Pulled by the Now: **Understanding ADHD in Children**

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Objectives

Discuss how to recognize ADHD symptoms and the varying presentations impacting executive functioning skills.

Describe how to navigate the evaluation process in the clinic/medical setting

Summarize processes for how to advocate for a child with ADHD in the schools and what resources are available for support.

Apply strategies to engage children with ADHD to set their environment up for success



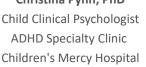


Introductions



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Some materials derived from Kansas City Children's Mercy Hospital, ADHD **Specialty Clinic parent group curriculum**

Created by:



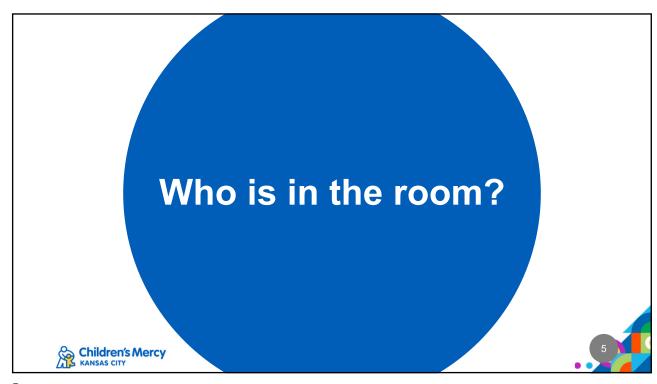




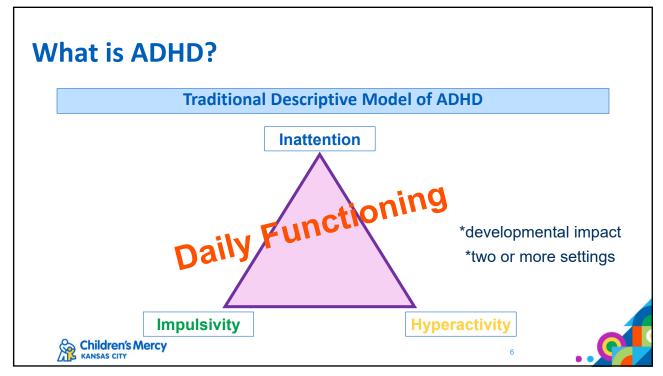








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What can this look like?

National data: 13.7% of males and 7.1% of females currently have an ADHD diagnosis

ADHD: A neurodevelopmental disorder defined by:

Inattention	Impulsivity	Hyperactivity
Trouble keeping attention on ta that are not interesting Making careless mistakes Distractibility Forgetfulness Lose or misplace things a log	sksDifficulty with patience and waiting Interrupting others Excessive talking, making noise Repeated failure to follow rules Urgency Lack of perseverance	Excessive movement Fidgeting: squirming when seated Unable to play or take part in leisure activity "Always on the go"



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So what <u>actually</u> causes someone to have ADHD?



Possible Environmental Factors Prematurity

Exposure to high levels of lead

Febrile seizures

Brain injuries



Genetics

Smaller, less active regions in the frontal lobe

Differences in dopamine/norepinephrine



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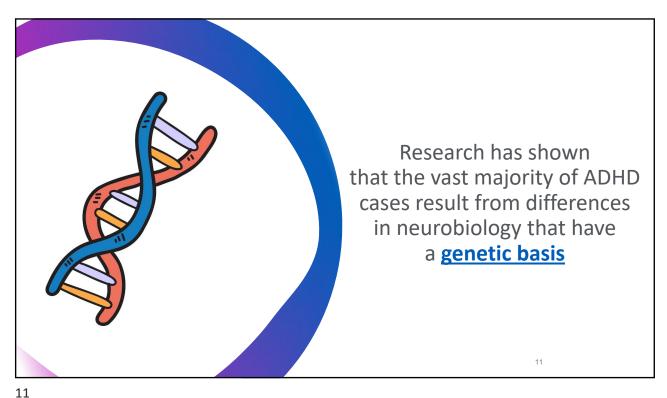
Causes of ADHD

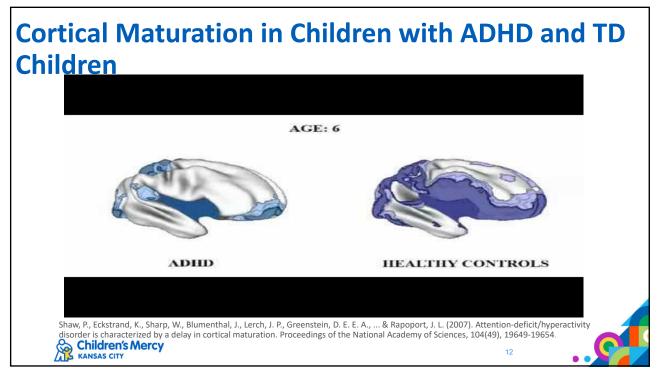
What we know does NOT cause ADHD:

- 1. Poor diet
- 2. Overdemanding teacher
- 3. Red food dye
- 4. Too much screen time
- 5. Overdemanding teachers









Some perspective...

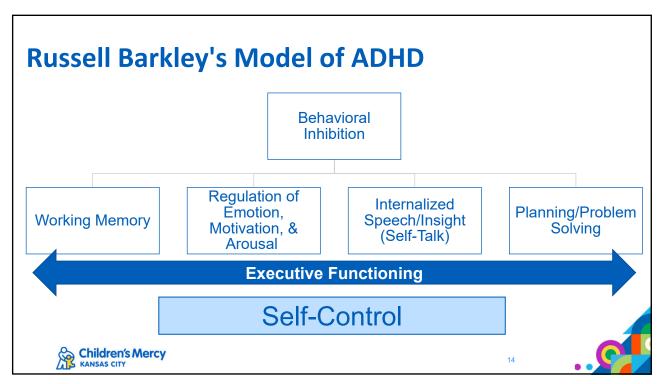
- ADHD is best viewed as a <u>lifelong disorder</u> that results from differences in the brain largely cause by one's genetics
 - But I thought some kids can outgrow their symptoms?"
 - The brain chemistry does not change, BUT individuals can learn to manage their symptoms to function and THRIVE in their life
- Research over the past 40+ years has shown that intervention can:
 - Decrease negative effects of ADHD
 - Improve a child's day-to-day functioning

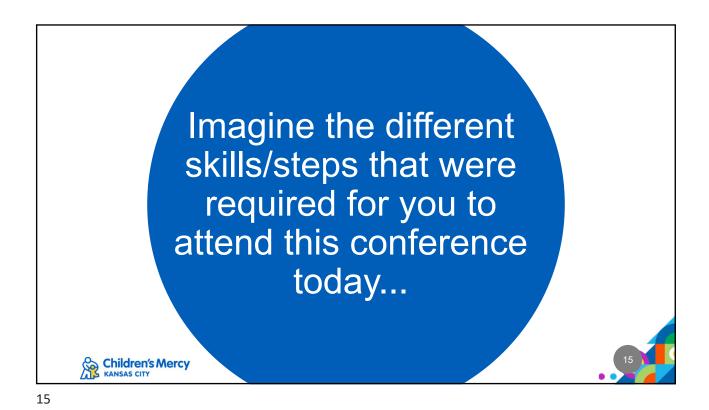


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Elements of Executive Functioning

| PLANNING | ORGANIZATION | TIME | WORKING | METACOGNITION | METACOGNITION

Elements of Executive Functioning pt 2













RESPONSE INHIBITION

EMOTIONAL CONTROL

SUSTAINED ATTENTION

TASK INITIATION

FLEXIBILITY

GOAL-DIRECTED PERSISTENCE

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Behavioral Inhibition

• The ability to automatically delay one's initial reaction or response to something going on in your environment, whether *external* or *internal*.

External



Internal





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Why is Inhibition Important?

- 1. It allows a child the time needed to "stop and think" about what they do before they do it.
- 2. It allows a child to stop doing a behavior that isn't working and try something else
- 3. It allows them to use other ways of thinking that are necessary for self-control

When children can't inhibit themselves, they will often react to the most stimulating thing going on in their environment. They often respond with whatever comes to mind. This is generally not a good thing!



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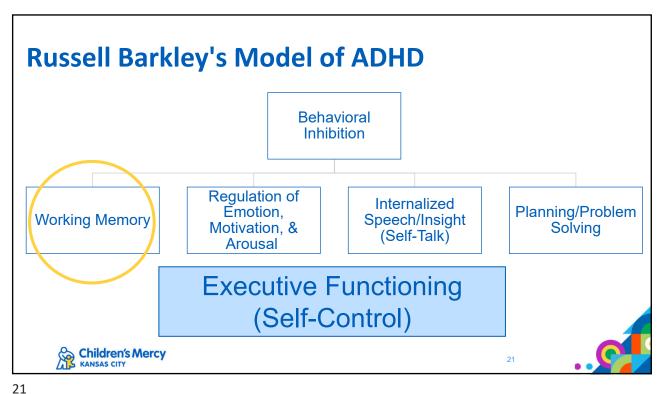
Negative Feedback Loop

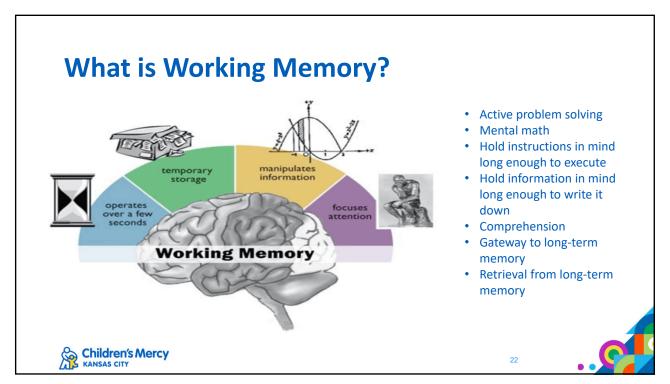
- Kids with ADHD are prone to experiencing negative social or natural consequences so frequently
- Begin feeling nervous in situations where they might make a mistake or evoke a negative social reaction.
- By age 12, children who have ADHD receive 20,000 more negative messages from parents, teachers, and other adults than their friends and siblings who do not have ADHD.











What you may see...

- Struggles recalling what was previously learned
 - Example: forgetting spelling words during the test (although knew them when practiced at home)
- Difficulty following multi-step directions
 - o Example: "go upstairs and wash your face and brush your teeth"
- Limited *Prospective memory* or "remembering to remember" something when it needs to be remembered at some point in the future
 - Example: remembering to turn in your completed homework the next day at school



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Impaired working memory → Impaired sense of time



- Understanding time is harder for children with ADHD than it is for others
 - boring/difficult tasks take forever
 - o interesting tasks take no time at all
- "Time-blindness" seem to have little awareness of time or the passage of time
 - Example: "5 more minutes" watching TV turns into watching several more episodes



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What you may see...

- The "now" exerting more control over behavior than does prior experience or future consequences
 - Being inconsistent in using past experience to guide current behavior → seem to not learn from experience (*limited hindsight*)
 - Immediate consequences have more appeal than delayed ones
 → less motivated by future consequences (*limited foresight*)



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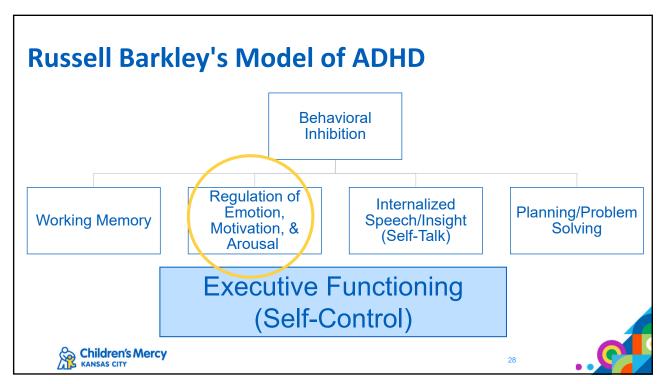
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What you may see...

- Not doing the right thing at the right time
- Poor planning ability (e.g., poor ability to estimate how long a task will take)
- Difficulties doing a task now in order to meet a future goal (i.e., procrastination)
- Often "caught off-guard" when it's time to transition from one task to another
- Delays in the development of social skills maintained more by future rather than immediate consequences (e.g., sharing and trading)







Emotional dysregulation: what you may see...

- Stronger emotional reactions than expected for a child their age, often accompanied by:
 - Harder/takes longer to calm down

Continue to make the same poor choices leading to emotional dysregulation







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Emotional dysregulation: what you may see...

- More frequent and/or intense:
 - Tantrums due to frustration
 - Impulsive oppositional behaviors especially during transitions
 - Reactive aggressive behaviors







PCP0

Motivation dysregulation: what you may see...

- Greater need for <u>external sources</u> of motivation in the immediate environment
 - Ex: shouting out during class discussions to make other kids laugh
- A clear preference for tasks and activities that are very stimulating / high interest
 - Ex: television, video games, screens
- Increased difficulty in starting or sticking to "boring" tasks
 - Ex: Starting and completing a homework assignment

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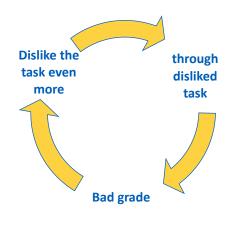


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Motivation dysregulation in a nutshell: Starting & finishing enjoyable tasks: Starting & finishing difficult/uninteresting tasks:

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Real life application



- a tendency to have lots of partially completed projects/tasks
- being seen by others as "irresponsible" and in need of nagging



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PROCRASTINATION STATION

- Happens when faced with tasks that are perceived as "boring" and/or "too hard"
 - o the pressure of the last minute can be either:

Activating →
resulting in intense
motivation and focus



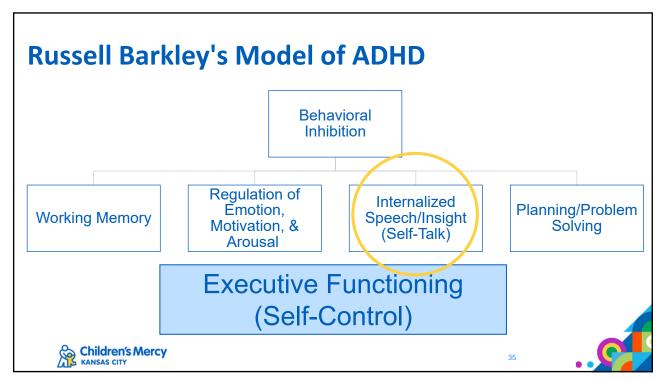


Overwhelming →
resulting in a "shut
down" or a "melt down"









What is Internalized Speech?

Thinking to ourselves!

- Conscious thoughts we use to "talk" or guide ourselves through tasks or activities
- Necessary to:
 - match our behavior to rules we have learned for what is appropriate/expected in a situation, and
 - o reflect on one's own behavior after-the-fact.



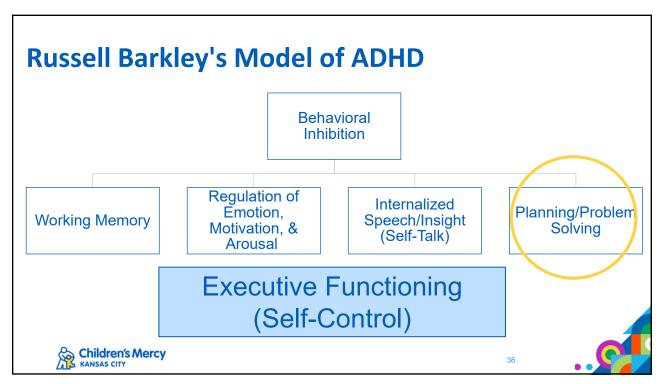
What you may see...

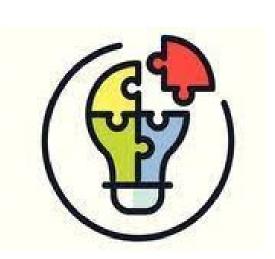
- More blurting out what they're thinking at the moment
- Less thinking through what they are doing
- <u>Less</u> understanding of what they see, hear, and/or read
- Less follow through with rules and routines
 - Need more prompting and guidance to do routine, everyday tasks
- Less awareness of social/group rules to help regulate behavior

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What is planning/problem solving?

- The ability to:
 - Use what we have learned in the past to deal with new experiences in the present
 - Break previously learned behaviors into smaller parts and put them back together in a new way to meet the demands of the moment in front of them

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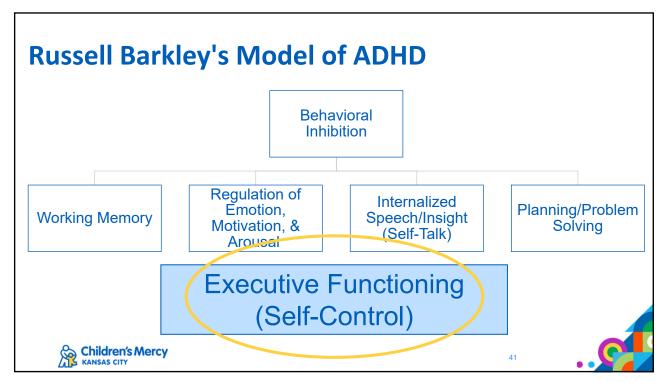
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What you may see...

- Difficulties using previously learned skills to address new challenges
 - One size fits all perspective
 - If it doesn't fit → cue frustration
- Difficulties coming up with more than one way to achieve a particular goal
 - Rigid thinking
 - If rigidity is broken → cue frustration

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What is self-control?

- The ability to exert age-appropriate control over one's own behavior based on:
 - ✓ What is going on in the moment
 - X One's past experiences
 - X One's expectations for the future

"Self-control refers to changing one's behavior in the moment in order to achieve some future goal."

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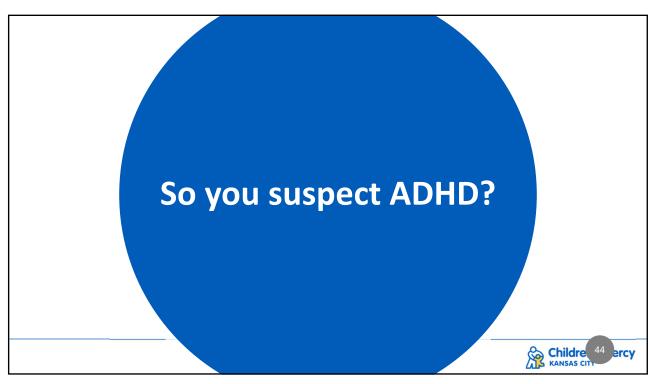


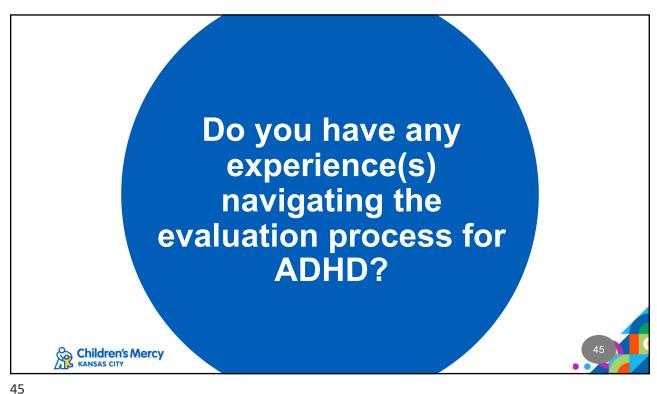
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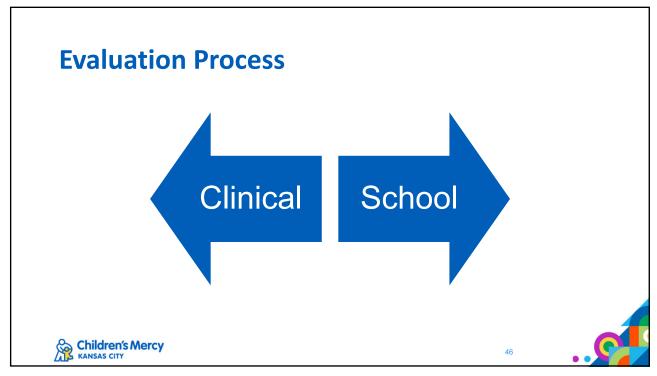
- Continuing to do the same thing despite repeated negative consequences
- Less likely to go back to a previous behavior following a disruption
- Failing to use past experiences/what they know to guide their behavior in the moment

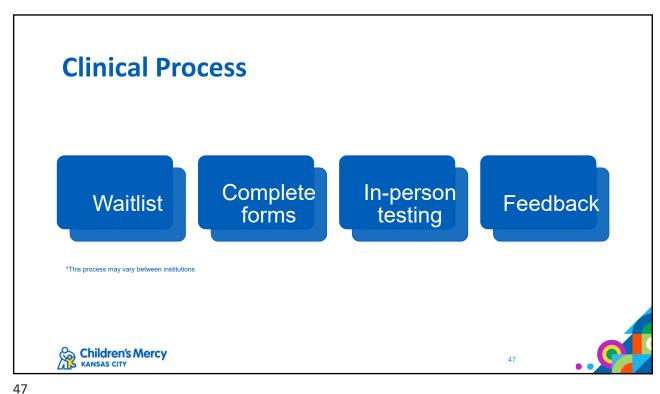


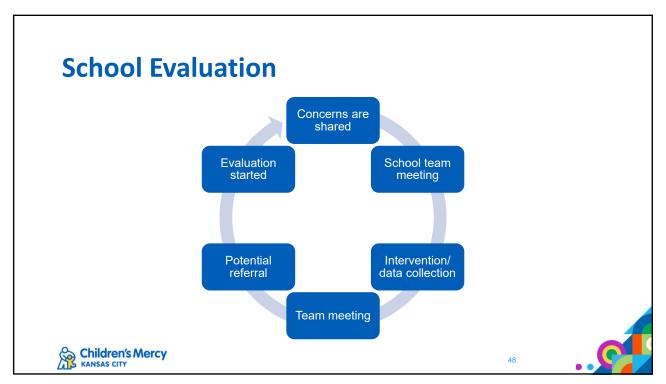
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School Evaluation

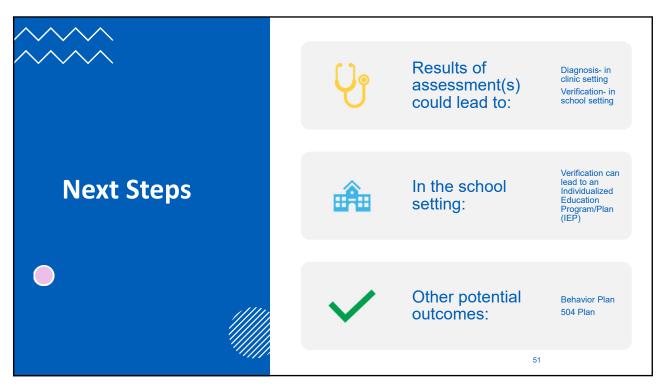
- These can vary between districts and schools
- Initiated by a referral to school psychologist
- Generally, evaluations can include:
 - Ratings from teacher(s) and parents
 - Observations in school/classsocial/emotional/behavioral
 - Cognitive/academic testing

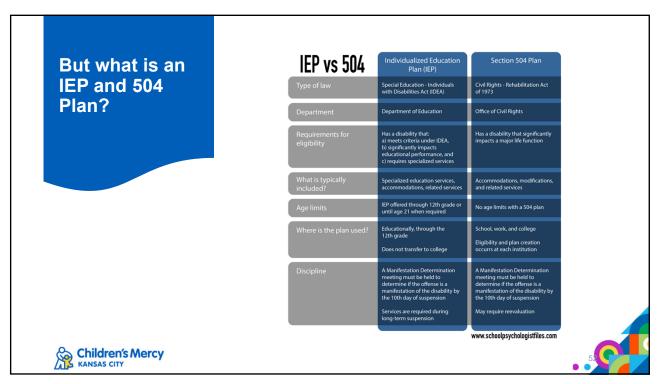


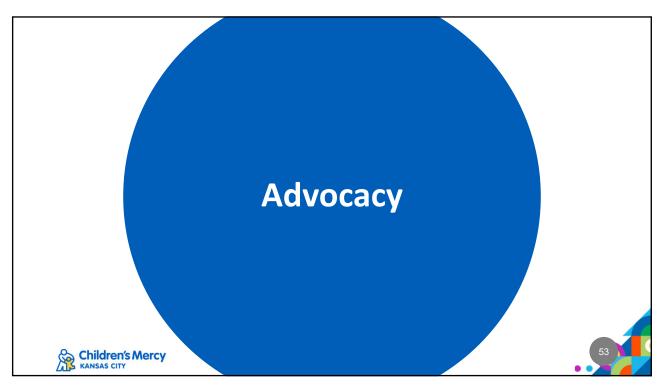


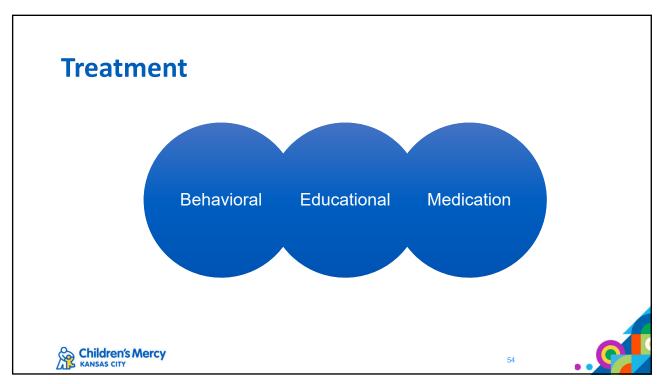
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Behavioral

Behavioral treatment:

- Allows for MANAGEMENT of symptoms of ADHD
- Treatment does NOT cure ADHD
- Finding effective strategies is a process and can vary person to person

In a clinical setting behavioral treatment:

- Can include individual sessions with the child
- Individual sessions with parents/caregivers
- Group sessions



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Educational



Clinical evaluations typically have recommendations for the school setting



Evaluations in the school typically allow multiple school staff to provide input on strategies



Typically, the school psychologists, behavior interventionist, or similar professional will provide recommendations



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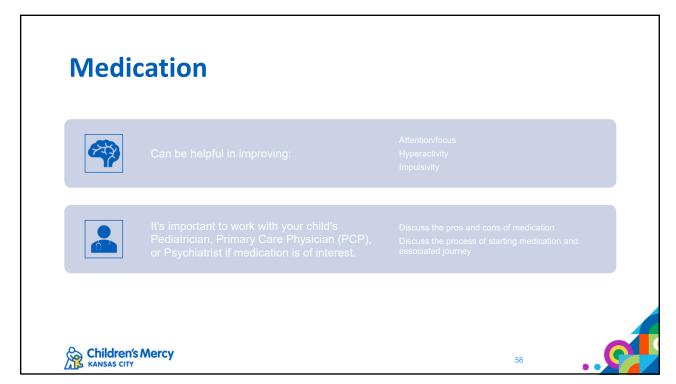
Strategies

- Rules and Expectations
 - Fill the environment with prompts and reminders
 - Post classroom/household rules, verbal reminder of expectations, visual cues

Mental problem solving

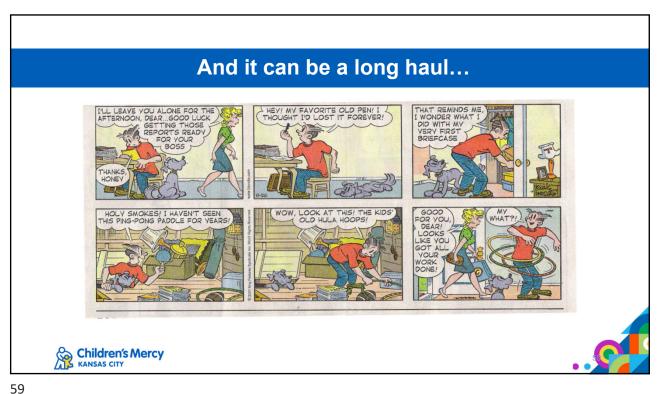
- Make solving problems manual work, not just mental
 - Manipulatives for mental math, calculator, index cards to outline essays
- Time
 - · Make it visible
 - Cues to passage of time alarms, timers, auditory cues via parent/Google home/Alexa
- Motivation
 - Use external, artificial sources of motivation in the immediate environment
 - Rewards, tangible items, activities, money



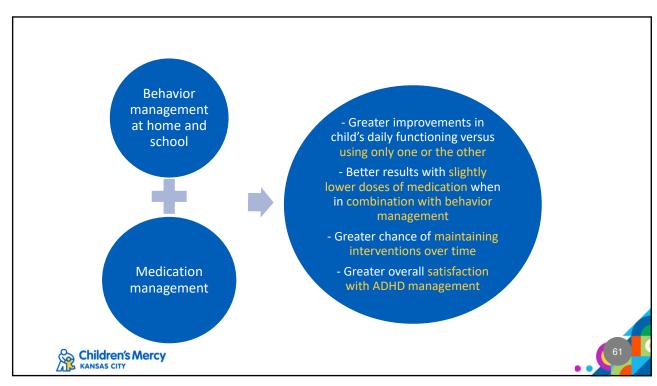












Resources

- Parent Training Information Center
- Provides training, information, and supports to families with children birth-26 who have disabilities/special healthcare needs;
 - https://www.parentcenterhub.org/find-your-center/
- Information on supports, accommodations, and modifications (parent)
 - https://www.parentcenterhub.org/accommodations/#staff
- 10 Basics of Special Education Process
- Parent friendly handout outlining steps
 - https://www.parentcenterhub.org/wp-content/uploads/repo_items/10steps.pdf



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