



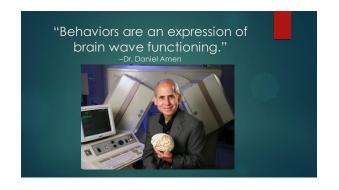


Adverse Childhood Checklid Questions: Prior to your 18th brithday:

1. Did a potent of other adult in the household office or very office... Sever all you, insult you, put you down, or humiliate You, entire 1 in a very in that made you do not not you might be phylicially fault?

2. Did a potent of other adult in the household office or very office... Put, grob, sign, or throw something at you? or bern hit you to have that you had make a very entire... Put, grob, sign, or throw something at you? or bern hit you to have that you had not not or weep entire you and the you had not not on weep entire you and or vaginate intercounts with you?

3. Did an adult or person at least 3 yours older than you ever... South or fandle you or have you touch their body in a sessual way, for Athernation or very often feel that ... No one in your family loved you of thought you were important or special? or Your face the second of the control of the control



Working with Developmental Trauma:
Results of Neurofeedback Training with
Adolescent Females and Counseling
Implications
Is neurofeedback an effective treatment for
adolescents who had experienced
developmental trauma?

Methods Participants ➤ 30 adolescent females living in a residential treatment center from ages 10-19 years old (M=14.7) ➤ African-American (n=1), Asian-American (n=1), Pakistani-American (n=1), Indian-American (n=1), and while (n=24) ➤ Prior to RTC, all participants had experienced adverse childhood experiences or trauma ➤ Dually diagnosed: depressive disorders (n=18), ADHD (n=1.5), anxiety disorders (n=13), appositional defiant disorder or anger issues (n=8), PTSD (n=3), and eating disorders (n=3) ➤ Began neuraleedback training approximately two months after residing at the RTC

Instrument ➤ The Central Nervous System Vital Signs (CNSVS) is a computerized battery of seven neurocognitive tests that measures symptoms, behaviors, and comorbidities (CNS Vital Signs, 2014; Triplett & Asato, 2015) ➤ Moderate to good test-retest reliability, significant reliability coefficients, comparable to other neurocognitive assessments ➤ Measures an individuals neurocognitive index (overall score), cognitive flexibility, complex attention, simple attention, composite memory, verbal memory, verbal memory, evenutive function, motor speed, psychomotor speed, processing speed and reaction time ➤ Participants ev alunted with the CNSVS assessment before they began and post tested after 50 sessions

