Current Trends in ADHD מגמות עכשוויות בהפרעות קשב וריכוז

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Disclosure

- My expenses for this talk are in part supported by Neurotech.
- 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)

Current Trends in ADHD Research

- Novel medications
- Non-medical treatments (e.g. eTENS, fMRI biofeedback, EEG biofeedback, web based cognitive training)
- Transition through adult life
- Impairment/quality of life
- Resilience/protective factors
- Incidence/prevalence/trends in diagnosis and treatment

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- ADHD is a bio-psychosocial condition characterized by core symptoms of inattention, hyperactivity and impulsivity leading to/interacting with cognitive deficits causing impairment in all walks of life. ADHD appears to primarily involve the basal ganglia, cerebellum and the frontal lobes.
- Co-morbidity of other developmental, emotional and behavioral conditions 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 (Barkley, 2015).

Current diagnostic criteria specify that ADHD involves difficulties with inattention and/or hyperactivity/impulsivity.

Researchers using factor analysis have consistently found support for an inattention factor in both children and adults.

Findings have been mixed regarding whether hyperactivity and impulsivity reflect one or two dimensions.

The prediction of outcomes provided support that complemented confirmatory factor analysis for the separation of the hyperactivity and impulsivity constructs.

Impulsivity uniquely predicted more outcomes than hyperactivity alone. Results were consistent with the conceptualization of ADHD as primarily a disorder of behavioral inhibition.

Future research using alternative outcomes and clinical populations should be conducted. (JAD, 2012)

Examining the Dimensionality of ADHD Symptomatology in Young Adults Using Factor Analysis and Outcome Prediction

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ADHD appears to be a condition stemming in part from inefficient operation of the brain relative to task and environmental demands leading to poor execution of behavior.	
Neither the level of impairment nor the life outcome for those individuals with ADHD is very well predicted by the diagnosis, symptoms or treatments for the condition.	
ADHD acts as a catalyst fueling other	
ADHD acts as a catalyst fueling other developmental and environmental risk factors.	

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Symptom relief is necessary but far from sufficient to assure good adult outcome for ADHD.	
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The symptoms of ADHD lead to a nearly infinite number of consequences.	
ADHD is a condition resulting from poor self-discipline. It reflects exaggeration of normal behavior.	

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Sei	lf-discipline			
	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			
	 The ability to consider alternative responses 	-		
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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

Self-discipline

Children with poor self-discipline aren't clue.-less

They are unfortunately often cue-less!

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Poor Self-discipline is	
synonymous with	
Poor Self-control	
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Poor self-discipline leads to	
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Impulsive behavior	
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Conditions under which inattention is observed	
observed	
• Repetitive	
Effortful Uninteresting	
Not chosen	

Conditions under which problems with consequences are observed

- Delayed
- Infrequent
- Unpredictable
- Lacking saliency

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Comorbidity Issues in ADHD

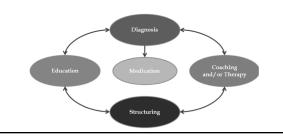
- Two types of Oppositional Defiant Disorder
- Conduct Disorder
- Emerging personality disorders
- Dysthymia/Depression
- Anxiety Disorders
- Manic Depressive Disorder
- Learning/Social/Language Disorders

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Low Incidence Disorders With Increased Risk of ADHD	
• Tourette's Syndrome	
AutismFragile X Syndrome	-
 Williams Syndrome Neurofibromatosis Type I 	-
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Comorbid Disorders With ADHD in Clinic Settings	
Major Depressive Episode +25%	
Mania 3-17%?Anxiety Disorder 20-30%	
Learning Disability 20-30%School Problems 100%?	
Social Problems 100%?	
Comorbid Disorders With ADHD in Clinic	
Settings	
Oppositional Defiant Disorder 50-70%	
Conduct Disorder 30-40%Juvenile Court Involvement 25-50%	
Substance Abuse 20-30%	

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What is the Implication of These Data For the Treatment For ADHD?



Psychosocial Interventions for ADHD

- Environmental manipulation of the physical plant
- $\bullet \ {\bf Environmental} \ {\bf manipulation} \ {\bf of} \ {\bf consequences}$
- Modification of cognitive function



Behavioural therapy Parent and behavioural interestions Teacher ded behavioural interestions Teacher ded behavioural interestions Cognitive behavioural therapy direct to patients Educating patients, therapies Psychoeducation Educating patients, therapies For ADHD Lifestyle & diet Educating patients, therapies and teachers about ADHD Direct from clinical at consultation Group education sessions	
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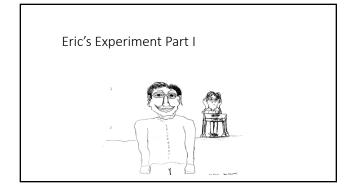
Key Goals of Treatment for ADHD

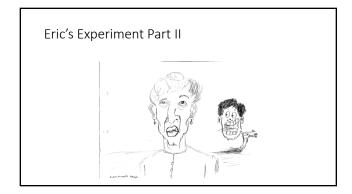
- Instill hope and empowerment
- Educate
- Reframe
- Build self-esteem and self-acceptance

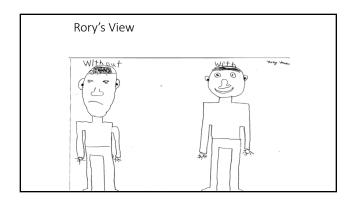
Key Goals of Intervention

- Form a partnership
- Reduce discouragement through setting realistic goals
- Address and rewrite negative scripts
- Focus on strengths
- Build resilience

Medical Interventions for ADHD	
Cognitive enhancing medications.Mood regulating medications.	
•Sedating medications.	
They are/can be effective symptom	
relievers but more will not change long term outcome.	
Pills will not substitute for	
skills	
But they will relieve symptoms	
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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.	
Involve support system	
Offer guidance and advice.	
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Five keys to successful management of ADHD	
Make tasks interesting	
Make payoffs valuable	
Adjust expectations for changeAllow more trials to mastery	
Allow more time for change	
Treatment Plan For Children With ADHD	
Adult Education Thorough assessment	_
Thorough assessment Medication	

Behavior management
Educational support
Long term perspective
Build success in small steps
Focus on resilience

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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. 	
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The Mindset of a Resilient Youth With ADHD 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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Psychosocial Interventions for ADHD	
•Environmental manipulation of	
the physical plant •Environmental manipulation of	
consequences	
 Modification of cognitive 	

function

Intervening Factors in Symptom
Severity and Treatment Success

- Parent's stress
- Parent's mindset
- Parent's involvement with child
- Child's involvement with siblings
- General disobedience
- Social problems

Intervening Factors in Symptom Severity and Treatment Success

- Child's poor problem solving skills
- Child anger
- Academic problems
- Low self-esteem
- Emotional problems
- Disruptive behavioral problems

Will counseling reduce the symptoms of ADHD?

NO BUT IT CAN ADDRESS THE CONSEQUENCES OF LIVING WITH A DISABLING CONDITION.

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Course	III IS	issucs

- Self-esteem: Finding an island of competence
- Developing a balanced locus of control
- Actively participating in treatment
- Addressing mindset about taking medication
- Learning problem solving and self-control strategies
- Dealing with comorbid emotional issues
- Developing anger management skills

Keys for the Education of Children With ADHD

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

Cognitive Strategy = EF Instruction

- A strategy is a procedure that the learner uses to perform academic tasks
- \bullet 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.



