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History: Scott states that his troubles began roughly in 1997 when he began to experience digestive disturbances, rumblings in his intestines, bloating, fevers and problems walking. He saw 27 doctors until it was determined by a specialist in Arizona that he had 5 parasites. He now believes that he is suffering from allergies fueled by the parasitic infections. He is currently still completing his course of therapies for these parasites both prescriptive and herbal medications which I tested as non-sensitive (no allergy to it), effective and compatible to his system. He does recall a bad bug bite, he thought it was a spider last May that swelled, was very red on his neck and lasted a month.

Symptoms: He currently suffers from parathesia & burning in the arms and legs, generalized aches & pains & sensitive skin. He also finds himself more sensitive to airborne pollens, and foods than ever before. He believes some of his digestive issues stems from frequent and long term use of antibiotics and his inability to rebalance his intestinal flora. He suffered from depression, weepiness, and anxiety which was worsened around the time he was diagnosed with the parasitic infection. He takes melatonin to sleep and states it helps some and has noticed little difference on Prozac and would like to "get off of it".

My findings are broken up into three parts. Level one deals with autoimmune signatures. Level 2 deals with metabolic autoimmune signatures and Level 3 tests for food sensitivities.

Level 1 findings:

Upon examination, his overall toxicity score was 10/15. Seven out of 15 is considered high. Symptoms start to arise when a patient's score reaches 7 or higher. Patients begin to develop food and environmental sensitivities. His drainage score was 8/15 indicating moderate blockage of excretion of toxins by his organs. His cellular transport score, measuring the degree of impedance of negative hydrogen ions across a cell membrane was 11/15 extremely high. My chronic fatigue patients usually test at 10 or higher here. Sometimes this can involve a Krebs's cycle issue. The organs testing most burdened by toxicity were: lymph, colon, liver, stomach & skin. I put him on Liver Terrain, a product which helps to mobilize and excrete toxins in a very gentle manner. It will take roughly 6 weeks to 2 months to get his score down to zero. However, this does not replace the need to chelate heavy metals, or other targeted detoxification processes.



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Organs: Organs testing positive with an auto-immune signature indicating some degree of inflammation are: large intestine, liver, lymphatics.

Systems: The following organ systems tested positive for immune inflammation: central nervous system, cytochrome P450 transport system, extrapyramidal motor, integumentary, lymphatic, peripheral nervous & sympathetic nervous system.

Glands: No glands tested positive for inflammation.

Immune: No immune cell components tested positive.

Level 2 findings:

Enzymes: He tested positive for sensitivity to amylase.

Amino acid/protein metabolism: Methionine is a key amino acid used by the liver for the methylation detox pathway. He has trouble using this amino acid thus impeding the methylation pathway and his ability to effectively detox. This is partially an explanation for his high toxicity score. It is also a red flag in telling me that he has to be monitored closely during any deeper detoxification program for heavy metals to make sure that the rate of mobilization of heavy metals does not exceed his body's ability to excrete the heavy metals. Treating the methionine metabolic pathway in most cases improves the body's efficiency of excretion of toxins unless there is an underlying miasmatic influence & will improve the metabolism of petroleum based (i.e. synthetic) vitamins. He also tested positive for sensitivity to carnitine & tryptophan.

Acids: He tested positive for immune sensitivities to acids: gallic & citric acid.

Minerals: He has several immune sensitivities to minerals & mineral salts, specifically calcium, magnesium, sulphur & organosulphurs. The sensitivity to calcium & magnesium indicate a likelihood of deficiency in these minerals and high likelihood that that deficiency contributes to his parasthesia and muscle aches. Sulphur is essential to the liver's sulfation pathway and contributes to his high toxicity score. The more he ingests these minerals the more they contribute to his inflammation and can aggravate his condition. I advised him to refrain from



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these supplements until he could be de-sensitized after which I would test his optimum dosage to replenish his deficiency.

Vitamins: He tested positive for sensitivity to: B vitamins, their absorption and excretion (B1, B2, B3, B4, B5, B6, B12, folic acid), tocopherol, P5P.

Sugars/sugar metabolism: He has many sugar sensitivities which can hyper-stimulate the nervous system and deplete it further of B vitamins, contributing to increasing imbalances of intestinal flora and the overgrowth of yeast. Sensitivities to sugars also cross-link with airborne grass, weed & tree pollens and some foods, heightening the sensitivity.

Fatty acids/ fat metabolism: He has trouble breaking down some complex fatty acids into simple fatty acids. This contributes to the foreign protein picture fueling immune sensitivities and prevents the body from nourishing his nervous system.

Phenolics: He tested positive to many and I gave him a list of foods to avoid.

Hormones: He tested positive to 2 neurotransmitters: epinephrine & nor-epinephrine. He will need to be tested on our neurotransmitter panel as I suspect many more imbalances with respect the neurotransmitters. Heavy metals toxicity contribute to immune sensitivities to certain neurotransmitters. The inability to utilize certain B vitamins contributes to a deficient neurological system and impedes effective methylation. By treating the B vitamins & their metabolic pathways, folic acid and its pathway, heavy metals and neurotransmitters, the nervous system is able to more effectively utilize B vitamins, decreasing immune fueled inflammation to the nervous system, improving mood, focus, attention and neuro-muscular communication.

Bacteria: Scott tested positive for rickettsia. This does not mean necessarily that he has an active rickettsia infection. It does mean that his immune system has become sensitized to the bacteria and it is likely that he has not excreted the microbial metabolites from that exposure and could have a subclinical level of invasion that his immune system is still dealing with. In our practice when we see any pathogen test positive, it means that the body is less effective in fighting this pathogen. BioSET can help turn on the body's immune defenses against this pathogen, making medications more effective when necessary. In addition, rickettsia can create body/joint aches & pains.



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I also tested Scott on our Lyme panel and found: babesia divergens & ehrlichia phagocytophilia. I suggested that he have the Q-RIBb test performed as invented by Dr. Whitaker to my knowledge the most reliable.

Parasite: No positives. This is a very good sign and indicates that his immune system is not weak to fighting his parasites.

Virus: No positives.

Candida/Mold/Yeasts: He tested positive with immune sensitivities to candida, geotrichum, mucor, rhizopus, trichophyton, wheat bunt & smut. Some of these molds are found naturally on fruits and grains and will aggravate food allergies and function as neurotoxins. Imbalanced flora can be exasperated by the presence of heavy metals.

Heavy metals: Scott tested positive to lead and methyl mercury on my short list of heavy metals. From my experience with patients using BioSET, his immune system has developed a reaction to these specific heavy metals. Accordingly, if he was to be given a chelator to draw out the heavy metals from his body, his immune system would react to some of the "mobilized" heavy metals and attempt to "redeposit" it into tissue, fighting the objective of excretion/chelation. The result would be false lows on heavy metal lab results and possible reactions to mobilized metals in the form of bowel disturbances, increases in intestinal/systemic yeast overgrowth, fatigue, headache, malaise and other symptoms. Careful monitoring of the dose of chelating agent so as to not exceed the body's ability to excrete heavy metals and desensitization to those metals that create an immune reaction will prevent this process from being hindered, and reduce the accumulation of free radical damage and glutathione & mineral depletion.



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Treatment: My objective with Scott will be as follows:

- 1) Toxicity: Reduce his overall toxic burden. Improved cytochrome P450, sulfation and methylation pathways, & de-sensitize to heavy metals towards the goal of facilitating effective excretion of toxins, and heavy metals which I believe Dr. (removed) will handle. He also showed accumulations in pharmaceutical and microbial metabolites which I will follow up after chelation with a focused detoxification program. We do not know to what degree heavy metals could be contributing to his neuralgia, but the literature is clear that there can be an association.
- 2) Neurotransmitters/Prozac: Scott would like to be free from Prozac. From my testing it is clear that key components of his nervous system are reactive to some type of inflammatory agent which in my opinion can explain a biochemical imbalance that can be improved upon and maybe corrected in its entirety. It remains to be seen to what degree the improvement in brain chemistry can be obtained but at least we have a basis for improvement rather than a lifetime of dependency on a drug. It is common to see central nervous, extrapyramidal, peripheral and sympathetic nervous system inflammation in individuals testing positive to B vitamins, folic acid and some key neurotransmitters. It many cases it explains a biochemical basis for imbalance resulting in symptoms of anxiety, depression, and lowered tolerance to stress. My suggestion to Scott is to begin a course of supplementation of non-petroleum based B vitamins and folic acid after treatment of the B vitamins/folic acid pathways and neurotransmitters and to have either of you do a neurotransmitter urine test to check levels of imbalance now and 30-45 days after my treatment. I know that Dr. (removed) is familiar with other neurotransmitter supplementation that could assist him in correcting his nervous system imbalance if the basic B vitamins do not correct the imbalance. In addition, his Prozac tested non-sensitive, but not-effective or compatible. This could be because of neurotransmitter sensitivities. I told him to stay on the prescription and we will retest it after treatment of the B vitamins/folic acid/neurotransmitter complex. If still not-effective or compatible, then serous consideration will have to be made to change the prescription; however, it is too early to make that determination at this time.
- 3) Digestion: Scott is sensitive to acidic foods. I tested his digestive enzyme against the foods that he tested positive for and it removes over 90% of his food sensitivity if he takes 2 with a meal. I have already discussed his



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- challenges with calcium, sulphur, and the B vitamin family. Once I treat his basic fat/sugar/protein/vitamin & mineral sensitivities, over 90% of his food sensitivity symptoms will fade. It can take up to 4 months and on average 90 days for the immune cell memory to dissipate. Blood tests should be done at least 90 days after treatment. Any antigens still testing positive will need to be detoxified further.
- 4) Pathogens: With respect to his parasitic infections, it is a good sign that his immune system did not test weak to the pathogens and his medications/herbs test effective. With respect to the yeast/candida imbalance, his immune system is weak to those listed and BioSET treatment will improve his immune cell function against them and their mycotoxins. I will leave it to either one of you to follow up with effective anti-fungal therapy. His probiotic tested not effective, not compatible because it contained calcium. I advised him temporarily to use Florastor to compete with the candida and wait until he was desensitized to the calcium before we retest his probiotic.

I hope you find this helpful. Please feel free to give me a call with any questions. I look forward to working with both of you of returning Scott back to vitality.

Very truly yours,
Anna Manayan, J.D., Dipl.Ac., L.Ac.