

Jeunesse Inc. Institute of Longevity Medicine
Darryl See, M.D. Director, Bioassay Laboratory

Preliminary Report
(additional test results to follow)

Transfer Factor™ Testing

Background and rationale: 1) Cancer is the second leading cause of death in the US. The rate of nearly every type of cancer is on the rise. Despite billions of dollars in research, the mortality rate has remained nearly unchanged since the 1960's using conventional treatments such as radiation, surgery and chemotherapy. Thus, there is considerable interest in using immune modulation as an adjuvant for cancer therapy. Natural killer cells are particularly important in destroying cancer cells.

Purpose of study: 1) To determine the in vitro anti-cancer effects of Transfer Factor™ and Transfer Factor Plus™ using PBMC isolated from human volunteers and assaying the increased ability of the NK cell population to kill K562 erythroleukemic cells.

Methods: 1) PBMC killing of K562 (erythroleukemic) cells

Results: 1) Transfer Factor™ increased NK-cell killing by 103%
Transfer Factor Plus™ increased NK-cell killing by 248%

Conclusions:

Transfer Factor™ and Transfer Factor Plus™ induced immune-based lysis of K562 cells at a level unprecedented in the director's experience or in the known medical literature. Since NK cell function is so crucial in killing cancer cells, these products are ideal candidates for cancer adjuvant therapy. In addition, NK cells form a first line of defense against infections from viruses and certain other microorganisms. Killing assays against K562 cells have also been correlated with increased activity against chronic and acute infections as well.

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Nutraceutical induced increase in Natural Killer cell activity	
Nutraceutical	% Rise in Natural Killer cell activity
Transfer Factor Plus™	248 %
Transfer Factor™	103 %
IP6 (<i>highest of group previously tested</i>)	49 %
Plant Polysaccharide Formula	48 %
Echinacea	43 %
Shiitake Mushroom	42 %
Cordeceps Formula	28 %
Bovine Colostrum	23 %
Phytonutrient Formula	21 %
Endocrine System Formula	16 %
Aloe Vera Concentrate (acemannan)	15 %
Noni (Morinda Citrafolia)	15 %

Note: Over the years, Jeunesse Inc. has tested 196 nutraceuticals. 152 of these products increased effectiveness from 0 to 10%. Only 44 products did better than 10%. 40% of these products were too toxic to use without caution. Until now, IP6 showed the highest increase at 49%. Transfer Factor™ has been shown to be the most powerful product on the market, with a toxicity level of ZERO.

Transfer Factor Study with 20 Cancer Patients

Darryl See, M.D. conducted the following studies.

Twenty patients, 12 men and 8 women, were selected for this in vivo study. The average age was 49.3. The twenty individuals were each level 3 or level 4 cancer patients. Each patient was basically sent home by his or her oncologist to die. The average life expectancy was 3.7 months. The protocol was to place each patient on 9 capsules per day of Transfer Factor Plus™. The patients were given a number of other general nutrients*. After eight months, 16 of these individuals were still living and were either in remission, improving or stabilized.

The baseline for natural killer cell function was 6.4. Within 4 weeks the average NK Cell function was increased to 25.7 and in 6 months it increased to 27.6. This represented a 400% increase in NK Cell function. This is an ongoing study. This study has been submitted to a peer reviewed publication.

*Antioxidants, Digestive Enzymes, Probiotics and multi-vitamins.

The following study was conducted at the Institute of Longevity. The purpose of the study was to examine the synergistic effects of the components of Transfer Factor Plus™. Each component was tested separately and then tested as a whole unit. Together the proprietary blend increased NK Cell functions more than the sum total of all of the ingredients tested separately. This study indicates that the intelligence contained in Transfer Factor™ has an enhancing effect on other nutrients.

In vitro study:

Ingredient 10 GM /ml NK Function

PBMC (Control) 25.6%

Zinc 26.8% NS

Proprietary Blend 59.9% <0.02 (Mushrooms etc)

Zinc +Prop. Blend 95.4 <0.01

Transfer Factor™ alone 128.5% <0.01

Complete Prod. (Transfer Factor Plus™) 273.6% <0.01

The sum of the individual product is less than the Complete Product (Transfer Factor Plus™).

There is synergy in having a combination of Transfer Factor Plus™.

The information has not been evaluated by the FDA or by 4Life™ Research. We do not claim that 4Life™ products directly prevent, or cure any disease. We do not suggest that anyone should replace traditional medical treatment with our products. 4Life™ products are promoted for their ability to enhance the effectiveness of our natural immune system functions. On this web site you will be exposed to many testimonies and nutritional ideas. We encourage you to use common sense and prudence in evaluating testimonies. Testimonies can be based on "placebo effects," which basically means that you can experience temporary results just because you really believe you will. Research can be complicated to translate into real life situations. Even medical doctors may disagree on certain subjects. It is our desire to expose you to many different ideas for your consideration. Our focus is on supporting the immune system, which can assist your body in the healing process. The testimonies and information on this web site only represent the opinions of the individuals involved. We encourage you to use common sense in your expectations in consuming any nutritional product.

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