Stellingen behorende bij het proefschrift

The Distracted Brain

The neurobiology and neuropsychology of attention-deficit/hyperactivity problems in the general population

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- 1. Children with attention-deficit/hyperactivity symptoms show specific problems in executive functioning, rather than a general cognitive deficit (this thesis).
- 2. Decreased cortical thickness and gyrification are a shared neurobiological substrate underlying both inattention/hyperactivity and executive functioning (this thesis).
- 3. Although symptoms partly overlap, there is no shared pattern of brain gyrification underlying attention-deficit/hyperactivity disorder and velocardiofacial syndrome (this thesis).
- 4. Children with more attention and hyperactivity problems have smaller volumes of the putamen (this thesis).
- 5. Candidate genetic pathways for ADHD are not related to symptoms of inattention and hyperactivity in the general population (this thesis).
- 6. In psychiatry, dimensional and categorical approaches should be combined in both research and clinical practice.
- 7. Even if there is evidence for focal abnormalities, there is a role for whole-brain exploratory analyses in neuroimaging research.
- 8. Due to be variability and non-specificity of brain differences in ADHD, it will be extremely challenging to assist clinicians in diagnosing ADHD with the use of one MRI neuroimaging modality.
- 9. To bridge the gap between 'bench' and 'bedside', every researcher should have clinical experience and every clinician should have expertise in research.
- 10. As a proven effective method in developmental and behavioral problems, musical therapy should be considered as intervention for each child with ADHD.
- 11. 'All good things start at a playground' (Human Brain Mapping, June 11th 2014, Tamara Vanderwal, MD).