



## HOLTORF MEDICAL GROUP, INC.

CENTER FOR HORMONE IMBALANCE, HYPOTHYROIDISM AND FATIGUE

23456 Hawthorne Blvd. Suite 160, Torrance, CA 90505 Tel: 310-375-2705 Fax: 310-375-2701

**C**HRONIC FATIGUE AND FIBROMYALGIA are complex diseases that involve multi-system disturbances and abnormalities. Because of this complexity, these conditions have been poorly treated by the current medical system in this country. These conditions do not lend themselves to be successfully treated with the eight to fifteen minute visits that address only a portion of the wide spectrum of underlying dysfunctions. Through a more detailed evaluation, all identifiable etiologies contributing to the symptomatology may be appropriately addressed, and when multifaceted treatment is instituted that addresses the entire spectrum of these diseases, truly remarkable success and total cures can be obtained. In general, successful treatment can be viewed in components. Treatment needs to be individualized, components may occur in different order and multiple components are often addressed simultaneously, but these can be broken down as follows.

### **Component One: Stabilize the patient**

This is a component in which pain and sleep disturbances are addressed. This may include the use of, sleep medications, pain medications and antidepressants. This is in general a temporary “stop gap” phase because as the treatment progresses and the underlying problems are addressed, the medications that “mask the symptoms” are no longer needed. Unfortunately, the overwhelming majority of patients are never brought past this stage by their doctors. This is because this component is the limit of training for most doctors, but it really should only be the first step.

### **Component Two: Mitochondrial enhancement**

This component is actually integrated throughout the treatment program and tapered as the patient returns to normal functioning. The mitochondria are the energy producers of the cells and are critical for normal functioning. But they are shown to be poisoned in these conditions, leaving

the cells starving for energy. Many things can poison the mitochondria including hormonal deficiencies, toxins and infections. Mitochondria dysfunction may be the common denominator and underlying mechanism that explains the symptoms of CF/FM. In addition to the treatments above to rid the body of the offending agents, specific nutrients can be given to jump start the mitochondria and get the body functioning again. These can also be administered orally or via an intravenous route.

### **Component Three: Balance the hormones**

There are a number of hormonal deficiencies with these conditions that must be addressed to assure successful treatment. Unfortunately, these hormonal deficiencies are often missed or poorly treated because doctors have come to rely on standard blood tests that require an intact pituitary and hypothalamus for diagnosis and dosing of hormone levels. There is, however, severe hypothalamic and pituitary dysfunction with these conditions, making the standard blood tests inadequate. Some typical hormones functions, not just levels, that need to be evaluated include thyroid function, growth hormone, testosterone, aldosterone, cortisol, DHEA, pregnenolone, estradiol, progesterone, among others. When they are properly treated and balanced, tremendous results can be achieved.

### **Component Four: Treat the infectious components**

There are multiple infections that either may be the cause of CF/FM or contribute to the dysfunction. Because of the immune dysfunctions, there is often more than one infection that must be addressed. Potential pathogens include a variety of viruses such as Epstein Barr (EBV), Cytomegalovirus (CMV), Human Herpes Virus 6 (HHV6), Enteroviruses, such as Coxsackie, Echo, and Stealth virus. Bacterial infections include intracellular organisms such as Mycoplasma, Chlamydia pneumonia, Borrelia Burgdorferi (Lyme Disease) and Ehrlichia. A number of yeasts such as Candida and

## **New Standard for the Treatment of Chronic Fatigue Syndrome and Fibromyalgia**

parasites must also be evaluated. Infections with many of the above organisms will also further suppress the immunity, often resulting in further infections with other organisms. Thus, many organisms must be evaluated and treated along with an assessment and treatment of the immune system. If a poor immune system is not addressed, successful eradication of the organisms is not likely, even with the most potent treatments. Treatment may be administered with oral medications or via an intravenous route. A combination of IV and oral medication in conjunction with immune modulation is extremely powerful.

### **Component Five: Address Unique Etiologies**

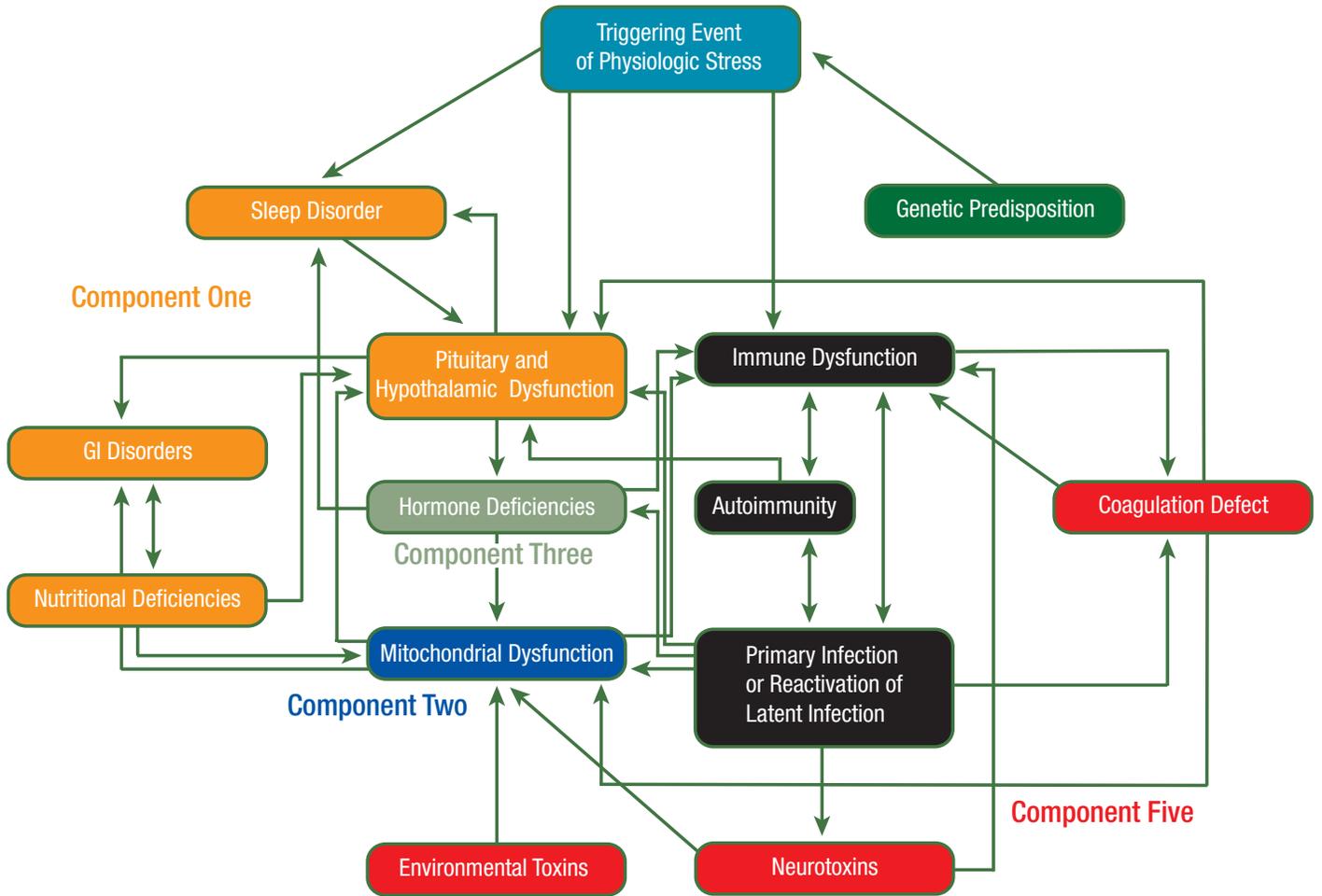
There are a number of problems that must be addressed in select patients. For instance, some individuals have a coagulation defect that is set off by a chronic infection. This results in the laying down of a fibrin coating on the lumen of the vessel causing impaired oxygen and nutrient transfer. This can result in fatigue, muscle aches and “brain fog”. If suspected, diagnosis requires specialized testing. If not treated, not only are the cells starved for oxygen and nutrients, but it is very difficult to eradicate any infection because they will “hide” in the fibrin coating. Also, if the organism is one that produces neurotoxins, this must also be addressed. These substances can remain in the body and continue to cause symptoms long after the organism that produced them are gone. Special testing and protocols must be done to rid the body of these toxins.

### **Component Six: Maintenance**

Here is where the patient is weaned to just a few core medications and supplements to remain symptom free and maintain their health. Significant recovery or complete resolution of symptoms is the rule rather than the exception when a multifaceted treatment plan is instituted.

(over)

## Integrated Approach to the Cycle of Dysfunction



Component Six: Your maintenance plan

