements to be supported by Spectrum Plasma, this study, which Tom has dedicated to his mother, Ellen, will always be the dearest to his heart.



Our plasma donors are volunteers, although we do reward them with e-cards for their time to donate. U.C. Berkeley recently proved that frequent donations of plasma, once a week, promotes both neurogenesis and longevity.



Spectrum Plasma, Inc. in San Marcos, Texas is located on the town's historic downtown square. Texas State University is one block away, shown in the background.

Courtesy photos