

THE ENTREPRENEUR LIFE OF
THOMAS CASEY

RENEWABLE REGENERATION



RENEWABLE REGENERATION® THE PERFECT CIRCLE

Plasma from young donors is an organic, naturally renewable resource that is replenished through biological reproduction

YOUNG PLASMA TREATING AGE-RELATED CONDITIONS

In 2019, the most recent year of available data, people 55 and over in the United States accounted for 56% of total health spending, despite making up only 30% of the population. By 2030, every Baby Boomer will be age 65 or older, which means that 1 out of every 5 Americans will be of retirement age. Within just a couple decades, older people are projected to outnumber children for the first time in U.S. history.

90% of the nation's \$3.8 trillion in annual health care expenditures are for chronic conditions. Total national health expenditures are expected to reach \$5 trillion by 2025, according to the U.S. Census Bureau and the Centers for Medicare and Medicaid Services. National health expenditures

as a percentage of GDP will climb to 19.4% of GDP (approximately \$6 trillion) in 2027, according to annual estimates from the Center for Medicare and Medicaid Services. And a major factor in that growth will be the population aging into Medicare.

The use of young Fresh Frozen Plasma (yFFP®) as a youth factor replacement and regenerative therapy has been studied in four documented human trials, Stanford's AD & PD studies and the PD & MS studies conducted at the Texas Medical Center. Each of these studies intravenously administered approximately 2 liters of yFFP over a series of sessions that varied from two infusions over two days, to one infusion a week over eight weeks.



Since those studies, plasma exchanges that first remove old plasma and then replace the volume removed with yFFP have been proven to be safe and effective. Plasma exchanges of 1 and 2 liters of yFFP have been successfully performed, with the administration of 3-liters of yFFP within 30 days recently IRB approved and underway.

Young plasma is an available, organic, infinitely renewable and uniquely beneficial natural biologic collected from donors during their "Olympic" years. Plasma contains an organically perfected mix of over 10,500+ individual proteins (different fractions of albumins, fibrinogens, immunoglobulins, alpha-2-Macroglobulin, eNAMP, VPS35, etc.), 5K different peptides (including LL-37 antimicrobial peptide, GDF- 8, GDF-11 growth and differentiation factors), 45 cytokines (including Interferons), 1.84 billion exosomes per ml, 50 different sex specific hormones, enzymes and minerals. Providing 55% of its volume, plasma is the most versatile component of human blood.

The infrastructure to collect, test and distribute yFFP is already in-place. Education is the essential

impetus to immediately implement Renewable Regeneration programs within individual communities.

Understanding the plasma proteome has advanced so far it is now understood that we are physically programmed to age at very specific points in our life's journey and that our plasma controls that aging process. Aging starts at 26, then progressively accelerates at the ages of 34, 60 and 78. The composition of plasma changes so profoundly during that programmed-process, it has now been shown that an individual's age can become identified to an accuracy of within three years by reading its present composition, regardless of the sex, size, shape or race of the individual.

Science has proven that by simply infusing or exchanging 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.




THE DILUTION SOLUTION™

Research over the past three years has now shown that frequent donations of plasma promotes neurogenesis and longevity, even in the young. Four plasma donations in a month are the therapeutic volume equivalent of a \$8,500 total saline-albumin total plasma exchange (TPE) that has been proven over fifty years to clean the blood and dramatically reduce systemic inflammation, while stimulating the body to beneficially resurge and heal.

It is now recognized that young individuals who donate plasma weekly may entirely avoid developing the very inflammatory diseases that

are rampant within older generations. Renewable Regeneration not only addresses the existing problems of age-related conditions, but it also stops age-relating conditions from continuing to form.

Older generations can themselves employ frequent donations of plasma to minimize their own inflammatory conditions, with those donations then used to support hospital volume replacement and clotting requirements, and to provide pharmaceutical companies with plasma they can fracture into raw materials for production purposes.



SPEC PLASMA
MAKING LIVES BETTER®

YOUR PLASMA IS HEALTHFUL TO DONATE FREQUENTLY

IT PROMOTES NEUROGENESIS AND LONGEVITY

PLASMA IS HEALTHY FOR OTHERS TO RECEIVE

A NATURALLY RENEWABLE CYCLE - THE PERFECT CIRCLE

THE DILUTION SOLUTION™

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REMOVE & REPLACE®

The second revolution will be in the mass provision of “triad treatments” during weekly 60 – 90 minute plasma collection sessions performed at local “remove & replace” spas that incorporate young plasma in rotation with other replacement IV solutions. yFFP can also be administered in-parallel during those sessions via micro-needling the donor’s hair-face-hands and locally injecting painful joints, etc.

The continuous balancing of the patient’s biome & hormones form the other two elements of the triad, managed by blood and stool samples that can be taken regularly to insure responsive

treatment adjustments and supplementation.

We know weekly dilution of plasma reduces inflammation and promotes longevity. A balanced gut and hormones, along with yFFP’s youth factors (with yFFP a significant contributor to both biome and hormone balance) promotes regeneration, lowered inflammation and good health. The efficiencies and efficacies attainable through affordable, 60-90 minute weekly plasma-collection sessions that incorporate “remove & replace” treatments will revolutionize the treatment of aging.

KEEPING IT SIMPLE SAFE SCIENTIFIC®



SPECTRUM PLASMA
MAKING LIVES BETTER®

OPINION:

LONGEVITY IS BEST INITIATED WHILE YOUNG

THOMAS F. CASEY

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May 27, 2023 - Medical evidence is now indicating that we have an immediately realizable opportunity to treat chronic age-related conditions more successfully. As budget debates once again take center stage in our nation, chronic conditions currently account for 90% of the United States' health care costs, which are expected to reach \$5 trillion by 2025. With universal recognition that the United States has the most expensive medical care system in combination with the poorest outcomes of any industrialized country, something dramatic needs to be done – and the optimal place to start is at the beginning, with our youth.

There is no denying that longevity is best initiated while young, especially before dietary and lifestyle factors prompt what now is conceded as almost inevitable, our resultant immune-system decline. Harvard Public Health's March editorial warned of the importance of protecting our citizens from ultra-processed and preserved foods, and from protein sources infused with hormones and antibiotics, estimating that about 678,000 Americans die each year from food-related illness. Without dietary changes, the scourge of chronic inflammation is expected to continue, as are increases in the devastating resultant conditions such as cancer, diabetes, heart disease, and neurodegeneration.

For fifty years, severe immune system inflammation has been successfully treated through plasmapheresis, a dialysis-similar procedure where a prescribed volume of an individual's plasma and its inflammatory particles, toxins and other harmful substances are removed and replaced by saline, or a combination of saline with a plasma protein, albumin. This process is employed by more than 450 hospitals in over 30,000 treatments each year. Most significantly, an average of 150,000 plasma donations are collected each day nationwide, and therein lies our most realizable longevity opportunity: To stop the healthcare deficit-cycle by starting with protecting our young from ever developing severe systemic inflammations.

Unlike many disruptive changes, the infrastructure to collect and administer plasma is already in place. Four weekly donations of plasma are the volume equivalent of a therapeutic plasma exchange. The United States has an immediate opportunity at more than three-thousand plasma collection centers nationwide to regularly detoxify ourselves.



Harvard's Center for Biology of Aging recently proclaimed that "biology is 99 percent software" with programmed aging at a "hardware" level (cell & tissues) driven by components in our constantly age-evolving plasma. Science is now epigenetically proving that simply infusing or exchanging plasma from young, sex-matched donors between the ages of 18 and 25 into older subjects significantly slows the recipient's cellular rate of aging.

Older generations can themselves employ frequent donations of plasma to minimize their own inflammatory conditions, with those donations then used to support hospital volume replacement and clotting requirements, and to provide pharmaceutical companies with plasma they can fracture into raw materials for production purposes.

Plasma is safe and healthy for individuals to donate frequently. Plasma collected from young donors could easily be directed to treat age-related conditions economically and effectively while 80% of our plasma, that collected from individuals 26 and older, continues to supply traditional channels.

Blood plasma is an organic, renewable resource whose frequent donation and use forms a perfect circle for better health.

Investigational young Fresh Frozen Plasma (yFFP®) Treatments Study YP042022

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GOLDEN GIFT



The Golden Gift is a 501(c)(3) Public Charity

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