Community Education Series

The Recovery Village and Advanced Recovery Systems





Presentation Topic:

The Role of Micronutrients in Optimal Brain Health



Dwight Franklin, DOM



About the Speaker:

Dwight Franklin,

DOM



• Dwight Franklin, DOM is a Doctor of Oriental Medicine and owner of Franklin Family Wellness Institute. He is a graduate and former Professor at Florida College of Integrative Medicine, where he received a Master's of Science in Oriental Medicine. Over the course of his career Dwight has worked alongside medical doctors in developing wellness programs for both childhood and adult physical and mental health disorders through the practice of Eastern Medicine, Functional Medicine Lab testing, High-Quality Supplementation, Food Therapy, and Lifestyle changes.

FDA DISCLAIMER

These statements have not been evaluated by the Food and Drug Administration. This webinar is not intended to diagnose, treat, cure or prevent any disease.

Franklin Family Wellness Institute

- Through customized Wellness Programs, I have had the privilege of helping many children and adults with brain health concerns such as:
 - Hyperactivity
 - Impulsivity
 - Lack of Focus
 - Hyper-focusing
 - Low Motivation
 - Sadness
 - Stress Management
- While I do not have an Addiction Program specifically...
 - The symptoms listed above are a common cause of self medicating
 - I have assisted patients with:
 - Food Addictions
 - Alcoholism
 - Smoking Addictions
 - Opioid Addictions
 - Prior Heavy Drug Use

- The purpose of this webinar is to help the public...
 - Better understand how micronutrients greatly impact brain health
 - Understand how specialty lab testing and individualized nutraceuticals can achieve optimal brain health for children and adults struggling with mental and emotional health concerns.

Working with the Family

- Parents and Adults are often at their breaking point when they come to see me
 - 99% of the time FFWI is not their first stop
 - I have seen serious mental and emotional health concerns resolved or greatly lessened through implementation of:
 - Specialty Lab Testing
 - Nutraceutical Supplementation
 - Food Therapy
 - Examples...



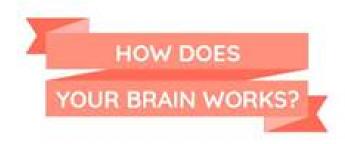
Parents and Adult Patients Fear...

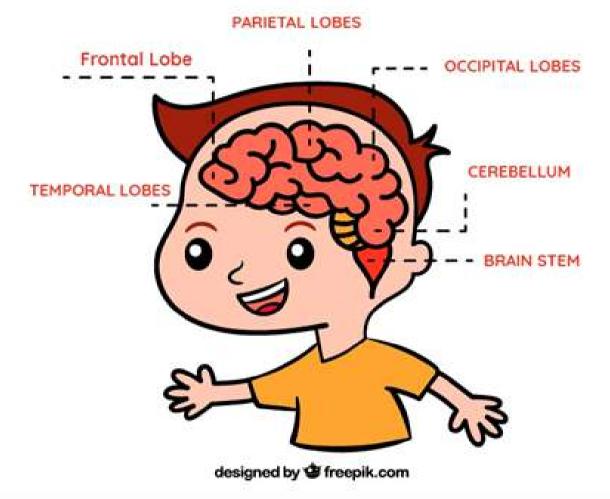
- Most parents fear that their child's issues are too great for supplements and diet changes to make any difference.
- Adult patients fear that what they have gone through in life is too great for supplements and diet changes to make a difference.
 - Parents and Adult patients often have not realized:
 - That supplementation given and diet changes made have to be consistent and specific to that child or adult
 - Example...
 - There is no one size fits all approach when it comes to brain health
 - High Quality Supplementation is vastly superior than what you will find at your local drug store or grocery store
- Lets talk about the different parts of the brain...
 - What each part does and...
 - What makes each part work

The Brain

- Frontal Lobe
 - Movement
 - Prefrontal Cortex
 - Focus
 - Planning
 - Understanding consequences
 - Impulse Control
 - Most dopamine sensitive part of Mood Stability brain
- Parietal Lobe
 - Processes sensory information
 - Language Processing
 - Taste and texture

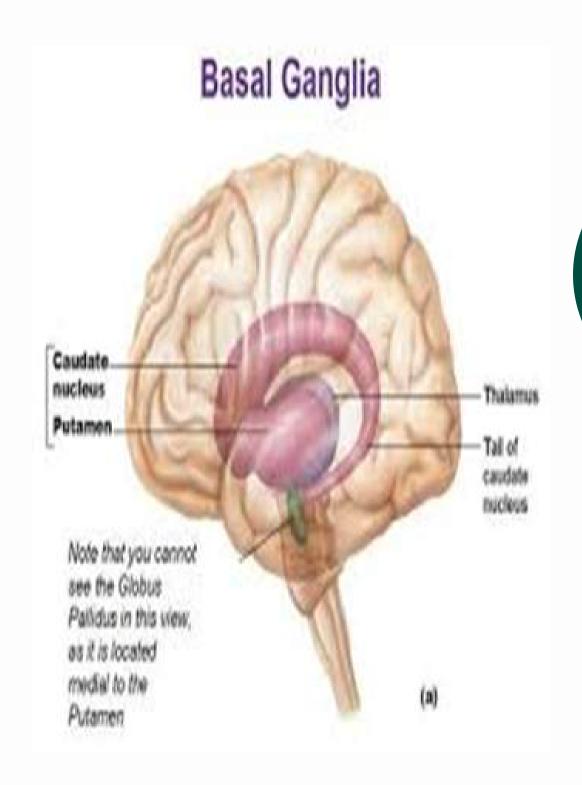
- Temporal Lobe
 - Auditory Processing
 - Language Comprehension
 - Long Term Memories
 - Processing emotions
- Occipital Lobe
 - Vision
 - Visual Memory



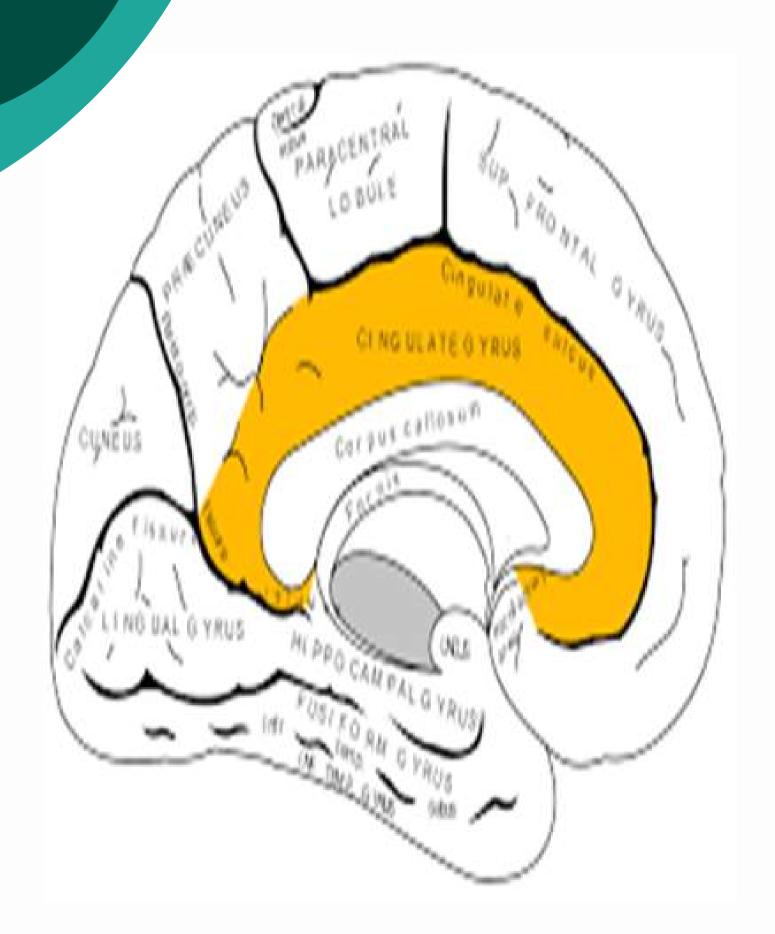


Basal Ganglia

- Helps to produce dopamine
- Sets the body's anxiety levels
- Integrates thoughts, feelings, and movement
- Why you jump when you're nervous and freeze when you are scared
- Too much input locks you up
- Too little input and a person will move excessively with stressful situations







Cingulate Gyrus

Involved with error detection and shifting attention

Neurotransmitters

Excitatory

- Dopamine
 - At appropriate levels = Focus, Drive
 - At low levels = Inattention, Poor self-control
 - At excess levels = agitation, anger, hyperfocus
 - Closely related to the brain's reward system
- Norepinephrine and Epinephrine
 - At appropriate levels = Alertness, promotes vigilance, enhances formation and retrieval of memory
 - At low levels = Lack of Drive
 - At excess levels = anxiousness
- Glutamate
 - At appropriate levels = Important for learning and memory
 - At excess levels = excitotoxin, damages neurons, makes emotions erratic
 - Found in foods containing MSG

Neurotransmitters

<u>Inhibitory</u>

- Serotonin
 - At appropriate levels = Happy, Sense of well-being
 - At low levels = Sadness, withdrawing from others, Obsessive Compulsive behaviors when combined with High Dopamine
 - At excess levels = Manic
- GABA
 - At appropriate levels = Calm, Relaxed
 - At low levels = anxious, high stress and inability to handle stress, always worried
 - At excess levels = fatigue, low motivation



HP Profile (1)

Date Collected 08/21/2019

Date Received 08/26/2019

Lab Final 08/29/2019

Samuel Franklin, AP 357 Wekiva Springs Rd. Longwood, FL 32779 United States

Marker	Values		Reference	
INHIBITOR	Y NEUROTE	ANS	AITTERS	
SEROTONIN	154	(L)	180 - 350 mcg/g Cr	
GABA	377.7	(1)	570 - 1170 mcg/g Cr	
EXCITATOR	Y NEUROTI	RANS	MITTERS	
DOPAMINE	419.3	(1-1)	200 - 400 mcg/g Cr	
NOR-EPINEPHRINE	55.9		34 - 70 mcg/g Cr	
EPINEPHRINE	3	(1)	4 - 14 mcg/g Cr	
GLUTAMATE	3.9		3 - 7 mg/g Cr	
ADRENA	L ADAPTAT	ION	NDEX	
NOREPI/EPI RATIO	18.6	(1-1)	< 10	
0	THER MARK	ERS		
CREATININE, URINE	56.4		mg/dL	

Creatinine is used to calculate results and is not to be used diagnostically.



HP Profile (1)

Date Collected 12/16/2019

Date Received 12/18/2019

Lab Final 12/20/2019

Samuel Franklin, AP 357 Wekiva Springs Rd. Longwood, FL 32779 United States

Marker	Values	Reference
INHIBITOR	Y NEUROTRAN	ISMITTERS
SEROTONIN	278.6	180 - 350 mcg/g Cr
GABA	632.2	570 - 1170 mcg/g C
EXCITATOR	RY NEUROTRA	NSMITTERS
DOPAMINE	689.6	1) 200 - 400 mcg/g Cr
NOR-EPINEPHRINE	64.9	34 - 70 mcg/g Cr
EPINEPHRINE	13.2	4 - 14 mcg/g Cr
GLUTAMATE	15.3	1) 3 - 7 mg/g Cr
ADRENA	L ADAPTATIO	N INDEX
NOREPI/EPI RATIO	4.9	< 10
o	THER MARKER	S
CREATININE, URINE	95.9	mg/dL

Creatinine is used to calculate results and is not to be used diagnostically.



HP Profile + PEA (1)

Gender: F

Age: 58

Date Collected 05/06/2020

O5/11/2020

Lab Final 05/15/2020

Samuel Franklin, AP 357 Wekiva Springs Rd. Longwood, FL 32779 United States

Marker	Values		Optimal	Reference
11/11	HIBITORY N	EURC	TRANSMITTERS	
SEROTONIN	24.8	(L)	125 - 260 mcg/g Cr	50 - 250 mcg/g Cr
GABA	69.2	(1.)	600 - 1100 mcg/g Cr	150 - 700 mcg/g Cr
EXC	ITATORY I	LEUR	OTRANSMITTERS	
DOPAMINE	129.1	(L)	250 - 400 mcg/g Cr	100 - 350 mcg/g Cr
NOR-EPINEPHRINE	43.4		30 - 50 mcg/g Cr	13 - 70 mcg/g Cr
EPINEPHRINE	0.6	(L)	10 - 15 mcg/g Cr	3 - 20 mcg/g Cr
GLUTAMATE	1.8	(1.3)	5 - 10 mg/g Cr	2 - 12 mg/g Cr
PEA	5.6		n/a	1.6 - 7.3 mcg/g Cr
P.	DRENALA	DART	ATION INDEX	
NOREPI/EPI RATIO	72.3	(I-I)	n/a	< 13
	ОТНЕ	R MA	RKERS	
CREATININE, URINE	96.9		n/a	mg/dL

Creatinine is used to calculate results and is not to be used diagnostically.

(L.) & (I-1) are based on optimal ranges if available, otherwise they are based on reference range.



HP Profile + PEA (1)

Gender: M Age: 37

Samuel Franklin, AP

357 Wekiva Springs Rd. Longwood, FL 32779 United States

Marker	Values		Optimal	Reference
INI	HIBITORY NE	URC	TRANSMITTERS	
SEROTONIN	42	[4]	125 - 260 mcg/g Cr	50 - 250 mcg/g Cr
GABA	182.6	(1.)	600 - 1100 mcg/g Cr	150 - 700 mcg/g Cr
EXC	CITATORY NE	EUR	OTRANSMITTERS	
DOPAMINE	122.5	[4]	250 - 400 mcg/g Cr	100 - 350 mcg/g Cr
NOR-EPINEPHRINE	7	[1]	30 - 50 mcg/g Cr	13 - 70 mcg/g Cr
EPINEPHRINE	0.7	(1.)	10 - 15 mcg/g Cr	3 - 20 mcg/g Cr
GLUTAMATE	2.5	[4]	5 - 10 mg/g Cr	2 - 12 mg/g Cr
PEA	3.2		n/a	1.6 - 7.3 mcg/g Cr
	ADRENAL AD	APT	ATION INDEX	
NOREPI/EPI RATIO	10		n/a	< 13
	OTHER	M	ARKERS	
CREATININE, URINE	229.6		n/a	mg/dL
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Creatinine is used to calculate results and is not to be used diagnostically.

(L) & (H) are based on optimal ranges if available, otherwise they are based on reference range.

How Neurotransmitters Are Made

- L-tyrosine (From food or supplement) +Iron+BH4+Niacin->
 - L-Dopa + B6->
 - DOPAMINE + Vitamin C +Copper->
 - NOREPINEPHRINE +SAM-E->
 - EPINEPHRINE
- L-Tryptophan +Vitamin C+Folate+Niacin+Iron+Calcium->
 - 5-HTP +B6+Vitamin C+Zinc+Magnesium->
 - SEROTONIN +SAM-E->
 - Melatonin

How Neurotransmitters Are Made

- L-Glutamine ->
 - Glutamate ->+Magnesium and B6=
 - GABA

Folate Cycle

- Folate Cycle
 - B9 (folate = green leafy veggies) ->+B3=
 - Dihydrafolate->+B3=
 - Tetrahydrofolate ->+B6=
 - 5,10-methlenetetrahydrofolate->
 - +B2+NADH+ATP+MTHFr=5-Methyltetrahydrofolate=
 - Part of the process of detoxification
 - Part of the process of neurotransmitter production

Other Considerations in Brain Health

- Inflammation
 - Food Dyes
 - Sugar
 - Starch
 - White Potato
 - Bread
 - Pasta
- Food Allergies and Sensitivities
 - IGE and IGG Food Allergy and Sensitivity Labs
- Gut Health
 - Are there Beneficial Bacteria?
 - o Are there Candida concerns?
 - Comprehensive Stool Analysis
- Excessive use of electronics

How I Start Patients...

- Neurotransmitter Testing
 - Urine test (Non-invasive)
 - Allows us to see where the excesses or deficiencies are in neurotransmitters that may be contributing to symptoms
- First Steps Include:
 - Test
 - My interpretation of test to patient or patient's parents
 - The ability to move into one of our customized wellness programs if patient's choose to do so.



Contact Information

Dwight Franklin, DOM

Franklin Family Wellness Institute

357 Wekiva Springs Road, Longwood, FL 32779

Call: (270) 339-3299

Email: dfranklin@myffwi.com

Myffwi.com

Facebook: @FranklinFamilyWellness

Instagram: @Franklin_Family_Wellness



THANK YOU



THANK YOU

