The Evaluation, Treatment and Education of Children with Developmental Disabilities



Sam Goldstein, Ph.D. Assistant Clinical Professor University of Utah School of Medicine

- www.samgoldstein.com
 info@samgoldstein.com
- @drsamgoldstein@doctorsamgoldstein







Preschool Gradu	lation Part II		
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William Comment		440	

Relevant Disclosure

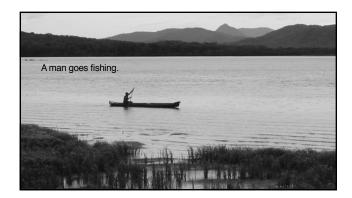
- My expenses for this talk are supported by Rehab Seminars.
- I have developed tests marketed by Multi-Health Systems, Pro-Ed and Western Psychological Services.
- I have authored books marketed by Springer, Wiley, Guilford, Double Day, McGraw Hill, Brookes, Kluwer and Specialty Press.
- I am Editor in Chief of the Journal of Attention Disorders (Sage) and Co-Editor of the Encyclopedia of Child Development (Springer).
- I am a compensated speaker.

Course Objectives

- Describe how normal brain growth, human development and instincts relate to the acquisition of academic knowledge, emotional regulation, socialization, and general behavior.
- Understand our changing views of child development and learning.
- Understand the role of instincts in facilitating normal child development.
- Describe a conceptual model to appreciate atypical development and abnormal behavior in childhood.
- Describe the application of three types of formal and informal means of assessment.
- Describe the role of executive functioning in a broad range of emotional, behavioral and academic phenomena
- Describe the role resilience qualities serve in insulating and protecting youth at risk
- Explain a means to evaluate impairment as a separate issue from a broad range of developmental challenges or delays
- Describe how to apply the Building Blocks model to understand and develop intervention strategies
- Describe a broad range of strategies to assist children with developmental, emotional and
 behavioral disorders.

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Survival of the Species

- Salmon and snakes are born with sufficient instincts to survive.
- Bear cubs require at least one or two years with their mother to insure survival.
- \bullet Higher primates require three or four years.
- Humans require at least ten years.







The Math of the Developing Brain

Addition, Subtraction, and Reorganization



Brain Development



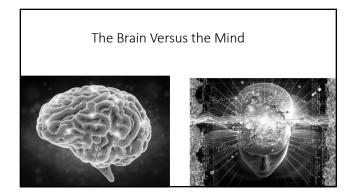


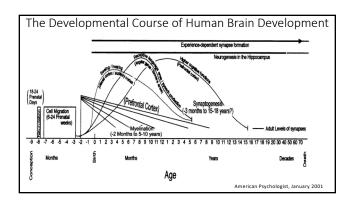


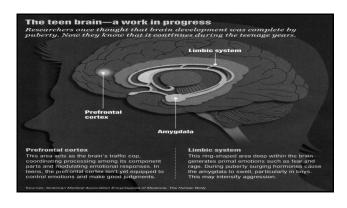
Second trimester



Third trimester







Neurological deve a simple proces growth from simp	s of gradual
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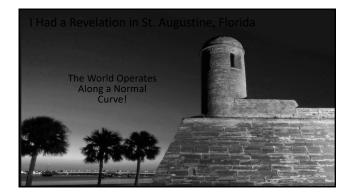
Development Occurs from Conception Through Childhood.

- Additive processes involve proliferation of neurons, development of synaptic connections and myelinization.
- Subtractive processes involve programmed cell death prenatally and synaptic pruning postnatally.
- Development is more than overproduction followed by cutting back, substantial functional reorganization takes place.

Differences in the Ways the Brain of the Young Child Differs From the Adult.

- Increased metabolic activity peaking at 150% by two years of age
- Focal or localized brain functions in adults are carried out by diffuse regions in children
- Adults utilize inhibitory processes, children do not as routinely
- Less automatization of brain mediated functions in children

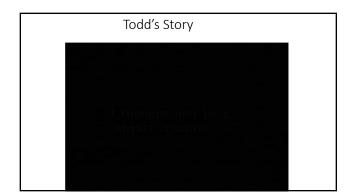
Compared with the brain of the child, representation of function in the adult brain is likely to be more focal, to make greater use of inhibitory processes, and to implicate non-cortical regions associated with the automatization of skills



We have perpetuated the nineteenth century perception that raising children is a process by which information is dumped into a **BLACK BOX** lying mysteriously within the human brain.

We have also assumed a Stepford Wives model that all black boxes are identical.	
How I Was Trained All Children: With all children. Share qualities unique to them Share positive or negative qualities with sub-groups	
We must adopt a learning to ride a bike mindset.	







Through the Eyes of Innocence



We have been successful in doing so because they possess many critical instincts, most importantly Intuitive Optimism and Intrinsic Motivation.

Preschool Graduation



	1
How Will They Feel and Behave in Five Years?	
NAME OF BRIDE	
to a le te Patre s p m	
The second secon	-
-	-
"The secret of education lies in	
respecting the student"	
Ralph Waldo Emerson	
	-
The superious of succeins we should	
The experience of growing up absent success for some students steals	
away opportunities to develop a resilient mindset.	



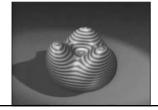
We must design schools to fit the needs of our society today . . .



. . .with an eye towards the future.

I call this educational future:

INSIDE OUT SCHOOLS!



Incida	Out	Schoo	lc.

- Are student focused.
- Create educational climates to foster resilient mindsets.
- Are designed in concert with the forces that drive human development
- Provide opportunities for students to assimilate and accommodate knowledge in diverse ways (e.g. TALK, MOVE, QUESTION).
- Foster and enhance executive functioning.
- View educators as engagement coaches.

Educators are classroom engagement coaches.



As Engagement Coaches They Must:

- PREPARE know the subject, know the student, know the strategy
- $\bullet \, \mathsf{PLAN} \mathsf{strategize}, \, \mathsf{design} \, \, \mathsf{options} \, \,$
- PRACTICE develop competence, comfort and resilience

As Engagement Coaches They Must Understand
and Appreciate How to Facilitate the Four Basic
Neuropsychological Abilities

- Enhance planning ability by helping students become strategic problem solvers.
- Develop attentional ability to enhance student focus on what can be controlled.
- Strengthen simultaneous ability to build student comprehension and capacity to "see the big picture".
- Build sequential ability to foster student acquisition of basic academic knowledge.

As Engagement Coaches They Must Design Classrooms to Nurture and Grow Developing Minds

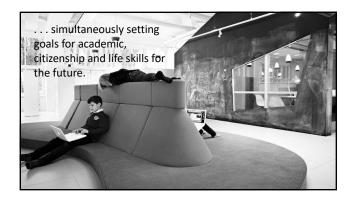
- · Reinforce optimism.
- Provide opportunities for empathy and altruism.
- Provide competition in the absence of winning.
- Provide extrinsic reinforcement for effort not control.
- Provide experiences for children to develop effective executive functioning.

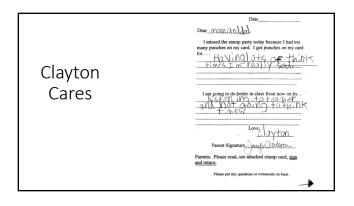
As Engagement Coaches They Must Design Classrooms to Nurture and Grow Developing Minds

- Minimize external consequences to control.
- Enhance self-discipline.
- Set limits in autonomous ways.
- Provide opportunities for students to develop and strengthen basic cognitive processes.
- They must understand how children learn.

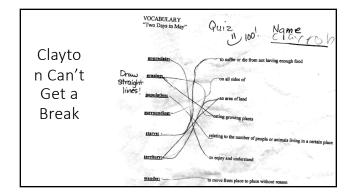
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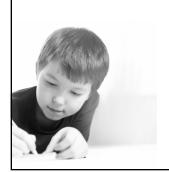






mom and dad I love you more than you know to: momand ad from: Yourson, clayton





We fail to appreciate that children are genetically endowed with certain patterns of behavior and thought that shape their development and adult lives

Human Instincts

- In some species instincts are fixed patterns of behavior leading to a certain outcome such as a bird building a nest for the first time or a salmon returning upriver to its' birthplace to spawn.
- Instincts in our species represent an intuitive way of thinking and/or acting increasing the chances of survival and success.
- In viewing instincts in this way we appreciate that knowing what to think or do and doing what you know or think are not synonymous and are very much dependent on experience.
- These instincts are more important than ever in preparing today's children for tomorrow's successes.

The Seven Instincts of Tenacity



- Intuitive Optimism
- Intrinsic Motivation
- Compassionate Empathy
- Simultaneous Intelligence
- Genuine Altruism
- Virtuous Responsibility
- Measured Fairness





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Intuitive Optimism



- Intuitive optimism can be defined as born believing.
- The more complex the species, the longer the time taken to mature, the more tasks to be mastered, the more important it becomes to believe success or a goal is attainable.
- Intuitive implies that children do not have to learn by experience alone, they just know.
- Optimism implies that no matter what challenge comes before them they retain the belief that with perseverance they will ultimately experience success.
- Intuitive optimism explains why children absent any knowledge of their capacity or potential for success are willing to try again and again to master developmental tasks.

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- Intrinsic motivation is best defined as motivation from the inside out. It is not derived from guilt but from the joy of success.
- It is not derived from coercive, punitive, or reward driven parenting but from creating opportunities for children, even at young ages, to experience pleasure from success and achieving goals.
- Young children want to help even if the task is beyond their means.
- Their reward is built into the task.

Compassionate Empathy



- Empathy is the ability to understand another person's point of view.
- Such understanding is the foundation of communication, respect, and
- Compassion is sympathetic pity and concern for the plight of others.
- Thus compassionate empathy is an understanding and concern for the misfortunes of others and the capacity to feel what they feel.

Simultaneous Intelligence



- Simultaneous intelligence guides our practical understanding of how elements of a problem fit together into a solution.
 Simultaneous intelligence is best defined as the ability to see how all the parts fit together when solving problems.
- This instinct is not culture or experience bound. For two thousand years intelligence was defined as how well you solved problems not how well you could read or write.
- After all, academic achievement for all is a late nineteenth century idea. Unfortunately, the advent of mandatory education 150 years has led intelligence to be largely defined as the extent to which a child possessed a body of knowledge.
- Even today many schools require advanced academic achievement or acquired knowledge along with strong simultaneous intelligence to qualify for gifted education.

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Geni	Jine	AITT	uism



- Altruism is an unselfish concern for and support and survival of others.
- Genuine altruism is most synonymous with what we might consider as "pure" altruism.
- It is the giving of yourself with no expectation of a return for your actions.
 We help others achieve their goals even when the helper receives no immediate benefit and the person helped is a stranger.
- Genuine altruism is rare among nearly all species and may be a unique human instinct.
- Researchers have demonstrated that children as young as 18 months will readily help others to achieve their goals.
- This form of helping others without reciprocity is strongly driven by compassionate empathy and related to virtuous responsibility and measured fairness, which we will discuss below.

Virtuous Responsibility



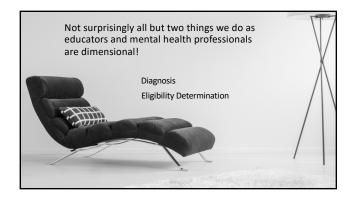
- Virtue is about principles and ethics.
- The roots of virtuous responsibility run deep in our genes. Responsibility begins with the intrinsic motivation young children possess to be helpful.
- They take great pleasure when engaged in what we have called "contributory activities" as is evident in their bright smiles when their actions are complimented and appreciated.
- These contributory activities are displayed during each and every day.
 They want to help us cook, take care of younger siblings, rake leaves, mow the lawn, build with our tools, sweep the kitchen, and set the

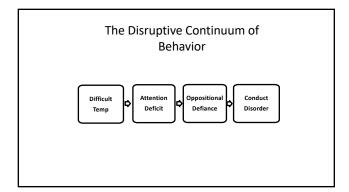
Measured Fairness

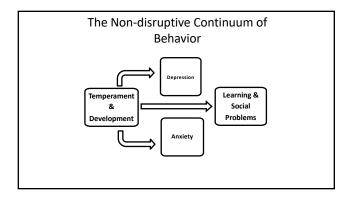


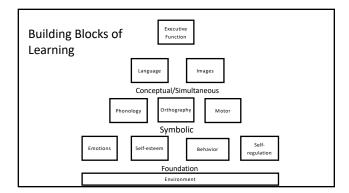
- · The instinct of measured fairness lies at the fundamental level of our social selves.
- This world and the many species in it evolved and survived based on this instinct.
- For thousands of generations being fair to others in your family or tribe insured everyone's survival.
- Everyone contributed equally. And so, fairness has its nemesis: unfairness.

Do Children Care What We Think? Part I	Dear Mrs. Cowdell Lam writing you this letters The JUST asking if you can forgue me for talking back to you have do not wanted to apply the forgue me for talking back to you have the forgue way, when and had make mishates, but I'm sive you knew that Mrs. Cooke what I'm trying to say is that I'm very very, very, sorry.	
Do Children Care Wh We Think? Part II	Dear Mrs. Cowdell Nrs. Cowdel	
The Bus Test	SCHOOL BUS	









How Shall We Understand, Define and Categorize Mental Illness and Developmental Problems in Children?



- By etiology or cause?
- By emotions, abilities, behaviors and thoughts?
- By impaired function in activities of life?

Diagnosis



Medicine/Medical.

The process of determining by examination the nature and circumstances of a diseased condition.

The decision reached from such an examination.

Eligible

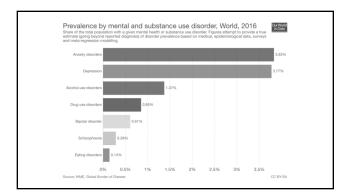
Having the right to do or obtain something; satisfying the appropriate conditions.

"Customers who are eligible for discounts"

Synonyms: entitled, permitted, allowed, qualified, able

"Those people eligible to vote"
(of a person) desirable or suitable as a partner in marriage.
"The world's most eligible bachelor" Synonyms: desirable, suitable





How distinct are these disorders from each other?

Much less so than makes me comfortable!





Co-Occurrence/Comorbidity

DX	ASD	ADHD	ODD	CD	ANX	DEP	LD
ASD		60%	13 to 27%	1 to 10%	35%	41%	45%
ADHD	60%		25 to 75%	22%	35%	41%	45%
ODD	13 to 27%	25 to 75%		42%	62%	39%	55%
CD	1 to 10%	22%	42%		42%	40%	35%
ANX	35%	35%	62%	42%		60%	30%
DEP	41%	41%	39%	40%	60%		10%
LD	45%	45%	55%	35%	30%	10%	

How distinct are these disorders from each other?

Although the National Institute of Mental Health (NIMH) has prepared well for this undertaking, much remains to be done. Rigorous diagnostic procedures are available for some mental disorders, but not all. Studies to identify the genes that influence the onset of mental disorders have been initiated, but too few are large enough to efficiently detect these genes. Dedicated investigators are working on various aspects of mental disorders, but more researchers with training in molecular and statistical genetics are required (NIH,1997)



How distinct are these disorders from each other?

For over a century, psychiatric disorders have been defined by expert opinion and clinical observation. The modern DSM has relied on a consensus of experts to define categorical syndromes based on clusters of symptoms and signs, and, to some extent, external validators, such as longitudinal course and response to treatment. In the absence of an established etiology, psychiatry has struggled to validate these descriptive syndromes, and to define the boundaries between disorders and between normal and pathologic variation.

Psychiatric genetics and the structure of psychopathology

Kenneth S. Kendler

How distinct are these disorders from each other?

Before the modern era of genomic research, family and twin studies demonstrated that all major psychiatric disorders aggregate in families and are heritable. Over the past decade, the success of large-scale genomic studies has confirmed several key principles: (1) psychiatric disorders are highly polygenic, reflecting the contribution of hundreds to thousands of common variants of small effect and rare (often de novo) SNVs and CNVs; (2) genetic influences on psychopathology commonly transcend the diagnostic boundaries of our clinical DSM nosology. At the level of genetic etiology, there are no sharp boundaries between diagnostic categories or between disorder and normal variation

Psychiatric genetics and the structure of psychopathology

Comorbidity is the

RULE

not the Exception



What is the Goal of a Comprehensive Evaluation? · Identify and define symptoms?

- Identify and define strengths and weaknesses?
- Appreciate the relationship of a set of symptoms to a unitary condition?
- Define limits of functional impairment to set a baseline for intervention?

Components of a Thorough Assessment

- History
- Broad Spectrum Questionnaires (Parent and Teacher)
- Impairment. Risk. **Executive Functioning**
- Narrow Spectrum Questionnaires (Parent and Teacher)
- Self report Questionnaires
- · Ability Assessment
- · Achievement Assessment
- Interview with Child

General Guidelines for a Comprehensive Evaluation

- A distinction should be made between acute vs. chronic problems.
 Person and environment protective factors need to
- be understood.
- Assessment should be strength and risk focused.
- Test results should be presented in ways that are useful to consumers (e.g. family, school, etc.).
- The least amount of assessment needed to answer referral questions should be completed.



Critical Issues

- Assess for intervention
- Understand positive and negative predict
- Understand sensitivity vs. specificity
- Begin with the disruptive/non-disruptive
- Keep low incidence problems in mind
- Consider resilience (protective) factors
- Measure impairment



Critical Issues

- Demographics
- Symptoms vs. consequences
- Categories vs. dimensions
- Eligibility vs. diagnosis
- Developmental pathways: accept a moment in time
- There are no shortcuts
- Assess the environment



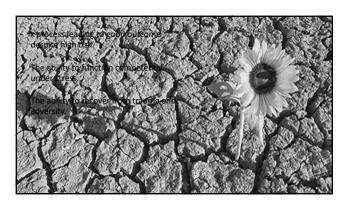
A lesson from Michael.



"I'm not afraid about my girlfriends and myself, we'll squeeze through somehow, though I'm not too certain about my math."

Anne Frank June 21, l942





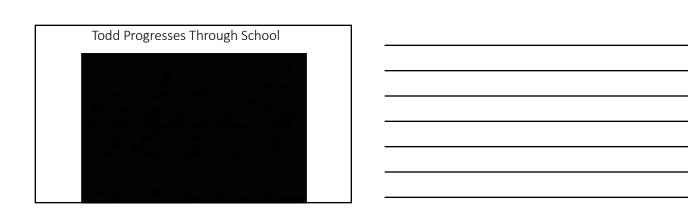


Four Waves of Resilience Research 1. Identifying person and variable-focused factors that make a difference. 2. Understanding the operation of these factors within systems with a process focus. 3. Intervening with an individual to foster resilience. 4. Making System wide changes.



Environmental Factors Associated With Successful Coping* Smaller family size. Maternal competence and mental health. Close bond with primary caregiver. Supportive siblings. Extended family involvement. Living above the poverty level. Friendships. Supportive teachers. Supportive teachers. Involvement in pro-social organizations.





Assessment of Risks and Strengths Risk Inventory and Strengths Evaluation (RISE)

- Protective (Resilience) Behaviors -Emotional Balance

 - -Interpersonal Skill
 - -Self Confidence
- Risky BehaviorsBullyingDelinquencyHealth

 - Sexual
 - Substance Abuse
 - Suicide





	rview

- · The first tool to look at these concepts within the context of each other
- Ages 9 through 25 years; Parent, Teacher and Self Forms
- 15-20 minutes administration time
- Norm-referenced *T*-scores examine broad constructs of risk and strength
- Response validity scores also available
- For educational psychologists, counselors, clinical psychologists and other mental-health professionals working with children, adolescents and young adults (Level C)

Validity: Clinical Groups

At-Risk Sample (n = 160): Key validation sample for RISE: qualifying for prevention and intervention services because of unfavorable socioeconomic circumstances, current gang members, ex-gang members, and youth on probation

RISE scores differentiate at-risk youth from typically developing youth with *large, clinically significant effect sizes*.

Validity studies also cover a range of additional groups (clinician-assigned diagnosis):

4 Sang Membership

5 Suciciality/Depression

ADHD

ASD

ASD

Ability, Knowledge and Skill

Five Key Early Achievement Abilities

Label Association Retrieval Sequence Orthographic



PASS Theory

- \bullet $\mbox{\bf PASS}$ theory is a neuropsychological way to define and measure 'ability' based on
 - Planning = THINKING ABOUT THINKING
 - Attention = BEING ALERT
 - **S**imultaneous = GETTING THE BIG PICTURE
 - Successive = FOLLOWING A SEQUENCE

PASS Theory: Planning

Planning is a neurocognitive ability that a person uses to determine, select, and use efficient solutions to problems

- problem solving
 developing plans and using strategies
 retrieval of knowledge
 impulse control and self-control

- control of processing

Planned Codes

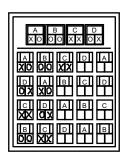
- ▶ Child fills in the codes in the empty boxes
- Children are encouraged to think of a good way to complete the page

A B C D						
A OIX	в 00	с Х Х		Α		
A XID	В DD	C	D	A		
A MD	в 00	С	D	Α		
A XD	в DЮ	С	D	A		

100

Planned Codes

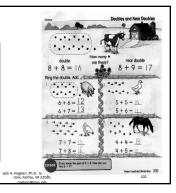
- Page 2
- What is a good plan to complete this page?
- Note orientation



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Math Strategies

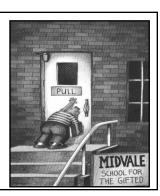
Note to the Teacher: When we teach children skills by helping them use strategies and plans for learning, we are teaching both knowledge and processing. Both are important.



Knowledge and Planning Learning Curves • Learning depends upon instruction and intelligence (PASS) • At first, PASS plays a major role in learning • When a new task is learned and practiced it becomes a skill and execution requires less PASS Role of Planning Maximum Use Well Learned Task Over time and with experience

Planning • Evaluate a task • Select or develop a strategy to approach a task • Misconding or strategies when necessary Examples of classroom problems related to Planning • using the same strategy even if it is not effective • Struggling with how to complete tasks • Not monitoring progress during a task • Misinterpretation of what is read

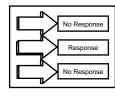
POOR PLANNING



PASS Theory

Attention is a basic neurocognitive ability we use to selectively attend to some stimuli and ignores others

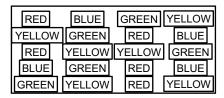
- focused cognitive
- activity
- selective attention
- resistance to distraction



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CAS2 Expressive Attention

The child says the color not the word. Score is time and number correct

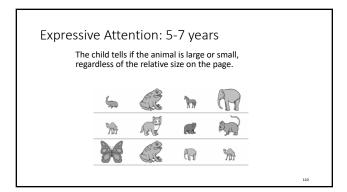


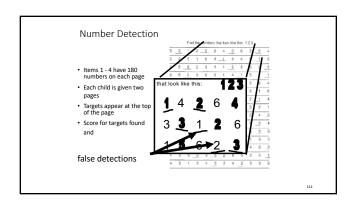
Expressive Attention - Italiano



108

Expressive Attention – Korean CAS ■ The child says the color not the word 빨강 파랑 초록 노랑 노랑 빨강 빨강 노랑 노랑 초록 초록 파랑 초록 빨강 ᄎ로





Attention This sheet 11. 3:15 pm, 15 has a strong Attention demands because of the similarity Maura began basketball practice at 3:00 p.m. and finished 50 minutes later. What time did she finish? A 3:50 p.m. B 3:05 a.m. C 4:05 p.m. D 4:50 a.m. 14. Lance fished from 6:00 A.M. to 9:45 A.M. How long did he fish? A 3 hours B 3 hours and 15 minutes C 3 hours and 45 minutes D 4 hours and 45 minutes

PASS Theory: Attention

Attention

- Focus on one thing and ignore others
- Resist distractions in the learning environment



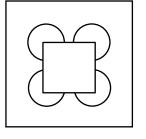
PASS Theory

Simultaneous processing is a basic neurocognitive ability which we use to integrate stimuli into groups

- Stimuli are seen as a whole
- Each piece must be related to the others
 Wechsler Nonverbal Scale
- KABC Simultaneous Scale

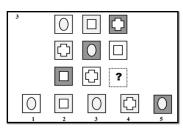
PASS Theory

- Simultaneous processing is what Gestalt psychology was based on
- Seeing the whole

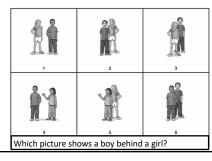


CAS2 Matrices

Child selects one of the options that best completes the matrix



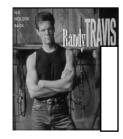
CAS2 Verbal-Spatial Relations



Simultaneous Verbal Task

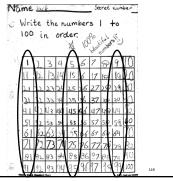
- Simultaneous processing using verbal content
- Who is this song about?

My momma's daddy was his oldest son,



Numbers from 1 to 100

How is ... Simultaneous processing facilitated by this work sheet?



Simultaneous Processing at Work!





Simultaneous Processing at Work!		
THEN MON COME US DON'T CALL GRAMAN SALMAN FIGHT? AND HONOR WE WON'T CALL CHICKEN "CHICKEN BROTE I MAN'E NO UPEA. MAY DON'T UPOL ASK YOU'S GRAMMY?	ALL WANDS IS VOIL CAN TUNE A SH.	

PASS Theory: Simultaneous

Simultaneous Processing

- Relate separate pieces of information into a group
 See how parts related to whole
- Recognize patterns

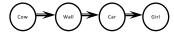


PASS Theory: Successive

Successive processing is a basic neurocognitive ability which we use to manage stimuli in a specific serial order

• Stimuli form a chain-like progression

• Stimuli are not inter-related



Word Series

The child repeats a series of words in the same order the examiner says them.

- Wall-Car
 Shoe-Key
- 10. Cow-Wall-Car-Girl 11. Dog-Car-Girl-Shoe-Key
- ... 27. Cow-Dog-Shoe-Wall-Man-Car-Girl-Key-Book

124

Sentence Repetition (Ages 5-7) or Sentence Questions (Ages 8-17)

- Sentence Repetition
 - Child repeats sentences exactly as stated by the examiner such as:
 - The red greened the blue with a yellow.
- Sentence Questions
 - Child answers a question about a statement made by the examiner such as:
 - The red greened the blue with a yellow. Who got greened?

125

Visual Digit Span subtest allows for a Visual Auditory comparison Visual-Auditory Comparison Visual-Auditory Comparison Visual-Scaled Score Visual Plays Span Underence (ignore sign) Circle one: 05 .10 NS

Successive

The sequence of the sounds is emphasized in this work sheet.

-Aa-
Ants accept award
Antonia entra pronto
Active ants applaud
Active art appland
Annie ale apples
Amieratory

Learning Math Facts

PASSTheory: Successive

Successive Processing

- Use information in a specific order
- Follow instructions presented in sequence

Examples of classroom problems related toucoessive

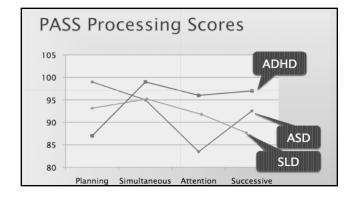
Trouble blending sounds to make words

Difficulty remembering numbers in order

Reading decoding problems

Difficulty remembering math facts when they are taught using ret learning (4 + 5 = 9).

Maghin Land Pikteries, L., Heighing Children Learn, 2003



Components of a Thorough Assessment Step 1: History Step 2: Assess Impairment (RSI), EF (CEFI) and Risk (RISE) Step 3: Broad Spectrum: Conners CBRS or Conners EC Step 4: Decide on Narrow Spectrum Questionnaires: - Disruptive Problems: Conners 3 - Non-Disruptive: - RASC 2 - RASC 2 - CD 2 - CD 2 - CD 2 - CD 3 - Sch Facher Questionnaire Step 6: Resilience Step 7: Personality

Obtain a Thorough History

- Immediate and extended family risks.
 Pregnancy and delivery
 Infancy and toddlerhood (temperament)
 Preschool and school history
 Socialization
 Family relations

- ramily relations
 Sleep, appetite and hygiene
 Past treatments or educational services
 Discipline
 Situational problems





Why is the assessment of impairment critical to a comprehensive evaluation??



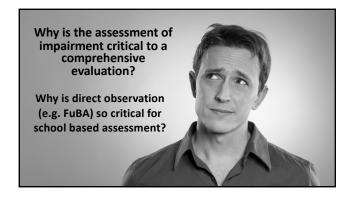


An exhaustive review of the literature demonstrates that the relationship between symptoms and functioning remains unexpectedly weak and often bidirectional (McKnight and Kashdan, 2009).

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• There is a clear need to measure "impairment" when using the IDEIA, Diagnostic and Statistical Manual of the American Psychiatric Association (DSM) or the International Classification of Diseases (ICD) as a guide to eligibility determination and/or diagnosis.







Symptoms vs. Impairment

Impairment is not the same as symptoms

- Symptoms are physical, cognitive or behavioral manifestations of a disorder.
 Impairments are the functional consequences of these
- symptoms.





Difficulty completing homework



	_
IMPAIRMENT VS. ADAPTIVE BEHAVIOR	
A skill deficit occurs when a person does not know	
how to perform an everyday task, whereas a deficit in performance occurs when an individual has acquired a	
skill, yet does not seem to use it when needed.	
(Ditterline & Oakland, 2009)	
	7
IMPAIRMENT VS. ADAPTIVE BEHAVIOR	
Thus, while measures of adaptive behavior emphasize the presence of adaptive skills in daily functioning, measures of functional impairment tend	
to emphasize the outcome of a behavior or the performance of an individual rather than the presence or absence of the skill.	
Ditterline & Oakland (2009); Dumas et al. 2010); Gleason & Coster (2012)	
Adaptive Behavior vs.	1
Impairment	
Skill ^{vs} Performance	
(Do you ACTUAL LY do in)	

Adaptive Behavior vs. Impairment







Symptoms vs. Impairment

Impairment can exist absent of formal diagnosis. (Balazs et al., 2013; Wille et al., 2008)

In one study 14.2% of a sample of children were significantly impaired without a formal diagnosis. (Angold et al., 1999)

Relationship Between the Rating Scale of Impairment and Other Measures



_			
Consequences	: Ot	inatt	≙nti∩n
CONSCIUCTICES	, OI	matt	CHUOH

- Conditions under which problems with consequences are observed

 - DelayedInfrequentUnpredictable
 - Lacking saliency

Todd Finds a Path

ADHD is a developmental disability with a childhood onset that typically results in a chronic and pervasive pattern of impairment in school, social and/or work domains, and often in daily adaptive functioning.

What is ADHD?	
ADHD is a biopsychosocial condition characterized by core symptoms of inattention, hyperactivity and impulsivity leading to/interacting with	
inattention, hyperactivity and impulsivity leading to/interacting with cognitive deficits causing impairment in all walks of life.	-
151	
	'
What is ADHD?	
• ADHD appears to primarily involve the basal ganglia, corehollum and	
 ADHD appears to primarily involve the basal ganglia, cerebellum and variably the frontal lobes, depending on associated learning difficulties. 	
 Comorbidity with ADHD probably confounds findings from different study groups. (Hendren et al, 2000) 	
The symptoms of ADHD Lead to a Nearly Infinite Number of Consequences	
consequences	
152	
Inattention	
Conditions under which inattention is observed:Repetitive	
• Effortful	
Uninteresting Not chosen	-

C ~	ı£.	regu	L +	:
20	IT-I	regn	ιат	ınn

- The ability to inhibit
- The ability to delay
- The ability to separate thought from feeling
- The ability to separate experience from response
- The ability to consider an experience and change perspective
- \bullet The ability to consider alternative responses

...

Self-regulation

- The ability to choose a response and act successfully towards a goal The ability to change the response when confronted with new data
- The ability to negotiate life automatically
- The ability to track cues

155

Children with ADHD aren't Clue-less

They are unfortunately often cue-less!

_	~ IC		1
Poor	Selt-	regu	lation

- Poor self-regulation is synonymous with
- Poor self-regulation leads to
 impulsive behavior

157

Psychiatric Concerns

- Antisocial personality disorder(7-18%)
- Substance use disorders: Alcohol (32-53%), Marijuana (15-21%), Other (8-32%)
- Dysthymia (19-37%)
- Major Depression (16-31%)
- Bipolar Disorder (0-6%)
- Learning Disabilities (0-30%)
- Anxiety (0-20%)

Emerging Personality Disorders in Teens With ADHD

- Anti-social personality (22%)
- Passive aggressive personality (19%)
- Borderline personality (14%)
- Histrionic (11%)
- Avoidant (11%)

(Barkley et al, 1998)

Personality Issues in Teens With ADHD	
 Pessimistic, negative world view 	
External locus of controlSelf-centered style	
Chaotic life-styleDisorganized	
• Introversive • Passive	
(Robin et al, 1998)	
	•
These personality issues comprise 55% of adults with ADHD vs. only 12% of	
the unaffected population	
	1
Behavior Manifestations	
Trouble focusing/concentratingDistractible/sidetracked	
Trouble finishing tasksThemes of intense frustration	
Underachievement	

Behavior Manifestations	
Poor organization and planning Procrastination	
Mental/physical restlessness	
 Impulsive decision making Frequent impulsive job changes 	
Poor academic grades for abilityChronic lateness	
Frequently lose/misplace things	
	1
Work and School Concerns	
Poor self-regulation	
Can't sustain attention to paperwork	
Trouble staying alert and focused Poor organization and planning	
ProcrastinationPoor time management	
Subjective sense of restlessness	
	1
Work and School Concerns	
Impulsive decision making	
Unable to work well independently	

Trouble following directionsChange jobs impulsively

Often late Forgetful Poor self-discipline.

Interpersonal Concerns	
Impulsive comments to others	
Quick to demonstrate emotion	
Stress intolerance	
Poor adherence to obligations	
Viewed by others as immature	
Talk excessively/listen poorly	
Problems sustaining friendships and relationships	
Miss social cues	

Adaptive Behavior Problems

- \bullet Trouble with financial matters including checkbooks, money management, debt, and impulsive spending
- $\bullet\,$ Trouble organizing/maintaining the home
- Spouse may feel overburdened
- Inconsistent/unreliable
- Driving problems
- Habit and abuse problems

Emotional Problems

- Immaturity (50%)
- Low frustration tolerance
- $\bullet \ \, \text{Over-reaction to situations}$
- Poor self-esteem
- Demoralization



Executive Function

Goldstein, Naglieri, Princiotta, & Otero (2013)



- We found more than 30 definitions of EF(s).
- Executive function(s) has come to be an umbrella term used for many different abilities, including planning, working memory, attention, inhibition, self-monitoring, self-regulation and initiation carried out by pre-frontal areas of the frontal lobes.

What is/are Executive Function(s)

There is no formal excepted definition of EF

- We typically find a vague general statement of EF (e.g., goal-directed action, cognitive control, top-down inhibition, effortful processing, etc.).
- Or a listing of the constructs such as
 Inhibition,
 Working Memory,

 - Planning,
 Problem-Solving,
 - Goal-Directed Activity,
 Strategy Development and Execution,
 Emotional Self-Regulation,



Does Experience Shape EF?

- The Family Life Project has demonstrated that poverty is associated with elevated cortisol in infancy and early childhood.
- This association is mediated through characteristics of the household.
- Parenting sensitivity mediates the relationship between poverty and stress physiology.
- In combination parenting sensitivity and elevated cortisol mediate the association between poverty and poor EF in children.

Family Life

What Neural Activities Require EF?

- Those that involve planning or decision making.
- Those that involve error correction or troubleshooting.
- Situations when responses are not well-rehearsed or contain novel sequences of actions.
- Dangerous or technically difficult situations.
- Situations that require the overcoming of a strong habitual response or resisting temptation.

173

What is Executive Function(s)

- 1. Barkley (2011): "EF is thus a self-directed set of actions)" (p. 11).
- 2. Dawson & Guare (2010): "Executive skills allow us to organize our behavior over time" (p. 1).
- 3. Delis (2012): "Executive functions reflect the ability to manage and regulate one's behavior (p. 14).

What i	is	Executive	Function(์ ร่
vviiac	10	LACCALIVE	1 allections	

- 4. Denckla (1996): "EF (is) a set of domain-general control processes..." (p. 263).
- 5. Gioia, Isquith, Guy, & Kenworthy (2000): "a collection of processes that are responsible for guiding, directing, and managing cognitive, emotional, and behavioral functions" (p. 1).

175

What is Executive Function(s)

- 6. Pribram (1973): "executive programmes ...to maintain brain organization " (p. 301).
- Roberts & Pennington (1996): EF "a collection of related but somewhat distinct abilities such as planning, set maintenance, impulse control, working memory, and attentional control" (p. 105)

176

What is Executive Function(s)

- Stuss & Benson (1986): "a variety of different capacities that enable purposeful, goal-directed behavior, including behavioral regulation, working memory, planning and organizational skills, and self-monitoring" (p. 272).
- Welsh and Pennington (1988): "the ability to maintain an appropriate problem-solving set for attainment of a future goal" (p. 201).

What is Executive Function(s)

10. McCloskey (2006): "a diverse group of highly specific cognitive processes collected together to direct cognition, emotion, and motor activity, including ...the ability to engage in purposeful, organized, strategic, self-regulated, goal directed behavior" (p. 1)

"think of executive functions as a set of $\;\;$ independent but coordinated processes rather than a single trait" (p. 2).

178

What is Executive Function(s)

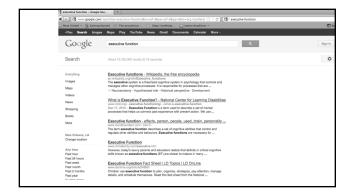
- 10. Lezak (1995): "a collection of interrelated cognitive and behavioral skills that are responsible for purposeful, goal-directed activity," ...
- 11. "how and whether a person goes about doing something" (p. 42).
- 12. Luria (1966): "... ability to correctly evaluate their own behavior and the adequacy of their actions" (p. 227).

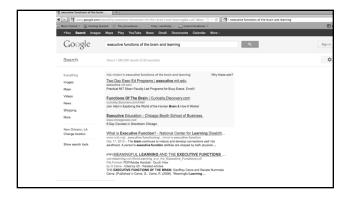
179

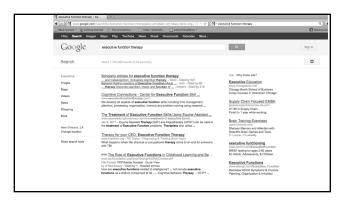
Executive Functions



Collection with the collection of the collection







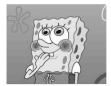
And Finally. . . .

A NICHD panel in 1994 identified 33 EFs by consensus!



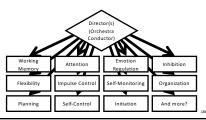
The Top Six Were:

- Self-regulation
- Sequencing of behavior
- Flexibility
- Response inhibition
- Planning
- Organization of behavior



Three Categories of Theories

- Regulators that controlAbilities (cognitive processes)
- Behaviors



Given all these definitions of EF(s) we wanted to address the behavioral question...

Executive Functions ... or

Executive Function?

Executive Function(s)

- One way to examine this issue is to research the factor structure of behaviors related to EF(s)
 To do so, we examined the factor structure of the Comprehensive Executive Function Inventory (CEFI)
- We conducted a series of research studies to answer the following question:

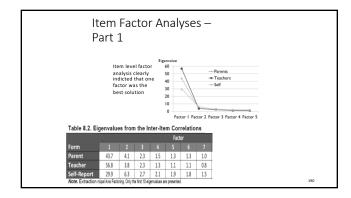
 - answer the following question:

 What is the underlying structure of the behaviors assessed on the CEF!?

 Is there is just one underlying factor called executive function), or do the behaviors group together into different constructs suggesting a multidimensional structure?

ITEM FACTOR ANALYSES — PART 1

- For the first half of the normative sample for Parent, Teacher and Self ratings' item scores (90 items) was analyzed using exploratory factor analysis
- The scree plots and the very simple solution criterion both indicated that only one factor.
- The ratio of the first and second eigenvalues was greater than four for all three forms, which indicated a one factor solution.



Scale Factor Analyses – Part 2

- Using the second half of the normative sample EFA was conducted using raw scores for the Attention, Emotion Regulation, Flexibility, Inhibitory Control, Initiation, Organization, Planning, Self-Monitoring, and Working Memory scales
- Both the Kaiser rule (eigenvalues > 1)
 and the Eigen value Ratio criterion (> 4)
 unequivocally indicated one factor.

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EVDI OP	ΛT∩DV	FACTOR	ANALYSES
FXPIUR	AILIKT	FACIUR	ANALISES

Conclusion:

When using parent (N = 1,400), teacher (N = 1,400), or self-ratings (N = 700) based on behaviors observed and reported for a nationally representative sample (N = 3,500) aged 5 to 18 years Executive Function not functions is the best behavioral term to use.

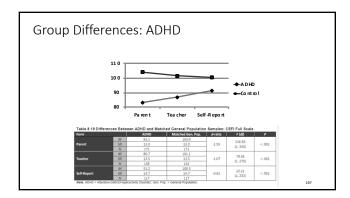
193

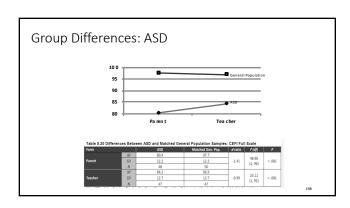


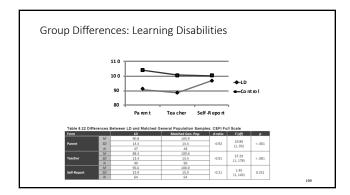
EF as a Mediator of Ability and Knowledge

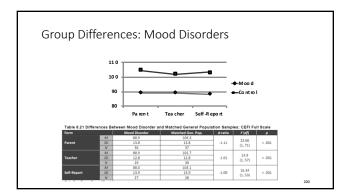
- Ability: The skills we use to acquire and manipulate knowledge to solve problems. Also referred to as intelligence.
- Knowledge: Everything we learn in life. Also referred to as achievement.
- Executive Function: How efficiently or skillfully you do what you decide to do.

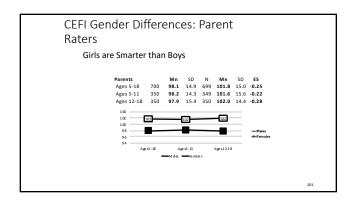
Why Does Executive Function Matter? EF is essential for success in daily living including: Academic & occupational functioning For more information see: Best et al., 2009, Miller et al., 2012; Valiente et al., 2013 Interpersonal problems For more information see: Sprague et al., 2011; De Panfilis et al., 2013 Physical health For more information see: Hall et al., 2006, Falkowski et al., 2014 Mental health For more information see: Willcutt et al., 2005; Bora et al., 2009; Mesholam-Gatey et al., 2005; Bora et al., 2009; Mesholam-Gatey et al., 2005, 2013

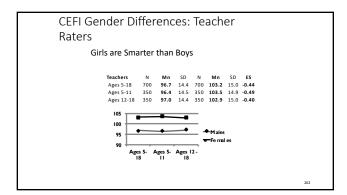


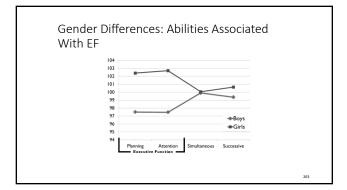








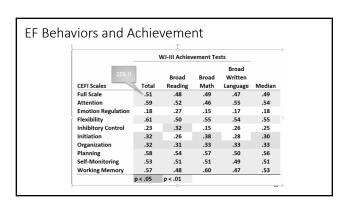




EF Impacts Performance on Intelligence, Achievement and Neuropsychological Tests

- Data from the Neurology, Learning and Behavior Center in Salt Lake City, UT
- Children given the CEFI, WISC-IV (N = 43), CAS (N = 62), and the WJIII achievement (N = 58) as part of a typical test battery.

	nd Neur	Ops	,	CAS	,icui	,		
	20%!!	FS	Plan	Sim	Att	Suc	CE	FI
CEFI	20%						Mn	SD
Full S	cale	.45	.49	.43	.37	.32	91.4	13.2
Atten	tion	.40	.42	.39	.30	.35	90.3	12.8
Emot	ion Regulation	.26	.22	.23	.24	.13	96.9	14.7
Flexib	Flexibility		.54	.51	.40	.42	92.2	13.0
Inhibi	Inhibitory Control		.29	.22	.18	.21	96.0	13.9
Initiat	tion	.40	.37	.31	.30	.20	89.0	16.3
Organ	nization	.29	.36	.21	.20	.23	90.5	14.3
Plann	ing	.47	.54	.46	.37	.38	92.5	12.4
Self-N	Monitoring	.48	.50	.49	.43	.35	91.2	12.4
Work	ing Memory	.48	.46	.45	.38	.30	91.0	14.0
CAS M	n	95.8	92.4	101.6	96.5	98.0		
CAS SE)	17.1	14.5	17.0	15.1	14.6		





We are social beings.



What Benefits Do We Derive From Socialization?



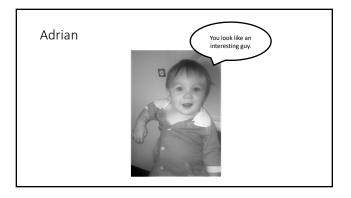
- Support
 Survival
- Affiliation
- Pleasure
- Procreation
- Knowledge • Friendship



14

Adrian, my seatmate on a recent flight.

Hello!









Kanner's Description (1943)

- first physician in the world to be identified as a child psychiatrist
- founder of the first child psychiatry department at Johns Hopkins University Hospital
- Wrote Child Psychiatry (1935), the first English language textbook to focus on the psychiatric problems of



the label *early infantile* autism in 1943 in his paper : Kanner, L. (1943). Autistic disturbances of affective contact. Nervous Child, 2, 217-250.

Kanner's Description (1943)

- His seminal 1943 paper, "Autistic Disturbances of Affective Contact", together with the work of Hans Asperger, forms the basis of the modern study of
- Leo Kanner was the Editor for Journal of Autism and Developmental Disorders, then called Journal of Autism and Childhood Schizophrenia



introduced the label early infantile autism in 1943 in his paper : Kanner, L. (1943). Autistic disturbances of affective contact. Nervous Child, 2, 217-250.

Kanner's Description (1943)

- Inability to relate to others
- Disinterest in parents and people
- Language difficulties
- Fascination with inanimate objects
- Resistance to change in routine
- Purposeless repetitive movements ▶ A wide range of cognitive skills
- ▶ Where they possess an innate inability for emotional contact



Core DSM and ICD Core ASD Symptoms in All Ages

- Impaired social relations.
- Impaired communication skills.
- Impaired behavior.



Research Demonstrated Core Factors of Challenges In ASD

- Social/Communication Deficits
- Atypical Behaviors
- Poor Self-regulation

Symptoms Present Before 24 Months

Children with ASD Struggle to:

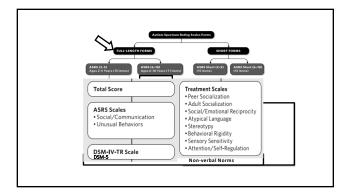
- Orient to name
- Attend to human voice
- Look at face and eyes of others
- Imitate
- Show objects
- Point
- Demonstrate interest in other children

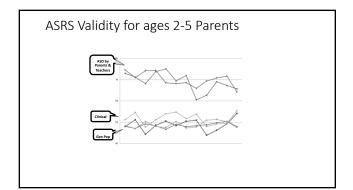


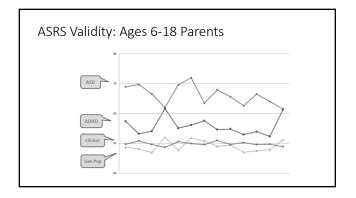
7	5

Symptoms Present Before 36 Months	
Children with ASD:	
Use of other's body to communicate or as a toolStereotyped hand/finger/body mannerisms	
Ritualistic behavior	
Failure to demonstrate pretend play	
Failure to demonstrate joint attention	
	·
	-
Autism is now referred to as a spectrum disorder in which individuals can present	
problems ranging from total impairment	
to near reasonable functioning.	
In a Spectrum Disorder genetic and	
phenotypic factors predispose certain	
individuals to express certain Central Nervous System vulnerabilities leading to	
poorly adapted variations in	
development and behavior.	

In a Spectrum Disorder all symptoms are	
In a Spectrum Disorder all symptoms are considered relevant to the extent they	
present in each disorder. Thus a symptom is not exclusive to a disorder.	
	-
The form that a Spectrum Disorder	
assumes is determined by its composite symptoms. These symptoms often have	
complex relationships.	
	-
	1
	-
Autism Spectrum Rating Scales	
Multi-informant measure designed to identify symptoms, behaviors, and associated features of Autism Spectrum Disorder (ASD) in children and	
adolescents aged 2 to 18 years.	







Anxiety and Depression	

Childhood Depression

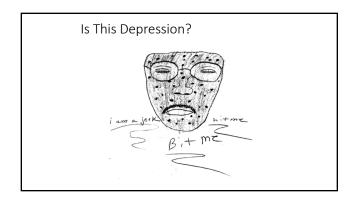
- Increasing each successive generation
- Exacerbated by a variety of familial and environmental factors
- Appears time limited but in reality isn't
- No critical diagnostic test
- Highly prevalent in the most vulnerable youth
- Strong familial transmission

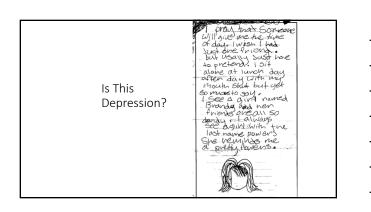
Anxiety and Depression: Two Sides of the Same Coin

- Similar parts of the brain are implemented.
- Similar neurotransmitter systems.
- Similar medicines used to treat both.
- Similar types of counseling used to treat both.

	_
Are Depression and Anxiety Traits or States?	-
2	
	_
- TI: D : 2	
Is This Depression?	
• Sadness	
ListlessnessLack of energy	
Duration of several monthsPrior to age 7	
These are reported in 10% of children!	
Is This Depression?	
5/6/94 Draw how 3	
I felt tonal,	
left angry	
I felt confused	

Is This Depression?	
thease yeek days was.	
thease yeed days was. it was confusing. it was a hardweek. We had to go nand out the Door. and it was stress ful	





Depression represents a	
continuum of difficulty from mild variations in affect to severe	
mood swings and accompanying	
impairment.	
	-
During childhood and adolescence as many as one in	-
five youth will experience a	
depressive episode	
The numbers of depressed youth	
remain constant but individuals cycle above and below diagnostic	
symptom thresholds.	
	-

Major depression remits spontaneously in 50-80% within one year.	
Seventy to ninety percent will experience a second major depressive episode within 5 years.	
It is estimated that one out of every five people will struggle with depression on a reoccurring basis.	

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170	\cup	sior

- May be represented as an affect or an external representation of the subjective experience of emotion.
- May be a mood subjective internal emotion.
- May be a syndrome consisting of a cluster of incapacitating symptoms and behaviors.

Characteristics of Childhood Depression

- Sadness
- Boredom
- Low self worth
- Guilty feelings
- Social isolation

Characteristics of Childhood Depression

- Impaired school work
- Chronic fatigue
- Low energy level
- Sleep problems
- Appetite problems
- Suicidal thoughts or actions

Most Predictive Symptoms of Yo	uth
Depression	

- Feeling unloved
- Inability to derive pleasure
- Excessive guilt
- Depressed mood
- Negative view of self, world and future (the cognitive triad)

Children's Depression Inventory 2[™] (CDI 2)

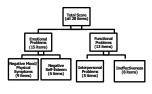
Comprehensive multi-rater assessment of depressive symptoms in children and adolescents from ages 7 to 17, which offers the flexibility of application in either clinical or educational settings.

Scale Structure: Parent and Teacher

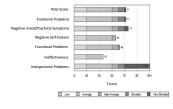


4-point Likert-type rating: 0="Not at All" ; 3="Much or Most of the Time"

Scale Structure: Self-Report (Full Length)



CDI 2 Profile



Types of Anxiety in Children

- Separation anxiety: Very anxious and upset when parted from parents and caregivers; refusal to attend camp, sleepovers, or play dates; worry that bad things will happen to self or loved ones while separated.
- Social anxiety: Strong fear of social situations; very anxious and selfconscious around others; worry about being judged or humiliated.
- Specific phobia: Severe, irrational fear set off by a situation or thing, such as thunderstorms, worry about vomiting, or insects.

Why Are Some Children More Vulnerable to Anxiety?

- Biological factors, such as genes and brain wiring
- Psychological factors, such as temperament and coping strategies
- Environmental factors, such as anxious parenting or troubling early childhood experiences and environment.

Multidimensional Anxiety Scale for Children 2nd Edition (MASC 2)

- Comprehensive multi-rater assessment of anxiety dimensions in children and adolescents aged 8 to 19 years.
 Distinguishes between important anxiety symptoms and dimensions that broadband measures do not capture.

MASC 2 Scales

MASC 2 Scal	es
Separation Anviety/Phobias GAD Index Social Anviety Humilation/Rejection Performance	
Obsession & Compulsions	ia.
Physical Symptoms: Total Panic Tense/Restless	* * * * * * * * * * * * * * * * * * *
Harm Avoidance	10 di 10 10 di 10 di

Organizing the Data

- A day in the life
 Ability/Knowledge/Skill
 Take a chronological perspective.
 Risk and Protective factors
 Determining eligibility
 Suggesting possible diagnoses
 Recommending needs
 Considering continuum of services

ADOPT A LEARNING TO RIDE A BICYCLE MINDSET!



Todd: A Resilience Story	
	-
Josh	
First grade Supportive home and school	
Good self-esteem Good behavior	
Weak processing blocks Strong thinking blocks	
VISUAL	
VISUAL	
Matthew	
• Fifth grade	_
Attention and impulse problems Supportive home and school	
Good emotional development Adequate processing blocks ATTENTION &	
Strong thinking blocks CONTROL	

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Ann	
/····	
• Eighth grade	
Strong foundational blocks LANGUAGE	
Strong processing blocksProblems thinking with language	
Adequate thinking with images and strategies	
	•
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Stella	
ATTENTION MOTOR IMAGES	
Strong emotional, behavioral and environmental blocks	
Weak attention block	
Adequate language processing block Visual	
Weak motor and visual blocks Weak thinking with images block	
Adequate strategies and thinking with language	
blocks	
	•
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Key Goals of Intervention	
Instill hope and empowerment	_
• Educate	
Reframe Duild self-esteem and self-escentages	
Build self-esteem and self-acceptance	

Keι	/ Goals	$\circ f$	Interv	ention
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- Form a partnership
- Reduce discouragement through setting realistic goals
- Address and rewrite negative scripts
- Focus on strengths
- Build resilience

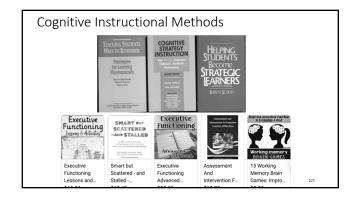
EF Interventions

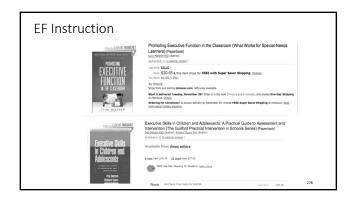
Can strategic, instructional interventions provide remedial and compensatory support for children with EF deficits?

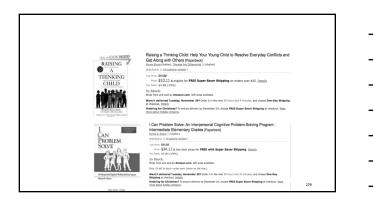
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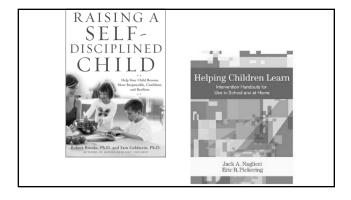
Cognitive Strategy = EF Instruction

- A strategy is a procedure that the learner uses to perform academic tasks
- Using a strategy means the child thinks about 'how you do what you do' $\,$
- Successful learners use many strategies.
- Some of these strategies include visualization, verbalization, making associations, chunking, questioning, scanning, using mnemonics, sounding out words, and self-checking and monitoring.





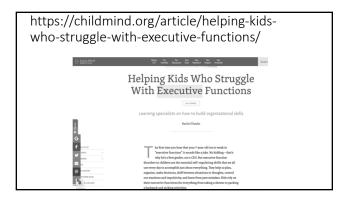


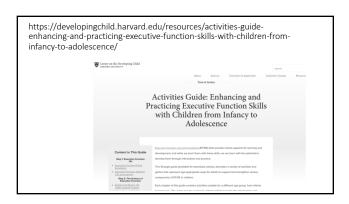




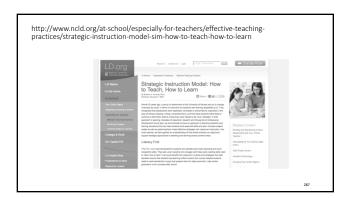


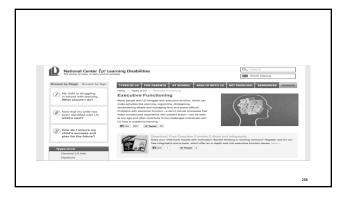






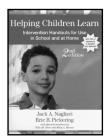






Teaching Children to use EF

- Helping Children Learn Intervention Handouts for Use in School and at Home, Second Edition By Jack A. Naglieri, Ph.D., & Eric B. Pickering, Ph.D.,
- Spanish handouts by Tulio Otero, Ph.D., & Mary Moreno, Ph.D.



Think smart and use a plan! Ifigured out to do fit to get her the pieces together! Think smart and put the pieces together! Think smart and put the pieces together! Think smart and follow the sequence! Think smart and follow the sequence!

Steps to Strategic Instruction:

- Describe the strategy. Students obtain an understanding of the strategy and its purpose-why it is important, when it can be used, and how to use it.
- Model its use. The teacher models the strategy, explaining to the students how to perform it.
- Provide ample assisted practice time. The teacher monitors, provides cues, and gives feedback. Practice results in automaticity so the student doesn't have to "think" about using the strategy.
- Promote student self-monitoring and evaluation of personal strategy use. Students will likely use the strategy if they see how it works for them; it will become part of their learning schema.
- Encourage continued use and generalization of the strategy. Students are encouraged to try the strategy in other learning situations.

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Benefits of Strategy Instruction	
Students trust their minds Students feel a sense of power Students know there is more than one right way to do things They acknowledge their mistakes and	
try to rectify them They evaluate their products and behavior Memories are enhanced Students develop and use a personal study process They know how to "try" On-task time increases: students are	
Self-esteem increases	
292	
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Five keys to successful management of ADHD	
 Make tasks interesting Make payoffs valuable Adjust expectations for change	
Allow more trials to masteryAllow more time for change	
	•
	1
The consequence is worse than the symptom:	

NEGATIVE REINFORCEMENT

	•
Why do some with ADLID thrive	
Why do some with ADHD thrive while others barely survive?	
, in the second	
Symptom relief is not synanymous	
Symptom relief is not synonymous with changing long term outcome.	
•.	
·	
Psychosocial Interventions for ADHD	
Environmental manipulation of the physical	
plant • Environmental manipulation of consequences	
Modification of cognitive function	
	1

They are/can be effective symptom	
relievers but they may not change	
long term outcome.	
Is Counseling for ADHD Non-Traditional?	
Active role of therapist	-
 Cognitive behavioral model Similar to working with individual's with neurological conditions. Therapist takes an active even directive role. 	
Therapist takes an active even directive role. • Involve support system	
Offer guidance and advice.	
	•
	1
"Make the work interesting and the	
discipline will take care of itself"	
E. B. White	
2. 2	

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What teachers want from children with ADHD	
•TO THINK	
TO STARTTO STOP in concert with all	
students	
Voya for the Columnian of Children	
Keys for the Education of Children With ADHD	
MAKE TASKS INTERESTINGMAKE PAYOFFS VALUABLE	
 ALLOW MORE TRIALS OVER LONGER TIME PERIODS FOCUS ON ASSETS 	
ADOPT A LONG TERM PERSPECTIVE	
	_
Cognitive Strategies For the Classroom	
Cognitive Strategies For the Classroom	
 Monitoring Evaluation	
Cuing Problem solving	
• Communication	
Attribution	
	•

- Adjust expectations
- Everyone succeeds every day
- Prepare for changes
- Seating in rows
- Incompetence versus non-compliance
- Mix high and low interest tasks
- Simple, single directions

What Qualities Define the Best School for Students With ADHD?



Structure, Stimulation, Repetition or Novelty?



The Ideal Teacher for ADHD?	
	_
ABCDEF	
and the state of t	
"You will like Mr. Wooford. He has an attention-deficis disorder."	
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"Make the work interesting and the	
discipline will take care of itself"	
E. B. White	
	1
What teachers want from children with ADHD	
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• TO THINK	
TO STARTTO STOP in concert with all students	

Keys for the Education of C	hild	ren
With ADHD		

- MAKE TASKS INTERESTING
- MAKE PAYOFFS VALUABLE
- ALLOW MORE TRIALS OVER LONGER TIME PERIODS
- FOCUS ON ASSETS
- ADOPT A LONG TERM PERSPECTIVE

Management Strategies For the Classroom

- Adjust expectations
- Everyone succeeds every day
- Prepare for changes
- Seating in rows
- Incompetence versus non-compliance
- Mix high and low interest tasks
- Simple, single directions

The Art of Educational Commands

STOP

ALPHA

Place your feet on the floor.

(Best)

Do it!

Don't do it!

(Least effective)

START

Management Strategies For the Classroom

- Transitions
- Consequences
- Consistent routine
- Allow non-disruptive movement
- Teacher contact
- Ignore minor disruptions
- An efficient system for homework

Management Strategies For the Classroom

- Manage negative reinforcement
- Use response cost
- Use differential attention
- State and review rules
- Predictable schedule
- Maintain home-school communication
- Don't be a martyr

The Power of Education?



Focus on Well Being!	
rodd on wen benig.	
COMPETENCE in academic, social and vocational areas CONFIDENCE or a positive identity	
CONNECTIONS or healthy relations	
CHARACTER or positive values, integrity, and values	
CARING and compassion	
(Lerner et al, 2000)	
"The secret of education lies in respecting	
the student"	
Ralph Waldo Emerson	
Naipii waldo Efficisofi	
	1
ive Strategies to Reduce Teen and Young Adult Risk Taking Behavior	
 Support positive behaviors of non-risk-taking individuals. Declines in risk-taking mean that the share of students taking no risks has increased. These youth need support and expanded opportunities to continue making responsible and healthy decisions as they mature. 	
Target efforts to reduce specific risk behaviors toward multiple-risk students. Recent public health and policy efforts to reduce the prevalence of key risk behaviors, such as smoking or violence, cannot	
and pointy entors to reduce the prevaence on key his dendands, such as sinking of violence, cannot address these behaviors in isolation from other risk-taking. • Encourage positive behaviors of risk-taking youth, such as time spent on extracurricular or faith-	
based activities. These behaviors connect students to adults and social institutions and offer opportunities to prevent risk-taking among some students or reduce risk-taking among others.	
 Expand efforts to reach multiple-risk youth in nontraditional settings. Teen participation in settings such as the workplace, the criminal justice system, and faith-based institutions offers innovative 	
opportunities for health services and education programs and the development of personal relationships with positive adult role models that can reduce risk-taking.	
 Take new steps to reduce risk-taking among Hispanic students. Further research is needed to better understand both risk-taking and development of this growing group of youth. Programs that are 	

School Wide	2	Focus on the whole student Educators work to build students' strengths and proactively address nonacademic reasons why students fall behind in school as well as what they need to thrive. Every discussion with or about the student includes a 300-degreee perspective.
Programs	2	Provide professional development for staff Training for teachers, counselors, and administrators starts before implementation and continues throughout the school year. Professional development focuses on enhancing achievement through student-leacher relationships.
	2	Use I-Time Classroom Curriculum to foster learning I-Time is an interactive weekly lesson taught by core teachers where students work together to strengthen their social and emotional skills, including communication and goal settling. They also work on discussing sensitive issues such as grief, substance use, and bullying.
How BARR Works Eight Interconnected strategies help actors accomplant help goals by resting interioral connections between staff and induces to	2	Create cohorts of students Croups of students lake core courses (typically math, English, and science or social studies) together as a cohort. Each cohort is assigned to a team of teachers to cultivate connections and enhance learning relationships.
address barriers to success.	2	Hold regular teacher team meetings Teachers in a cohort meet weekly for a 360-degree discussion about each student in the cohort. Teacher teams identify student strengths and any interventions a student might need.
	2	Conduct Risk Review meetings A Risk Review team meets regularly to discuss strategies for students who need more support than the cohort teacher teams can provide. This team identifies and coordinates additional internal or external resources that can best help students terrive.
	2	Engage families in student learning With BARR, families become active partners in helping students be their best. Teachers call and meet with parents and other family members regularly, and parents are invited to join an advisory council.
	2	Engage administration Administrators receive training, ongoing coaching, and tools to help them best integrate BARR into their school culture and reach their school-specific goals.



Five Strategies To Foster a Resilient Mindset

- Teach empathy by practicing empathy.
- Teach responsibility by encouraging contributions.
- Teach decision making and problem solving skills that foster self-discipline.
- Offer encouragement and positive feedback.
- Help children deal with mistakes.

Teach Empathy By Practicing Empathy

- Are we saying or acting in a way that our children will be responsive to hearing us?
- Would we want anyone to speak to us the way we speak to our children?
- How would our children describe us at various times?
- How would we want our children to describe us?

Teach Empathy By Practicing Empathy

- Listen
- Validate
- Avoid preaching and lecturing
- Avoid judgments and accusations
- Put yourself in their shoes
- Change your negative scripts

Teach Responsibility By Encouraging Contributions

- Provide ample opportunity
- Focus on existing success
- Build islands of competence
- Allow the opportunity to witness concrete examples of success

Eric's Experiment Part I	

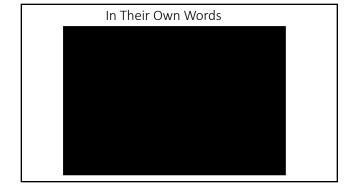
Eric's Experiment Part II



Teach Decision Making and Problem Solving Skills That Reinforce Self-Discipline

- What's my problem?
- What solutions are available?
- Which solution is the best?
- How can I implement each step of the solution?
- How did I do?

Offer Encouragement and Positive Feedback	
Become a charismatic adult	
Provide realistic appreciationFocus on building rather than tearing down	
Be available	
	1 -
Help Children Deal With Mistakes	
 The fear of mistakes is a strong roadblock to 	
developing a resilient mindset • Mistakes are opportunities to learn	
Model the benefits of mistakes	
	1
The Mindset of a Resilient Child	
Optimistic and hopeful.	
 Feel special and appreciated in the eyes of others. Set realistic goals and expectations. 	-
 View mistakes, hardships and obstacles as challenges. Solve problems and make decisions. 	
Internal locus of control.Believe you can and set out to solve problems.	
Possess empathy.	
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Conclusions

- Liabilities define where you may be but assets tell me where you might go in life.
- An early history of developing competence, along with supportive, consistent care, serves as a powerful and enduring buffer throughout childhood and increases probability of resilience.
- We have come to appreciate that biology is not destiny but does impact probability.
- The brain and the mind have a complicated relationship.

Conclusions

- Children exhibit two kinds of behavioral and emotional challenges.
- A diagnosis is a good first step but not a good place to end.
- Ability, knowledge and skill are not the same.
- There are more similarities than differences in many diagnoses.
- Children today are more vulnerable than ever before.
- There is much we can do to stress inoculate children to live a resilient life.









