

# The Future of Neurology Now

## Next Generation Neurological Treatment, Integration and Prevention

Times: Friday 12:00-5:00pm & Saturday 8:00-6:00pm

Instructor(s): Dr. Trevor Berry, DC, DACNB & Dr. Brandon Brock, DNP, DC, APRN, NP-C, DACNB, DCBCN, BCIM  
Total CE hours: 14

**Abstract Summary:** The purpose of this lecture is to understand how cellular receptors and various treatment techniques alter neurological function. The concept of diagnosis, management and treatment along with documentation and outcome assessment with proven techniques is imperative in this lecture. Looking at genetic responses, antibody testing and basic serological testing is good for diagnostic parameters.

Treatment factors such LLLT, nutrition, receptor-based therapy and joint mobilization are supportive to establish function as it pertains to correction of the physiology noted as pathological on diagnostic testing. The underlying meaning of this concept is involved in conditions that range from aging to many varieties of dementia and encephalopathies as well as an aging brain and nervous system.

### Main Objectives:

- Cellular physiology of neuronal excitotoxicity, immunology of brain function and nutritional, laser and rehabilitative concepts.
- Alterations in brain plasticity in mental and neurodegenerative disorders, genetic factors and antibody relationships.
- Comorbidities related to Brain function including hormones, gut function, inflammation, infectious disease, heavy metal issues, lipids, vascular function and receptor-based input.
- Simple linear models of testing, detecting and optimizing brain health with a novel and newly developed combination of photobiomodulation, biomechanical correction, brain-based exercises, nutrition and related labs and posture studies. This is a complete package with backed research and flowing treatment methodology.
- Be able to teach, chart, document and educate your patients while billing and scheduling appropriately.
- Review of medical necessity parameters for each study.
- Review of clinical findings to support the need and type of study.
- To provide case studies and clinical practice scenarios to promote proficiency pertaining to laboratory analysis.

### Take Away Concepts: (The learner will be able to)

- ✓ Recognizing diagnostics that can immediately be used.
- ✓ Understanding treatment paradigms that can be used immediately.
- ✓ Understand outcomes assessments that demonstrate the efficacy and quality improvement of therapy that is performed based upon diagnostic direction.

### Key Words: (Critical components and Concepts)

- ✓ Immunoexcitotoxicity, Plasticity, Oxidative stress, Hemisphericity, Neurodegenerative disease, Photobiomodulation, Alleles, SNPs, Antibodies, Photons, Various lab markers.

### Targeted Clinicians:

This program is designed for the following provider types: (Those with state licensure and or practice and utilization parameters of the material taught as defined within their individual scope of practice).

- ✓ Doctors of Chiropractic
- ✓ Medical Doctors
- ✓ Doctors of Osteopathy
- ✓ Naturopaths
- ✓ Nurse Practitioners
- ✓ Physician Assistants
- ✓ Registered Dieticians
- ✓ Clinical Nutritionists
- ✓ Acupuncturists
- ✓ Oriental Medicine Providers
- ✓ Certified Health Coaches

### **Instructional Methods:**

- On stage presentation
- Video recording
- Power point usage
- Dry erase board usage
- Hands on demonstrations
- Q and A sessions
- Case Studies
- Notes available
- Post session testing for credit as set forth by the standards needed per hour.

### **Summary:**

The information in this lecture is designed to connect the practitioner to real life topics with material and concepts that are rapidly evolving. Many components of this lecture can be coupled with overall health and wellness which is supported by appropriate laboratory testing for the aforementioned topics. Students will have notes and references to utilize as a study tool along with cases and access to instructions during session times.

### **Program Outline:**

#### **Friday**

**11:30-12:00pm Registration: Meet and greet and find your seat**

**12:00-1:30pm Dr. Berry**

- Weekend outline summary (Flow of material)
- Basic neurophysiology. Understanding the mechanism of healthy neuronal function and the foundation for neuroplasticity.
- Neuropathophysiology. Understanding the mechanisms of neuronal disruption and cell death.
- How lasers influence the common causes of neuronal injury and degeneration.
- How low-level lasers can influence the nervous system.
- Introduction to the Brain gut axis

**1:30-1:45pm Break**

**1:45-2:45pm Dr. Brock**

- Basic genes involved in neurological disorders
- Basic antibody categories involved in neurological disorders
- Introduction to Mast cells and Inflammation (With genetics, antibodies and MHC switching)
- Introduction to glial priming, phenotypical and genotypical alterations (MHC I and MHC II)

**2:45-3:00pm Break**

**3:00-4:00pm Dr. Berry (Ethics)**

- Lab testing using objective biomarkers for assessment of barrier system (When to test: Ethics Section)
- Using Chiropractic, nutrition and Laser techniques for facilitating recovery of damaged barrier systems, inflammation reduction and glial priming

**4:00-5:00pm Dr. Brock**

- Pulling together genetic and antibody markers
- Incorporating metabolic function into genetic and metabolic markers
- Reading labs and documenting findings

#### **Saturday**

**8:00-9:50am Dr. Berry**

- Chiropractic Technique
- Condition specific technique and applications for the most common neurological and chiropractic conditions
- Pain syndromes
- Case studies over material.

**9:50-10:05pm Break**

**10:05-11:20am Dr. Brock**

- Specific nutritional and neurological applications for the most common neurological and conditions.
- Demonstration on how the spine and other neuro-musculoskeletal conditions manifest with Tx.
- Case study

**11:20-1:20pm Dr. Brock**

- Thyroid genetics, antibodies, labs and brain function
- Androgen genetics, antibodies, labs and brain function
- Blood sugar, Leptins, adiponectins genetics, antibodies, labs and brain function

**1:20-2:20pm Lunch**

**2:20-4:20pm Dr. Berry (Two-hour documentation and ethics portion)**

- Documentation and ethics
- Supporting medical necessity with FDA cleared research
- Condition specific applications of LLLT and Nutrition protocols
- Hands-on Laser demonstration

**4:20-4:30pm Breaj**

**4:30-5:15pm Dr. Berry (Research)**

- Summary review of research, physiology, clinical applications, technique.
- Case studies

**5:15-6:00pm Dr. Brock**

- Case study Summary
- **10 minutes: Q and A (Dr. Brock and Dr. Berry)**

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