For a copy of the presentation scan me:



ADHD Beyond Symptoms

Exploring causes, understanding holistic treatments, and mastering learning strategies to treat the whole child





Who is Nectar?

The Nectar Group is an education company dedicated to helping students overcome learning challenges so that they can reach their full potential. With our assessment-driven process, we use scientific tools to evaluate and pinpoint the root causes of learning difficulties. Then, we create custom solutions utilizing cognitive neuroscience to resolve those root issues.

We optimize learning and take a holistic approach to improving school, work, and life performance by providing:

- Therapeutic interventions that are grounded in neuroscience to treat the causes of learning difficulties for all ages
- K-12 and collegiate level academic tutoring in reading, writing, and math to build solid content and prepare students for college and beyond
- Study skills and executive function coaching to ensure successful student outcomes
- One-to-one educational services via educational consulting, individualized schooling, and homeschool support



Who do we work with?

Clients ages 6 and up



All types of diagnoses:

ADHD, Dyslexia, Autism Spectrum, "Slow Learners", Gifted, Twice Exceptional, TBI



Students and adults looking for a competitive edge



Nectar provides all services to clients around the world via our unique eCoaching remote video services

What is ADHD?



DX of Attention-Deficit/Hyperactivity Disorder Three Types - On a Spectrum: Mild-Severe



Predominantly inattentive presentation



Predominantly hyperactive/impulsive presentation



Combined presentation

Criteria are met for both types

What is ADHD?

Symptom Cluster

If you have a specified number of symptoms, you meet diagnostic criteria for ADHD.

The main symptoms are an inability to inhibit impulses, manage behavior, activate attention, and self-regulate emotions.

The key to treating ADHD is to uncover the root cause and go **BEYOND** the management of symptoms!

ADHD is as a disorder of self-regulation. It is not just that children can't inhibit their impulses, but they have trouble both activating and fine tuning their behavior, attention, and emotions (Nigg, 2017). This explains children who cannot get started on or finish their homework but can focus on Legos[™] or their stamp collection for hours. Their natural interest does not have to be "regulated" for those activities in order to pay attention.

- Dr. Sanford Newmark, Head of the Pediatric Integrative Neurodevelopment Program at UCSF

Understanding the root causes of ADHD

Potential Pyramid[™]

In most cases, ADHD is caused by deficits in cognitive function (tier 1) that then impacts STUDY SKILLS the ability to learn content (tier 2) and compromises the development of behavior and executive Motivation function skills (tier 3). Organization Test-Taking How We What We **Behavior** Help Work On TUTORING • Math Reading Writing Content COGNITIVE TRAINING Memory Attention Processing Speed Logic & Reasoning Visual Processing **Cognitive Skills** Auditory Processing

If the root cause of ADHD is weak cognitive skills, what is the root cause of low cognitive function?

Root Cause of Cognitive Weaknesses

Physiological & Neurological Deficits in the Brain caused by Genetics or Environmental Factors

(i.e. Low birth weight, lack of oxygen, physical birth trauma, environmental toxins, emotional trauma, diet and nutrition, brain injury, concussion, etc.)



Methods for Diagnosing ADHD



Two Methods for Diagnosing ADHD

Symptoms Based Pharmaceutical Model

- Most often done with a pediatrician
- Parent/Teacher surveys of observed symptoms
- If you have enough symptoms the result is a dx
- No evaluation for comorbidities (i.e. dyslexia)
- NO evaluation of root causes / NO cognitive assessment
- High rate of misdiagnosis
- Focus is on symptom management usually through medication

Assessment Based Neuropsychological Model - Uncovering the Root Causes

- Done with a licensed clinical psychologist or neuropsychologist
- Involves Parent Interview, student interview, and testing of cognitive function, academics in reading, writing, math, observed symptoms, psychosocial evaluation, and attention and focus measures
- Looks for and diagnoses cooccurring disorders (i.e. dyslexia and ADHD or anxiety and auditory processing disorder)
- Identifies the root causes / extensive cognitive assessment
- Comprehensive and high accuracy
- Focus is on treatment of the root causes and complete biopsychosocial treatment

Holistic Treatment of ADHD





Three-Pronged Approach to Intervention

- 1. Assessment and Treatment of Cognitive Deficits: addresses the root cause
- 2. Optimize Brain Function: supports optimal neurological function and mood regulation
- 3. Implement Educational/Behavioral Strategies: improves self-regulation & independence

Step One: Assessment & Treatment of Cognitive Deficits



Assess: Testing Cognitive Skills

Pinpoint strengths and weaknesses, Unearth the root cause of challenges

- Comprehensive cognitive testing

 non diagnostic
- Neuropsych/Psychoeducational assessment diagnostic



Example Report: Tailor Treatment to Specific Deficits

Skill Tested	Definition	Age Equiv.	Percentile Rank 67	
Short-Term Memory	The capacity to hold information in immediate awareness.	14-2		
Direct Recall/Auditory Attention	The ability to attend to auditory information for direct recall.	16-10	76	
Direct Recall/Visual Attention	The ability to attend to visual information for direct recall with an attention to detail.	12-8	51	
Working Memory	12-8	54		
Processing Speed/Sustained, Selective, and Divided Attention	7-8	1		
Academic Processing - Letters	Language Facility (fluency and ease of processing written language)	8-1	4	
Academic Processing - Numbers	Number Facility (fluency and ease of processing numerical info)	9-0	<mark>6</mark>	
Executive Processing	Cognitive flexibility with distractions/divided attention demands	7-2	1	
Long-Term Memory The ability to learn new information, store this information, and recall it for later use.		13-8	57	
Auditory	Ability to encode, store, and retrieve verbal information.	14-0	57	
Visual and Auditory	Ability to encode, store, and retrieve visual with auditory information.	13-4	53	
Visual Processing	The ability to perceive, analyze, synthesize, and think in visual images.	15-4	63	
Spatial Awareness	The ability to think in visual patterns and manipulate images in the mind's eye.	17-5	70	
Logic and Fluid Reasoning A combined measure of the ability to reason, problem solve, plan, and form concepts.		>20	89	
Quantitative Reasoning	Number sense, pattern recognition, and mathematical reasoning	>20	92	
Inductive/Deductive Reasoning	>23	73		
Auditory Processing	understanding the "big picture," problem solve, and form concepts. Ability to hear and distinguish different sounds measuring phonological processing and phonological memory.	13-8	60	
Phonological Processing	Ability to identify, isolate, and manipulate sounds.	20	81	

Cognitive Assessments



The Benefits of Cognitive Testing...

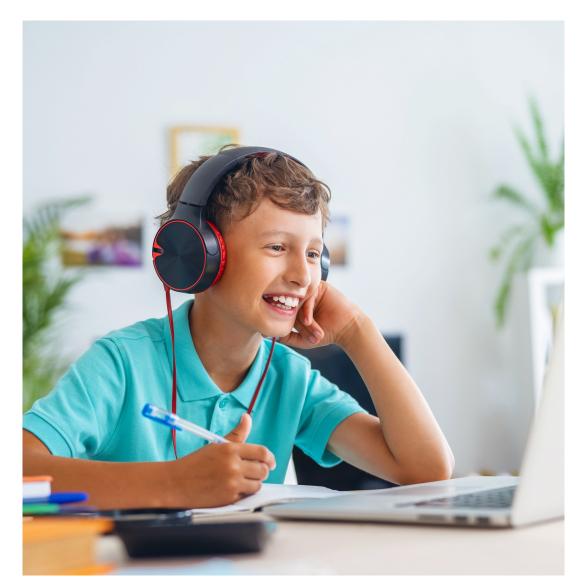
Treatment will be more:

- Accurate
- Customized & Targeted
- Effective

Time & Cost Savings. Able to tailor holistic interventions such as diet, sleep, exercise, etc.

Cognitive Training

- One-to-one intensive coaching that targets cognitive deficits
 - Works by stressing a weak area through mental exercise, encouraging the brain to build new neural networks
 - Neurons that fire together, wire together! (Hebb's Law)
 - Corrective measure that improves the primary underlying cause of ADHD: weak cognitive skills (Short-term memory, processing speed, and attention)



Results that are Truly Life Changing!

- 70% of children on ADHD meds, stop meds within 6 months of therapy, those not on do not start
- Increased attention and focus
- Improved self confidence
- Improved academic performance
- Ability to complete schoolwork with greater speed and efficiency
- Better emotional regulation



Step Two: Optimize Brain Function



There are many ways to improve brain function holistically. Today we are going to focus on two:

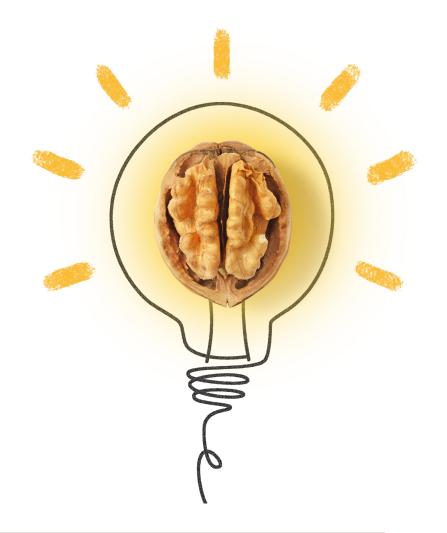
- 1. Eat a diet high in essential fatty acids
 - 2. Ensure optimal micronutrient levels

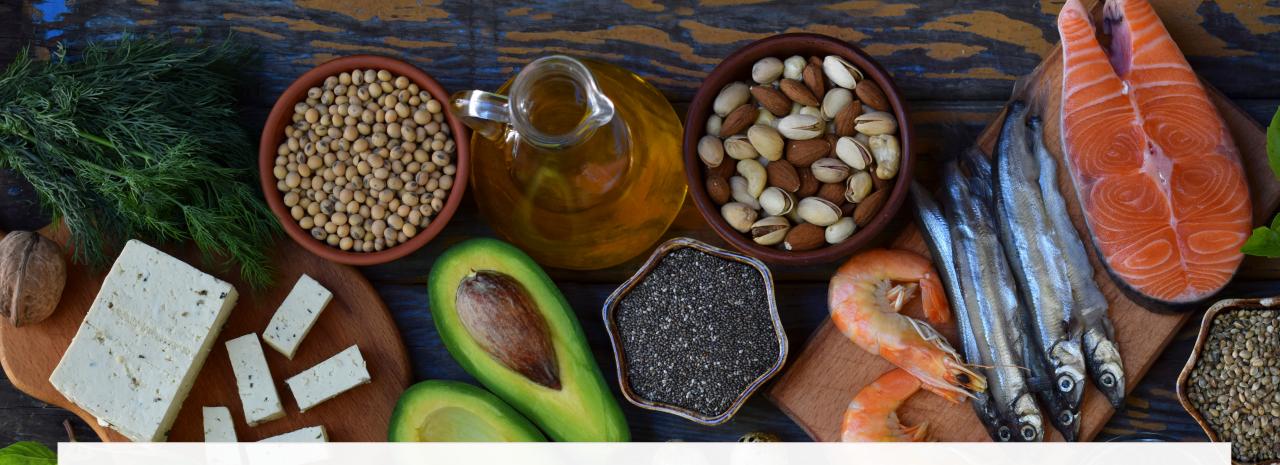


Eat a Diet High in Essential Fatty Acids (Omega 35)

How does this help? Omega 3s:

- Assist with proper functioning of brain cells, facilitating the transmission of signals between neurons
- Influence the functioning of neurotransmitters in the brain such as serotonin and dopamine, which play significant roles in mood regulation and cognitive functioning
- Improve cognitive function, especially memory, attention, and processing speed.





Eat a Diet High in Essential Fatty Acids

- Foods: wild salmon, grass-fed meats-especially beef and bison, omega 3 enriched eggs, walnuts, chia seeds
- Supplementation: Barleans, Nordic Naturals, Accentrate

Ensure Optimal Micronutrient Levels How does this help?

Zinc, magnesium, and iron in particular are crucial for cognitive function. Some of the key ways they help are:

- Crucial for neurogenesis (the production of new neurons) and neuroplasticity
- Ensures synaptic plasticity (the junctions between neurons to function in a way that allows for learning & memory)
- Myelin production (the fatty substance that insulates the nerve fibers, improving the signal transmission between neurons, especially important for attention, learning, and memory

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Ensure Optimal Micronutrient Levels

Emphasize magnesium, zinc, & iron

- Zinc beef (chuck roast), dark meat turkey, pork loin, cashews, sunflower seeds, chickpeas
- Magnesium brazil nuts, cashews, almonds, spinach, swiss chard, avocado, brown rice
- Iron spinach, lentils, beans, tuna, shellfish like oysters, clams, mussels, beef, beans
- Supplementation: Quality multi-vitamin (Innate, Douglas Laboratories, Aspire Multi-powder, see ADHD without Drugs book or Parenting the Whole Child for specific dosing guidelines for individual nutrients.

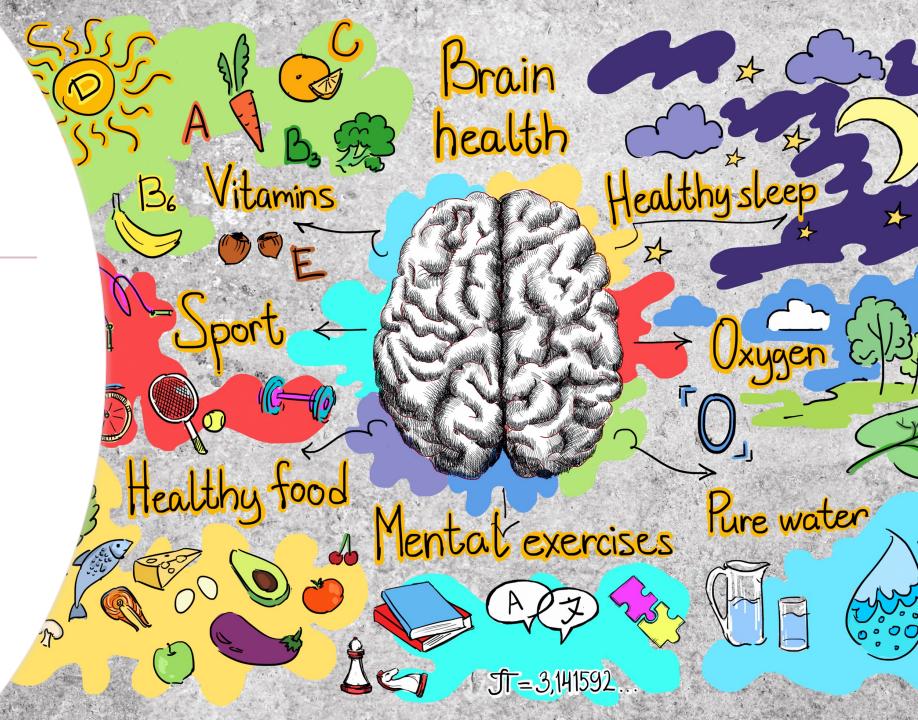


Get Help, Get a Plan!

Nectar Integrative Health & Wellness Coaching

6 Keys to Improve Learning by Optimizing Brain Function Digital Course

- Mental Exercise
- Movement/Physical Exercise
- Sleep
- Resiliency/Stress Reduction
- Environmental Factors
- Nutrition



Step Three: Implement Strategies



Strategies for at Home

Set and stick to a routine - bedtimes, wakeup times, mealtimes

Set expectations with clear guidelines & consequences, Have Non-negotiables / Create a Homeschool Contract and/or a Behavior Contract

Organize your environment

Prioritize time outdoors and physical exercise within every day

	Limit	Passive	& Addictive	Technology	' Use
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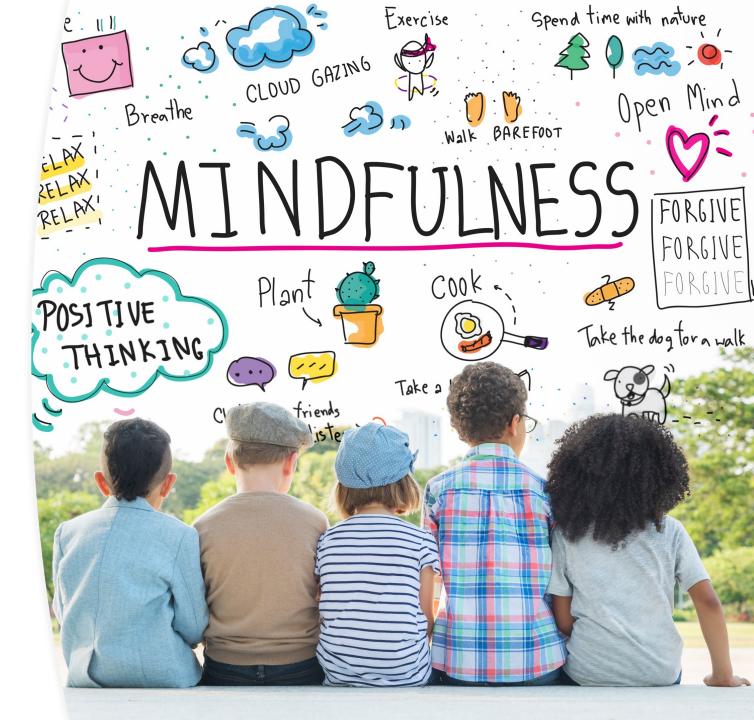


Strengthen the Parasympathetic Nervous System to Improve Self-regulation

- Mindfulness Training
 - Stretching
 - Contemplative Prayer
 - Tai Chi
 - Martial Arts
 - Apps: Calm, Headspace, Insight Timer
 - Breathwork (4-7-8 breath)
 - Being outdoors in nature
 - One to One Coaching (Nectar)

• Biofeedback

- Neurofeedback
- Heart Math
- Apollo Neuro



Parent-Child Interaction Therapy



- Teaches parents how to help the child develop more adaptive behaviors and coping skills
- Helps parents learn to set clear expectations, provide praise for follow through, and use effective consequences
- Includes sessions with the parents and child working together and with parents alone.
- Parent-Child Interaction Therapy (PCIT), Parent Management Training (PMT), and Positive Parenting Program (Triple P)

Provide Explicit Coaching in Study Skills and Executive Functioning



Time Management and Organization

Study Hacks and Habits

Responsibility and Self-Advocacy

Study Strategies

°

Critical Thinking Skills

JJ Note-taking

Test-taking Strategies

Medication:

"No one was born with a Ritalin deficiency." -Dr. Pierre Brunschwig, M.D.



 Should be considered as a last resort only after a comprehensive evaluation and attempting all other biopsychosocial interventions. Medication does not treat the root issues but rather manages symptoms.

• Significant short and long-term side effects.

Summary of Three-pronged Approach

1. Assessment and Treatment of Cognitive Deficits: addresses the root cause

2. **Optimize Brain Function**: supports optimal neurological function and mood regulation

3. **Implement Educational/Behavioral strategies**: improves self-regulation and independence

Next Steps

Comprehensive Cognitive Assessment

Non-diagnostic, identification of root causes, & treatment plan

Psychoeducational Assessment

Full diagnostic assessment, identification of root causes, & treatment plan Outside Test Review treatment plan **Dig Deeper** ADHD Workshop or 6 Keys Course



How The Nectar Group Can Help

- Psychoeducational assessments to diagnose or rule out ADHD.
- Cognitive assessments to pinpoint strengths and weaknesses and determine intervention.
- Assessment Review & Recommendations
- Cognitive Skills Training to strengthen key skills such as working memory, attention, and processing speed.
- Individual tutoring to fill academic gaps resulted from inattention and hyperactivity.
- Executive Function and Study Skills Coaching to improve skills such as self-advocacy, study skills, time management, and organization.
- Family integrative health & wellness coaching.
- Digital Courses
- Free consultations to determine best next steps.

Thank you so much for your time!



Feel free to contact us at:









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www.TheNectarGroup.com