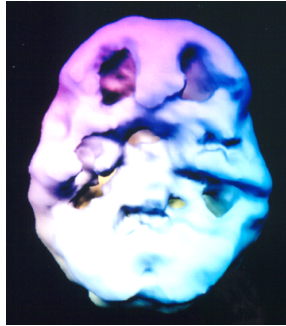


COREPSYCH RADIO #16 JUNE 18, '09
THURSDAYS 4 EST, 3 CST, 2MST, 1PST



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Review Last week: Stress, Sleep, and Your Neurotransmitter Balance

Program 16: Vyvanse for ADHD: The Complete Story

1. History of delivery systems for ADHD
 - a. Mechanical IR – no interest in DOE
 - b. Mechanical XR – increasing interest in DOE [Daytrana]
 - c. Prodrug – focus on efficacy and DOE
2. A prodrug, third generation, advantage
3. Important Drug-Drug Interactions
 - a. Relevance of 2D6
 - i. Drug interactions
 - ii. Size of pipeline genetically determined: Polymorphism
 - b. The Relevance of the Basal Ganglia Seesaw – Dopamine/Serotonin
 - c. Comorbid Conditions to watch
 - i. Depression
 - ii. Bipolar
 - iii. Sleep
 - iv. Picky Eating – also more later on precursors
4. Using the Therapeutic Window
 - a. Top of Window: Toxic
 - i. AMP may not be metabolized due to 2D6 Polymorphism
 - ii. Toxic effects of previous meds with mechanical release
 1. Obvious
 2. Exaggerated affect
 - iii. Toxic effects of Vyvanse possible
 1. Hyperfocus
 2. Agitation
 3. Sleep
 4. Appetite
 5. Emotional Distance

- a. All Stimulants Can Increase Depression
 - iv. Mystery of Toxicity with Vyvanse
 - b. Bottom of Window: Ineffective
 - c. Sides: DOE
- 5. Sides of the Window: Understanding Duration of Effectiveness:
 - a. Correct dosage of medication
 - b. Correct dosage based on metabolism not weight
 - c. Often difficult to see with Vyvanse
 - i. Must make it a priority even though a challenge
 - ii. Patient compliance increases
- 6. Bottom of Window: Why important
 - a. Some use a cookie cutter approach
 - i. Dose by Weight
 - ii. Dose by the Book
 - iii. Use the Package Insert as the only guide
 - iv. 70mg may be insufficient
 - 1. Many adults on > than 100mg Adderall
 - 2. Ultra rapid Metabolizers: Between 1.5 % and 5 % / pop.
- 7. Why even Vyvanse doesn't work
 - a. Metabolic issues independent
 - i. Gluten sensitivity
 - ii. Hormone Imbalance
 - iii. Bowel issues
 - iv. Nutrition
- 8. Measuring Neurotransmitter Precursors
 - a. Excitatory Neurotransmitters Diminished
 - b. Inhibitory Increased
 - c. Amino Acids Supplements can be helpful
 - d. Help with Side effect of AMP in general
 - i. Tic Disorder
 - ii. Sleep
 - iii. Appetite
 - iv. Depression
 - v. Can Help Reduce/Eliminate dose
 - vi. Not interfere with meds/not either or