Propositions

NEUROBIOLOGICAL PATHWAYS TO CHILDHOOD PSYCHOPATHOLOGY

Population-based studies of cognition and behavior

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- 1. Maternal hypothyroxinemia in early gestation is associated with significant increase in the risk of autistic symptoms in the offspring by 6 years of age (This manuscript).
- 2. Elevated titers of Thyroid Peroxidase Antibodies in pregnancy impact children's risk of problem behavior, in particular, attention deficit/hyperactivity. The observed effect is only partially explained by maternal thyroid status (This manuscript).
- 3. Variations in brain structures detectible in infancy predict subtle impairments in child's executive functioning, i.e. inhibition, but not symptoms of ADHD (This manuscript).
- 4. Children with low positive emotionality have a higher risk of having withdrawn problems, which cannot be explained by preexisting internalizing problems (This manuscript).
- 5. Many symptoms associated with autism spectrum disorders resolve during the preschool period (This manuscript).
- 6. Subclinical disorders are psychiatrists' first acknowledgment that psychopathology is inherently continuous.
- 7. We never learn about the cause of a disease unless we know the characteristics of individuals free of the disease.
- 8. Studying genetic and environmental bases of psychopathology is not possible if the complex phenotype of the disorder is not fully understood.
- 9. Our challenge is to uncover the key ingredients in child development and the ways those ingredients are combined and cooked to produce a culinary masterpiece, a kitchen disaster, and everything in between (Rettew DC, *JAACAP* 2010).
- 10. "Brainy" children are not clever solely by having more grey matter. Rather, intelligence is related to dynamic of cortical maturation (Shaw P, *Nature* 2006).
- 11. In order to be irreplaceable, one must always be different (Coco Chanel).