

THRiiiVE.com Summit #10 – CCSVI

<http://www.ccsviconference.com/>

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Dr. Mark Haacke PhD – Role of the Vasculature in Neurodegenerative Disease with a Focus on TBI (Traumatic Brain Injury) and CCSVI

Dr. Hewitt sent Dana's son's MRV to Dr. Haacke for interpretation. Dr. Haacke's focus is on research in MRV and neurovasculature of the brain. TBI = traumatic brain injury, not tick-borne illness. MRV is powerful, non-invasive. High field energy 3 Tesla – can image body in 3D. Can we study function such as perfusion and metabolism?

Will look at structural with T1, lesion load, lesions in autism, hyperintensities, molecular effects looking at water molecule diffusion in brain, vasculature, functional aspects of brain. Can tell which part of brain is used to move your fingers with the scanner. Perfusion imaging, oxygen saturation. Not just cerebral blood volume, but can look at veins which tell if the brain is working or not – is oxygen being extracted from tissue?

Can image iron content which represents ferritin in brain or microbleeding / microvascular disease. Resolution of 250 microns and ½ mm by ½ mm in other dimensions. Arterial supply in middle of brain is not seen. Major vessels surround tissue and hundreds of small arteries exist that have not been able to be imaged well in the past.

Georges Salamon's work showed smaller vessels of 250 microns to 1mm in size. Challenge to new PhD student is to take technology to new level to visualize small vessels. Imaged vessels on the order of 100 microns. Working to map out arterial system in 10-20 minutes. Hope to see the start of vascular disease before it is a real problem.

7T technology looks at veins about 200 microns. Can do in 5-10 minutes. Using at Loma Linda University. Dark means less blood flow to the tissue and more deoxyhemoglobin. Can see what tissue at risk is. Technology uses presence of iron. Can see microbleeds. Have unscreened the iron which can be measured with the MR scan.

Sensitivity to iron can be used to see vascular damage in TBI, amyloid angiopathy, radiation damage. If you have a microbleed where arterial supply, tissue still has perfusion. It is about location, size, and microbleeds. With MR, do not worry about too much radiation.

Dietrich Klinghardt – common to have microbleeds after radiation? Mark Haacke – there is evidence for this in animal work. There is vascular damage after radiation but just probing how severe.

TBI – after impact, can damage tissue but how does it damage vasculature. 1.5 million people per year in North America with TBI. No imaging can find anything wrong. Cannot see the damage. With newer technologies, we can find microbleeds as small as 50 microns.

TBI case with damage in hippocampus – found bleed in bottom centimeter of hippocampus in patient with short-term memory loss.

Use imaging for any type of illness to look at vasculature and neurocognitive or motor deficits that develop. SWI – susceptibility weighted imaging. If you have a source of magnetism, affects local magnetic field of the area you are imaging. Proton magnetic resonance.

Damage in TBI may not be on arterial side but on venous side. Small medullary veins. Impact may be sent down brain and may not damage vessel walls but creates a shearing artifact and tears vessels. Can see biomarkers that people really are damaged. Insurance doesn't want to pay after accident without proof that someone was really hurt.

Arteries have no deoxyhemoglobin but veins have different susceptibility than surrounding tissue. Venous system may play a much more critical role than previously realized. We have been too focused on the arterial side.

Can take images and translate to the amount of iron present in a given tissue. Can measure nanomoles of iron in brain.

Critical point is not to show vessel damage but how tissue is impacted. Need to look at perfusion to brain and cerebral hemodynamics. Diffusion Tensor Imaging (DTI) – looks at molecular diffusion. Studying white matter fiber tracts. Water diffuses along fiber tract throughout the brain. Can study connections between different parts of brain. Was their neuronal damage?

In one hour sitting at MR magnet, can do all he has shown today.

Can do metabolic imaging – can lose function of neurons and can measure tissue damage using N-acetyl aspartate (NAA) diffusion. Measure glutamate, glutamine, GABA peaks. Can study brain function, not just vasculature.

Study at Loma Linda – 5 year study with 75 pts. 16 progressively demented. Some had microbleed increases every year. 4 microbleeds – more you have, higher chance you will become demented. Steven Greenberg at Mass General. Vasculature breakdown a critical component in dementia; not amyloid, apoE, etc.

The more you exercise, the better you eat, etc. the better your vasculature. Professional community glued to immunity and genetics and missing the boat with vasculature.

Study vasculature immunology – the critical future. Perfusion scan – do MR angiogram to show arteries. Bright red – lots of blood. Green less. Blue – not much.

Bleeding in Parkinson's – 4 cases – in first 2 found bleeding. Beginning to wonder if PD is vascular induced in some cases.

If looking at veins, can tell oxygen saturation in veins. Doing oxygen saturation mapping of veins of entire body – muscles in legs, heart, brain. High oxygen saturation – tissues may not be using. Low oxygen saturation – may be stroke or hypertension. Still have 70% oxygen saturation in veins. Only 30-40% oxygen saturation in heart. Tissue won't die until less than 20% oxygen saturation.

People imaged after stroke – when oxygen saturation went up, people got better. As oxygen saturation did not improve over two weeks, no change. Worse oxygen saturation -> worse outcome. Stroke recovery may be related to oxygen saturation.

Using caffeine decreases blood flow to the brain. Darker = less blood flow and more deoxyhemoglobin. Reduce blood flow to brain by 20% with caffeine. Not a good idea for stroke patients.

Multiple Sclerosis – cause not known. 2-3x more women. Vision problems, balance loss, fatigue, incontinence, motor problems. Presented at Canadian government – agreed to open door to federal funding for CCSVI. 400-500K in US with MS – 10 billion dollars a year. Big drug business. If drug company reps understood, they would collaborate with us. Can better target which people are the right candidates for drugs; those that the drugs did not work for are removed because they need interventions like Dr. Hewitt offers. It is clear that MS patients have venous abnormalities.

1935 Putman – study on 14 dogs – they blocked small veins – developed sclerotic lesions. Veins are a big source of problem in MS. Vein obstruction is the antecedent of sclerotic plaques.

CCSVI – Zamboni. Goes in with catheter and puts in a balloon to open it up. 30% get significantly better. 30% a little better. 30% don't respond. 10% get worse. 12-15K operations in the past few years. 1971 – French

interventionalist Aubolker looking at paraplegic and quadriplegic patients – found abnormal vasculature. 1971-1976 - hundreds of patients. 30% got up and walked away. Abnormal venous vasculature can cause all sorts of problems.

Arteries in people studied are amazingly consistent. Venous system is entirely different. All have water coming into house. One has a pool, one a kitchen. Many outsource back out because you use the water differently. Every venous system is different. See dark rings around many MS lesions – could be capillary lesion with exudation of blood or could be demyelination.

At draining point of structures, see iron deposition. In ½ of cases of MS and in young people, major iron deposition is found. Can you get MS-induced PD? Maybe.

Dietrich Klinghardt – anyone dilated a PD patient? Mark Haacke – 3 – one no results, one a little better, one near complete recovery. Neurologists need to pay more attention to vasculature and CCSVI. CCSVI involved in a number of diseases.

Can take picture every 10 seconds to look at arteries/veins in neck. 10-20% of MS cases may have congenital venous malformations. Alternate collateral venous pathways often are created by the body.

May be structural conditions beyond inflammatory conditions that impact venous flow.

Ultrasound can give cross-sectional measurements. In MR, take picture every 40 ms to measure vessels in terms of cardiovascular input and output. Ultrasound has one advantage – it is real-time.

Zamboni – finds that in expiration, blood flow may stop. Can be observed with ultrasound but not MRV.

Take 200 cases of MS split into those with stenosis and those without. 70% have most blood carried out with jugulars when no stenosis. With stenosis much lower blood carried out through jugulars – as low as less than 1/3.

Have not done anywhere near enough normal controls. Still working to identify what normal looks like. Need to do hundreds of normals. Want to do 1000 normals to identify a biomarker or risk factor – less than 8ml / second flow from 2 jugulars.

Takes 5-8 hours for them to evaluate the scans. Magnetic Resonance Innovations.

Kellen - Both veins functioning for total of 13ml/second. MR done lying down where ultrasound is done lying and sitting. Normal 15ml/sec +/- 3.

Dietrich Klinghardt – can you visualize lymphatic flow with this system? Mark Haacke – measuring lymph system is very difficult. Looking for lymphatic cancers using iron-based contrast substances.

Dietrich Klinghardt – what is seen in ALS? Done 2 patients – 1 case did not find anything, the other had a severe bleed. Article about ALS being trauma induced. The one case was a very severe bleed.

Could use acetazolamide or niacin to increase blood flow.

Lee Cowden - Venous balloon dilation – have recurrence of symptoms – why? Mark Haacke – symptom regression may be result of restenosis. Need MR scan before the intervention so you can have a control if things get worse after period of time after the procedure.

www.ms-mri.com

Dr. Joseph Hewitt MD – CCSVI – What’s Going On Here?

We are not talking about MS. We are talking about a distinct entity. Treated 1200 patients with venous abnormalities in neck. Distinct abnormalities from MS. CCSVI applies to PD, Neuro-Lyme and other diseases. CCSVI and MS involve abnormalities of intracranial veins. When treating jugular venous hypertension (JVH), symptoms of CCSVI and MS are often mitigated.

JVH – elevation of pressure in veins leaving CNS. Manifests as pressure in jugular veins and azygos vein. In vast majority of CCSVI patients, see a valvular narrowing causing JVH. Interrupted sleep, headaches, fatigue, impaired cognition, autonomic dysfunction – based on poor flow in brain from outflow dysfunction.

Autonomic dysfunction – thermal regulation, bowel/bladder. Many symptoms respond rapidly to release of JVH.

MS is VENOCENTRIC. Inflammation plays a role. Is it an abnormality of the vein causing the plaque or inflammation in the plaque causing the venous abnormality.

Treating JVH doesn’t mean they are treating MS. Recommend to all patients that they continue with neurologist. Addressing JVH doesn’t mean you don’t still have MS.

Primary and secondary JVH. Primary – caused by fundamental malformation and stenosis of jugulars and azygos vein. Secondary – less common – due to agenesis of sinus, external compression. Primary – narrowing of valves at base of jugular veins leading to increased pressure in veins.

CCSVI is commonly called a vein problem, but what people generally call CCSVI is JVH. It is less of a vein problem and more of a valve problem. Technology today does not allow for valve replacement.

When treating patients with JVH, most have reflux prior to treatment but will still have reflux after treatment as well. Flaps are malformed before treatment and will be after treatment. Functionally and anatomically the vein can be fine. Insufficiency is beyond the point. It is how much JVH they have.

Dietrich Klinghardt – When you have restriction of venous flow in neck, does it mean less blood going into the brain? Joseph Hewitt – Paper presented before and after treatment showing increased oxygenation in the blood. Need to look more at MR before and after treatment.

In 60%, balance problems, etc. improve rapidly. Plaques don’t change rapidly but oxygenation does.

Dietrich Klinghardt – can you measure pressure at end of catheter? Joseph Hewitt – not yet, but this is something they are working on. See a change in flow, which is related to pressure. Have not measured pressures yet.

Venous angioplasty – ballooning of narrowed veins. Valve has elasticity to it. Some get valve dilated and 2-12 months later, area at valve has closed up again – so called “restenosis”. More likely a “recoiling”. Valvuloplasty – stretch stenotic ring enough to stretch the fibers. Restenosis rates went down.

When you have a significant stenosis, you find a number of collaterals that have developed around the compromised jugular. When successfully opening the jugular, collaterals often go away. Larger ones may take longer to atrophy.

Patients talk about ear pain, swallowing problems, smell and taste abnormalities. If you have collections of collateral veins that are suddenly decompressed, many of these symptoms may resolve after treatment.

Valve enlargement treatment – annular valve subtype – important one – when annular valve – less responsive to angioplasty than other subtypes. Jugular vein has slow narrowing like ice cream cone – those restenose the fastest. Sigmoid valve – nice thick vein then narrowing, respond much better with lower rate of restenosis.

Secondary JVH – high cervical region due to abnormality of lateral mass C1 or decreased space between mandible and lateral mass of C1. The space jugular vein has to go through is smaller. Compression at C1 – no good treatment at this time. Angioplasty or stenting often makes worse in these cases.

Dietrich Klinghardt mentioned that for secondary JVH, specific type of dental appliance can be integral.

Stents often lead to scarring and occlusion. 70-80% of patients have an improvement in symptomatic presentation after CCSVI procedure.

Thrust of research is around classifying patients that will respond best to the procedure to be more meaningful in assessment of patients. Secondary JVH is often difficult – someday may have venous bypass but not realistic yet.

Is the procedure dangerous? < 1% serious complications. Get some bleeding. On anticoagulants like Pradaxa after the procedure. Run into some SVT (Superficial Vein Thrombosis). One patient had evidence of stroke that resolved.

Synergy Research – what kind of valves respond best to the treatments. Working on registry of patients. Interested in bleeding complications. Looking at radiation exposure. No point in giving someone lymphoma while fixing their valves.

Moving away from focus on CCSVI as sole entity and looking at JVH in neck and CCSVI and MS in the brain. Do valvuloplasty. For upper cervical lesions, possibly styloidectomy. Looking at biodegradable stents. Venous bypass may become a reality in the future.

How often do you find decreased space between C1 and jugular? 60-70% of time compression; significant in 10-20%.

Mark Haacke - Do you detect problems with collagen or integrity of venous system? Joseph Hewitt – In people that are not clear why they are restenosing (one was a known keloid former), this may be an issue.

Along lines of autistic children and venous abnormalities, need to run hundreds of them through Haacke MRI. Definition of abnormality in kids may be different than in adults.

Dana – hypercoagulation – wouldn't that impact the veins? Garry Gordon - keep people on a regime to alter viscosity with Boluoke/Nattokinase, etc. Powerful modalities. Patients continue to get the surgical procedure.

In autism, have you had any adults or children? Joseph Hewitt – One autistic child so far, but most cannot lie still for the evaluation. The evaluation will have to be done under anesthesia.

Give Haacke MRI a 9. Give ultrasound a 3 in terms of what it gives in understanding the patient. 50% of pts come with ultrasound and of the 50%, 30% have ultrasound that says they have no problem (0 or 1 criteria). 0% of those people have no problem in reality. Ultrasound results in a lot of false negatives.

Mark Haacke - Should not treat people until they have had MR Scan. Ultrasound is very operator dependent.

Dietrich Klinghardt – 8 autistic kids tested, all +. 5 treated doing well.

Garry Gordon – MS is autoimmune. Look for inflammation. Book *Autoimmune Epidemic*. Garry simplified into FIGHT to help address epidemic of autoimmune disease. 5-8% have low oxidative stress and then there are the rest of us. Test using breath available to look for oxidative stress. Want a way to reward a patient that

wants to stay healthy for living a healthy lifestyle. FIGHT Article: <http://gordonresearch.com/fight/forsgren-fight.pdf>

<http://www.synergyhealthconcepts.com/team/joseph-hewett-md/>

Clint Ober- Earthing and Hypercoagulation

Static electricity – static charge is always present. When we have a static electricity situation, there is a lack of electrons. There is an electrical imbalance between person with static issue and their environment.

Sticky blood – rouleaux – no different than static electricity – related to electron deficiency. In some cases, two molecules are drawn together because they are sharing an electron.

Earthing prevents electron deficiency. The earth is an extremely large electron donor. There is a thin layer around the earth that serves as an electron donor. Earthing is about reducing charge and creating a stable electrical internal environment. The earth is an antioxidant.

Earthing naturally restores electron balance. Standing barefoot on the earth grounds you. The body is equalized with free electrons. The earth's electrons restore RBC electron balance and normalize blood viscosity. Wearing shoes results in a shortage of electrons. You touch the earth and become negatively charged which results in blood cells becoming negatively charged.

If you have positive charges in your body, the electrons of the earth will neutralize them. When grounding the body, generally have a 90% reduction in pain in 5-15 minutes. Under darkfield, blood of several people looked different initially but looked the same after earthing.

The body utilizes the earth's free electrons to maintain proper RBC Zeta potential for functioning of all body systems. Lack of earth's electrons promotes unstable RBC Zeta potential which promotes inflammation and dysfunction of all body systems.

You don't have several disorders, the underlying cause is inflammation. Earthing reduces inflammation.

Took group of subjects and average Zeta potential went from 5 to 14 mV after earthing. People that are pale or yellow will often look pink after 30 minutes of grounding.

Increasing Zeta potential from earthing rapidly restores normal circulation and reduces inflammation. Grounding puts the fire out. Earthing is like throwing water on a fire.

We were barefoot and naturally earthed until 1950s. Began to live unearthed after mid '50s.

Type 2 Diabetes linked to inflammation. Needs to be treated as an autoimmune disease. Rise of diabetes curve looks very similar to the growth of shoes curve.

Dr. Cowden pointed out that the number of vaccinations also parallels the curve of inflammatory and autoimmune diseases.

Earthing is the natural solution for electron deficiency. Clint has spent 7 million dollars on 12 studies over 12 years. Earthing normalizes RBC Zeta potential, normalizes ANS (electrical sensitivity), normalizes HRV, normalizes circadian hormone secretions, reduces and prevents inflammation. Earthing normalizes the functioning of all body systems.

When on Coumadin, have to monitor INR when earthing. Earthing normalizes blood viscosity and blood can get too thin if on blood thinners.

Dr. Lo commented that the charge goes through the meridian system which is more conductive.

When you ground the body, you go from sympathetic state to parasympathetic state as a result of reducing charge. Cortisol is stress hormone - measured cortisol for 24 hours, earthed, and tested again. All people in study synchronized their cortisol level. You can't sleep if cortisol is spiking up and down. #1 thing earthing does is normalize cortisol.

Athletes that sleep grounded recover much faster. Animals in the wild don't have CVD, MS, Lupus, etc. Domestic animals have same disease as their owners. They are not grounded.

Suggested that boys have more inflammation in the bodies due to activities they participate in than girls. This may be part of why autism is more common in boys.

With shoes on, electrons in the body will be pushed upwards to the head. Like two negative magnets put together. In people that live in multistory buildings, 40% increase in stroke due to electrical phenomenon.

<http://www.earthing.com/about-earthing.php>

Sarge Goodchild – TurboSonic

Sarge has had TurboSonic for about 1 year. He has seen health and healing come to people using it. Father-in-law was going to give up golf. Was able to golf exceptionally well after TurboSonic. Has seen people lose weight. One client noticed toning in face. Excellent option for lymphatic drainage and fluid dynamics.

Session is 10 minutes long. TurboSonic has worked with Qigong masters to create protocols for many conditions. Plate is not vibrational but responding to sound frequency. Speaker coil is what moves the plate.

Dietrich Klinghardt and Lee Cowden both commented that the TurboSonic tests the best of the vibrational machines available today. One can incorporate frequencies from rife machines, etc. Sonic Life has licensed a patent and has additional software that turns it into essentially a rife machine. TurboSonic is 3 to 50 hertz.

Helps rouleaux and alkalizes the body. Range in price from 6K to 16K. Dana mentioned \$200 VibraMat.

http://activehealing.org/HTML/aboutus_team.htm

Garry Gordon MD, DO, MD(H) – PEMF and Vascularity

Dr. Gordon has practiced for 56 years. *Fractal Time* by Gregg Braden. 1% magnetic field compared to time of dinosaur. 5,000 years ago was the collapse of Egyptian dynasty. When magnetism is low, ozone layer is impacted. The center of earth is molten iron. Cannot generate electric current without magnetic field and vice versa. Anyone in the room if treated on PEMF will see a change.

We need magnetism for metabolism – none without it. Are we suffering from magnetic deficiency syndrome (MDS)? We cannot solve a biochemical problem by ignoring physics.

Dr. Gordon's horses are on PEMF, zeolite, Vitamin C.

Cells of tissue are electrical. PEMF moves the body. You can exercise liver, kidney, prostate, etc. with device. Nerve regeneration, wound healing.

Dr. Marty Milner – wrote about a patient needing heart transplant which was avoided by one hour a day PEMF treatment. Patient was riding bike after 4 months. Dr. Gordon had AV block 1 beat out of 3 missed – no longer.

pH goes up with PEMF as you restore trans-membrane potential, increase ATP, push out sodium, take in potassium, lower viscosity, see red cells separate, would healing is improved. In sick people, have to limit time or may get Herx reaction. You can build up to an hour a day safely. Start slowly.

PEMF is a 40 year-old treatment. Paid for by German government to avoid hip replacements, etc. Joe Mercola asked if it increased stem cells. Garry responded that non-healing bone fractures heal illustrating stem cell and growth factor release. Increases lymphatic circulation.

This device is applying for approval with FDA. They are working on a new category. It is positioned as exercise device. Papimi thought his device would treat cancer. New device is day and night different from Papimi device.

Garry had to have a hook to get off toilet or spend time in hot tub to reduce pain from back problems.

60K NeuroStar is version of PEMF that is used on head only approved for depression.

Vitamin C – *Curing the Incurable* – ½ risk of death from any cause with higher levels of Vitamin C. Has test strips for testing levels of Vitamin C in urine. If patient is green, they have high oxidative load.

H- added to ZeoGold. 20x surface area than Waiora ever sold and 50% greater magnetic charge. Developed for large company in Asia to mitigate coal burning plants. Hydrogen forming tablet to put in bottle of water, hydrogen comes up for 5 minutes. Close the lid. Let hydrogen get into the water. Hydrogen is giving electrons. Helps electron deficiency disease.

Joe Mercola asked about liposomal vitamin C. Garry Gordon responded that liposomal C is more expensive to keep you in the yellow and that it has been difficult to take enough liposomal to see yellow on the stick.

Dr. Cathcart – looking at C as high energy electrons.

Hydrogen, Zeolite, Vitamin C combo. Zeolite makes H- longer acting.

Joe Mercola static vs. pulse – on magnetic static pad improved kidney issue with Garry Gordon. Pulsed fields do different things from static fields.

Hydrogen – the future. Alkaline water does not change pH but hydrogen does.

Zeoliteanswer.com - reduces cancer, antioxidant. Would stop ammonia smell on a farm by using zeolite. Can put ZeoGold, H-, and BioEnergy into one drink.

Oral EDTA makes heparin work by mouth. No patients on Coumadin. Likes Boluoke. Essential Daily Defense (also in BCI) – has EDTA with mucopolysaccharide that has Heparin-like action in the body.

Bypass is a charade that is trying to bankrupt our country. PET scan would have to be used. There is generally collateral vessel formation.

Townsend Letter article for PEMF article with Milner.

Malondialdehyde – can be measured by urine or breath – tests for oxidative stress. Optimal is < 300. 2K machine and 10 dollars per use. Revelar test. Separates the healthy from the non-healthy. Only 5-6% of people doing well by this device. Can use test to motivate client to stay compliant with protocol. Can take people from 530 to 330 in 20 minutes with Garry Gordon program.

10K pill – cost of doing DNA analysis is dropping like a stone. *Experimental Man* – David Ewing Duncan – Mount Sinai – 20 tubes of blood to measure 220 chemicals.

Smart DNA test – 72 genes – 425 dollars.

Kobayashi – A World Without Cancer. Takes 9 tests to tell you how much cancer you've got. BRCA gene doesn't need anybody's breast to be cut off.

Dr. Gordon's List of Supplements – nothing stopped back pain, ability to sleep all night, heart issue until he added PEMF. Beyond Fiber clears up acne in women. Don't do anything without EDTA.

GreenMedInfo.com – put in symptoms – gives PubMed references organized by importance.

<http://www.pemf.us/info>

<http://www.gordonresearch.com>

Melissa Beaver – Neuro-Circulatory Restorative Therapy

Body technique helping people with PD, MS, ASD, stroke. Neuro-Circulatory Restorative Therapy – by removing muscle spasms, increases flow and symptoms decrease. People can get off medications. Did clinical trial with Parkinson's.

Working on technique for ten years. Looks for symmetry in the system to restore balance. Muscle spasm acts as compression and impacts vascularity. By removing muscle spasm and taking pressure off of nerve, one can interrupt the cycle.

PD patients from the ground up are tight. Usually cross diagonal push/pull. Once released and cycle interrupted it generally doesn't go back unless reinjured. For PD, MS, ASD takes about 2 years to fully complete the process. 100 hours generally to correct complex situations.

People who have been really athletic and active have more of these problems related to micro-tears and scar tissue. The slower the circulation, the more bacteria and other issues build-up.

Lee Cowden – do you see emotional releases? Yes though she tries to stay in the physical. Lee Cowden – we are not a muscle or a bone but a being with emotions and the spirit and mind have to be considered.

Session is 30 min to 2-3 hours.

Kettlebells – exercise to create long lean muscles. High pressure to low pressure in cycle. Adya minerals – helps improve the results.

Kellen – worked on him 4 times – foot turns in as a response to muscles being too tight. Has not had anyone yet that could not improve their symptoms.

Lee Cowden – when people have stroke, often work on acupuncture points related to muscles to improve symptoms.

Dr. Lo / Dr. Cowden suggested that she may have rediscovered something on her own that Chinese discovered 3000 years ago. May be related to meridians.

With ASD, kids do better after they eat or bathe. Parasympathetic and sympathetic – one is dominant. Kids are in sympathetic overdrive – something causes nervous system to redline. Have more stores to pull from but are burning through them as opposed to PD where you have no stores left. ASD kids are firing so rapidly that they cannot process the information.

CVAC – Continuous Vascular Altitude Compensation - Temecula – Dr. Kaslow. Pod that helps athletes. Like running at high altitude then low then high. Forces the body to adapt rapidly. May be a fluid dynamics therapy.

Dr. Cowden mentioned EWOT – Exercise With Oxygen Therapy. Can correct many chronic conditions by exercising for 2 hours under oxygen. Group in CO shortened exercise time – 100% oxygen for 20 minutes than 12% for 3 minutes then 100% oxygen for 10 minutes. Floods tissues with oxygen and nutrients and toxins move out and rebalances.

http://www.misfitla.com/index.php?option=com_content&view=frontpage&Itemid=1

Dr. Lin Lo – Double Helix Water – Quick Introduction

Dr. Lo discovered a new solid phase of water that does not melt at room temperature.

He postulates that helix water is what makes up meridians. Repairs meridians and supports energy balance. Whatever a needle can do, the double helix water should be able to do.

He can show benefit of the water using thermogram before and after consumption of the water. White is hottest, red is less, green is healthy. Most autistic kids have gastrointestinal problems which can be observed on thermogram. After 15 minutes, majority cool down on the thermogram and have a healing effect. Small minority actually heat up, whatever they do, their body is decaying faster than they can tolerate. Too many drugs or too many toxins may come out of the body and they may feel itchy all over the body. Double Helix Water improves basic healing mechanisms.

Kellen – showed heating up after the water. He showed some problems but not that serious. 15 minutes later, his back was the worst. Blood would go to neck and spinal cord. Neck is worse than spinal cord.

<http://www.doublehelixwater.com>

Dr. Dietrich Klinghardt MD, PhD – CCSVI and Vascularity

1974 started thesis; published in 1978 – angiology – study of blood vessels. Looked at collagen diseases and reaction of ANS on the lining of blood vessels. Immune system, nervous system, and vascular system interact. Learned neural therapy to access the ANS and open blood supply to the brain. Most successful for opening blood circulation at time was procaine and Reserpine. Now available in transdermal patches that can be put in front of the neck.

Neural therapy branches into neural therapy without needles – developed techniques with laser, microcurrent, and hands-on approaches to use ANS as a fuse box to light up blood flow in certain areas of the body.

Dietrich discovered he was heavy metal toxic and became a big voice in how to detox people. Came across path of autistic children from work in detox. First person to bring DMPS to the United States.

He realized that 90% of action of DMPS is in endothelium of the kidneys. Other 10% from blood vessels elsewhere. People think they detox the brain, connective tissue, etc. Not true. They are detoxing the vascular system.

Dr. Rimland was a leading voice in autism. Did poll on parents on top interventions helping kids. First was chelation, second was GF diet, third was melatonin. Dr. Klinghardt was redeemed when this information came out.

DMPS is not a chelating agent; it is a complexing agent. Chelating agents do not work well for autism. DMPS, DMSA, GSH, etc. are complexing agents. Agents known to detox vascular system were his focus.

Brilliant osteopath Chris Hussar in 1992-93 specialized in cavitation surgeries in jaw to relieve infections. Taking the amalgams out and correcting bite improved brain. Detox agents do not cross blood-brain-barrier. Improvement was from detoxing the vascular system.

Radio-labeling research has shown that first uptake through oral mucosa goes to vessels in the neck and thyroid. Metals migrate down and attach to substances having sulfhydryl groups.

Hussar had worked with Lida Mattman who discovered CWD (cell-wall deficient) microbes. Once a spirochete becomes an L-Form, it is quite invulnerable to antibiotics. Lida believed America was undergoing a mass invasion of microbes that was silent and unrecognized by the general medical community. Almost every individual she tested had CWD microbes. Microbes don't stay in the blood; they move into connective tissue.

Spirochetes can move in two seconds from mouth to genitals not using the blood as transport route but using connective tissue at speed 2000x faster than WBCs. Many chronic pain patients had Lyme disease and other chronic infections.

Got good at identifying many chronic illnesses were chronic infections. Treating infections resolved back pain and sciatica. Pain clinic in Santa Fe in 1996 was one of three pain clinics. They looked at toxins and microbes.

Met Dana Gorman and worked with Tami Duncan to start LIA Foundation. Tested 8 kids and 6 were Lyme + with Western Blot. 1998 – detoxing and doing Lyme treatment and having good results with autistic kids.

Skin has surface of 2 square meters. Gut has 2 tennis courts. Endothelial surface is 2 square miles – largest organ of the body. Vessels could run from surface of earth to moon.

CCSVI is only 2 inches of 250,000 miles that have to be looked at. Many failures in CCSVI may be due to the fact that there are other places to look.

The endothelium is involved in production of hormones, melatonin, neuropeptides, growth factors and other substances. Bugs live in endothelium. Microbes cover themselves with a coat of fibrin.

WBCs cannot get at bugs. They start getting angry and trigger the entire immune system. This is erroneously called autoimmune disease. There is not such a thing as autoimmune disease. The immune system has been outsmarted by microbes.

The main bugs impacting endothelium – Borrelia, Babesia, Bartonella, Chlamydia Pneumoniae, Rickettsia – vascular endothelial bugs create inflammation and immune reaction. Inflammatory response leads to scar formation and swelling of the endothelium.

Strep in tonsils can lead to heart problems. This same concept happens in other valves. Bugs need to find places on the side of stream where blood does not move so quickly. Not a lot of force, full of nutrients.

Zamboni paper – Lyme patient sent. Was like a bomb going off when he first read it. Found vascular restrictions in anterior neck with iron deposits. Main Lyme treatment has been liposomal artemisinin. Main malaria treatment in Africa – 100% effective. Led to Bill Gates buying all fields to destroy them. Cheap, inexpensive. Huge treatment for Lyme to make liposomal artemisinin – it is an iron chelator.

Zamboni – iron deposits – correlated to what Dietrich was doing with artemisinin treatment. Restriction in outflow means restriction in inflows. Flow in cranial sacral therapy is a similar concept.

Where there is a restriction in flow is where microbes and toxins get the upper-hand. CCSVI is most likely not genetic but more likely a longer-term inflammatory process. If you have vascular infections and heavy metals, inflammation is a given and more of an issue on the venous side where there is low pressure. This backs up the blood, forces collaterals and other things.

Lida Mattman - illness affects most people. Will be difficult to find “normals” for CCSVI.

Findings: Can predict outcome of CCSVI procedure. If proven Lyme or high heavy metals, this predicts a poor outcome. Three key markers for poor outcome. TGF-b1 (related to cancer and growth of blood vessels for tumors; needed for collaterals), C4a, and MMP-9.

Chronic mold illness or chronic Lyme patients have elevation of TGF-b1. Already have growth factors for new vessel growth. TGF-b1 was high in the group that did not improve after the CCSVI procedure. C4a – goes up with chronic inflammation; binds toxins and microbial antigens. Main researcher is team at National Jewish.

If C4a is high, even more than TGF-b1, balloon will fail. VEGF was disappointing in predicting outcome. C4a done by LabCorp is worthless; needs to go to National Jewish.

MMP-9 – when you are a bug and you live in connective tissue, to move easily, must make tissue softer. Bugs have mechanism to trigger elevation of MMP-9 to dissolve proteins. When tissue is nice and tight, MMP-9 is generally lower. MMP-9 is zinc dependent. Goes up when things are really bad.

C4a is most sensitive and goes up early, TGF-b1 next. MMP-9 is like nuclear bomb and need to bring down inflammation in the system.

Hair analysis – toxic metals and essential minerals. Metals come out in the hair only when the person has functional detox pathways. Those are the healthy patients. Essential minerals – if on deficiency side, this is a toxic metal retention pattern and suggests bad CCSVI procedure outcome.

Has done 60 CCSVI balloon cases. About 1/3 have good improvement. 1/3 a little. All had temporary improvement. Memory came back for 3 days. People realize that they are “still in there”.

Therapy before CCSVI is critical to a successful outcome.

To Lower TGFb1:

Berberine/Oregon Grape Root effective at 500mg BID.

Curcumin – one of most important adjuncts in cancer therapy.

To Lower C4a:

Treat Lyme and mold. Treat the main bacterial infections and minimize mold exposure.

Lyme can be treated completely without antibiotics. Both Dietrich and Lee Cowden have been successful in this path. When making things liposomal, increases antimicrobial power of it by hundreds of times.

To treat mold, cannot treat in person unless you address EMF environment. Grew mold in lab and protected one from EMF. 600x more toxic biotoxins produced when exposed to EMF. Cell phone radiation is a factor. 4G worse than 3G.

Have to diagnose and treat bacterial infections. Mold treatment – does not use Shoemaker’s approach. Shoemaker is a big hero, though they are on a different page with regard to treatment. Treat with Rizol ozonated plant oils. More effective than Diflucan.

Rizol ozonation creates over 600 new antimicrobial compounds. Powerful but compatible with human life. Mold biotoxins inflame the endothelium. Pull out with high dose fish oil and chlorella. Shoemaker uses Actos

and CSM. Few people tolerate Actos. PPAR receptor is involved in throwing out biotoxins from cells. Message given to cell by Actos to induce PPAR. Chlorella does far better at low doses – induces PPAR.

Mitigate electrosmog in house – fuses off. Cordless phones are a significant problem. Energy delivery is similar to 737 jet. Get corded phone. Daytime for EMF – Stetzer filters to clean up electric field. Sleep Sanctuary over bed to shield 99% or more of incoming microwave. Integral part of mold treatment.

Using earthing pad which has added a new powerful dimension. Do earthing pad with sanctuary, fuses off, and corded phone. C4a drops.

He does not do CCSVI without doing these steps first.

Lee Cowden – see if mold or fungus is still growing in house.

ERMI from Mycometrics. Score needs to be under 2. Goes together with TGF-b1 and other elevation markers for inflammation.

In Washington state, most homes are highly pathological with molds. With EMF environment we create, people can no longer live in states with heavy air moisture. High natural mold environments are not safe.

NASA maps for mold show WA and Gulf states covered by mold. California will make people sane a little longer.

MMP-9 represents severe inflammatory changes – falls down with TGF-b1 and C4a decrease. High MMP-9 is an indication for zinc restriction. When giving zinc to someone with MMP-9 elevation, MMP-9 goes way up. Body is trying to deplete zinc to adapt and giving zinc may be a problem. Giving zinc counteracts something nature is trying to do as a compensatory mechanism.

Lee Cowden comments that Shoemaker suggests looking at C3a. Dietrich has given up on C3a. Anyone half treated for Lyme will have low C3a.

60 adults, non-MS scanned in Atlanta and other locations. John Nelson worked as EAV practitioner and discovered Dr. Haacke for Dietrich. CCSVI Center in Frankfurt, Germany. Mostly people with context of Lyme and mold illness; feel awful on the inside but look normal on the outside.

Symptoms of CCSVI - Brain fog, short term memory loss, insomnia, FMS pains but not at normal trigger points, eye problems, swallowing, vibration, numbness, fine motor problems, tinnitus, lack of zest.

Have not had one in Zamboni criteria less than 3 of 5. Most were a little more than 4 of 5 and several 5 of 5. All 60 had Lyme diagnosis in lab.

Testing MS patients 3 times results in 98% Lyme +. MS is late outcome of Lyme disease.

Lyme lab testing is looking at immune responses. Lyme bugs attack and kill the part of the immune system that normally responds. Antibodies often not found. Treat then test and will have higher + Western Blot results. Maybe common denominator in CCSVI is not MS but Lyme disease or inflammation.

4 of 5 kids tested with autism were positive for Lyme disease. With high CCSVI + in Lyme, started to test autistic kids. Have had 9 kids scanned in Europe – had 5 with the balloon procedure done. Two kids with severe seizures had balloon and both kids were cured from seizures without medication. Finding same results with kids in autism as adults with MS. Collateral vessels observed in ASD kids with big veins almost gone on ultrasound. All kids had major improvements on social scale, language development, and sleep. All of the 5 kids were significantly treated before the CCSVI procedure.

Haacke Study – within first few seconds of holding breath, one jugular stops flow. Once stabilized, jugular flow comes back, reduces, and vertebral vessels come to life and expand.

James Earl Jones – complained of severe migraines. Was watching TV several hours a day with head turned to look at the TV. Dietrich suggested moving TV and migraines resolved.

Noticed when people had a successful balloon, they often had posture changes from neck jutting forward to normal position. Body posture may be influenced by vascularity.

Mark Haacke - balance improves and posture improves. In 1930s, it was believed that some of MS was caused by vascular spasms. Glutathione increases blood flow and conduction velocity which may impact recovery of MS patients. Perfusion – if source of inflammation and at microvascular level, there may be a perfusion deficit. Need to do perfusion imaging beyond vascular imaging. Inflammation can cause reduction of venous flow. There is reduced perfusion to the MS brain. By removing inflammation, local vascular supply may be enhanced.

David Berg showed study in 2003 where fibrin coat on inside of vessels triggered by microbes. Delivery of oxygen to RBC is usually in 0.2 seconds. When fibrin coat is present, takes 4 to 6 minutes. You can have normal blood flow and no oxygen delivery. Flow may be tip of iceberg compared to oxygen delivery.

Treatment Options: treat chronic infections, mold, and electrosmog. 12-13 cases show that when MMP-9 is elevated, mitigating electrosmog, can bring way down. Cell phone radiation elevates MMP-9 which correlates with inflammation in the vascular system.

Yoga exercise – headstand – Yoga chair with cutout for head and two bars. No pressure on the neck. Start with 1 minute per day working up to 1 hour upside down per day. Phenomenally improving for the venous system and the brain. Kids read books upside down. Backswing gravity boots has a disadvantage of being a stress on the ankles and creates problems for anatomy of ankles.

Headstand treatment done for 200 years in Russia without problem. Requires cooperation of the patient or child. When you first go upside down, you think you will get a stroke but then the body adapts.

From NASA research, inversion activates genes that are not otherwise activated. It is a huge thing. Inversion can dilate jugular stenosis. Do before and after imaging to see how headstands impact CCSVI issue.

Indication from having done inversion for about a year – almost everyone approves. Get fluid column of six feet pressing on the vein. Dilates the veins. Will not resolve true valve issue, but there are several things going on that are opened up this way.

As long as you slowly build up the time, there should be no contraindication. No knowledge of increased stroke or bleeding. Helps to lower blood pressure if elevated. So far, have seen only good things though teeth, sinus, throat, etc. may hurt as areas get blood that normally do not.

Inversion table from Overstock.com – Dana Gorman got one.

German osteopath doing hands-on work. Relaxing anterior neck muscle by stretching receptors in the muscles. By lengthening the muscles, you create more room for the veins to move blood through. Anterior neck treatment done in Germany.

Rhythmic head compression. Kid lies on table with hand on front and back of head and slow compression with full body force. American moms don't do it. In Germany, 9 of 10 mom's do it. Do same to liver squeezing halfway-processed material into bile ducts. Similar to gallbladder flush. Dana mentioned that Sharper Image may have a device for the rhythmic treatment. Mental clarity and function goes up. VCS testing improves. Retinal blood flow is related to cerebral blood flow and to ability to see contrast with VCS test.

Compression should be tried with autistic kids and any adult Lyme patient. Tapping of acupuncture points winds down sympathetic nervous system and increases parasympathetic tone. EFT, TFT, etc. abceft.com

BSFF – Be Set Free Fast – an emotional technique.

Treating infections, detoxing, and reducing EMF are key pre-interventions before CCSVI. After CCSVI, headstand/inversion is key to longer-term success.

If someone was well until 18 and gets ill, it is naïve to assume that the restriction caused the MS. There are some that believe that CCSVI may be genetic, but this doesn't seem to be likely.

Changing fluid dynamics is everything in this game. Veins are low pressure.

Supplements:

TGF- β 1 down – Curcumin and Berberine are dynamite.

2 homeopathics - Heel Witch Hazel used orally and rubbed on neck. Witch hazel constricts veins and heals veins. Pleo-Muc – known to cause vasoconstriction – homeopathically opens veins. Comes in ointment and drops.

Arginine does not work on the venous side. Activates viruses which are also involved in inflammation of veins. Largely disappointing.

Fish oil has not worked. Hoffer Niacin, Vitamin C to fix vascular wall has not worked.

Collagen has been good – Bernd Friedlander. Lyme spirochetes are collagen eating bugs – they eat hyaluronic acid. Lyme settles in places with highest collagen. Putting collagen in another place in the body like bait to draw out the bugs. Put collagen in Lyme cocktail and can almost feel bugs moving from joints to gut. See improvement in vascular flow as bugs may also moving towards collagen.

MK7 – not helpful for venous issues though good for arterial vascular disease.

Bee venom ointment – peptides effective against virus and spirochetes. Cleans up vessels when used topically. See positive changes in ultrasounds with bee venom. Best bee venom ointment in the world still has methylparaben in it which can cause cancer. Comes from Canada.

Ginkgo has not worked on venous side though be good on arterial side.

Blood thinning strategies – Heparin, enzyme-based thinners, Vitamin E and Garlic. Fish oil (works on arterial side). Heparin shots or sublingual – increased rate of osteoporosis with Heparin therapy. Some hesitation with Heparin. Article shows heparin for 1 week anywhere in life, cancer rates are ¼ throughout life. May be used to prevent later cancer.

Diluted HCl IV can be helpful for infections but not for venous side. Can be irritating to veins; increases WBC. Comes from Torrance company.

The things that work on the arterial side don't necessarily work on the venous side. It takes different remedies to work on the venous side.

Leading cardiologist in London discussed fluid dynamics of how heart works. Heart contracts and pushes blood through arterial system and enough pressure left for venous system is naïve. The pressure is used in the arteries. Today, nobody knows how the blood is returned to the heart. Conclusion is that endothelium is highly involved in returning blood to the heart in a way that is not fully understood today.

In Lyme disease, Paul Cheney has found fatigue can be related to right-sided cardiac filling defect. In average Lyme patient, 40% less blood arrives back to the heart. Venous side is the last Wild West territory in medicine that is not understood.

In office, use EECF from China. Blood pressure cuffs go on legs. When heart relaxes, cuffs inflate to return to the heart. Returning blood to heart artificially. Results are phenomenal in improving brain function. CCSVI parameters dramatically improve with EECF.

Lymphatics follow veins in the body, not arteries.

Silica (BioSil) is effective in Lyme cocktail. May help with bone healing. In homeopathy, silica is used for chronic sinus problems and breaking down mucous. Known to be on the venous healing side. Up to 20 drops 3 times a day. Horsetail does not seem to work.

Keith mentioned that Silica helps with EMFs. Dietrich asked a famous doctor what one thing to look at to heal the body, and he said silica. Silica is a magical thing that is not appreciated enough. Organizes the matrix and is a semiconductor with magical properties. Silica is needed in the connective tissue.

<http://www.klinghardtacademy.com>

Dana Gorman – NeuroVasculopathy to Optimal NeuroVascularity

8 of 8 children with neurological disorders have been CCSVI+.

Total Body Burden Viscous Cycle – offers visual representation. Upper left is the THRIIVE.com Top 10 – EMF, Sun, Lack of Pleasure, Stress, No contact with earth, etc. <http://www.toptentodo.info/>

Dr. Klinghardt mentioned CCSVI at Summit #9. CCSVI information is difficult to get on the Internet. <http://ccsvi.us> has been launched to collect information on CCSVI.

Kellen puts head in a forward position. This may be in an effort to assist his vascular system.

Analogy of a plumbing problem. Vein is vulnerable to damage compare to arteries.

26% of controls have CCSVI. Many have a tremendous response to treatment. Some MS patients start walking within days of “Liberation”. With our American lifestyle, we will all need a Roto-Rooter from time to time.

Lee Cowden mentioned the 26% were relatives of people with Lyme disease. In Dallas, they have imaged 8 patients and found one that was perfectly normal.

Nerves aren’t asleep; they are paralyzed.

Andrew Moulden – when kids are vaccinated, they lose symmetry of facial features – increased cytokine reaction to vaccinations causing mini-vascular strokes. He lines up red blood cells with conductive water.

Is it possible that the problem with the nerves is the loss of vascular nutrition?

Traumatized Body Total Burden Saturation Syndrome – body temperature and vascularity. Triad of death is coagulopathy, hypothermia, and metabolic acidosis.

Their interstitial pockets may be swelling. Every successful treatment works at vascular level - just in different locations.

Where does the artery meet the nerve meet the vein? Thriving cell – artery comes in and goes to lymph interstitial fluid where neuron gets what it needs and leaves through vein. Interstitial fluid with suboptimal conductivity and hypercoagulation is the start of the disease process. Venous return starts to get clogged as well. In CCSVI, clog results in backpressure and less incoming blood.

American RX model is to make you believe that you have nothing to do with your symptoms. Many doctors focus on relieving symptoms, not root cause.

Optimize Body Fluid Dynamics: Conductivity, gravity, geometry, motion, pressure.

Oxalates stick in venous tissue. Oxalates, copper, amyloid – associated with body's need for sun.

Water – test urine conductivity 2x day and uses conductive water – starting with distilled – 12,000 mS, pH just about 7, Room temperature.

Lee Cowden mentioned testing saliva pH. Fulvic mineral complex will increase conductivity. Do not want urine specific gravity below 0.05 or above 0.15.

Food for Flow – Vegan, Raw, Low Fat, Low Protein, Low Oxalate, No Refined Carbs. Exception is happy healthy animal products with full enzyme spectrum intact (low heat).

There is a diet that got you where you are, a diet to get you back, and a diet to keep you well.

Lee Cowden – avoid GMO, avoid pesticides but can use free range animal products.

Never increase heart rate without moving until back to resting heart rate, Kettlebells, do aerobic exercise at ½ time to create longer, leaner muscles.

Lee Cowden – super slow exercise can do 30 minutes per week and get same as 30 minutes per day.

Measure conductivity of water with multi-meter. The more gravity of urine, the more conductive.

Minerals and water - biggest factor that affects conductivity per Dr. Cowden.

Never sit still – rock, swing, twist, bounce. Never let your geometry suffer.

Elevate body temperature, inversion and suspended inverted rotation, liver/gallbladder flushes, Neural Touch Therapy.

Supplements that don't saturate – never swallow. Spray (sublingual), rub (transdermal), sniff (nasal), breath/nebulizer.

Lee Cowden – children with autism have a damaged gut (most damaged) and cannot depend on gut to help them out.

Joe Mercola – supplements are in addition to diet, not in place of diet.

Lee Cowden - Vast majority of digestion is from bacteria in the gut. Bacteria in gut often do not get enough trace minerals from foods alone. SAD diet has no mineral content due to depleted diet. Bacteria cannot get the minerals that they need for the enzymes required to make vitamins needed by the body.

Morningstar Minerals – New Mexico – seabed mineral

Detox with Dilution

Kellen's MRV

Haacke – Kellen's MRV – 2 dominant jugular veins. See those veins very well but don't see a lot of other veins.

Recommendation: Repeat MRV. Do a perfusion scan with Kellen. Measure oxygen saturation to see if there is enough delivery of oxygen.

Detroit, Las Vegas, and soon Newport Beach for MRV. In 1930's didn't have imaging. Now we do and are obliged to look into this further.

Dr. Allan Sosin MD – Masking Technique and EECP

Kellen's doctor for 7-8 years. Kellen constantly puts head forward. When masking in mornings, he will hold his head back for 20 minutes. By subtracting oxygen from air he is rebreathing, masking sends a signal to brain to shunt oxygen to the brain. Dr. Moreno suggested doing masking as part of Kellen's MR eval.

Institute treats CP, Down Syndrome, strokes, many different types of brain injuries. Many kids with CP have seizures and then drugs for seizures are another issue. Mask is put on and breathing in and out. Rebreathing of carbon dioxide that you exhaled last time. Carbon dioxide drives respiratory center. Brain then makes you breathe. Start to breathe deeper and more rapidly after 30-60 seconds. Leave mask on for up to 90 seconds. Dilation occurs and get more brain blood flow. More blood flow to brain and to heart. Tissues will grow and work better. Kids get masking 30-40 times per day. Cold hands and feet often become warm. Breathing is deeper. Color improves. Seizures diminish. Masking is a part of a larger program. Contraindicated if shunt in heart. Adults with elevated carbon dioxide levels to start with are not a candidate. Masking can raise blood pressure. Masks are difficult to get due to Institute criteria.

Masking may be a good option for people with CCSVI according to Dana Gorman. Lee Cowden – Ki therapy for seizures can be helpful.

Sarge Goodchild – has pulmonary medical supply store. Gets anesthesia masks. Take collar off. Get ZipLoc gallon bag for adults. In kids, do several sizes of masks cutting down gallon size bag or using quart size bag. Cut corner off bag. Stick cut corner through the collar. Get tubing from hardware store and cut off other corner and tape tube into corner. Throw away zip log bags but masks can be cleaned with warm water and vinegar and reused. Can put a drop or two of vanilla extract on cotton and swab inside of mask to make it more enjoyable for the child. Oxygenates the brain and brings clarity to the child. Increasing carbon dioxide just enough to induce deep breathing. Once you achieve that you don't want them deep-breathing carbon dioxide. Does masks once every 5 minutes.

Mask trains a person how to deep breath and over time this becomes the natural default. Sarge did masking personally for 4 years. Went from seizure drugs to none with masking and other treatments. He had severe epilepsy. Was told he had autism, CP, mentally retarded, etc. Masking may also be helpful for preventing stroke. Activehealing.org

Dr. Sosin – EECP – devised in Boston by Harvard docs in 1964 as treatment for congestive heart failure. 3 cuffs – 1 around calf, one around thigh, one around waist. Cuffs are blown up with air. Initially done with water and people would get wet. Cuffs inflate sequentially. When heart is relaxing, cuffs inflate forcing blood back to heart in reverse direction. Coronary arteries develop collateral circulation. People with blockages get new collaterals. 35 one-hour sessions generally used. 1000-2000 compressions. EECP can improve ejection fraction. Increase circulation everywhere in the body. Effect continues beyond the treatment. Increase in endothelial growth factors and other peptides that remain elevated for months after a series of treatments. Vascular changes occur with EECP. Child with kidney disease with creatinine of 15 waiting for transplant – treated with 35 treatments of EECP – maintained creatinine for 3-4 months to avoid dialysis and get kidney

transplant. Washes lactic acid out of muscles. Shaquille O'Neal has used. Can be an athletic performance enhancer. May help Fibromyalgia and anti-aging potentially.

Need to time with cardiac cycle and need high pressure. 80-90K for the device. EECF not used in kids. Treatments cost 5K for 35 treatments. 50% increase in renal flow, intestinal flow. Often lowers blood pressure.

<http://www.iprogressivemed.com>

Michael Payne – A Better Brain

Michael had an accounting degree and was a banker. He broke his neck. He then stayed home for 3 years and started taking classes at University of VA. “Where your madness is, is where your genius will be.” After being his own first patient, he worked with his father-in-law on his health. 2000-3000 clients later now. Next patient was IBS patient that needed *Saccharomyces boulardii*.

In referring to how we are all unique, Michael says, “When you’ve seen one child with autism, you’ve seen one child with autism.”

He just wasn’t going to give cod liver oil and probiotics. His focus is on the rehabilitation of the subtle energy system for people with complex autoimmune reactions. Politics within practitioners and organizations makes it difficult for children to actually heal.

2 Christmases ago, read book “The Other Brain”.

Glia – more than a glue. There are glia transmitters, not just neurotransmitters. Brain has communication. What if you can regenerate or create other pathways?

Glia are old-school AT&T = email, snail mail. Astrocytes = start to text. Microglia = tweet

The brain forms social networks – there is communication that does not require neurons. You really are Wi-Fi or a plasma antennae that sends and receives.

Had kid with black mold and vaccination same week. Started treating child every hour homeopathically and twice daily with nutrition. Used ZYTO for reversing and imprinting homeopathics. From Valentine’s Day to Easter, the child went from twitching and moaning in bed to jumping on a trampoline. Six weeks, 12 doses a day of homeopathic remedies designed by ZYTO.

ZYTO is a good tool if you stay in harmony with it and know how to use it. It is much like grinding a plant until you understand the spiritual value – same thing happens with the ZYTO.

Now includes foot bath, laser, and Rife/Tesla therapy in his treatment program. Energy medicine is hard for a Republican from West Virginia.

Seeing kids becoming ill deeply affected Michael. Predisposition exists. He asked a group of 200 if they had MS, PD, night blindness, thyroid issues, migraines, etc. 77% had in family. Looking back generationally, you can see disease patterns.

Autism is post-viral, post-microbial shock. It affects the brain stem the most and he sees heat in cerebellum, pons, meninges, medulla, etc. Could what Michael sees be related to CCSVI?

A neurotoxic brainstem is the threshold event for hypervascularity and microglial activation. Alters immune pathways. Dysregulates mTOR pathway, p53. Causes unregulated cell growth and redundancy in neurons and glia. Imbalances in immunity allow opportunistic infections to flourish.

Fungus is the bottom feeder.

Matrix – if you have leaky gut, probably have leaky brain. Leaky brain -> leaky veins. Extracellular matrix may be the informer; holder of information that informs cell membranes what to do. Matrix may be the Great Barrier Reef. Collagen is an important part of the matrix. Cell communication that travels through the body needs a balanced body. When matrix is cleaner, we start to get information to the right places.

Connective tissue is true basal regulating system. Communication between cells takes place through the matrix. Information is stored in matrix and messages are sent to cells as instructions.

Peptide signaling molecules dysregulate immune, nervous, endocrine systems. Neuroscience diagram showing IL-6, TNF α , etc. Actos quells NF κ B but has severe long-term problems.

Th1/Th2 regulating information is sent through spinal cord, but if congested, information does not get to body. Most kids are Th2-dominant resulting from vaccines.

Waste has to get through matrix and be transported to the bloodstream for removal.

Space between the bars that holds the tiger. Silence between the notes makes the music. Empty space between the collagen holds the information. When dirty, can get less information through it.

99% of metal toxicity is in the matrix per Dr. Klinghardt.

Homotoxicology – progression or vicariation of material in body that starts with Humoral response, leads to Inflammation, to Deposition (deeper in cells), to Impregnation (general issues with organ function), to Degeneration and finally Neoplasm. Need to reverse backwards out of the phases.

Created Blood-Brain-Barrier integrity survey in the ZYTO. The brain itself often looks good but the brain stem is where most of the problems concentrate.

Brain should be talking like fiber optics but once it gets inflammatory molecules, it talks like two cans with a rope. There is confusion in the transfer of information through over-wiring of microglia. Sees large endothelial cells.

Worked with a family in Austin where dad had cancer in brain, Asperger's child, Lyme child, selective mute child. Find underlying theme – mTOR pathway – when VEGF and inflammatory responses are present – get over-vascularization. You get oxidative modification and increased cytokines.

Get Lymphostasis – jelly trying to get out of the body after burn. Genetic SNPs in liver. Phase 1 of liver detox, metabolites can become more toxic as they can't get through liver. Never improve without bowel and liver function. Some have a sliding glass door to get "junk out of the trunk" and others have a small window.

Intestinal Health – get yeast and lose integrity, leads to leaky gut. "From The Time You Chew To the Time You Pooh, I Know All About You" – his planned book title.

Methylation cycle – when you become toxic, things breakdown. Methylation breaks down – can't get things out. Michael works with MDs, PharmDs, and MomDs.

Did Yasko for 1.5 years and decided it wasn't really it. Sulphur is really a big deal. Ammonia is probably a big deal. CBS breaks down and cleave in different directions – make high taurine and ammonia but no glutathione. Can IV GSH, drink it, nebulize it.

SUOX/CBS combination – full of sulphur and everything backs up. When someone has flaming red ears, red cheeks, think phenols, think sulphur per Dana.

SNPs may be factors in MS, PD, etc. Dr. Cowden – poisons NO cycle and cannot get vasodilation.

Michael is an expert in BH4 – it is needed to make transactions. If being used to mop up ammonia, cannot be used for intended purposes. Dr. Cowden – you make peroxynitrites if NO impacted. Martin Pall book on NO.

Using Neo-40 (<http://www.neogenis.com>) to increase nitric oxide. Likes a lot but not using on kids yet. Studied at University of Houston.

Solamar Intensive – working with People's Pharmacy – Stands Alone With Integrity. Most up to date integration of conventional medicine and recent advances in homeopathy, homotoxicology, and psycho-neuro-endocrine-immunology. Integrating modern diagnostic technology, physiology, evidence-based nutrition and homeopathic remedies.

Energy, Matter, and Information. Natural Detox (likes homeopathy). Communicating molecules from 4C to 6X – IL10, IL12, Interferon Gamma. If he can clean you up and get these back in, now signaling molecules can be driven with laser or biophotonic modulator. You cannot solve a physics problem with biochemistry.

Does Nutra-Physical with ZYTO. Builds personal treatment plan. Had 24 year old that did a remote ZYTO with – saw testicular cancer stressors with stacking questions and confirmations. Suggested he go to doctor and client had stage 3 / stage 4 testicular cancer. Showed inflammation in spinal cord in Michael's own ZYTO.

Can do sarcode challenge to see how far out of normal a healthy signature is. Created Cytokine Balance on ZYTO. Uses cytokines to see if an infection is active or just exposure.

Endocrine survey - always sees hypothalamus / pituitary. Oxytocin, vasopressin, etc. are made on back of pituitary which is often damaged. Oxytocin for bonding and socialization.

Janet Lang – instead of spitting in a tube, run on ZYTO. Use Brain Map as a remedy to imprint purine receptor, etc. in remedy.

Homeopathy was fun but still something was missing. Pulsed Technologies – Jimmy Holman. Started reading Nenah Sylver's book. PFG2 generator. Michael believes in plasma as transmitter of appropriate frequency. In the extracellular space, nutrients can be suspended until driven in by biophotonics.

Has taken everything and put on a Netbook that comes with frequency generator and creates frequency panel for clients. They rent or buy – about 8K total. Have whole frequency medicine cabinet. Also uses cold laser when needing a more direct light as in supporting pituitary. Can drive nutrition in to a deeper level.

Every cell has a biophoton. Cancer cells do not have photons. When you are out of light, you are gone. Juicing won't bring the lights back on if the fuse is blown. To get signal through, need to drive it using photons.

Even though it is expensive, need to push through to start the cellular process. The light is too low. When starting in autism, what if a lot of autism is the distortion of light and rods and cones don't line up. Rhodopsin (in LEF) receptor. What if we are defected by vaccination or pollution that keeps us from interpreting light in the proper way. We are impacted by microbes, pollution, and EMF.

We can't see the light anymore. When an ASD kid is looking to the side, don't turn their head to have them look at you, because they probably already were.

Joe Mercola – sun glasses ruin vision. Regular glasses also filter out some necessary UV wavelengths.

<http://lwtinternational.com/>

Dr. Shin Lo PhD – A New Solid Phase of Water and Its Healing Effect

Dr. Lo was born in China. Educated in Hong Kong and got PhD in University of Chicago. He was a Professor of Physics in Melbourne, Australia for 20 years.

Of 10 biggest mistakes in science, 2 of them are in water.

He figured out theory of how water crystallizes into a solid. Humans are not complex when you get the essence of them. Chinese Medicine has been done for thousands of year. Distilled to meridian theory. Have Quantum Physics on the other end. Dr. Lo connected Chinese Medicine with Quantum Physics.

Meridians are made of up stable water clusters. Chinese use yin and yang and corresponding charges.

Systems <- organs <- cells <- molecules and atoms. Everything is made of a negative electron and an ion which is positive. Electrons, ions, and photons – the simple things.

CNS, Immune System, etc. How do they coordinate? Is it brain? Is it nervous system? Have to look at everything. Cells have no nervous system and they still function. The thing that balances everything is the meridian system. What system coordinates all of these cells? Many views are just partial views. You have to look at whole picture.

Points on face in thermogram are related to acupuncture points. These go deep into the organs. By looking at hot spots, you can tell what is happening to internal organs. One needle can be profound with a good acupuncturist. With thermogram, now you know where to put a needle.

Double Helix Water replaces the needle. It is probably not as effective as a needle in the right place. It is a health enhancer no matter what level of health you are at. It is not in conflict with whatever else you are doing.

Existence of Stable Water Clusters – diluting NaCl in very pure water. Analogy of a magnet. Without magnetism, we cannot function. Same as magnet but stronger. Double Helix Water is H₂O - purest water you can have. Discovered 15 years ago. One kind of stable water cluster has shape of double helix.

Life comes from water. No water, no life. From water to DNA, double helix water is a precursor to DNA. The brain gets better on double helix water. As you age, gray matter of the brain becomes harder and does not function as well. Double Helix Water may make the brain softer.

In autism, it is not the brain alone. It is the gut as well. Drinking the water and using cream should help.

Lee Cowden – how much double helix good for Kellen each day? 2 glasses a day. 50 drops per gallon of distilled water. Next best is RO. No other waters – nothing with ions because they have a charge.

Is the product sensitive to X-ray or computer? No, but UV impacts it.

Perfect health = perfect symmetry. All one color on thermogram. Everyone can improve after 15 minutes from drinking Double Helix Water.

<http://www.doublehelixwater.com>

Dr. Jeff Wulfman MD – Total Microbial Burden – Inflammation, Neurodegeneration, and Perfusion

Look at role of total microbial burden and how it relates to chronic disease and vascularity.

Look for underlying problems.

We are not sterile; we are a super-organism. We are “colonies of creatures”. An amalgam of human cells and microbial cells that must function in a synergistic way.

Never before has there been a more complex all-encompassing alteration of our overall biologic fitness. Microbial load, novel EMF stressors, sedentary living, stress, toxicity, etc.

Average mineral content from 1914-1997 – most minerals are gone in soil – even in organic foods. Lost vitality of plants that traditional cultures eat which have hundreds of micronutrients. We only eat half a dozen or so different hybridized species that have had important components bred out of them.

Number one source of calories is high-fructose corn syrup. Joe Mercola says now that it is pastries, cookies, donuts, etc.

If one consumes a high glycemic meal, long lasting changes and NFkB and can shift DNA of a person for up to two weeks; hyperglycemia impacts the vascular system.

Alter diet, toxin, stress, etc., what shows up? Global immune dysfunction, organ dysfunction, and alteration of host microbiota and leads to increased total parasitic microbial burden.

Get increased microbial burden – those in us latent become active, decreased ability to keep suppressed and down. Acquisition of new microbes. Zoonosis or transmitted microbes are increasing. 15 years ago tick bites were uncommon. Distribution of vectors and pathogens within vectors have exploded. Less able to clear infection and have chronic persistence instead of acute infection followed by clearing.

Effects of stressors escalate with each generation via epigenetic effects or microbial or toxin transmission.

The perfect storm – multi-generational influences – nutrient issues, toxic load, immune challenges, total microbial burden.

Symbioses can be mutualistic (both benefit), commensal (one benefit, one unharmed), or parasitic (one benefiting and the other harmed). Relationships can fluctuate.

Parasite Paradigm – harm and benefit concern the biological fitness of the organism involved. Parasites are survival specialists. Genetic manipulation, quorum sensing among microbes, gene exchange and other defense strategies - biofilm, intracellular, etc.

For parasites to persist, they have to suppress, evade, or subvert the immune system.

Spirochetes try to establish a permanent symbiosis. Parasites can control behavior and thoughts. Toxoplasmosis can cause mice to walk right up to a cat.

Emerging infections in chronic disease – chronic infection is a driver of chronic illness. New opportunistic infections – through loss of host defenses, previously harmless organisms can produce disease. Once rare are now commonplace. Infections previously only seen in HIV are now seen more regularly. Immune suppression is more the norm.

Infection and Autoimmunity – pathogen and immune load involved. Burden of infection over a lifetime may lead to autoimmunity via molecular mimicry.

We are not sterile – 40% of people in one test have CWD organisms in the blood. Took people with diabetes and nothing grew in culture. Break cells and put in special medium, CWD organisms found in 71%. All culture of unlysed blood were negative.

CWD life cycle – exist in elementary reproductive units in or on RBCs. Get emergence of different bacteria depending on the kind of culture medium. 80% of patients show coccoid forms on RBC from Fry Lab testing.

Organisms like to exist in biofilm communities to interchange antibiotic resistance information, communicate and exchange genetic information.

There are complex interactions between us and our environment and microbes and their environment. We have “us” and microbes within us. At the juncture of that relationship is the immune system. Anything that affects us or the microbe affects overall balance and creates symptoms and illness.

Emotions impact antibody levels. Frustration and anger drop immune response. Compassion and caring increase the immune system.

Lee Cowden – In patients being screened for AIDS if that were told they had AIDS, they drew the blood again and NK cell function dropped in half in 5 minutes. The fear of having the disease immediately shifted their immune system.

Microbes are associated with mental symptoms and mental illness.

In autism, kids are 16 times more likely to have bacterial and viral infections. 80% of kids have coccoid forms attached to their RBCs.

Commonalities in neurodegenerative conditions – inflammation, immunological and cytokine elevations, association between inflammation, reduced blood flow, microglial activation.

In a primate study, giving antigen to stimulate microglia and given immune challenge, get 3 times more cytokine release.

Mercury is ubiquitous in all of us. Microglia are chronically activated. Any systemic challenge that promotes a systemic inflammatory response may contribute to the outcome or progression of chronic neurodegenerative disease. Food antigens, food reactions, etc. can cause inflammatory responses in the brain impacting the progression of the neurodegenerative disease.

Inflammation anywhere makes you die faster. Inflammation in the gut results in 70% increased risk of death over 40 years.

Inflamed mothers – how does it impact offspring? Significantly. Brains of offspring are impacted with prenatal immune activations. Neurotransmitter changes are observed as are changes in the brain. Behavioral changes have been observed.

Inflamed, toxic, and high microbial burden moms lead to kids that are inflamed, toxic, and have high microbial burdens.

Microbes – don’t have to be in the brain to inflame the brain. Can still lead to widespread cerebral inflammation. Most studies with vascularity focus on the arterial side. High antibody response to pathogens correlated to inflammation. Infectious burden and risk of stroke have been correlated. Infections and atherosclerosis have been correlated.

The viral pathogen burden in the elderly has been associated with cognitive difficulties. Women in pre-term labor, found 17 bacterial species in amniotic fluid. Those with no pathogens in amniotic fluid did not go into pre-term labor.

A higher concentration of pro-inflammatory cytokines results in worsening of depression. Immune mediated serotonin and glutamate alteration.

Judith Miklossy – iron essential for bacterial growth. The host detects microbial invasion and sequesters iron away to keep away from infections. It might be the body's response to hide the iron. Free iron is often very low as an adaptive response to hide the iron from the infections. Joe Mercola suggested if you are sulphur deficient, you cannot sequester the iron.

Many pathogens attempt to circumvent iron withholding defenses. There is a battle for iron between microbes and their host. Microbes have higher iron access in RBCs.

Areas of iron sequestration could be where body is trying to pull iron away from microbes. Klinghardt – Babesia is an iron eating bug and Borrelia can go without iron. Manganese feeds Borrelia.

You may hurt patients by withholding magnesium even if biofilms are an issue.

Borrelia can infiltrate vessel walls. Atypical cystic forms of Borrelia do exist in the brain. Leads to gene alteration and increased inflammation. 7.5 times increase of TNF alpha transcription. Pro-inflammatory cytokines remain elevated in the brain. People with Lyme have elevated anti-neuronal antibodies.

Alzheimer's Disease – Miklossy was looking for spirochetes in the brain for 20 years. 91% of Alzheimer brains contain spirochetes. Control samples were negative. Not just Borrelia but also oral spirochetes. Would expect to see similar results in MS and other neurodegenerative conditions.

Cowden – SpiroStat – 100% of ALS patients have Treponema denticola.

Lida Mattman - found spirochetes in CSF of 100% of MS patients.

Chlamydia activates endothelial cells. Found in MS, Alzheimer's.

97% of MS had Chlamydia. Chlamydia gets inside neutrophils and cause them to die to get into macrophage where Chlamydia pneumoniae wants to be.

Anaplasma prevents apoptosis as it wants the WBC to be its home. Microbes tremendously influence genetic expression. Mitochondrial dysfunction could be result of microbial infection.

Ehrlichia inhibits mitochondrial metabolism. In every dysfunction, you can generally find a link to microbial involvement.

Kids with ASD have elevated mitochondrial DNA floating around. Mercury induces loss of tolerance to self-antigens.

Mercury + microbes results in far less ability to clear the microbe.

Vascular – in Alzheimer's, there is endothelial activation. Endothelial cells in presence of infections and inflammation become damaged and create scar tissue.

Lyme encephalopathy – issues with blood flow. Cerebral blood flow abnormalities have been associated to specific conditions based on results of SPECT scans.

Chronic systemic infection exacerbates ischemic brain damage. Endothelium becomes quite injured with spirochetes.

Bartonella directly parasitizes endothelial cells and activates NFkB. Klinghardt – no one has yet thought to look for infections in endothelial tissue related to CCSVI procedures.

Klinghardt – we are not rushing into the balloon procedure. 30% had good success with post-treatment and normal inflammation markers. If inflammation markers were still not normal, the results were less positive.

We are at a diverging point as a species. We could drift into increasing dysfunction and decline or we could drift towards true mutualistic symbiosis. Wulfsberg sees heightened intuition, perception of good and bad,

and other positive things in some with Lyme infection. There is a lot stacked against us and the trend is not good.

Importance of self-care has become much more important. So much is stacked against the younger generation. We know something that society at large does not know. The message here is huge.

Dr. Lo – Double helix water makes stronger sperm, egg, and baby. Become a QiGong master to navigate the future.

<http://www.autismone.org/content/parasite-paradigm-complex-paradigm-lyme-borreliosis-and-chronic-infections-dr-jeff-wulfman>

Discussion On What Each Practitioner Does To Improve Their Own Health

Dr. Cowden – lives in country away from EMF, turns fire off at night, organic garden from Native Seeds, drinks well water no chlorine, fluoride, etc., works hard on emotional and spiritual being. Can't control everything. Earthing.

Dr. Mercola – lives on lake, diet, flora optimization, high intensity exercise

Dr. Wulfman – lives on top of mountain with own chicken, eggs, vegetables. Juicing. Restorative sleep. Physical activity. Emotional/spiritual health. Basic supplements with omega 3s and minerals.

Sarge Goodchild – chiropractic, acupuncture, whole food nutrition, movement.

Dana Goman – Morningstar minerals / fulvic acid, Future's Unlimited, mouth appliance.

Kelly Gallagher – no sugar, more sleep, organic and raw foods, stays close to Dr. Cowden and Dr. Moreno, chiropractic, lymphatic drainage, paddleboard, yoga, EVOX.

Joe Mercola – ZEO gadget for sleep. Attaches to you to record your sleep patterns. How long to fall asleep, REM sleep, etc. 150 bucks. He learned he needed to sleep longer. Gives a score every night.

Scott Forsgren – Osteopathy, Acupuncture, Antimicrobials and detoxification interventions guide by energetic testing, ozone, melatonin for deep sleep, no gluten, Pilates, light and photonic therapies, Lots of emotional work.

Lisa Tully – living clean, meditation, yoga, hiking, stress reduction, laughter

Dietrich –sleep, EMF protection, lives in an area with less cell-phone radiation, continuous treatment like Lyme cocktail, metal detox, DMPS, organic food, moving towards raw food, less protein, antimicrobial strategies, being truthful about needs, removing negative friends that are too draining. Living in the moment and being honest; living what is true.

Sleep before midnight counts double. Gallbladder detox is between 11pm and 1am. If you miss this window, then you don't detoxify the liver from 1am-3am.

Chronic Lyme drives the evolution of an individual to make transformative personal changes. You can only help people that are sicker than you are.

Dr. Lee Cowden – CCSVI Research

At Summit #9 – Dietrich mentioned CCSVI which resonated with Dr. Cowden. Very few things resonate with him that strongly. He knew that there was something important here. He started looking through literature.

Decision was made to do a research study starting in Dallas to answer the question of why patients that have CCSVI and are dilated get recurrence. CCSVI is a chronic venous vasculitis. Get inflammatory reaction after dilation which lays down scar and results in restenosing.

Doing multi-staged study. Will collect diagnostic information the same for all participating clinics. Pre-diagnostic imaging with Doppler Ultrasound – less expensive, less invasive, what Zamboni used. If + ultrasound, can refer to Detroit for MRV. If patient has + study, want to get every patient tested with SpiroStat lab and other labs.

Ultrasound company purchased 250K machine from Italy designed with Zamboni specs and software. Only 1 other in the US. Technicians went to Buffalo and got trained by staff that were trained by Zamboni.

SpiroStat – new lab in Lubbock Texas. Capability of using Lida Mattman's CWD culturing technique. Have ultra-sensitive PCR testing to find minute amount of microbes. Draw blood from foot and hand and send both specimens to lab, get different bugs. Some bugs like greater acidity of venous blood in foot and others don't like acidity so they are found more in the hand. Klinghardt says Lyme spirochetes are known not to live in the blood.

In 2003, in untreated patients, they could see spirochetes with darkfield. 2 weeks after starting treatment, could see only a few. If crushing the cells, could see more. 2 weeks later could see only if crushing RBC. 2 weeks later, could not see any.

Want to do C4a and CRP and TGF-b1 for study. Each patient, gets a few free biosurveys with ZYTO to look for microbes and gets free thermography. Do not have to pay for ZYTO or thermography. Have to pay for blood test and ultrasound. Cost is about 600 dollars.

May prefer "Venous hypertension" term than CCSVI which is more associated to MS. Doctors can then use therapies that they prefer. One doctor using ¼ dose of antibiotics with IPT and are often well at once per week. Give insulin to get blood sugar down and given antibiotics with dextrose to get sugar into cell.

Get repeat of ultrasound Doppler to see if improvement in venous evaluation. If no change, will try non-invasive options like tilt table, inversion therapy, niacin, bee venom cream, etc. At some point, if nothing else works, they will get another Doppler. If problem still there, they will get list of practitioners with experience and skill with venous dilations. All data from each practice will be collected and shared with Academy CIM. Each patient will have a number. Can pool treatment type data to see what type of therapies may be effective. Ultimate goal is to get clinics in other places in country participating in the study.

Want feedback from people interested to incorporate feedback into the design. 2 year study.

<http://www.academycim.com/>