



THRiiVE.com Summit #11
Worms, Waves, Weeds, and Whatever Works
November 23-24, 2013
v1.1



Left to right: Tobin Watkinson, Dietrich Klinghardt, Jerry Sparby, Kerri Rivera, Scott Forsgren, Keith Morey, Dana Gorman, Melanie Gentile, Sargent Goodchild, Lee Cowden

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Nothing in this summary of the weekend’s events is intended to serve as medical advice or to take the place of a relationship with your doctor. No responsibility is assumed for any errors or omissions in the content of this document. The views expressed by the presenters may or may not reflect the views of this document’s author or the event organizer and its attendees.

Several of the presentations have supporting videos which can be found [here](#).

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Introduction - Dr. Klinghardt started off the 2-day think tank discussing our increasing environmental challenges. He introduced Dana as the host of “a powerful think tank”. Dana is a pioneer and mother that has brought many researchers together. She has both “a gift and a curse” of recognizing who to engage in these ongoing dialogs. This event was THRiiVE Summit #11.

Dana Gorman - Worms, Waves, Weeds, and Whatever Works

(<https://www.youtube.com/watch?v=JyhnZUHS1d4>) kicked off the event with her talk. She wanted to bring us back to creating consensus around healing concepts and what people should consider doing if they are new to these conditions. About six years ago, the THRiiVE Top 10 was created and refinements to it are now being proposed.

- **Life** – most symptoms are turf wars with microbes. Who is winning?
- **Energy** – your bugs like and dictate your frequency.
- **Water** – fluid dynamics dictate the percentage of your body the bugs dominate.
- **Food** – you are simply a guest at your bug’s dinner table. The microbes themselves tell you what to eat.
- **Exercise** – bugs thrive in bodies that don’t move very much.
- **Emotions** – every bug nest has a traumatic divot.
- **Test** – bugs hide from tests and are a distraction from instinct.
- **Body** – you are a hotel for the bugs. The ones you feed stay.

- **Supplements** – you fortify the bugs first and you get the leftovers.
- **Detoxification** – you cannot detox what you cannot access inside the bugs. Living bugs poop and dead bugs get pooped; if you are lucky.

Where water is not hydrating, the bugs have a party. Dr. Cowden mentioned that this is especially true with the lymphatic system and ground matrix. Toxic load builds up when we are not moving. Lymph is stagnant and backs up into the matrix and cells and creates an environment for the bugs. Dana mentioned that she likes Kettlebells as this has both flexion and extension movements.

Under everything physical is an emotional trauma. Parasites and Lyme “creatures” are difficult to diagnose. Dr. Klinghardt suggested that the bugs that show up on tests are a decoy. They are used by the intelligent bugs to push up the innocent ones to the surface so that we attack those. Underneath are the “monsters that are not seen”. Dr. Tobin Watkinson commented that H. Pylori hides under Fusobacterium.

Nasal sprays, transdermal preparations, nebulized, and sublingual options may feed the bugs less than oral administration. Dr. Klinghardt mentioned that once you clean up the parasites in the colon, you can use the colon to deliver vitamins into the system.

Mebendazole is an anti-parasitic that some use on a frequent basis.

Cleaning up the bugs is a different job than downregulating or killing them. Just because you kill them doesn’t mean they are coming all the way out. Dr. Cowden suggested that the bowels need to move 3-4 times per day. Killing microbes without moving (both physically and via bowel movements) creates a septic, toxic load in the system.

Dana proposed stage 2 of the “THRiiVE Top Ten”.

- **Life** - add Higher Power. Subtract miscellaneous antimicrobials.
- **Energy** – add “Sunearthing” and vibration. Subtract sitting.
- **Water** – add drinking water first thing. Subtract plastic bottles.
- **Food** – add Ketogenic and Paleo. Subtract misconceptions about who (you are feeding).
- **Exercise** – add Kettlebells. Subtract neurovascularity impiders.
- **Emotions** –add daily name, claim. Subtract by dumping.
- **Tests** – add daily pain assessment. Subtract found pain.
- **Body** – add Active Healing Top Ten To Do. Subtract sitting still.
- **Supplements** – add cannabis. Subtract supplements in the gut.
- **Detox** – add Chlorine Dioxide and Adya Baths. Subtract cascade confusion (map the cascade; if you take x, it leads to reaction y).

Dr. Klinghardt mentioned that the Higher Power works through practitioners. Don’t wait for Divine intervention. We are all in the service of that. The dialog continued with others suggesting there is tremendous healing from hope and faith. Spirituality has to do with unconditional love, faith, hope, gratitude, and forgiveness.

Every time you come in contact with antimicrobial agents designed to kill bugs such as washing hands with alcohol gels or antibacterial soaps, you upregulate inflammatory genes and work against the goal of downregulating pathogenic bugs.

The sun is valuable only in the presence of free electrons at the same time. Exposure to the sun while earthing simultaneously can be very beneficial. Dr. Cowden mentioned that chemicals on the skin from personal care products and other residues can impair your response to the sun.

Dr. Klinghardt mentioned that the sun works through the retina and in the skin. It creates cytokines, interferon, and other important substances. We don't get any normal sun due to spraying of the atmosphere with aluminum and titanium. The sun we are exposed to is now distorted. We do not get normal sunlight anymore.

Dana mentioned two sites on that topic: <http://www.whatintheworldaretheyspraying.info/> and <http://www.whointheworldisspraying.com/>. <http://weathermodification.com/> has a tag line "When most people look up they see clouds. We see potential."

Sleep between 10pm and 2am is the most important and then we need to be up and in the sunlight to shut off the production of melatonin upon rising.

Dr. Cowden mentioned the importance of stretching. He also shared that working with a health partner can be productive as we often need someone else to help us see our "stuff" and you may better see someone else's "stuff".

Dana Gorman mentioned photons from an instrument called Light Relief. <http://www.lightrelief.com/>

Pain is an indication that the bugs need an eviction notice. Pain is the flashing light on the dashboard of the car.

Dana commented that the idea of a weed (cannabis for seizures) being part of the solution for these kids just resonates. There is a lack of clinical trials to support the use of prescribed anti-seizure medication. Anti-seizure drugs reduce seizures but also reduce quality of life. Sleep, communication, behavior, attention, and mood all get worse according to one study. Melanie Gentile, an RPh, mentioned that phenobarbital is an older treatment and still often the best. The best thing may have been the early drug that keeps getting "tweaked" for patent purposes. Sargent Goodchild commented that seizures are a good way to get bad energy out of the body. Melanie agreed "to a degree". Fabric softeners can increase seizures. The seizure is not the problem and may be the best solution for a problem in the body at that time. Dr. Jorge Moreno mentioned that some seizure medications interfere with folate and lead to detoxification impairments.

Toby Watkinson mentioned that aldehydes stiffen red blood cells which are about 7 microns and need to pass through capillaries that are 2 microns. Part of seizures is ischemia. Aldehydes convert to acetic acid with vitamins B2, B3, molybdenum, iron, and zinc. Seizures may be an aldehyde problem and a problem with neurovascularity due to the stiffening of the red blood cells. Ammonia can be another factor that impacts the citric acid cycle which goes to the urea cycle. May need magnesium, biotin, B6, niacinamide (phase 1 liver detox). Can have impairments in the conversion of fat soluble toxins to water soluble toxins which is needed to get them out of the body. Most people misunderstand detoxification. Detoxification is Phase 1, Phase 2, bile route, ammonia, and aldehydes. You have to fix the nutrients that run the pathways.

Melanie Gentile who has a daughter with seizures and is a pharmacist suggested trying the older seizure drugs first as the newer drugs may be more toxic. It may also work better not to use them every day.

Keith Morey from SuperGoodStuff.com mentioned that TMG solves a lot of these issues. Dr. Cowden mentioned that a seizure is a focus group of cells with lower transmembrane potential. Anything that can bring up the membrane potential may help. He mentioned Kaqun Water (<http://kaqun.eu/> and <http://kaqun.hu/>) from Budapest and that this potentially may be helpful for seizures.

Dana Gorman mentioned that ½ mg of Ativan via IV has helped her child in the past. IV electrolytes may also help with seizures. Dr. Klinghardt mentioned that some have found benefit from ocean water enemas for seizures. OceanPlasma or filtered ocean water. Oral Quinton water may also be of some value.

Dana highlighted the work from Sargent Goodchild with ActiveHealing.org. Masking, masking, and more masking was moved to #1 based on Dana's sense of how important this can be. On the horizontal plane, there is the "English Five", fetal crossing, fetal measuring, homo-lateral patterns, and crawling. On the vertical plane, there is

balance line, inversion/mild traction/ head weights, mini-trampoline, vestibular stimulations, and creeping/bear walks. A separate presentation on this occurred later in the summit.

Dana expressed an interest in talking about the undulation between pro-oxidant and antioxidant therapies. Chlorine dioxide is a pro-oxidant therapy whereas cannabis is an antioxidant therapy.

Kerri Rivera – Healing Autism and Chlorine Dioxide

(<https://www.youtube.com/watch?v=jAZ3aj4YvdI> and <https://www.youtube.com/watch?v=Tk3QY1kHYz4>).

Kerri Rivera is well-known in the autism arena for her parasite protocols based on chlorine dioxide. She lives in Puerto Vallarta, Mexico and can be reached via <http://cdautism.org>. She has written a book “Healing The Symptoms Known As Autism” which is currently #9 of books on autism on Amazon. The 1st edition of the book was released in May and the 2nd edition will be released in December. Her work has assisted in recovering 110 children in the past 3 years and 3 months. Additionally, her work has been helpful for people with Lyme, Chronic Fatigue Syndrome, Fibromyalgia and other similar conditions.



Her son was diagnosed with autism in 2004. She did HBOT with Dr. Bob Sands. Through her early connections, she was tasked to take the DAN protocols to Latin America by Dr. Bernard Rimland.

Autism is virus, bacteria, parasite, Candida, metals, inflammation, and food allergies. It is an excess of pathogens; not a lack of supplements.

Her protocol consists of:

- Diet
- Chlorine Dioxide
- Ocean Water
- Parasite Protocol
- Other Supplements
- Chelation
- Hyperbaric Oxygen
- GcMAF (injectable)

When using supplements, these are specific to the issues that remain; not to reduce deficiencies. Biofilm is fed by calcium and magnesium. Chlorine Dioxide is known to break the bonds that join the pathogens to the metals while oxidizing the pathogens themselves.

Step #1 – Diet - gluten free, casein free, soy free, allergen free, sugar free. Diet is very important. Fruit is allowed with the exception of citrus, mango, and pineapple as these have antioxidants that negate chlorine dioxide. Fish oils can be a problem given the Vitamin A and Vitamin E content. No fruit juice is allowed; no sugar-free, no fresh, no homemade; never juice. Vegetable juice is fine and does not impact chlorine dioxide. No canned fruit. Frozen fruit without cream or sugar is allowed. Apples, bananas, and pears are usually ok. The diet is not intended to address yeast, but with a goal of keeping the viability of the chlorine dioxide.

Agave, maple syrup, sugar, and honey should be avoided. Xylitol and stevia are allowed. Other problem foods include sugar, yeast, soy, foods that go by a number, cane, malt (gluten), corn syrup, and carrageenan.

Step #2 – Ocean Water - Vortex water is one ocean water that is often used.

This missing piece of the puzzle is chlorine dioxide (CD). It has a synergy with other parasite protocols. CD kills pathogens via oxidation – viruses, bacteria, Candida, and parasites are affected. With parasites, it may be that the effect is through making the environment uncomfortable for them and then the actual kill comes with synergistic parasites protocols. CD neutralizes metals; though some may still need chelation therapy. Inflammation is often reduced. Allergies may lessen as the pathogens that cause them are resolved. The immune system may be stimulated and biofilms may be removed.

Sodium chlorite + an acid activator (HCl or citric) result in Chlorine Dioxide (CD). The acid changes the pH which causes the sodium chlorite to become unstable and results in Chlorine Dioxide. CD has a positive charge. Pathogens have a negative charge. Healthy human body cells have a positive charge. CD is attracted to the pathogens and repelled by the human body.

CD is not bleach. Bleach is Cl whereas sodium chlorite is NaClO₂. After 60 minutes, chlorine dioxide is a grain of salt in the body. CD is strong enough to destroy pathogens but does not negatively damage healthy intestinal flora. CD oxidizes the toxins released by the pathogens as they die in addition to having a direct effect on the pathogen.

The strength of an oxidizer is measured in volts. Ozone is 2.07 volts. Hydrogen Peroxide is 1.8 volts. Oxygen is 1.3 volts. CD is .95 volts; the least oxidizing. Activators used are 4% HCl (1 drop HCl for every 1 drop of sodium chlorite) which is used for 60 seconds to make the conversion from sodium chlorite to chlorine dioxide. With 10% citric acid (5 drops citric acid for every 1 drop of sodium chlorite), activation takes 3 minutes; 50% citric acid (1 drop citric acid for every 1 drop of sodium chlorite) takes 60 seconds.

A dry shot glass is used to activate the sodium chlorite. Thus, 1 drop of sodium chlorite might be mixed with 1 drop of 4% HCl and then you wait 60 seconds. You then add this to water (not alkaline water). Everyone starts with 1/8th of a drop of chlorine dioxide eight times per day.

Our initial example was to add the 1 drop of sodium chlorite with 1 drop of HCl both into the shot glass. This is 2 total drops from a volume perspective, but once activated, this is considered 1 drop of chlorine dioxide. We then added eight ounces of water to a baby bottle, poured a small amount of that water into the shot glass after the 60 seconds activation had passed, and then poured the contents of the shot glass back into the baby bottle and sealed. The bottle should have a tight seal/safety disk. 1 ounce is then used every hour for eight hours the first day which is a total of one drop of chlorine dioxide. Then, the dosing goes up to two drops the second day and so on based on a table that is available considering the weight of the person. A maximum of one drop of activated chlorine dioxide should be used with one ounce of water. Once you go above 8 drops of chlorine dioxide in 8 ounces of water, you will need to further dilute each ounce with additional water for each of the 8 daily dosings. For specifics on how the increasing dosing works, review the PowerPoint presentation available on the THRiiiVE.com site.

Oral dosing is generally done 8-16 times per day. Enemas are done every day using 2 drops of CD per every 100 ml of water. Baths are done every other day with 20-80 drops of CD; stay in the bath for 20 minutes. There is a “72/2 Protocol” where you dose orally every 2 hours for 72 hours straight including the middle of the night. CD delivered via a humidifier is a newer approach and is done with 35 drops of activated CD per gallon of water.

For enemas, a 2 year old child might use 400-500 ml of water with 8-10 drops of CD. If you see parasites existing, it is best to do another flush. Can use catheter with plastic syringes or an enema bag. Fleet enemas are only 137 ml so generally not a good option.

Colonics can help support liver, gallbladder, and lymphatic system in addition to the colon. Some colon therapists may use CD in the water that is used for the fills.

Steam baths with 20 drops CD can be helpful for colds and asthma. If you turn on the shower to fill the tub so that it hits the drops and raises the gas into the air, when the tub is full you can turn off the shower and put the child in the bath benefiting from both the bath and the created mist.

With PANDAS/PANS, children can have aggression, tantrums, and self-injurious behaviors. 2 baby bottles may be used with 24 drops of CD in each bottle. 1 ounce from the bottle (diluted with additional water to ensure no more than 1 drop of CD per ounce of water consumed) may be used every hour for a total of sixteen times per day. Should be 5-10 minutes away from food. When having aggression, tantrums, self-injurious behaviors, double dose with 2 ounces of the baby bottle. These behaviors may be the result of pathogens releasing toxins that the additional amount can help to oxidize. In general for PANDAS/PANS, 2 baby bottles per day are used. 1 oz every hour 16 times a day. CD should be used 15-30 minutes away from food.

Once you have reached your full oral dose, if you observe die-off, yeast issues, parasites, aggression, tantrums, waking up at night, or full moon behaviors, double dosing with 2 ounces may be a consideration. 1am-3am is considered "parasite hours"; if waking around these times, a double dose may be appropriate.

Things that kill CD: pineapple, mango, citrus, C, CoQ10, alpha lipoic acid, E. Coconut milk is alkaline and will also neutralize it. CD is active in the body for 1 hour.

CD spray can be made with 10 drops per one ounce sprayer in water. Can be useful for the skin and some use for ears, eyes, and sniffing. CD drops can be made with 1 activated drop with water in one ounce dropper bottle. This can then be dropped into the eyes, ears, and nose. Can clean your toothbrush with it.

Regardless of whether a person has constipation or diarrhea, considerations are to replace flora and to kill pathogens. For constipation, CD enemas may be used with the oral dosing.

CDH is "Chlorine Dioxide Holding". It is a slow activation with a better flavor and can be sweetened with stevia drops. She likes the Sweet Leaf brand.

CDS is "Chlorine Dioxide Solution". Created by Andreas Kalcker for injection in livestock. Only the CD gas is captured in water. It can be good for enemas as there is no expansion of the gas in the intestines. CDS can be a good option for more sensitive people. It can last 6-8 months if frozen.

Reminder: 1 drops of sodium chlorite + 1 drop of activator is considered 1 drop of chlorine dioxide (even though by volume it is 2 drops). Reference to CD vs. activated CD are the same. CD results from the activation process with an acid.

With the humidifier approach, a question was raised about the moisture causing potential for mold in the environment. The response was that the CD would kill the mold so it should not be a problem.

Blemishes, blisters around the mouth, hives, or rashes on the skin are common when detoxing as a result of CD. At times, this can be related to viruses leaving through the skin. The CD baths can be helpful for rashes and blemishes over the spray since the baths are not as strong. Dr. Cowden mentioned that if the bowels or liver are toxic, more comes out through the skin.

Herxheimer reactions may present as hiccups, sinus drainage, fatigue, sleep changes, flushing, heartburn, gas, burping, bloating, chills, headache, blistering, nausea, vomiting. A Herxheimer can be managed by taking a break or the chlorine dioxide can be neutralized with orange juice or vitamin C.

Antioxidants are NOT compatible with chlorine dioxide. Mega-vitamin therapies are not conducive. B12 and iron deficiencies are the results of the parasites using these nutrients as food.

Fever therapy – fevers are a sign that the body is closer to healing. Fevers are the real thing and good in many cases.

Ocean water can serve as mineral therapy. Has 90 minerals that help to reduce fatigue and stress, improve brain conductivity, re-establish homeostasis, and detoxify cells inside and out. 1 part ocean water to 3 parts purified water may be used 3 times a day. Start with 5ml for kids three times daily and work up to 10-30ml. Adults may do 30-120ml three times daily. Ocean water enemas can also be helpful. Vortex (<https://wps4sale.com/store/seawater/vortex-ocean-water-1l-detail>) is a specific product that may be used.

Step #3 - Parasite Protocol - From Andrea Kalcker. Consists of mebendazole, pyrantel pamoate, neem, castor oil, and diatomaceous earth. Always started so that the 3rd day is the full moon. Castor oil is used orally every other day. Kerri likes Neem Synergy from BiopureUS.com.

There is an 18 day protocol with different items taken daily that is done once per month for 12-18 months. Dr. Klinghardt said that he has underestimated Mebendazole. There is a new study on its benefits in cancer treatment and it is by far one of the most effective pancreatic, colon, lung, and liver treatments for cancer.

Tapeworms lay 1,000 eggs per day. You may not find it with energetic testing when doing a cleanse and then you may find it again 2 days later.

Dr. Klinghardt mentioned that the rope parasite may be a sophisticated biofilm community. The entire community may be what is coming out. It often outproduces the killing that is being done. We have all underestimated how these bugs can outproduce the treatment. Parasites accumulate in environments with environmental toxins. We need some parasites as a protection from the toxins. Some are symbiotic creatures. The amount of parasites in us is in direct relationship to the body burden of toxins. The most effective way to detoxify is to let the parasites do it, but then you want to get them out whole.

Indications of parasites may include low B12, low iron, high ammonia, high oxalates, and low or high eosinophils. Dr. Klinghardt mentioned that oxalates may be an indicator for aluminum toxicity.

With the CD protocol, pinworms are often expelled. With the combination of the CD protocol and the parasite protocol, the rope worm may also be addressed. CD helps to reduce negative impacts of the parasite protocol. In some of the rope worm protocols, “dead water” is discussed. Dead water is very similar to chlorine dioxide. With chlorine dioxide, they do not see bloody heads of the rope worm like other protocols may.

Step #4 - Supplements - around 4 months into treatment. May use probiotics (Theralac), L-Carnosine, L-Carnitine, vegan Omega 3 and 6 oils (fish oils have antioxidants), GABA, enzymes, P5P, 5-HTP, L-Theanine, DMG, and TMG. YES PEO oils don't impact the chlorine dioxide.

For speech, may use L-Carnosine, GABA, TMG, DMG, B6/P5P, L-Carnitine. For seizures, with the use of CD and the parasite protocol, seizures often diminish or go away. Other supportive supplements may include MCT, HBOT 1.75 ATA, SCD Diet, L-Carnitine, P5P, Carnosine, GABA, DMG, and Taurine.

An ATEC score of 0-10 suggests no autism is present whereas 11-160 represent the varying degrees of autism with 160 being the most significant. ATEC scores improve even in order children or adults.

Alinia and Albenza are the only antiparasitics that cross the blood brain barrier.

Step #5 – Chelators - Bio-Chelat, Bentonite Clay, Zeolite, and modified citrus pectin may further assist with any remaining heavy metals.

Step #6 – HBOT - Don't do HBOT before the other steps or the parasites may benefit from the oxygen. 2 options:

- 20 sessions 90 minutes 1.75 ATA then every 3 months, 10 sessions of 90 minutes at 1.75 ATA (best)
- 40 sessions of 60 minutes 1.75 ATA then every 3 months, 20 sessions of 60 minutes at 1.75 ATA

Step #7 – GcMAF - recent research shows that GcMAF grows dendrites. Can be a “cure” in 15% of ASD and 80% of cancer. GcMAF should not be used before you have control of all the pathogens.

Chlorine Dioxide Demos

Kerri showed us how to make various CD options (<https://www.youtube.com/watch?v=Tk3QY1kHYz4>).

Spray - To make spray for the skin which may also be used for ears, nose, and face, you start with a spray bottle filled with water. Our dropper bottle was 2 ounces and you want **10 drops CD per ounce**. Thus, in the dry shot glass, you add 20 drops of sodium chlorite and 20 drops of the HCl activator. While this is technically 40 drops volume-wise, it is considered 20 drop of CDs (10 drops CD needed per ounce for making a spray). After waiting 60 seconds, we poured a small amount of water from the spray bottle into the shot glass and then poured the contents of the shot glass back into the spray bottle.

Drops - May be used for eyes, nose, and ears. **1 drop CD per ounce** of water. We used a 2 ounce bottle filled with water. In the dry shot glass, we added 2 drops of sodium chlorite and 2 drops of HCl. After waiting 60 seconds, we poured a small amount of water from the dropper bottle into the shot glass and then poured the contents of the shot glass back into the dropper bottle. For the ears, you can feel a seal after 1-2 drops in the ear. For the nose, 1 drop per side may be used. Lasts a couple of weeks until it turns clear.

Baby Bottle - everyone starts with one drop of CD per 8 ounces of water and takes 1 ounce 8 times per day without food. You never want more than 1 drop of CD per ounce of water. Thus, as you go above that in the baby bottle, you will need to add more water to the one ounce dose in order to further dilute it. You cannot add too much water. Similar to the above, you add 1 drop of sodium chlorite with 1 drop of HCl in a dry shot glass. The baby bottle is filled with 8 ounces of water. After waiting 60 seconds, we poured a small amount of water from the baby bottle into the shot glass and then poured the contents of the shot glass back into the baby bottle. The amount of CD to use is based on a table and goes up over time; see the presentation or Kerri's book.

CDH (Chlorine Dioxide Holding) – has a better flavor. Start with a 600ml bottle and fill to 550ml with water. Add 25ml sodium chlorite and 25ml HCl activator into the 550ml water. Cap and leave overnight in a dark cabinet for 12 hours. 1ml CDH is the equivalent of 1 drop of CD. Keep refrigerated and consider moving to a small mouth bottle. Can use Stevia to sweeten. When dosing, a 1ml amount of CDH would then be added to additional water. You would not take it directly.

There are test strips available on Amazon (search “Chlorine Dioxide Test Strips”) that allow you to test that chlorine dioxide is still active and has not been neutralized or is no longer viable.

CDS (Chlorine Dioxide Solution) - you use a large glass container with a lid and a small glass that will be placed inside of the larger container. 1 liter of water is added to the larger container. No water should be in the smaller glass in the center. 75ml of sodium chlorite and 75ml of HCl are added to the smaller glass in the center. The lid of the large container is sealed for 12 hours. The gas from the sodium chlorite and HCl in the smaller

middle glass becomes part of the water in the larger container as the gas is released. You have to be careful when opening the larger container as gas can escape. You lift out the smaller glass that contains the sodium chlorite and HCl and then put the solution from the larger container into a small mouth bottle. 1ml of CDS is 60% of 1 drop of CD. Keep both CDS and CDH in the fridge. CDS can last 6 months in the fridge.

Humidifier - 1 gallon of water with 35 drops of CD.

Enema - can use a gravity bag with 20 drops of CD per liter. Syringes and catheters can also be used for enemas. MightyGuts.com has 140ml syringes and catheters. You can fill 3-10 syringes with solution that is 2 drops CD per 100ml of water. Syringes can be used many times. Catheters are disposable. You want to do the first enema after a bowel movement. Coconut oil can be used for inserting the catheter. Generally do 1-2 liters and subdivides that amount into 200-500mls per fill/release. Water should be lukewarm; ideally body temperature. Enemas can be done every day, every other day, or every time parasites are visible.

Dr. Klinghardt asked about the impact of chlorine dioxide on the gut. Probiotic implants are helpful for non-PANDAS/PANS people. Coffee enemas can impact chlorine dioxide and should be separated by a couple of hours. Might do chlorine dioxide first and then one hour later the coffee enema.

Kerry Rome – rTMS - Repetitive Transcranial Magnetic Stimulation – Kerry works with MagVenture (<http://www.magventure.com/>) and shared the MagPro Stimulator.

Electricity is sent through coils and induces a magnetic field. This creates an electric current and non-invasively stimulates the brain. The device can focus the field down to around 1 square centimeter.

Over the last 15-20 years of research, using the stimulation regularly can be beneficial.

The FDA has approved the NeuroNetics (<http://www.neuronetics.com/>) device for depression. It is used once daily for 4-6 weeks for 45 minutes.

With MagPro, there is a train of pulses, a rest period, a train of pulses, a rest period, etc. for 75 cycles with 4 seconds on and 26 seconds off for a 37.5 minute treatment.

These devices may help people with chronic pain syndromes.

He showed a demo where finding an area of the head and stimulating it with the device would stimulate the hand on the opposite side of the body.

Can use high or low frequency. High upregulates activity. In depression, hypo-function may be implicated. Low frequency inhibits activity.

Brain Treatment Center (<http://www.braintreatmentcenter.com/>) uses these devices in addition to EEG. Some use functional MRIs to look for over or under activity in certain anatomical regions of the brain. Cost to patient is approximately \$10,400 per month.

Circular coils may reach 4-4.5cm. Figure of 8 coils do not reach as deeply. To reach deep into the brain, you also stimulate everything that is superficial.

Can take an MRI dataset and wear a device with tracking spheres and an infrared camera and load MRI and register the coil. These are neuronavigation systems.

Below 1Hz is considered low; above 5 Hz is considered high. Operator can dial in frequencies from .1 – 100 Hz. The brain operates between .3 and 30Hz. Theta burst stimulation (TBS) uses bursts of 50Hz.

Some have used these types of devices to reduce tremors in Parkinson's disease. May have the potential to benefit those with traumatic brain injury, stroke, tinnitus, brain disorders, anxiety, mood disorders, increase sports performance, memory, and cognition. PhDs, researchers, and product companies are interested in magnetic stimulation devices.

FDA clearance for the MagPro is currently limited. It is manufactured outside of Copenhagen and runs between \$50,000-\$200,000 USD.

Can use structural information from PET scans if you use a Neuronavigation system.

NIH, Harvard, Stanford, Yale, New York University, and others are working with these devices. Psychiatrists have an interest in this work.

These technologies may be useful in restorative medicine such as after a stroke. They may have the potential to stimulate the bladder in those with incontinence. Work is happening in those with spinal cord injuries. These technologies may be helpful in chronic pain. Pubmed has numerous articles on rTMS.

NeuroNetics runs about \$500 per session or \$15,000 for six weeks.

MagVenture has applied for a 510k with the FDA. Their device could then potentially be used for depression. No negative side effects have been observed. Mild headaches may occur after the stimulation and there is a potential risk of seizures. They have to take care to not put a bipolar person into a manic state.

Can do monophasic or sine stimulation. It is not a square wave. The technology has been used to arrest a seizure and may reduce seizure potential.

NeuroStar runs about \$85,000 and \$100 per session to the clinician.

Magnetic stimulation may be helpful for replicating the downregulation/calming of the brain in Rett Syndrome where they are often more verbal after a seizure.

Dr. Tobin Watkinson – the microbial and genetic world are changing. We can only culture 2% of the bacterial world. Bear and seagull poop have antibiotic resistance. He looked at antibiotic resistance globally and found it was lower in Scandinavian countries. In Norway and Denmark, autism rates were found to be low even with the same number of vaccinations. They do not use the same antibiotics in their food animals that they use on their people. Resistant antibiotic genes correlate with elevated levels of autism.

Antibiotic use in food animals and mercury exposure lead to antibiotic resistant genes. The earlier the age of the first vaccine, the higher the rate of autism. Countries that vaccinate at older ages, use lower antibiotics for food animals, and have less antibiotic resistance have lower rates of autism.

Antibiotics are on the way out. Synthetic antibiotics and synthetic vaccines are coming. These use computers and magnetic resonance.

Antibiotics and antimicrobial agents in vaccines lead to adverse reactions. Antibiotic resistance is less prevalent when the same antibiotics used in food animals are not used on humans.

Persister cells are more susceptible to being killed off than MRSA itself but are present to keep the infection going.

Dana Gorman suggested that the takeaway was to avoid antimicrobials such as Purell and other antimicrobial soaps, etc. on a regular basis as they may upregulate inflammation, impact immunity, and lead to more resistance. The more we use, the more we change our own ecology.

With an upregulated Th3 system, we have upregulated sympathetics and downregulated parasympathetics and downregulated Th1.

In his practice, he looks at several different approaches so that he can “see the whole elephant”. He is coming closer to having the whole picture. He uses color acupuncture point diagnosis. Meridians are anatomically located in the body and are like fiber optic colored light and serve as entry points for specific light into the body. He has colored films that relate to the conception and governing vessel points. Can prioritize what to do with the patient. Then uses physical challenges with chemicals and substances to challenge specific pathways like Phase 1 and Phase 2, ammonia, aldehydes, and others. As an example, if there is a reaction to aspirin or transfats, this may suggest an inability to metabolize fats and create prostaglandins properly. If you have an inflammatory issue and you don't have the right nutrients, you won't be able to run the pathway. Pathways that are not working prevent an individual from healing. He is working on simple tests to test these pathways via urine metabolites.

He works with foot plates with cross-wires to a headband and a recording of Schumann waves.

Dr. Cowden mentioned that the chlorine dioxide effect may not be from killing microbes but from helping the body to deal with toxins. The primary detoxification pathway is oxidation. If you stimulate oxidation, fat soluble toxins become water soluble. Hydrogen peroxide induces the production of glutathione which binds to water soluble substances to get them out of the body. Dr. Klinghardt mentioned that the final effect of ozone is an antioxidant effect. Glutathione goes up. Chlorine dioxide may indirectly lead to an increase in the antioxidant effect.

Melanie Gentile – tDCS – transcranial direct-current stimulation. Low power, low energy device that may result in 80% improvement in seizures. Testing is being done to get a model of the brain to know where to put the electrodes or anodes. With QEEG, you can see which pathways are overactive, underactive, or normal. tDCS passes electricity between two points on the brain.

FMAER - Frequency Modulated Auditory Evoked Response uses acoustic sound signals. When steroids were given with FMAER, 16 of 20 recently regressed ASD children recovered.

Toby Watkinson mentioned that steroids and NSAIDs block pathways. EPA is a beneficial substance that would be at the top of the list. Reducing red meats, dairy fat, peanuts, and mollusks would be important to reduce arachidonic acid.

A “southern oil” is olive oil. “Northern oils” are wheat germ and borage oil. Southern oils become PGE1 which is anti-inflammatory. Northern oils become PGE3 which is anti-inflammatory. EPA is a shortcut to PGE3 and is essential if you have too much stress. Curcumin, sesame, and EPA block conversion of southern oils that don't make it through the PGE1 pathway. Avoid arachidonic foods and take EPA and curcumin. Other nutrients that help you to make prostaglandin include P5P, niacin, zinc, low dose E2 (10 units of Cataplex E2), vitamin C (not ascorbic), and glutathione. Selenium antagonizes sulphur and downregulates methylation problems related to glutathione. Many people have glutathione pathway problems and giving more glutathione may not be helpful.

tDCS is a battery with 2 wires and the intelligence is where to put the wires on the head. It is approved by the FDA for several things and used for 20 years. Melanie is working with a neurologist that would review QEEG to determine the appropriate tDCS application.

Dr. Cowden mentioned that there are devices that you can attach to an acupuncture needle that might work similarly.

Dr. Dietrich Klinghardt – Toxic Metal-Contaminated Terrain: Breeding Place for Pathogens and Parasites – Dr. Klinghardt spoke on parasites and toxicity and the connection between them (https://www.youtube.com/watch?v=BEPiFj_X35Q).

Autism doubles every 5 years. The United States has redefined what autism is in order to flatten the curve. It then appears then that we have cured autism. The growth of microwave exposure mirrors the growth of autism. Minerals in the average vegetable have dropped notably. The body works better with lead and cadmium than with no minerals at all. An enzyme may be 10% effective when a metal is used instead of a mineral. Mineral supplementation is a huge thing. There is no way to remove mercury and lead completely from mineral supplements. Bone broth is a good option. Filtered or clean ocean water is a good option. Preventing heavy metal toxicity is all about the minerals. You would have to eat eight times the vegetables today to get the same mineral content as in the past. This is not possible.



Lawrence Klapow identified the lungworm which is a roundworm. Fatigue often resolves after treatment. Chlorine dioxide may clean up the lungworm issue. Another product called ASEA may act as a light version of chlorine dioxide. May use 5cc ASEA once daily via inhalation. Hungarian research shows that it cracks the lungworm.

Worms alter the brain in the direction of stupidity. Orthodox Jews in New York are among the cleanest community and had pork tapeworm in the brain in one study. Kerri Rivera suggested that runoff from pork farms are used to spray vegetables and this leads to parasites.

Ivermectin and Propolis may both act as anti-cancer agents.

Schistosomiasis is overlooked. Symptoms include seizures and paralysis. Malaria is the most common parasite and a close second is either Entamoeba histolytica or Schistosomiasis.

There is a relationship between heavy metals and worms. Parasites act as metal accumulators in the body. They are sinks for pollutants within their hosts. Some treatments such as Ivermectin result in the parasite not coming out whole and may re-release metals back into the system; chlorine dioxide generally results in the parasites coming out whole. It may be wise to do chlorine dioxide first. Parasites in fish may be an indicator of environmental pollution. To find out how toxic an ocean is, measure the parasites in the poop of the whale. In one study, the lead level in a worm was 37 times higher than the levels in the host. Children with parasites are directly related to the toxic environment that the child lives in.

Russian Nikolai Gubarev has proposed the “rope parasite” and uses a number of different enema preparations. One with eucalyptus may be among the best.

Chaga mushroom is a fantastic antiparasitic. It is a primary anti-infection tool. Can be boiled or simmered in water for up to 2 hours. Can be used as a health-promoting coffee substitute.

It is best to give metal extracting agents such as zeolite or chlorella when doing parasite treatments. Modified Citrus Pectin is heading in the right direction but there may be more effective options. Zeolite is great for aluminum but not as strong for mercury or lead. 80% of zeolite is aluminum. The zeolite needs more silica than aluminum. Silica is also a fantastic option for aluminum detoxification.

Metal enriched parasites cannot be eliminated by our own immune system. Parasites thrive in metal-contaminated environments. Parasites modulate the immune system. TNF-alpha goes up, TGF-beta goes up, IL-6 goes up, hsCRP goes up. We become inflamed.

The whipworm creates a toxin the downregulates the immune system. When you then take an antiparasitic, the worm is gone, but the biotoxins that were produced may stay in the system for years. Chlorine dioxide has an impact on detoxification of biotoxins. The worms we are attempting to remove are replicating parasites; these are not what are used for autoimmune treatment.

Parasites in us lead to nutritional deficiencies. Fixing the nutritional deficiency is the wrong thing to do. Patients behave like parasites or may appear odd in their thinking and feeling. Parasites shift hormone profiles in a direction that may support cancers. Parasite treatment may shift the profile back towards normal.

Elimination of parasites requires work from both ends of the body and radical toxin elimination. When the patient gets rid of the "thing" (biofilm with "creatures" or a large parasite), the patient often gets well or significantly better.

Lyme disease, mold illness, chronic viral illness, and autoimmune illness are all caused by parasites. Lyme disease is the illness that is the outcome of the parasitic illness; not one that stands on its own. Lyme disease is most likely not the cause of the condition; rather a marker or bystander organism. Treating Lyme with antibiotics results in many failures. Treating parasites often results in symptoms disappearing even if the spirochetes are still present. Thus, they were likely never responsible for the symptoms in the first place. Most antibiotics have mild antiparasitic properties.

Aluminum can be found in vaccines. Aluminum may play a role in Alzheimer's disease. Desferal once a week in one study arrested Alzheimer's. Mercury was likely not entirely removed from vaccines, but is now below the level that is needed to be disclosed. When mixed with aluminum, there is a synergistic effect that is significant.

Dr. Cowden mentioned that the majority of toothpastes contain an inert ingredient called bauxite which is aluminum hydroxide and being used daily to brush your mercury-filled teeth.

Hair analysis do not show aluminum. Uroporphyrin 1 and 3 are direct indicators for aluminum in the body. Acumen testing has found aluminum embedded in the mitochondria. Mitochondrial illness is aluminum toxicity unless proven otherwise.

Apheresis takes out the blood, puts back the RBC and WBC and then routes the plasma to a separate filter. It is groomed to extract viruses, cytokines, and heavy metals. Can reduce levels of toluene, xylene, benzene, BPA, mold, aluminum, barium, strontium, and fluoride.

Aluminum is hundreds of times higher in their lab testing than lead when they evaluate what is filtered out. Aluminum toxicity may be a big player that has largely been missed. Nanoparticles of aluminum do not show up in normal lab work. In the filtrate from the apheresis, the aluminum globs together and is once again detectable. Aluminum destroys the brain vasculature and leads to endothelial toxicity. Illnesses are vascular illnesses; not neurological illnesses.

Metals are now found in plants and grass; in grass, 25000 fold increase above normal. Aluminum in the rain and in Mount Shasta snow are incredibly high. It is illegal to use rain water for drinking purposes in Colorado. It is very toxic. Spraying on the fields with aluminum causes the plants to die via the creation of oxalic acid. Spinach has huge amounts of oxalates due to the exposure to aluminum. This creates endothelial inflammation.

A rope parasite sample was compared with that of hair analysis and found that it contained 228 times the amount of aluminum in the rope parasite than in the hair analysis. Lead was 72 times higher, and zinc 62 times higher. Aluminum is a natural adjuvant that leads to more growth of the microbes.

Leishmaniasis is transferred by cats and dogs. Epitome of Lyme disease today is related to aluminum toxicity which helps which helps the Lyme organisms. We become the ideal growth medium for these creatures.

Treatment for aluminum toxicity includes citric acid, malic acid, and succinic acid. Magnesium malate can be helpful. For citric acid, putting lemon in water and drinking throughout the day can be helpful. However, lemon kills chlorine dioxide. Dr. Cowden mentioned that sodium alginate is a very good aluminum binder.

Kerri Rivera mentioned that even though the HCl activator is now being used, the majority of the recoveries documented thus far have been with citric acid as the activator.

Horsetail tea can result in dramatic improvements in 3-4 months. BioSil is a good source of silica which can help detoxification of aluminum. Omura's Cilantro Soup is the only plant based option to reduce the body burden of aluminum. Cilantro tea can be a good option as well. You chop the cilantro, boil water, and then take the water off the stove and toss in the cilantro. You then pour it through a strainer. Snails detoxify by eating cilantro and can be a source of parasites so the cilantro needs to be cleaned and also the reason why the water is initially boiled.

With environmental sources of aluminum, one can become toxic just from breathing. It also is present on the inside of vegetables that have been exposed to it during their growth.

Parasites develop as a form of saving ourselves. They are symbiotic with us and required for us to survive. Autism appears to be strongly linked to aluminum. Working an active detoxification program is the only choice right now. Antiparasitics and metal detoxification with a focus on aluminum are critical. Aluminum inflames the blood vessels.

After Dr. Klinghardt's talk, Dr. Cowden shared his excitement about the Four Foot Farm (<http://fourfootfarm.com/>). It is a way to grow food for your family inside your house.

Dr. Tom Minahan – Cannabis for Seizures –

(<https://www.youtube.com/watch?v=cWgaXeuoot0>) Tom is the Director of ER residency at Arrowhead Regional Medical Center. He has an 11 year old daughter that had a seizure followed by a second seizure one week later. He is a conservative father of four, Christian man, talking about marijuana. He tried numerous seizure drugs and went to UCLA seizure doctors. His daughter tried Keppra, Topamax, Depakote, Lamictal, Zonagram, Trileptal, Vimpat, a Ketogenic diet, and NAET. Eric Kossoff at John Hopkins is an expert on the Ketogenic diet. Tom's daughter was having 30-40 seizures a month. Death from a seizure is not common, but they can be very serious.

His daughter had surgery to remove part of her brain in an attempt to address the seizures. She had a seizure while at a swimming lesson. SUDEP is Sudden Unexplained Death in Epilepsy and while rare, can occur.

He saw the documentary "Weed" by Dr. Sanjay Gupta. He learned the majority of his information from others on Facebook. When his daughter started cannabis, she went from 40 seizures a month to 12. While the treatment is still very new for his daughter, she returned to regular school after 2 weeks.

Mentioned Charlotte's Web. Charlotte is a young girl in Colorado who had seizures and used cannabis. While not specifically referenced in his talk, this video talks about Charlotte: <https://www.youtube.com/watch?v=BH5yzEu3JGQ>.

Dr. Cowden mentioned that parasites on the full moon or new moon may create chemicals that irritate the brain. It was suggested that a retrospective study on hospital visits related to seizures would be interesting to look at the incidence relative to the full moon.

Uses 18.5mg/gram CBD with .8 mg/gram THC. 18% is a weight measure. If you took a whole plant, every gram would be 180mg CBD. To have 18-20% CBD solution would be 200mg/ml which is insane. What they mean is 18mg/gram or ml. Uses ½ ml three times daily which is 24-30mg CBD per day.

A ketogenic diet or surgery are the only two allopathic cures for seizures. The best stuff came from Colorado, but you have to be a resident of CO to get on the list.

Kerri Rivera mentioned that high levels of ammonia are found in people with parasites and seizures.

In California, you can get a card, take pictures of it, and then send to a supplier of the medicinal products. It does require a doctor recommendation letter.

His daughter saw benefits after a day and very clearly after 3-4 days.

Dana Gorman mentioned that cannabis may not be addressing the cause but suspects that it may be anti-inflammatory, may replace seizure medication, and may give you time to focus on addressing the underlying cause. Microbial burden is often part of the cause.

He mentioned a recent 2013 study on cannabis of 19 people that was done by UCSF and published in Epilepsy and Behavior. (<http://www.sciencedirect.com/science/article/pii/S1525505013004629>)

Dr. Allan Israel Frankel – Cannabis for Physicians and Patients –

(<https://www.youtube.com/watch?v=oObefz32RCE>, <https://www.youtube.com/watch?v=aRKYwG1y7f0>) Dr.

Frankel is from Green Bridge Medical (<http://www.greenbridgemed.com>). Some say cannabis is a gateway drug; Dr. Frankel says it is a “gateway to a better life” for many people with chronic illnesses.

Whole plant medicine is 80% more potent than synthetic cannabidiol (CBD). Dr. Frankel suggested that the gold oil mentioned in the Bible may have been cannabis. There are 12 patents held by the governments on cannabinoids.

THC has substantial tolerance. With CBD, people usually lower the dose over time which suggests that there is no tolerance. CBD delays the excretion of THC.

He has worked with people with Multiple Sclerosis, back pain, seizures, and cancer. Microdosing may have a protective effect on the liver, lungs, and parts of the brain.

Most children respond to 30mg CBD per day. They rarely get to 1mg per pound. Some may be on 1/3 mg per pound and doing very well. Some suggest up to 4mg per pound, but this is not needed in most cases. Lower dosing has a very different effect than higher dosing.

“The art of medicine consists in amusing the patient while nature cures the disease.” - Voltaire

In 1870-1940 – pharmacies had cannabis elixirs. MDs stopped suggesting it around 1915. Consistency was a problem back then, but we have the technology now and are not using it fully.

The terms “recreational” vs. “medicinal” are due to legal status. Once it is legal, the terms will be “casual” vs. “focused” therapy. Focused therapy is when a patient with a specific issue has an educated provider, defines successful outcome, establishes clear goals of therapy, and follows-up. If doing well, this is success. If not, adjustments may be needed.

Dosing is done in milligrams and micrograms. Grams are excessive.

Cannabis does not cure cancer, but may have oncolytic properties.

25mcg single dose has been used in animals even a week after a brain trauma with good results. Low dose, low dose. Dosing should be small.

Have to consider strains vs. content. Sativa and Indica are strains. There is an overlap of strain names in Los Angeles. Use of a strain name is not helpful. Can correlate the DNA of a strain with the terpene profile, but not with the cannabinoids.

Whole plant cannabis medicine is worlds apart from hemp-based medicine. More is not better. Higher dosing is often the result of guidance from growers; not doctors.

CBD is “psychoactive” but not “stoney”? WPCBD is whole plant CPD; MCBBD is molecular CBD. Dosing is about 30 times different.

Dosing – can be inhaled which is rapid but can't easily or consistently be dosed. Oral dosing is 5-45% absorbed. Rectal introduction is less enjoyable but very effective. A syringe with oil in grape seed oil as an enema or in a G or J tube is another option. Topical application may be a great option for some; especially skin cancers. Oral buccal delivery is rapid and appears reliable. Local application to skin, mouth, and lung can be employed. Most of the kids are doing it this way. Sprays can be very good for dental pain or sunburn.

Serum levels can be measured via the University of Florida for around \$100.

He is not comfortable with the use of DMSO and cannabis. To improve topical absorption, rubbing alcohol externally or limonene from lemons may be helpful.

Some now use CO2 extraction methods instead of alcohol. They only work with the whole plant. You grow the plant, chop it off, turn it upside down to dry, strip the leaves and bud, bring it to the collective in exchange for medicine. One plant is enough for a child to have medicine for one year.

Often uses 15mg/ml CBD with just less than 1mg/ml THC.

“Stoney” scale is from 1-10. 1 is no stoney-ness and 10 is lots of stoney-ness. Preparations can still be psychoactive even if not “stoney”. #10 would have 100mg THC per gram. #1 would have 24:1 CBD:THC with 15mg CBD per gram and .05mg THC per gram. This is the one most commonly used for seizure medication. A 1:1 CBD:THC ratio is often used for Multiple Sclerosis. There are different plants that yield different ratios of CBD:THC.

Seeds are not always predictable. There are ways of growing that take cells from the plant, grow it on agar, and incubate it.

The dumbest plant is smarter than the smartest doctor.

They measure in grams, but dispense in mls.

There are CBD vape pens which have a battery and a cartridge with the oil and are like an eCig. Dosing is difficult, but these may be used for pulmonary issues, asthma, or lung or bronchial cancers.

General points: need to know a person's THC sensitivity, prior history, general medication sensitivity, know their fear of being stoned, error on the low psychoactive side, consider the use of a THC rich and CBD rich extract to balance themselves out.

Anxiety is often helped with CBD. Cannot worry or spin while using it. Would use lower end of THC scale. For pain reduction, THC functions to distance people from pain more like a narcotic; CBD does not work that way. If taking Vicodin or Tylenol, the pain comes right back. CBD may work on a cytokine mechanism as the pain does not generally come right back.

CBD works at an epigenetic layer with methyl groups which are critical in gene expression. CBD used to be in everyone's diet from hemp.

For insomnia, they use less CBD and more THC. May need three times daily dosing for people that have insomnia associated with anxiety.

Article in Scientific American suggests that pain may result after an acute insult as the result of cytokines. CBD interferes as the microglia level with the production of cytokines. Chronic neuropathic pain responds more to CBD than THC. Deep back pain, hip pain, or knee pain may need more THC.

For MS, generally use 1:1 CBD:THC. 10-15mg/day and increase by 2-3mg of CBD and THC per week.

Sativex (<http://www.sativex>) is a 1:1 CBD:THC prescription medication.

For seizures, a high ratio of CBD:THC is used. Often in syringes. ½ ml may contain 7.5mg CBD and may be used two to three times daily. 7.5mg may be added to the 24 hour regimen every 3-4 days with an average dose of 35-40mg whole plant CBD. May also need to add some THC.

Once you get to the clear stage of the oil, the CBD:THC ratio does not change, but when you get to an amber stage, the terpenes do change and it is a different medicine. The time of harvesting is important. Extracted cannabis oil is gold.

For PTSD, practitioner has to assess pain, sleep and nightmares, anxiety and depression. Starts with 6-8mg CBD and increases the CBD and then adds THC.

For cancer, this is not a cure for cancer, but it does have oncolytic effects and is palliative. May use 40mg CBD.

Preparations may contain cannabis oil, grape seed oil, and peppermint oil.

For more information, visit <http://www.projectcbd.org> and <http://www.patientinformationcenter.com>.

Cannabis Resources

Felicia Carbajal is the President of State Wide Collective (<http://www.statewidecollective.org>). She was a patient herself with PTSD and degenerative disk disease. They don't turn anyone away.

Jennifer Rex McCray is with "Heavens 2 Betsey". <http://heavens2betsey.com> Her sister had interstitial cystitis, Fibromyalgia, and bulging disks. Her family is Mormon and would not have anticipated becoming an advocate for cannabis. Works closely with Tish Syler at Cannacea (<https://www.facebook.com/Cannacea> and <http://adoptachildcbd.com>).

Cannabis Strain Resource - <http://www.leafly.com>

Arizona Medical Marijuana Testing - <http://azmedtest.com>

Conversation with Tish Syler - (<https://www.youtube.com/watch?v=X7Dp7e-Qdpg>) CBD is a constituent of CBDV which is relatively newly found. CBD quiets excess electrical and chemical activity in the brain. CBD by itself has an intense effect on decreasing grand mal seizures. The dosing has to be very consistent and if a dose is missed, a seizure may occur. Has properties similar to Dilantin and Phenobarbital and can enhance these medications such that some can then lower these drugs with the guidance of their doctor.

Liver profiles have been observed to improve. Cognition has improved. Can be less sedating than some seizure drugs. It takes 72 hours to determine if the administration timing and dosage is correct. Three times a day works with very young pediatric patients about 50% of the time. When they are 6 or 7 years old, four times a day is generally needed.

Dosing is generally not determined based on body weight.

THC has many wonderful applications. It is not the main component but acts as an agonist. CBD with other compounds removed does not function as well as when some THC is present. THCA is the parent of THC before it is broken down. Administration of THCA in high amounts with small amounts of THC may protect the brain after traumatic brain injury. 72 hours later, adding CBD may move from a neuroprotective effect to neuroregenerative.

Various options can be used in Targeted Cannabinoid Therapy to obtain a desired result.

She mainly works with traumatic brain injury, epilepsy and CTE (chronic traumatic encephalopathy) in football players which can be deadly and present similarly to ALS with loss of motor function.

Too little or too high of a dose will often not result in the desired effect.

20:1 minimum CBD:THC ratio. It takes almost no THC for the synergistic effects between the two to be available. THC can trigger convulsions in susceptible people.

Sargent Goodchild – Active Healing – (<https://www.youtube.com/watch?v=T6cKbbs5zrc>)

Sargent is the Executive Director of Active Healing (<http://www.activehealing.org>). He was born in 1969 and is the first of 3 children. Had a chemical insult during gestation and prolonged labor. Umbilical cord was wrapped around his neck, and he was delivered blue. Had startle reactions. When he was standing on a boat ramp at the ocean at 4 years old, he had his first seizure. He had his second seizure, a grand mal, one week later and was diagnosed with epilepsy.

Sargent used Dilantin, phenobarbital, Klonopin, valium, and other options to attempt to manage the seizures. He showed a photo of himself as a child where the Dilantin had caused his gums to overgrow. His mother was told he had autism and mild Cerebral Palsy. They worked with Art Sandler who was friends with Bernard Rimland. He did Neurological Reorganization for six hours a day.

Movement disorders are not separate disabilities. The pons is involved in the understanding of pains and being centered in your own emotions. It is critical to understand the pain of others. Pons signals the production of serotonin.

When crawling on the floor, the knee flexes and the toes dorsiflex which is important programming for later walking. The pons is developed through crawling. The creeping posture continues with the mid-brain development. The mid-brain is both the emotional and physical balance center of the brain. Crawling, creeping, or walking. You want a cross-lateral pattern with a 2 beat rhythm.

Vestibular stimulation may be done with suspended inverted rotation and brachiation using monkey bars.

For **Horizontal** Plane focus:

- **“English Five”** – yoga style movements
- **Fetal Crossing** in corner of a couch. Legs and arms crossed with chin tucked.
- **Fetal Measuring** opens up more. Good for sense of boundaries. Fetal Crossing and Fetal Measuring bring emotional releases.
- **Homolateral patterns.** Positions are soothing – arm and leg up on same side while sleeping as an example.
- **Crawling**

For **Vertical** Plane focus:

- **Balance Line** (2 inch masking tape)
- **Inversion/Mild Traction/Head Weights**
- **Mini Trampoline**
- **Vestibular Stimulation**
- **Creeping/Bear Walks**