# What the EF? Understanding Executive Functioning

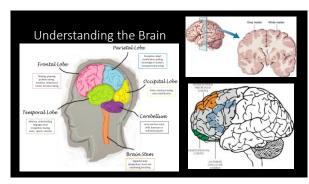
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## Learning Objectives

- Be able to define executive functions
- Understand the signs, symptoms, and implications of executive functioning deficits
- Identify some general interventions to increase executive functioning skills





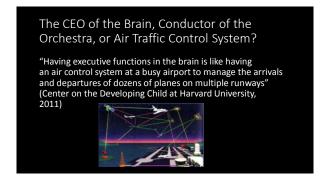
# **Executive What?**

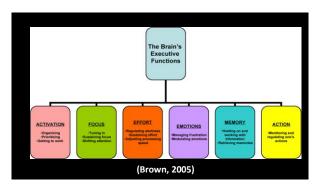
- Part of the neural circuit that runs through the frontal lobe
- Many theories, lacks a formal definition
- Complex, multi-dimensional construct
  - Lack of clarity
  - Contradicting evidence
  - Controversy

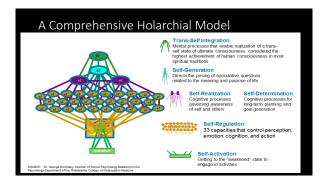


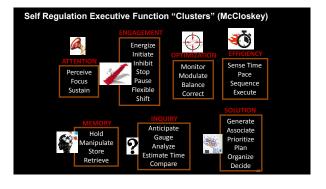
## Some Basic Definitions

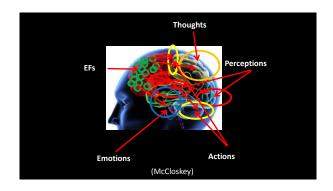
- A collection of processes that are responsible for guiding, directing, and managing cognitive, emotional, and behavioral functions (Giora et al., 1996)
- functions (Giora et al., 1996)
  Multiple, directive, cognitive capacities of the mind that act in a coordinated way and are responsible for a person's ability to engage in purposeful, organized, strategic, self-regulated, goal directed processing of perceptions, thoughts, actions, and emotions (McCloskey, 2009)
  The efficiency by which individuals go about acquiring knowledge as well as how well problems can be solved across nine areas (attention, emotional regulation, flexibility, inhibitory control, initiation, organization, planning, self-monitoring, and working memory)" (Goldstein & Naglieri, 2013)



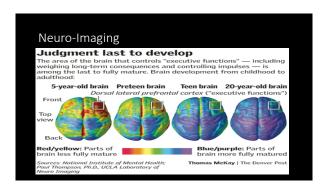


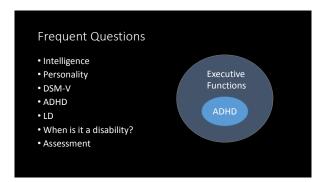






# Development Continues throughout lifetime Variation between chronological age and others Largest shift noticeable around adolescence Developmental in nature, so delays and lags can be observed Do not develop evenly Factors that can shape or impact A note on cultural expectations









# **Executive Functioning Handout**

## References

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Center on the Developing Child at Harvard University (2011). Building the Brain's "Air Traffic Control" System: How Early Experiences Shape the Development of Executive Function: Working Paper No. 11. Retrieved from www.developingchild.harvard.edu.

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McCloskey, G., Perkins, L.A., & Divner, B.V. (2009). Assessment and intervention for executive function difficulties. New York, NY: Routledge.

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Newburg, A. & Waldman (2009). How god changes your brain. New York, NY: Ballantine Books.

## Resources

BrainCog (www.braincogs.com)

CogMed (www.cogmed.com)

Cognitive Strategy Instruction (www.cehs.unl.edu/csi)

Executive Functions Training (www.linguisystems.com)

How Does Your Engine Run? (www.alertprogram.com)

I Can Problem Solve (www.icanproblemsolve.info)

Luminosity (www.lumosity.com)

The Research Institute for Learning and Development (www.researchild.org)

Tools of the Mind (www.toolsofthemind.org)

Superflex: A Superhero Social Thinking Curriculum (www.socialthinking.com)