

Central Nervous System Care Protocol Bell's Palsy, Post-Stroke, Parkinson's, Alzheimer, Depression

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The central nervous system (CNS) includes the brain and spinal cord. CNS disorders range from anxiety, obsessive and compulsive disorders, focal seizures, or depression to more severe conditions including Bell's palsy, post-stroke symptom, Parkinson's and Alzheimer disease. An inflammation process with the activation of microglia, the innate immune cells of the CNS, is the hallmark of pathogenesis CNS disorders. The chronic activation of microglia causes the release of potentially cytotoxic molecules such as proinflammatory cytokines, reactive oxygen species, proteinases and complement proteins. These molecules which can damage the neuron and trigger scar tissue formation, further interrupting neuron function (1, 2).

Activation of microglia can be caused by an injury due to conditions such as stroke, reduced blood and oxygen supply due to blood vessel narrowing or atherosclerosis, irritation by bacteria toxins due to condition such as leaky guts, and/or stimulation by the chemokines produced by liver innate immune cells, the Kupffer cell.

Cytotoxic molecules due to chronic activation of microglia can cause neuron malfunction, damage or death. Depending on the types of injury and the location and function of the neuron, patients may experience symptoms ranging from mild conditions such as muscle cramps, focal seizures, depression, tremors, poor memory, numbness, or lack of muscle strength, to severe condition such as paralysis, Bell's palsy, Post-stroke symptoms, and Parkinson's in severe cases. Chronic inflammation can cause scar tissue formation which blocks the neuron activity resulting in symptoms of speech difficulty, memory loss and Alzheimer dementia. Brain inflammation can be aggravated by overactive liver Kupffer cells. Over activated liver Kupffer cells produce chemokines which can stimulate and upregulate the brain microglia. Symptoms include anxiety attacks and obsessive and compulsive behaviors and patients may have a hard time controlling their emotions and urges.

In TCM, brain inflammation is due to chronic microglial activation and the resulting high levels of cytotoxic molecules is referred to as heat in the brain. The overactive of liver Kupffer cell is referred to as liver heat. Stimulation of the brain microglia by chemokines produced by liver Kupffer cells is referred to as "liver yang rising". The liver yang rising can further aggravate the brain heat.

Wei Laboratories' CNS treatment solutions clear the toxic molecules to bring the activated microglia to its normal base line by using Platinum to remove the brain heat. Brown and LC Balancer nurtures the liver to improve the lipid metabolism and help improve brain function. Hepavin is also required to clear liver heat and calm down the liver Kupffer cell. If patients have scar tissue in the brain, Gold with LifeGen and/or Qi Booster is required to help clear the scar tissue and stasis. For patients with mild or moderate conditions and there isn't severe brain structural damage, symptom improvement can be expected with 1-2 weeks of treatment. For more severe conditions, it will take 1 month to show symptom improvement. For conditions involving brain structure damage, it will take 2-3 months to experience symptom improvement.

1) Muscle Spasm, Tremors, Sensation of Numbness, Tics and Restless Leg Syndrome (RLS)

One of the major causes of muscle spasms, tremors, numbness, tics and restless leg syndrome is abnormal brain activities caused by localized brain inflammation or focal seizure symptoms. The brain inflammation and harmful cytotoxic molecules released by activated microglia can cause neurons nearby to become hyperexcitable, which leads to an uninhibited release of excitatory neurotransmitters, such as glutamate. The neurotransmitters induce a discharge of cortical neurons, resulting in abnormal sensations and muscle contractions. Upon the release of a burst of cytotoxic molecules, patients will experience abnormal brain activity followed by symptoms which may include a wave-like sensation,

feeling hot, burning and pressure inside the brain, numbness or tingling, twitching, burning crawling sensation, muscle cramps, jerking of a limb, temporary inability to speak, anxiety, or panic attacks. Restless Leg Syndrome is characterized by throbbing, pulling, creeping, or other unpleasant sensations in the legs, and an uncontrollable and sometimes overwhelming urge to move them. Symptoms occur when a person is relaxed or at rest and can increase in severity during the night due to the reduced inhibition by conscious neuron activity.

The treatment with Platinum, Hepavin, LC Balancer and Brown helps clear the neuron toxicity due to brain inflammation by removing the brain and liver heat to resolve the related symptoms. Patients can experience symptom improvement in 3 days. A 4-6 week treatment is recommended to have significant and sustained improvement.

2) Seizures

Grand, focal or partial seizures are caused by central nervous system disorders. Grand seizures are characterized by convulsions with massive muscle spasms throughout the body and loss of consciousness. It occurs after an episode of abnormal electrical activity in the brain with synchronized bursts or a discharge of cortical neurons from increased neuron activity that releases excitatory neurotransmitters, including glutamate. Focal seizures, or partial seizures, occur when this electrical activity remains in a limited area of the brain. Such abnormal neuron activity can be caused by the irritation of high amount of cytotoxic molecules released by the microglia due to brain inflammation.

Treatment with Platinum Capsules, LC Balancer, Hepavin and Brown helps to resolve the symptoms of seizure by clearing brain heat and liver heat. Patients can experience symptom improvement with 3 days of treatment. A 4-6 week treatment is required to have significant and sustained improvement, and 6 weeks to 3 months of treatment is required for patients with a grand seizure.

3) Depression

Depression is caused by decreased levels of dopamine and serotonin. Patients usually experience displeasure, unhappiness, low energy, hopelessness, and/or pessimism. Patients may have suicidal thoughts or commit suicide in severe cases. Brain inflammation can be the major cause as blood vessels can be pressed upon by an inflamed brain. Without enough blood supply, the neurons are starved and thus cannot produce the needed neurotransmitters.

Treatment with Platinum, LC Balancer, Hepavin and Brown helps reduce brain inflammation and restore blood circulation to the brain. Patients can experience symptom improvement with 3 days of treatment. A 4-6 week treatment is recommended.

Depression can also have other causes. Brain blood vessel inflammation or blockage by clots and plaques can also cause reduced blood flow to the brain. If patients have such conditions, Resurgen is recommended to reduce brain blood vessel inflammation, and Surgenin is recommended to remove clots or stasis in brain blood vessels.

Stomach lining degeneration can cause B12 deficiency which results in methylation dysfunction and insufficient production of monoamine neurotransmitters, including serotonin, epinephrine, and dopamines. This leads to depression, as methylation is a critical step in the biosynthesis of monoamine neurotransmitters. For patients with such conditions, our GI treatment, including SJ Formula, Spring Capsule and Formula B, is recommended to improve digestive health and B12 absorption.

4) Mood Swings, Anxiety Attack, and Obsessive and Compulsive Disorders

Psychiatric symptoms, including mood swings, migraines, anxiety attacks, obsessive behaviors, compulsive or intrusive thoughts, excess anger, uncontrollable urges, or addiction to stimulants, can be caused by brain inflammation or brain heat that results from liver heat or "liver yang rising". With the

treatment of Platinum, Hepavin, Brown and LC Balancer, patients can experience improvement in 3 days. A 4-6-week treatment is required to have significant and sustained improvement.

5) Bell's Palsy

Bell's Palsy is a condition that causes a temporary weakness or paralysis of the muscles in the face due to inflammation of the nerve that controls the facial muscles. The nerve inflammation is caused by neuron injury from cytotoxic agents released by the activated microglia in the brain ⁽³⁾. The nerve inflammation results in one side of the face drooping and the inability to open or close the eye on the affected side.

Wei Lab's treatment recommendation includes Brown, LC Balancer, Hepavin and Plantinum. The treatment helps nurture the liver and eliminate the nerve inflammation to resolve the condition. Patients can experience symptom improvement with 1-2 weeks of treatment, and 4-6 weeks of treatment is required to have significant and sustained results.

6) Post-Stroke Recovery

Stroke occurs when the supply of blood to the brain is interrupted. There are three types of strokes. 85% of strokes are ischemic strokes caused by blocked brain arteries. Such blockages are often caused by blood clots formed either in the brain arteries or outside the brain. The heart is usually the source of the clots. For example, in patients with Mitral Valve Prolapse, the backward flow of the blood to the left atrium can result in thrombi formation. Fatty deposits in the arteries within or outside the brain can also cause the blockage.

The second type is hemorrhagic strokes caused by rupture of brain arteries. These ruptures are caused by hypertension, trauma, blood-thinning medications, and aneurysms.

The third type is Transient Ischemic Attacks (TIAs) caused by temporary disruption of blood flow. TIAs are similar to ischemic strokes in that they are often caused by blood clots. According to the Centers for Disease Control and Prevention, over 1/3 of TIA patients will have a major stroke within a year if they have not received any treatment, and 10-15% will have a major stroke within 3 months.

Strokes occur quickly and their symptoms often appear suddenly without warning. The main symptoms of stroke are face drooping, speech difficulty, paralysis or weakness, and numbness of the face, arm, or leg on one side of the body. It is caused by damage to the brain from interruption of its blood supply. Reperfusion of the occluded blood vessel following the ischemic attack can lead to the generation of high levels of reactive oxygen species (ROS), causing even more damage to the brain. The ROS triggers profound immune response with the release of a variety of cytotoxic agents by the microglia including more cytokines, matrix metalloproteinases (MMPs), and nitric oxide (NO). Although the acute immune responses are greatly reduced later on, the microglia may not resume to its normal baseline. Scar tissue will be forming due to the chronic inflammation. Patients usually have difficulty gaining full recovery, while developing other complications such as depression, epilepsy, chronic pain, and dementia (4, 5, 6).

To speed up the recovery, the recommended treatments include Brown, LC Balancer, Platinum and Hepavin to reduce the brain inflammation, and Gold and LifeGen to dissolve the scar tissue. Xcel may also be required to support the kidney in filtering out the wastes. Patients can experience symptom improvement with 2 weeks of treatment. A 3-4 month treatment may be required to have significant and sustained improvement.

7) Parkinson's Disease

Parkinson's disease is a chronic, progressive neurodegenerative disorder that results from loss of dopamine generating neurons in the Substantia Nigra. Dopamine is a neurotransmitter that helps control the brain's reward centers and regulate movement. Brain inflammation due to microglia

activation and increased levels of cytotoxic molecules can result in neuron damage leading to the loss of the dopaminegenic neuron in the Substantia Nigra ^(7,8).

The primary symptoms are tremors, stiffness coupled with slowed movement, impaired balance, loss of automatic movements or bradykinesia, and depression. As the condition progresses, scar tissue can form, which further interrupts the neuron function. Patients will also experience speech difficulty, memory loss, fatigue and cognitive impairment.

To help control the tremors and reduce the needs for Parkinson medications, the recommended treatment includes Brown, LC Balancer, Platinum and Hepavin to reduce the brain inflammation and remove heat toxins. If patients also have speech difficulty and memory loss, Gold and Qi Booster are required to help dissolve the scar tissue. Xcel may also be required to support the kidney in filtering the wastes. Patients can experience symptom improvement with 2 weeks of treatment. After 3 months of treatment, patients can have a reduced need for their Parkinson's medications and a reduction in symptom severity in bradykinesia.

8) Alzheimer's Dementia

Alzheimer's disease is a progressive brain degeneration that slowly destroys memory and thinking skills, and eventually the ability to carry out the simplest tasks. Alzheimer's disease is the most common cause of dementia among older adults. Its symptoms include memory loss, language problems, and unpredictable behavior. The disease is characterized by the formation of amyloid plaques and neurofibrillary tangles that disrupt normal brain function.

To help improve memory, the recommended treatment includes Brown, LC Balancer, Gold and LifeGen to dissolve plaques and fibrotic tissues in the brain. Xcel may also be required to support the kidney in filtering out the wastes. Patients can experience symptom improvement with 2 months of treatment. 3-4 months of treatment may be required to have significant and sustained improvement.

Selected Case Studies

Case 1: Successful Treatment of Stenosis, Bell's Palsy and Depression

Michael Yuen, LAC, PhD, Santa Rosa, CA (October 2015)

60 F patient was diagnosed with spinal stenosis. She had extreme pain and had to use a cane to walk. The patient also had Bell 's Palsy with half of her face paralyzed, constant nerve pain and body pain, eye droop and depression. She also had a cyst in the jaw. Since the patient's condition is very severe, Dr. Yuen decide to use Wei Lab's stenosis protocol with 8 Large WHITEE Patches, 3 LC Balancers and 2 Brown formula.

After only 3 weeks of the treatment, patient saw really positive results on her stenosis condition. Dr. Guan commented that it is about 40% improvement, a huge improvement. Patient can walk much better without the use of a cane anymore. Also, lost 10lbs.

After 6 weeks of treatment, patient is seeing further improvement on her stenosis condition and would like to pursue treatment of her face paralysis. Dr. Yuen believes the cause of her face paralysis might be the brain malfunctioning and recommended to add the Hepavin and Platinum to the treatment which help clear the brain heat and liver heat to normalize neuron activities. To help the cyst in the jaw, a small WHITEE Patch was applied.

After 1 week, the treatment literally made the nerve pain go away completely with the face tightened up. Patient's mood is much more positive and she looks much younger. Lost 50lbs of weight. Energy levels are great. A lots more mobility in the full body. The treatment really cleared something going on in the brain level. Doctor could see the improved brain activities. Her eye no longer droops. Her eyes are not completely closing yet and Dr. Yuen is continuing with acupuncture treatment. Both patient and doctor comment that the improvements are remarkable and treatments are truly productive considering the old age, the severity of the condition and the short period of treatment.

As the patient continues the treatment for 3 weeks, she sees further improvement with her depression greatly improved. She has reduced her medications from 7 meds to 5. There is more alertness in her face. Overall, the treatment results are amazingly positive. She has never experienced anything this great with any other treatment.

Case 2: Successful Treatment of Post-Stroke Speech Difficulty

Janet Beach, RN, Grand Rapids, MN (August 2015)

88 M patient was looking for help for his post-stroke recovery to improve his speech. He had ischemia in some parts of the brain recently. The patient is an attorney and is having difficulty in his speech after the stroke with difficulty to carry on a full sentence. Had a trans-ischemic attack couple of years back. Patient also has some leg weakness and is depressed and withdrawn with some memory loss.

After evaluating the overall symptoms, a treatment with Wei Lab Brown Formula, LC Balancer, Gold and Qi Booster was recommended to help nurture the liver and clear the scar tissue in the brain which was caused by the stroke and may be affecting patient's speech. Since patient did not have significant musculoskeletal symptoms and was not bed ridden except some weakness in his leg, the Pantinum and Hepavin were not recommended. An exercise program instead was recommended to help build muscle strength in his leg. Fish Oil and Antioxidant were recommended to absorb free radicals.

Patient took the four formulas at ½ dose and after 2.5 months, he can speak complete sentences and remember things better. There is something you can see in his eyes and he seems more alert and aware. Before, he was staring at the universe. Patient continued improvement and can carry on more sentences after 3 months of treatment. After 3.5 months, patient's son comments he is acting more like he used to. After 4 months, he is talking more and is no longer upset and withdrawn. However, patient is still having difficulty to carry on a full conversation. Considering his age, the Xcel was recommended to enhance kidney function. Patient is still seeing further improvement.

Case 3: Successful Treatment of Parkinson's Disease Symptoms

Dr. Charles B. Lerner, MSAc, DC, of Bantam, CT (February 2016)

A 67-year-old male patient suffering from Parkinson's Disease called to consult with Dr. Charles B. Lerner. The patient complained of having tremors and bradykinesia. He had been taking Sinemet and Rasagiline as his only source of treatment. Without these medications, it has been impossible for him to move without tremors. He also complained of suffering brain fog.

Dr. Lerner recommended a 1 month treatment with Wei Laboratories Brown Juice (half dose), LC Balancer liquid, Hepavin and Platinum as a trial. 2 weeks into the treatment, the patient reported that he woke up in the morning feeling so well that he didn't feel the need to take his standard western medications. He also commented that he felt he didn't need the Hepavin as his mental state was good. Under the patient's circumstances Dr. Lerner agreed it was ok to eliminate the Hepavin from his formulas. So far, the patient has been excited with the results he has been seeing with the rest of his herbal formulas.

After one month of care, the patient reported very positive results. Prior to taking the Wei Lab herb formulas he was used to awakening at 6:00 AM and needed to take his western medications by 8:00 AM to control his tremor. Since taking the herbal formulas he was feeling well enough and without tremors that he has been able to wait until noon to 1:00 PM before taking his first dose of his western medication. The patient has been pleased with the results because taking less of the western medications will prolong their usefulness, thereby extending his ability to survive his disease.

Further treatment with Brown Juice, LC Balancer and Platinum have continued to be helpful and are recommended. The patient continues to see improvement. Symptoms of head bobbing with slowness of movement, which is usually present the whole day have diminished and is only present at the end of the day. He has stopped the use of Rasagiline and is only taking Sinemet at a reduced dose without feeling any of the aforementioned ill effects of

the disease. The patient is now on his third month of treatment and continues reporting the positive effects of the Chinese herbal formulas that Dr. Lerner has prescribed from Wei Laboratories.

Case 4: Successful Treatment of Dementia, Memory Loss and Atrial Fibrillation

Jack Kucheran, DC, Calgary, AB, Canada (February 2016)

An 86-year-old female is suffering from early onset of dementia and memory loss. She also has a history of atrial fibrillation and sometimes even experiences blackouts despite recently having a pacemaker surgery. She reports having low energy levels overall.

Dr. Jack recommended a 2-month treatment with Brown, LC Balancer, Xcel, Gold and LifeGen at half doses to support her kidney and liver health along with nurturing her brain. Pacekeeping was recommended to target her symptoms of arrhythmia.

After 1 month of treatment, she reported feeling better with an increased amount of energy. She felt Pacekeeping had further put her heart symptoms at ease. As far as memory, it was hard to tell.

After 2 months of treatment, she currently reports that she is doing very well with the treatment and has finally seen improvement in her symptoms of dementia and memory loss. Her memory is clearer allowing her to concentrate better. She is also noticing better sleep patterns. Dr. Jack is now doing manual procedures (functional neurology) to active the brain pathway to further help the patient improve along with the treatment.

References

- 1. <u>Dheen ST</u>, <u>Kaur C</u>, <u>Ling EA</u>, Microglial activation and its implications in the brain diseases, <u>Curr Med Chem.</u> 2007;14(11):1189-97.
- 2. Cameron B and Landreth GE, Inflammation, Microglia and Alzheimer's Disease, Neurobiol Dis. 2010 Mar; 37(3): 503–509.
- 3. Banati RB, Neuropathological imaging: in vivo detection of glial activation as a measure of disease and adaptive change in the brain, Br Med Bull (2003) 65 (1): 121-131.
- 4. Wang Q, Tang XN, et al THE INFLAMMATORY RESPONSE IN STROKE, J Neuroimmunol. 2007 Mar; 184(1-2): 53–68
- 5. Burguillos MA, Svensson M. et al. Microglia-Secreted Galectin-3 Acts as a Toll-like Receptor 4 Ligand and Contributes to Microglial Activation. Cell Reports, 2015; Mar 4. pii: S2211-1247(15)00140-0
- 6. Huang L, Wu ZB, et al, Glial Scar Formation Occurs in the Human Brain after Ischemic Stroke, Int J Med Sci. 2014; 11(4): 344–348.
- 7. <u>Wersinger C</u>, <u>Sidhu A</u>. An inflammatory pathomechanism for Parkinson's disease? <u>Curr Med</u> Chem. 2006;13(5):591-602.
- 8. Perry VH, Innate Inflammation in Parkinson's Disease, Cold Spring Harb Perspect Med. 2012 Sep; 2(9): a009373.