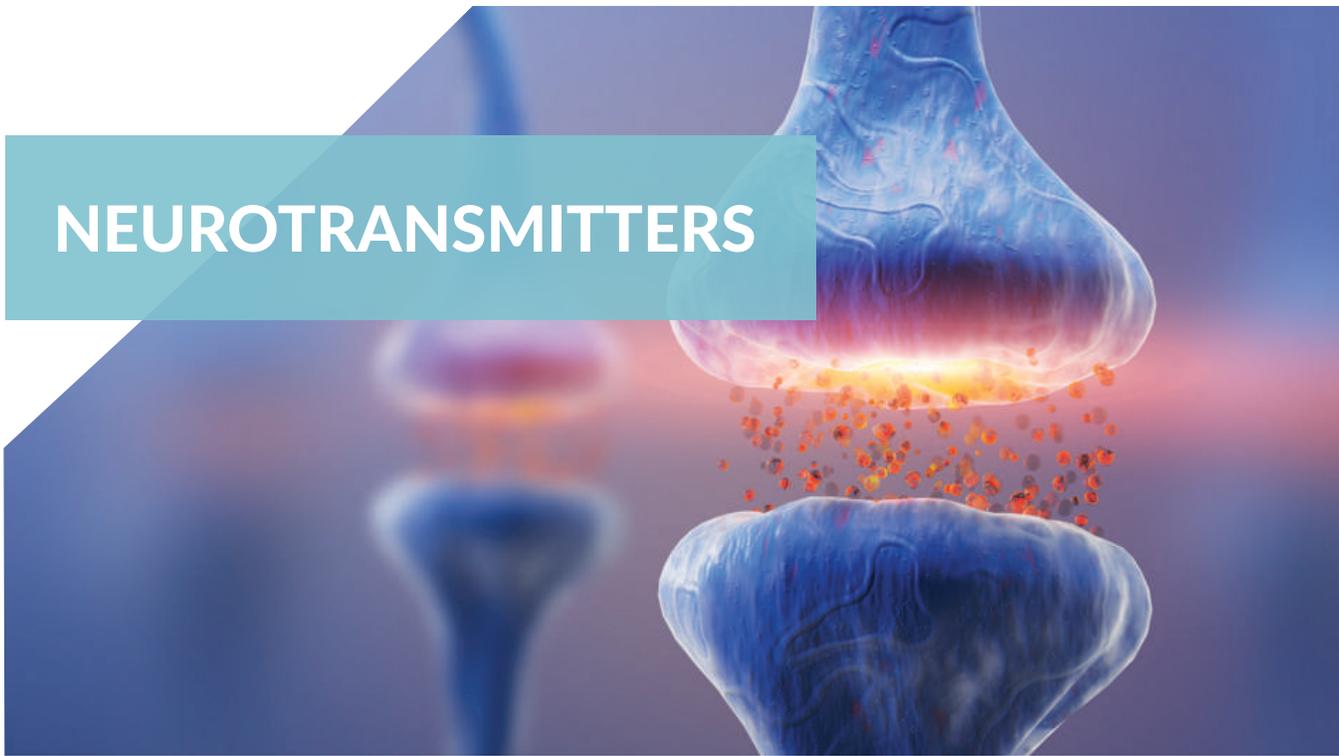


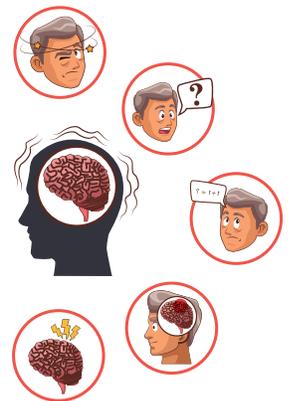
NEUROTRANSMITTERS



Which Patients Need the Vibrant Neurotransmitters Test?

Conditions and Symptoms Associated With Neurotransmitter Imbalances Include:

- ❑ Mood disorders: depression, anxiety, bipolar disorder
- ❑ Loss of mental focus: ADD, ADHD, brain fog
- ❑ Adrenal dysfunction
- ❑ Fatigue
- ❑ Insomnia
- ❑ Aggression
- ❑ Behavioral disorders
- ❑ Addiction and dependency
- ❑ Hormone abnormalities
- ❑ Loss of appetite control
- ❑ Weight gain / weight loss
- ❑ Memory impairment
- ❑ Migraines
- ❑ Cravings
- ❑ Low libido
- ❑ Sexual dysfunction



Facts About Neurotransmitter Imbalances

- ✓ Neurotransmitters are the chemical messengers that facilitate the transmission of signals from one neuron to the next across a synapse. Neurotransmitters influence and regulate a wide range of processes such as mental performance, emotions, pain response, and energy levels.
- ✓ Symptoms of neurotransmitter imbalances often overlap other conditions, and can be mistaken for sex hormone imbalances, chronic infections, GI distress, metabolic abnormalities, neurological decline, and chronic fatigue, to name a few.
- ✓ Hormones, especially adrenal hormones and sex hormones, are interconnected with neurotransmitters. An imbalance in adrenal and sex hormones could lead to neurotransmitter imbalances which could revert back to cause hormonal imbalances.





Clinical Connections

- Testing a combination of hormonal and neurotransmitter panels would provide a comprehensive assessment of the hormonal and neurotransmitter dysfunctions and their relationships, that could aid in identifying underlying causes of symptoms.
- By testing a comprehensive panel of neurotransmitters, clinicians can determine when symptoms are directly or indirectly related to neurotransmitter levels, and when additional testing may be appropriate.
- In order to assess the most comprehensive neurological health profile for your patient, the Vibrant Neurotransmitters panel should be run alongside a Vibrant Micronutrients, Urine Hormones and Metabolites, Salivary Hormones, and/or a Gut Zoomer 3.0.
- Vibrant's proprietary technology solves the problem of confounding results commonly found with mass spectrometry by developing a more accurate assessment of molecules of similar molecular weight, to yield a higher sensitivity and specificity.



What Does the Vibrant Neurotransmitters Panel Include?

The Vibrant Neurotransmitters Panel includes 33 neurotransmitters:

Group	Neurotransmitter	Function
Amines	Serotonin	Inhibitory
	Dopamine	Excitatory
	Norepinephrine	Excitatory
	Epinephrine	Excitatory
	Histamine	Excitatory
Amino Acids	GABA	Inhibitory
	Glycine	Inhibitory
	Glutamate	Excitatory
	Metanephrine	
	Tryptamine	
	Tyrosine	
	Tyramine	
	Taurine	Inhibitory
	Aspartate	Excitatory
	Serine	
	5-HTP	
	L-DOPA	
	Tryptophan	Excitatory
	Organic Acids	Quinolinic Acid
Kynurenic Acid		
HVA / VMA Ratio		
HVA / DOPAC Ratio		
Quinolinic Acid / Five HIAA Ratio		
Other	Acetylcholine	Excitatory
	5-HIAA	Inhibitory
	PEA	Excitatory
	DOPAC	Excitatory
	HVA	Excitatory
	Normetanephrine	Excitatory
	VMA	Excitatory
	3-Methoxytyramine (3-MT)	
	Oxytocin	Excitatory
	Xanthurenic acid	

Regulatory Statement

The general wellness test intended uses relate to sustaining or offering general improvement to functions associated with a general state of health while making reference to diseases or conditions. This test has been laboratory developed and its performance characteristics determined by Vibrant Genomics LLC, a CLIA-certified laboratory performing the test. The test has not been cleared or approved by the U.S. Food and Drug Administration (FDA). Although FDA does not currently clear or approve laboratory-developed tests in the U.S., certification of the laboratory is required under CLIA to ensure the quality and validity of the tests.