

## Q&A NeuroAnalysis explained more

### **What is NeuroAnalysis?**

NeuroAnalysis is a reconceptualization of mental disorders as brain disorders.

### **How does NeuroAnalysis work?**

NeuroAnalysis is a translation matrix that translates the clinical manifestation of mental disorders (course, signs and symptoms) to their presumed patterns of brain disturbances.

### **Why do we need NeuroAnalysis?**

Today psychiatric diagnosis is descriptive; it is not etiological like the rest of medicine. When you say 'appendicitis' this diagnosis tells you the place of the body and the malady needs curing, when you say 'depression' or 'anxiety,' these diagnoses do not relate to any body-location and does not tell you what went wrong. If we ever want to be able to cure mental disorders we have to know what went wrong we need an etiopathological diagnostic system.

### **How come we don't have an etiopathological diagnosis for mental disorders?**

The brain is many times more complicated than other body organs and science has not yet arrived to good understanding of its function and malfunction. Because the brain is so complex, in order for us to understand it's activity we need to comprehend complex-system-physics and mathematics, these sciences are only recently developing, and have not yet been introduced into psychiatry.

### **Why can't we stay with our current descriptive diagnosis?**

Being descriptive, the current diagnostic schema cannot be validated, if not validated we cannot know enough to correct the disturbances, at the end we must be able to alter and correct the disturbances in order to cure our patients, we shall never cure without effective knowledgeable interventions.

### **How can we achieve a NeuroAnalysis etiopathological diagnosis for mental disorders?**

Once we have NeuroAnalysis, i.e., a set of hypothetical translations from phenomenology to etiopathology that are formulated as testable-predictions, then we can set out to validate, prove (or refute) them. There are brain-imaging devices and signal-processing methods that can begin to do this job.

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**What are the next steps to achieve NeuroAnalysis?**

First psychiatrists' need to be aware of this reconceptualization, they need to know that by changing the conception they already achieve a first knowledgeable step in the correct direction, "wisdom begins by calling thing by their correct name" says an old Chinese adage

The second step naturally follows the first one and requires from the psychiatrists to become knowledgeable mastering complex-system science of the brain, to know how the brain acts as a complex dynamic non-linear system. Neuroscience and signal processing are also a must for any psychiatrist. Thereafter remains the last step of validating NeuroAnalysis (research) thus discovering the actual causes of mental disorders. Because NeuroAnalysis is formulated in a testable-perdition format it readily lends for direct research protocols.

**Once we validate NeuroAnalysis how will we cure our patients?**

Exciting neuro-modulating technologies are already in place, some are very close to realization, We can control plasticity with plasticity-inducing medications (e.g., SSRI's), we can activate-deactivate neurons (e.g., Optogenetics), we can induce experience-dependent-plasticity via a variety of preliminary techniques (various psychotherapies), once we know what is the 'brain's algorithms of disturbances' for each mental disturbance (similar to cardiac arrhythmias" for each type of cardiac insufficiency) we can tailor the specific corrective protocol or device to treat it (similar to applying the relevant cardiac pacemaker) eliminating the signs and symptoms, thus curing our patients