ABSTRACT FOR: THE NERUO FORUM/6TH EDITION INTERNATIONAL

AMSTERDAM, THE NETHERLANDS

MARCH 17-18 2025

PRESENTATION BY: DR. LEIGHTON J REYNOLDS

TREATMENT AND TOOLS FOR TRAUMA

LOS ANGELES, CALIFORNIA

**RESEARCH PROJECT:**

**“LISTENING TO THE BRAIN/RECOVERING THE BRAIN”**

**PRESENTATION:**

**“THINKING DIFFERENTLY: THE COMPLEX ARCHITECTURTE OF TRAUMA TO THE BRAIN”**

Eight years ago, I began working with professional athletes, which was my introduction to the number of head injuries that are prevalent around the world. In my experience this is an unrecognized, undiagnosed, and untreated population that deserves a lot more of our attention. Trauma to the brain (including TBIs, strokes, seizures, infections in the brain, illnesses and diseases of the brain, addictions, and major mental illness) is never easy to work with, because our brains are so complicated and complex. But over time I was able to develop a model for the neurodegenerative progression of trauma to the brain. I describe this neurodegenerative progression in terms of 4 interlocking Architectures the brain constructs in response to being traumatized:

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Traumatic Shock

Electrical and Chemical Imbalance in the Neurons

Homeostatic Imbalance

The Perfect Storm in the Brain

The presentation will include an explanation of the clinical value of the Complex Architecture Model through a case study. I welcome comments, questions, thoughts, and suggestions at the end of the presentation.

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