Executive Function – Using Brain Research to Improve Job Search Outcomes

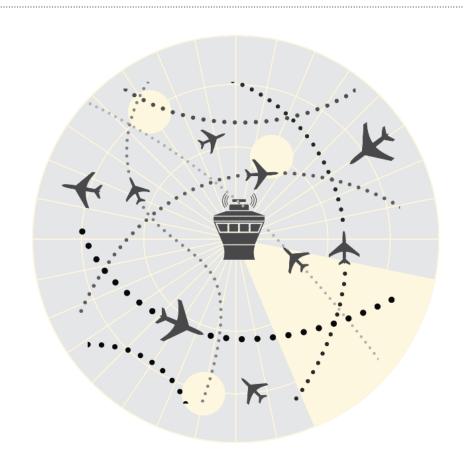
Applying research based concepts in our program and practice

June 2014



What is Executive Function? Air Traffic Controller of the Brain

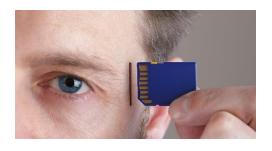
- The frontal lobe of the brain organizes other brain functions. It acts as the "executive" to the overall brain functioning.
- Executive function impacts
 people's ability to succeed in the
 workforce, in educational
 attainment and in personal
 relationships.







 Attention Shifting/Flexibility - "capacity to nimbly switch gears and adjust to changed demands, priorities or perspectives."



• Working Memory – "capacity to hold and manipulate information in our heads over short periods of time"



 Inhibitory Control – the ability to "filter our thoughts and impulses so we can resist temptations, distractions and habits and to pause and think before we act"



*National Scientific Council on the Developing Child, National Forum on Early Childhood Policy and Programs – Building the Brain's "Air Traffic Control" System: How Early Experiences Shape the Development of Executive Function"

Executive Function Skills and Capacities

 "Executive functions underlie complex behaviors such as making decisions to attain pre-determined goals, applying past learning to novel contexts, regulating behavior, solving novel problems, interacting in social environments, and orienting to the future". (Carlock, 2011)

- Goal Directed Behaviors
- Organizational Abilities
- Time Management Activities
- Strategic, Purposeful, Analytic and Critical **Thinking**
- Problem Solving
- **Decision** Making

(http://understandingexecutivefunctioning. blogspot.com/p/what-are-executive-functions.html)





Attention Shifting

Many thanks to Stephen Chen, a researcher from University of California, San Francisco and now Wellesley College for permission to use these next few slides.







Attention Shifting

Working Memory









Attention Shifting

Working Memory

Inhibitory Control







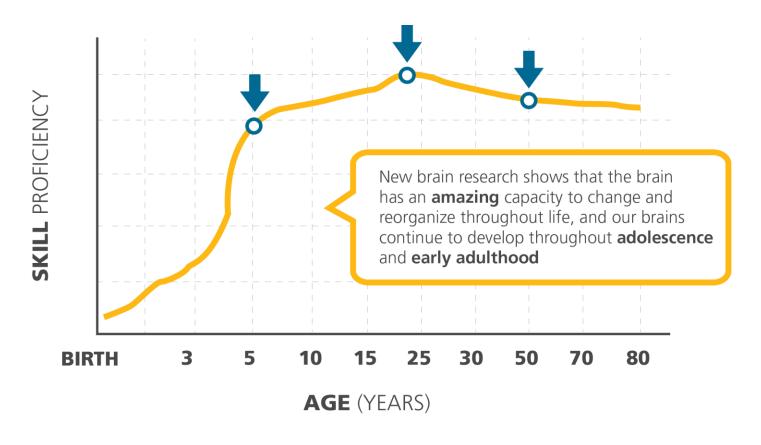
Adapted from Stephen Chen, University of California, San Francisco and Wellesley College





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Brain Development: Executive Function



Weintraub, et al., (2011)
Center on the Developing Child-Harvard University

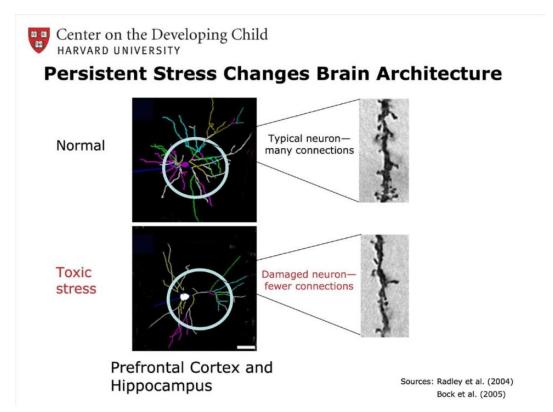


It's Not Too Late





Why Might EF be Impacted? The Science of Toxic Stress and Trauma



Healthy brain development can be derailed by excessive or prolonged activation of stress response systems in the brain. This can impact:

- Behavior: How individuals understand and respond to the environment
- Development of successful relationships



What does impacted EF look like in our programs?



DISRESPECTFUL DON'T CARE DISTRACTED APATHETIC



UNFOCUSED FORGETFUL DISINTERESTED

SHORT-FUSED WILLFUL NON-COMPLIANCE FAILURE TO PARTICIPATE

INCOMPLETE PAPERWORK





Applying the Science to Policy and Practice

REDUCE COGNITIVE LOAD

- Streamline processes
- Share data/reduce application processes
- "Nudge" concepts





INCREASE PARTICIPANT SKILLS AND CAPACITY

- Coaching
- Fostering Peer Networks and Support
- Aerobic Exercise







San Diego By the Numbers

4,300 families monthly

20,000+

unique people served since 2010

1/3
of caseload is
Refugee

6,000 individuals monthly

60,000

16

Languages spoken by clients

70%

of adults have been employed at one point

Successful pilot or special programs

child care payments processed

132

Employees



Live Well! - Linking Health and Wellness with Job Search



WTW Employment Services



Group Exercise and Health Awareness



Peer accountability & networking





Community Partnerships









Coaching + Peer Support + Exercise

CLIENTS ENROLLED IN 12 WEEK PROGRAM



Employment Related Coaching

Job search techniques, resumes and cover letter development, interview skills, job retention, etc.



Healthy Living Workshops

Healthy eating, self-esteem, sleep, emotional health, family communication, depression, weight control, etc.



Exercise

2 hours a week of guided fitness activities

Cohort meets 3 days a week for a total of 9 hours a week



LWSD Pilot – Participation

Percentage Meeting Participation

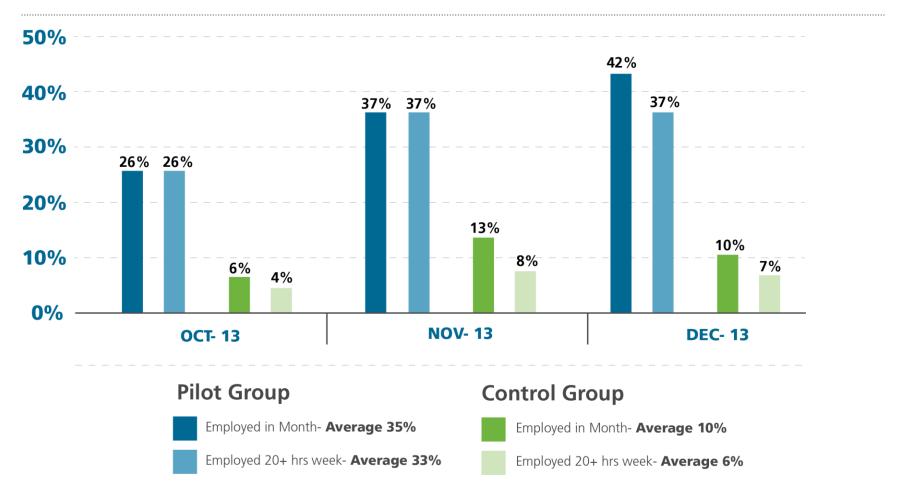


LWSD Pilot – Participation Hours

Average Monthly Participation Hours



Employment



The percentage of employed in the pilot group continues on trend in January and February.

Initial Health Results: 10/13 - 12/14



Systolic BP (-4.08 mmHg)



Diastolic BP (-2.54 mmHg)



Waist Size (-2.73 cm)

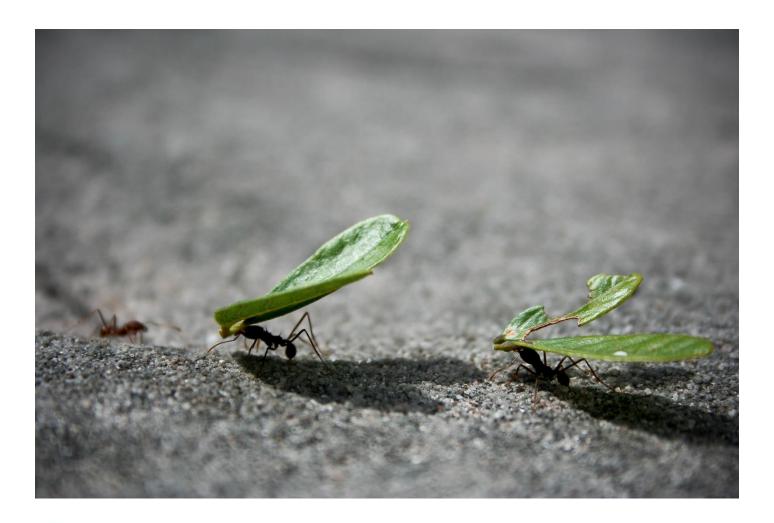


Weight (-7.16 lbs)



ын (-1.46 kg/m2) Our preliminary results of 13 out of the 19 participants to be evaluated suggest that the participants have experienced improvements in their health. Four months after baseline evaluations, on average participants have had decreases in both systolic (-4.08 mmHg) and diastolic blood pressure (-2.54 mmHg), reduction in their waist circumference (-2.73 cm), and decreases in weight (-7.16 lbs) and BMI (-1.46 kg/m2). While results are not significant given the small sample size they are in the expected direction (FSA 2014).

Small Changes Matter, Too...





Examining Participant Flow – Where Could EF Informed Practices Fit?











Coaching **is**:



Active Listening



Powerful Questions



Individualized and Self Directed

Coaching **is not**:





Passive and Distracted Listening



Authoritative Statements



Generic, Agency or Caseworker Directed



You find what you are looking for...

Coaching: Clients are naturally creative resourceful and whole. We are here to help them reach their dreams





Most Importantly

You don't have to change your whole program (service delivery model) to see and impact... but...

You do need to support a culture shift towards measurement and coaching.



For more information please contact...

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