



Transfer Factor: State of the Art Immune Fortifier

By Rita Elkins MAMH

Is it possible to raise your immune IQ? Can you add messenger molecules to your immune memory banks making them more vigilant? Welcome to the world of Transfer Factor.

Imagine an immune system alert enough to rapidly detect the presence of a threatening infection and eradicate it before it has a chance to flourish. Too good to be true? At this writing, molecules called transfer factors are turning science fiction into fact.

Relatively new to the market, Transfer Factor (TF) is turning the heads of health professionals everywhere and for good reason. TF is in a therapeutic league of its own.

TF is not a vitamin, mineral, herb, hormone or drug, and its possibilities appear to be endless. Why? Because it uses a sophisticated molecular delivery system to boost immunity. When it comes to health maintenance, it's a whole new ball game folks.

TF isolate supplements are currently available to the general public. Why now? Because obtaining a pure transfer factor isolate is currently possible through the perfection of a patented extraction process which has been in the works for years.

Transfer Factor XF™ by 4Life Research™ is extracted from the colostrum of Grade A dairy cows. 4Life™ has licensed the patent which identifies transfer factor in colostrum and the exclusive and proprietary method for extracting transfer factor from colostrum (US Patent 4,816,563).

“Other products advertising the inclusion of transfer factors, but none of them have been produced with an exclusive patented extraction process which makes this product more varied and concentrated,” says Kenneth Singleton a physician and strong advocate of TF.

Evidence-Based Medicine

“Show me the data” said Duane Townsend, a renown gynecologist/oncologist who after seeing the studies and using TF, thinks it's the best thing since sliced bread.

To date, over 3,000 clinical studies and papers have been published on transfer factors. Scores of international, well respected scientists and physicians have established the effectiveness and safety of transfer factors.

Over the last fifty years, an estimated \$40,000,000 has been spent on research and study data strongly suggests that transfer factors offer extraordinary immune benefits.

Transfer Factor: How Does It Work?

“Transfer factor is an all-natural substance that works by teaching your own immune system to recognize disease organisms that enter your body every day.

William J. Hennen, Ph.D. Biochemist
Simply stated, by taking TF, we borrow immune memory from a compatible source, the cow, which has already experienced hundreds of infectious organisms, so when we encounter any of these organisms, we have a profound advantage.

Our immune forces can skip the identification and recognition stage, which is the time we normally become ill, and go directly to the attack mode, or secondary stage of defense.

A Healthy Immune System is Based on Its Ability to:

Recognize! React! Remember!

1. Recognize a disease-causing organism for what it is.

2. Organize and mount an attack to eradicate that organism
3. Remember the antigen signature of that organism so the next time it invades, an immediate response occurs

OTF Steps Up Recognition

Transfer factors are tiny immune messenger molecules — a sequence of amino acids that impart immune signals between immune cells. Transfer factors educate naive cells to single out invaders more quickly.

A 1996 issue of Biotherapy reported that transfer factors can stimulate a response in less than 24 hours.

OTF Shortens Immune Response Time

TF downloads extra info into immune memory banks. It provides T-lymphocyte cells a blueprint and immune markers to mount a swift attack, cutting down the time they take to fight infection.

TF Improves The Ability of Immune Cells to Remember

Transfer factors help the immune system widen its storehouse of antibodies which helps to expand immune memory to better remember and deal with future infections.

Targeted Transfer Factor From an Egg Source

4Life Research has now identified a way to target the power of transfer factors to specific body systems. An exclusive patent (pending) for obtaining specialized transfer factors from egg sources is in the works. These avian sources acquire their advanced immune knowledge after experiencing unique environments that have been specifically tailored to bolster immune function in particular systems throughout the body—such as the cardiovascular system. These specialized transfer factors are then

"The toll of several diseases, such as cancer, continues to rise and the pathogenesis of AIDS remains elusive," researcher Dr. D. Viza who was speaking about the potential of transfer factor at a recent symposium on transfer factors was held in Italy.

extracted and concentrated, providing each of us with targeted nutritional support that is literally unprecedented in the health industry today.

Targeted TF for Heart Health: The Cardio Edition

- Protects and strengthens the heart muscle
- Supports healthy peripheral blood flow
- Maintains elasticity of blood vessels
- Supports healthy homocysteine levels
- Maintains healthy arteries and veins

The Possibilities of Designer Transfer Factors are Endless

This broad and basic patent facilitates the continued formulation of transfer factor products that provide targeted nutritional support. Additionally, this original patent protects 4Life's exclusivity within the transfer factor market and secures our opportunity for expanded patents with future development.

The Results of a Recent Independent Study of Transfer Factor

In February of 1999, the Journal of the American Nutraceutical Association published a selection of 196 natural products or combinations, selected from over 400 products tested. Forty-four products were found to significantly enhance natural killer cell activity. The most powerful of these was able to increase NK cell action by 48.6 percent.

Transfer factor from colostrum was tested individually and raised natural killer cell activity by an extraordinary 103 percent above baseline values. If that wasn't impressive enough, when Transfer Factor was combined with a variety of other natural compounds that also support immunity, it increased natural killer cell activity by 248 percent above baseline values!

Source: Life Extension Institute, 1999

TF Plus: The Double Whammy

While transfer factor isolate alone has extraordinary properties, adding certain immune-boosting phytochemicals, vitamins and minerals can make a good thing even better. Clearly, a pure

transfer factor extract should be the basic building block for superior immune function, but adding complimentary compounds (herbs rich in immune-supporting polysaccharides makes for a multifaceted immune supplement. In other words, TF Plus broadens the immune shield of transfer factors through the mutual action of selected immune-friendly substances.

TF Fights Viruses-in-Hiding That Evade Diagnosis

Are Microorganisms Causing MS?

Recent data out of the National Institute of Neurological Disorders and Stroke suggests that a herpes virus was found in 30% of people tested with MS.

TRANSFER FACTORS FIGHT VIRAL INFECTIONS THAT ATTACK THE NERVES

A Bug That Makes You Fat

Before you go on yet another diet, consider this. Researchers at the Department of Nutrition and Food Science at Wayne State University in Detroit reported in August of this year that increased fat stores have been linked to the presence of a virus.

TRANSFER FACTORS CAN TARGET AND FIGHT HIDDEN VIRUSES BY REVING UP IMMUNE FUNCTION.

Infections Masquerading as Heart and Kidney Disease

In the August, 2000 issue of the American Journal of Medicine, scientists reported that the Hepatitis C virus can show up as a kidney infection or as heart disease or atherosclerosis.

TRANSFER FACTOR SUPPLEMENTATION CAN "PRIME" THE IMMUNE SYSTEM WHICH MAY PROTECT ORGANS LIKE THE HEART FROM INFECTIOUS AGENTS.

Is Arthritis Really An Infectious Disease?

Dutch scientists recently reported that chronic arthritis may have a bacterial connection or may be triggered by a prior infection that over-stimulated immune responses.

TRANSFER FACTOR HAS BEEN USED IN THE TREATMENT OF JUVENILE ARTHRITIS WITH GOOD EFFECT. IT CONTAINS SUPPRESSOR FACTORS THAT QUIET AN OVERACTIVE IMMUNE SYSTEM.

Epilepsy Linked to Abnormal Immune System Cells

In 1997, a group of scientists looked at a total of 135 people with epilepsy. More than 80 percent of these people had one or more abnormalities in their cellular immune defenses.

TRANSFER FACTOR SUPPLEMENTATION STRENGTHENS THE CELLULAR IMMUNE SYSTEM AND MAY BE A VALUABLE SUPPLEMENTAL TREATMENT TO CONTROL EPILEPTIC SEIZURES.

Alzheimer's Disease Linked to The Immune System

An article in a 1994 issue of Progress in Drug Research reported that Alzheimer's disease may be linked to an abnormal antibody response to a portion of nerve cells in the brain.

IN ONE STUDY OR TEST SUBJECTS WITH ALZHEIMER'S DISEASE, TRANSFER FACTOR SUPPLEMENTATION RESULTED IN CONSIDERABLE IMPROVEMENT IN THE SPEECH AND LEARNING ABILITY OF 6 OUT OF 9 PEOPLE.

Antibiotic Resistance and Super Bugs

"Bacterial resistance to antibiotics is a growing public health threat to the United States,"
Richard Besser, M.D., of the CDC's respiratory disease branch.

A March 11, 1998 issue of USA Today reported: "At least 70% of the bacteria that cause hospital-acquired infections are resistant to at least one antibiotic."

If antibiotic resistant bacteria continue to evolve at the present rate, having a strong and fortified immune system may be your families only defense against a whole host of life threatening diseases.

TF and Cancer

"All our cancer patients are on transfer factor. It really buoys the immune system up. You're looking at a product that is truly revolutionary. I think we have a duty to get the word out, to make people healthier, and to enjoy life more. My patients are doing it; we need more people doing it."

Dr. Duane Townsend, Gynecologist & Oncologist, SLC, Utah.

FACT: According to some experts at the National Cancer Institute, we are losing our battle with cancer because we've been on the wrong track. Prevention rather than cure should become our new emphasis

Cancer is allowed to grow because our immune surveillance system falls asleep.

"For cancer to start and then continue growing, it must outmaneuver the many long arms of your immune defenses. The immune system is both your first and last defense against cancer."

John Bailer, M.D., Ph.D., former editor-in-chief of the Journal of the National Cancer Institute

Because many of us cannot avoid exposure to pollution, pesticides, additives, ultra-violet rays, etc. it is crucial that we boost our natural immune defenses to protect us against cancer.

Transfer Factor Support During Chemotherapy

Cancer patients who are undergoing chemotherapy or radiation, which greatly weakens the immune system, can greatly benefit from taking transfer factor supplementation. Transfer Factor supplementation serves to protect the body from "opportunistic" infections, which

often occur during these treatments.

The Unique Dual Action of Transfer Factor

Transfer factor isolates contains immune modulators made up of both ACTIVATORS AND SUPPRESSORS, which not only serve as a wake up call to immunity, but also help to normalize and balance an overly aggressive immune system seen in autoimmune diseases.

In 1976, Transfer factor pioneer, H. Sherwood Lawrence looked in the potential of Transfer Factor for people with autoimmune disorders. Today, Transfer factor can be used to treat various autoimmune conditions because it serves to modulate and normalize immune response.

TF: Changing the Course of a Child's Health

"We have given transfer factor to children as young as three weeks old . . . So far we have been absolutely blown away by the results."

David Markowitz, a Pediatrician — uses TF in his practice.

FACT: Children have immature immune systems making them prone to infections that easily spread in day-care and school settings.

FACT: Children often eat diets high in sugar and low in nutrients necessary to support immunity.

FACT: Ear infections in children are increasing with heavy reliance on antibiotic drugs that are failing to control recurring infections.

FACT: Antibiotic overuse in children causes compromised immunity and the development of antibiotic-resistant bacteria and has been linked to ADHD and learning disorders

"Eighty Eight children who used transfer factor daily at the recommended doses for six or more months were compared to same aged and same sexed children who did not use transfer factor and their illness and antibiotic use were compared. We found in this retrospective study a 74% reduction in reported illness and an 84% reduction in antibiotic use . . . I've been amazed, but not surprised, because I've seen the research on transfer factor."

David Markowitz Pediatrician

Child-friendly Transfer Factor is benign, completely safe, tasteless and easy to take. Transfer Factor can be safely given to infants as young as three weeks old.

Autism and TF

Autism may be caused by exposure to a virus (especially rubella) to the immature immune system of a child or may result from an abnormal reaction to a live virus vaccine in certain susceptible children.

Of 22 autistic children treated with transfer factor supplements, 21 responded favorably. Ten of the children improved both emotionally and mentally that they were able to enter mainstream schools

TF for Juvenile Rheumatoid Arthritis

Japanese research reports that transfer factor supplementation benefitted children with Juvenile Rheumatoid Arthritis who did not respond to high doses of steroids and immunosuppressants.

TF for Juvenile Diabetes Mellitus

In 1996, scientists reported that the inducer and the suppressor actions of transfer factor preparations may explain its long lasting anti-diabetic effect.

TF for the Elderly

When it comes to beefing up deteriorating immunity, Transfer Factor can turn back the clock. Consider the fact that hundreds of studies tell us that immune vigor declines with age contributing to increased infection and even death.

Transfer Factor Supplementation Is Highly Recommended for:

- Epstein Barr: Chronic Fatigue Syndrome
- Herpes
- Hepatitis
- Bladder Infections
- Salmonella
- Fungal Infections

- Parasitic Infections
- Bacterial Infections
- Viral Infections
- Autoimmune Disease

TF: An Ounce of Prevention . . .

The most provocative promise of Transfer Factor is prevention. Unfortunately, most people wait to “catch” something before they give their immune system extra help. TF provides a way to get a jump on illness by dealing disease a knock-out punch before it strikes.

Remember that every human being houses a multitude of bacteria, viruses and even malignant cells that never pose a threat because a well-operating immune system is doing its job.

Why We Need To Take Transfer Factor Every Day

- International travel
- Camping
- Daycare
- Nursing homes
- Hospitals
- Workplaces
- Pollution
- Additives
- Pesticides
- Antioxidants
- Contaminated water and food
- Carcinogens
- Stressful lifestyles
- New strains of bacteria
- More potent viruses, etc.

Studies strongly suggest that taking transfer factor supplements before an infection has a chance to take hold gives the recipient the best chance to overcome that infection more rapidly.

In addition, at the first sign of sickness, stepping up the dose of a transfer factor supplement or using it in combination with other immune-boosting compounds provides an optimal therapeutic effect.

Safety of Transfer Factor in Supplement Form

Transfer factor supplementation has an excellent safety record. No adverse side effects associated with transfer factor supplements have been reported even when given in high doses both orally and intravenously over long periods of time.

Transfer factor supplements are safe for everyone from infants to the elderly. Placed in carri-

er agents, oral supplements are easy to take, tasteless and well accepted by anyone regardless of age.

Keep in mind that since 1949, transfer factors have been studied extensively. The overwhelming consensus is that transfer factors taken in supplement form, can relieve suffering and do so in a perfectly safe way.

Who Can Take a Transfer Factor Supplement?

Transfer factors are safe and effective for men, women and children of all ages.

Infants * Athletes * Older Individuals * Children * People Who Catch Everything That Comes Along * People With Chronic Diseases * Anyone Undergoing Chemotherapy * People Who Have Had Surgery * Anyone Wanting to Lower Their Risk of Disease

Even Pets Can Benefit From Transfer Factor

“Transfer factor have been a remarkable addition to my veterinary practice. It is an amazing immune booster that provides support for so many conditions that animals can have.”

San Jones DVM

Pets are just as susceptible to infection as we are. Using transfer factor therapy for pets is an excellent way to fortify animal immunity and health. As mentioned, the transfer factors extracted from cow colostrum are not species specific. Dogs, Cats, Horses, etc. can benefit from their immune codes as well as humans can.

Because transfer factors are so safe, they offer a convenient way to protect your pet against harmful microbial threats. Transfer factor supplements are especially beneficial for animals who have been injured, are old, or seem prone to certain types of infectious diseases. They have been used in dogs, cats, horses and other mammals.

Is Transfer Factor an Allergenic?

Remember that transfer factor concentrates do not contain the large proteins that are responsible for milk allergies. Look for transfer factor products that are obtained from high quality milk-producing herds in the United States and

are strictly controlled to ensure excellent quality and safety. The patented process on record in which lactose and large milk proteins (proteins that cause milk allergies) are removed has been proven to be effective in producing a high quality transfer factor isolate.

Rita Elkins Bio

Rita Elkins has worked as an author and research specialist in the health field for the last ten years and has a strong background in both conventional and alternative therapies. Her interest in alternative medicine led to her career as a health reporter and author for Woodland Publishing. She has authored *The Complete Home Health Advisor*, which combines standard medical treatments with holistic alternatives for more than 100 diseases, *The Pocket Herbal Reference*, *The Complete Fiber Fact Book*, *Herbal Emergency Guide* and various booklets exploring the documented value of substances like HGH, Noni, Blue-Green Algae, Pycnogenol, Stevia and many more. She is frequently consulted for the formulation of herbal blends has belonged to several medical advisory boards and works with physicians who contribute to the formulation of natural therapies. She is a regular contributor to *Let's Live* and *Great Life* magazines and has hosted radio talk shows on natural health topics. She lectures nationwide on the science behind natural compounds and collaborates with medical doctors on various projects. Her publications and lectures have been used by companies like Nature's Sunshine, 4Life Research, Enrich, NuSkin and Nutraceutical Corporation to support the credibility of natural supplementation. She has recently co-authored *Soy Smart Health* with Neil Solomon, MD and Richard Passwater PhD which was awarded Book of the Year by Foreword Magazine and just released *Solving the Depression Puzzle*. Her enthusiasm for alternative therapies is evident in her technical writing and speaking skills, and through her investigative methods. Ms. Elkins resides in Orem, Utah, is married and has two daughters and two granddaughters.

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