

**1: Publicaties - VUmc**

*Deficits in empathy are reported in autism spectrum disorders (ASD) and also underlie antisocial behavior of individuals with conduct disorder and callous-unemotional traits (CD/CU+).*

Reference List Adriaanse, M. The link between ethnicity, social disadvantage and mental health problems in a school-based multiethnic sample of children in the Netherlands. *Eur Child Adolesc Psychiatry*. Prevalence, impact and cultural context of psychotic experiences among ethnic minority youth. Neurocognitive effects of neurofeedback in adolescents with ADHD: *J Clin Psychiatry*, 75, The relation of standardized mental health screening and categorical assessment in detained male adolescents. Applying computer adaptive testing to optimize online assessment of suicidal behavior: *J Med Internet Res*, 16, e Self-reported Behaviours and Attitudes. *J Autism Dev Disord*. Identifying children at risk of problematic development: *J Abnorm Child Psychol*, 42, Persistence of aggression into adulthood in detained adolescent females. *Compr Psychiatry*, 55, Assessment of the therapeutic alliance of youth and parents with team members in youth residential psychiatry. *Clin Child Psychol Psychiatry*. Persistent heightened cortisol awakening response and adolescent internalizing symptoms: Reduced anterior cingulate gray matter volume in treatment-naive clinically depressed adolescents. *Neuroimage Clin*, 4, Aberrant resting-state functional connectivity in limbic and salience networks in treatment-naive clinically depressed adolescents. *J Child Psychol Psychiatry*. Psychopathic-like traits in detained adolescents: *Eur Child Adolesc Psychiatry*, 23, Amygdala activation during emotional face processing in adolescents with affective disorders: *Front Hum Neurosci*, 8, Neural correlates of social decision-making in severely antisocial adolescents. Altered white-matter architecture in treatment-naive adolescents with clinical depression. Fear conditioning, persistence of disruptive behavior and psychopathic traits: *Transl Psychiatry*, 3, e Psychotic-like symptoms as a risk factor of violent recidivism in detained male adolescents. Mental health problems and recidivism among detained male adolescents from various ethnic origins. *Eur Child Adolesc Psychiatry*, 22, A meta-analytic review on treatment dropout in child and adolescent outpatient mental health care. *Clin Psychol Rev*, 33, Latent personality profiles and the relations with psychopathology and psychopathic traits in detained adolescents. *Child Psychiatry Hum Dev*, 44, Autism and normative sexual development: *J Clin Nurs*, 22, Emotional reactions of peers influence decisions about fairness in adolescence. *Front Hum Neurosci*, 7, Relationships between interpersonal trauma, symptoms of posttraumatic stress disorder, and other mental health problems in girls in compulsory residential care. *J Trauma Stress*, 26, Evidence-based treatments for children with trauma-related psychopathology as a result of childhood maltreatment: Instruments measuring externalizing mental health problems in immigrant ethnic minority youths: *PLoS One*, 8, e Longitudinal associations in adolescence between cortisol and persistent aggressive or rule-breaking behavior. *Biol Psychol*, 93, A longitudinal biosocial study of cortisol and peer influence on the development of adolescent antisocial behavior. Long-term stability of the cortisol awakening response over adolescence. Neuroimaging in children, adolescents and young adults with psychological trauma. Predictors of outcome in outpatients with anxiety disorders: *J Psychiatr Res*, 47, Cross-cultural findings on community violence exposure and internalizing psychopathology: Gender identity development in adolescence. How stable is activation in the amygdala and prefrontal cortex in adolescence? A study of emotional face processing across three measurements. *Dev Cogn Neurosci*, 4, Recidivism after treatment in a forensic youth-psychiatric setting: *J Child Psychol Psychiatry*, 54, *Tijdschr Psychiatr*, 55, *Tijdschr Psychiatr*, 54, Externalizing psychopathology and persistence of offending in childhood first-time arrestees. *Eur Child Adolesc Psychiatry*, 21, Parent-reported attention-deficit hyperactivity disorder and subtypes of conduct disorder as risk factor of recidivism in detained male adolescents. *Eur Psychiatry*, 27, Ethnic differences in utilization of youth mental health care. Concurrent attenuated reactivity of alpha-amylase and cortisol is related to disruptive behavior in male adolescents. Clinical management of gender dysphoria in children and adolescents: Psychiatric symptoms in children with gross motor problems. Autistic symptoms in childhood arrestees: *J Child Psychol Psychiatry*, 53, Preventing mood and anxiety disorders in youth: *BMC Psychiatry*, 12, The Strength and Difficulties Questionnaire: Russian validation of the teacher version and

comparison of teacher and student reports. *J Adolesc*, 35, *J Abnorm Child Psychol*, 40, Psychopathology of adolescent detained versus psychiatric inpatient females. *Psychiatry Res*, , Juvenile group sex offenders: Puberty suppression in a gender-dysphoric adolescent: *Arch Sex Behav*, 40, Treatment of adolescents with gender dysphoria in the Netherlands. Psychiatric disorder in detained male adolescents as risk factor for serious recidivism. *J Psychiatry*, 56, The predictive value of low heart rate and heart rate variability during stress for reoffending in delinquent male adolescents. Comparing adult and adolescent transsexuals: Puberty suppression in adolescents with gender identity disorder: *J Sex Med*, 8, Psychiatric comorbidity in gender dysphoric adolescents. *J Child Psychol Psychiatry*, 52, Forensic child and Adolescent Psychiatry and mental health in Europe. *Child Adolesc Psychiatry Ment Health*, 5, Assessing the psychometric properties and the perceived usefulness of the BasisRaadsOnderzoek BARO as a first-line screening instrument for juvenile offenders. Gross motor performance and physical fitness in children with psychiatric disorders. *Dev Med Child Neurol*. School refusal and anxiety in adolescence: *J Anxiety Disord*, 25,

**2: Biological child psychiatry : recent trends and developments - ECU Libraries Catalog**

1. *J Child Psychol Psychiatry*. Jun;57(6) doi: /jcpp Epub Dec Different brain responses during empathy in autism spectrum disorders versus conduct disorder and callous-unemotional traits.

G ; Stephanie H. This article has been cited by other articles in PMC. Abstract Reported findings on cortisol reactivity to stress in young people with ADHD are very variable. This inconsistency may be explained by high rates of comorbidity with Conduct Disorder CD. Associations between stress reactivity and callous-unemotional traits and internalizing symptoms were also assessed. Callous-unemotional traits and internalizing symptoms were not significantly related to baseline or stress-induced cortisol. Impaired cortisol reactivity is hypothesised to reflect fearlessness and is associated with deficient emotion regulation and inhibition of aggressive and antisocial behaviour. Introduction The Hypothalamic-Pituitary-Adrenal HPA axis plays a critical role in mediating physiological responses to stress, enabling organisms to adapt to environmental changes Marquez et al. The regulation of the HPA axis, with cortisol as its end product, appears to be dysfunctional in several psychiatric disorders Tsigos and Chrousos, Reduced baseline cortisol levels or a blunted cortisol response to psychological stress have been found in children with ADHD compared with healthy controls Blomqvist et al. However, other studies found positive associations between ADHD symptoms and cortisol in population-based samples e. These mixed results could be due to variations within ADHD samples, especially in relation to comorbid disorders, sample size and hormone measurement techniques see Fairchild , for a review. It has been hypothesised that blunted cortisol reactivity reflects fearlessness and is associated with deficient emotion regulation and inhibition of antisocial behaviour Van Goozen et al. Consequently, the first aim of this study was to investigate adolescent boys with ADHD and compare those with or without a comorbid diagnosis of CD in terms of baseline cortisol and cortisol stress reactivity. Studies that did assess and control for comorbid DBDs have still obtained mixed results. This may be due to differences between studies in cortisol measurement techniques or saliva collection protocols. The HPA axis is a dynamic system that not only responds to psychological and physical stress, but also exhibits a marked diurnal rhythm Kirschbaum and Hellhammer, Therefore studies that have only assessed cortisol at one e. Furthermore, some research has relied on participants collecting cortisol samples themselves e. Problems with adherence to a saliva collection protocol might be particularly pronounced in young people with ADHD who have difficulties with concentration, organisation and being forgetful; this could lead to both false positive and false negative findings Kudielka et al. Even when cortisol reactivity to a stressor has been investigated, there are inconsistent findings. However, the choice of stressor is important. For example, some previous studies have used inadequate or relatively weak stressors, such as cognitive tests e. The present study used an established psychosocial stress induction protocol that elicited feelings of anger, failure and negative social evaluation e. Anxiety or depressive symptoms are frequently reported to be associated with increased cortisol activity or reactivity Knight et al. Thus patterns of cortisol reactivity in ADHD can be further complicated by patterns of comorbid emotional symptoms as well as conduct disorder e. Another potentially important source of heterogeneity that is closely related to conduct disorder, is variation in callous-unemotional CU traits. These traits identify those at greater risk for severe antisocial behaviour Lahey and Waldman, and reduced responsiveness to treatment Hawes et al. The importance of such traits has been acknowledged by including limited prosocial emotions as a specifier for CD in the fifth edition of the Diagnostic and Statistical Manual of Mental Disorders American Psychiatric Association, However, the impact of CU traits on cortisol activity has been predominantly investigated in non-clinical samples free of psychiatric disorders Loney et al. Previous research has also focused on heterogeneity in cortisol reactivity between ADHD subtypes. However, their stress procedure was conducted in the morning and failed to induce an increase in cortisol. Van West et al. However, this group also had higher DBD symptoms. This study did not focus on ADHD subtype classifications because previous publications e. Instead we examined the role of symptom severity within each dimension on cortisol. The present study aimed to assess cortisol levels at baseline pre-stress samples taken under experimental conditions and in response to stress area under curve

with respect to increase; Pruessner et al. Children in the sample were males of British Caucasian origin also being recruited for a genetics study; Van Goozen et al. Informed written consent was obtained from all parents and adolescents aged over 16 years whereas written assent was obtained from adolescents below age 16 years. Clinical measures Child psychopathology was assessed using the Development and Well Being Assessment DAWBA structured psychiatric research diagnostic interview using both parents and children as informants Goodman et al. This interview has been used widely to assess child and adolescent psychopathology in clinical and large population studies and has shown to be a reliable diagnostic interview. All interviews were administered by trained psychologists, supervised by an experienced clinician AT. Diagnoses were further verified by a trained clinician. CD symptoms were considered present if endorsed by either the parent or child. This is a very extensively used questionnaire used to assess child psychopathology with high reliability and validity. The five SDQ emotional items worries, unhappy, afraid, clingy, somatic were scored on a 3-point Likert scale and summed to obtain a total emotional symptom score score range 0â€” However, the focus of the paper concentrated on the more severe area of conduct disorder. The reliability and convergent validity of the YPI with other measures of CU traits has been established Andershed et al. Cognitive ability was assessed in all participants using the Wechsler Abbreviated Scale of Intelligence WASI; Wechsler, â€” 2-subtest form vocabulary and matrix reasoning. Psychosocial stress induction procedure Participants arrived at our laboratory in the morning and completed a battery of questionnaires and neuropsychological tests including the WASI before lunch. After lunch they were informed that they would be taking part in a competition with an opponent of a similar age with a cash prize for the winner. This procedure is described in detail elsewhere Van Goozen et al. The competition begins with a frustration-inducing game in which the participant performs a difficult, computer-based manual precision task under time pressure while believing they are being watched by the video opponent and experimenter. By design, all participants fail to achieve their target score and receive negative evaluations of their performance from the opponent. Following this task, participants complete three further challenging tasks aimed at increasing performance uncertainty and sense of failure. Finally, mood was restored by the participant watching their opponent perform poorly, resulting in the participant winning the competition and the cash prize.

### 3: Publications Authored by Arne Popma | PubFacts

13 Eduard T. Klapwijk, Gert-Jan Lelieveld, Moji Aghajani, Albert E. Boon, Nic J. A. van der Wee, Arne Popma, Robert R. J. M. Vermeiren, Olivier F. Colins, *Fairness decisions in response to emotions: a functional MRI study among criminal justice-involved boys with conduct disorder*, *Social Cognitive and Affective Neuroscience*, , 11, 4.

### 4: Publications Authored by Robert Vermeiren | PubFacts

*Abstract. In DSM 5, conduct disorder (CD) has been expanded with a new specifier 'with Limited Prosocial Emotions' (LPE) in addition to the age-of-onset (AoO) subtyping, and is thought to identify a severe antisocial subgroup of CD.*

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