

compared maternal mental health stratifying on country/continents of residence, and identified determinants of mental health using multivariable regression models.

**Results:** Of 2,109 pregnant women recruited, 1,932 were from Canada, 48 the United States (US), 73 Europe, 35 Africa, and 21 Asia/Oceania. Mean depressive symptom scores were lower in Canada (EPDS 8.2, SD 5.2) compared to the US (EPDS 10.5, SD 4.8) and Europe (EPDS 10.4, SD 6.5) ( $p < 0.05$ ), regardless of being infected or not. Maternal anxiety, stress, decreased income and access to health care due to the pandemic were increasing maternal depression. The prevalence of severe anxiety was similar across country/continents. Maternal depression, stress, and earlier recruitment during the pandemic (June/July) were associated with increased maternal anxiety.

**Conclusions:** In this first international study on the impact of the COVID-19 pandemic, CONCEPTION has shown significant country/continent-specific variations in depressive symptoms during pregnancy, whereas severe anxiety was similar regardless of place of residence. Strategies are needed to reduce COVID-19's mental health burden in pregnancy.

**Disclosure:** No significant relationships.

**Keywords:** COVID-19 pandemic; maternal mental health during pregnancy; country/continent variations; Edinburgh Perinatal Depression Scale (EPDS)

## EPP0254

### Prevalence of eating disorders in adolescent girls in Siberia

N. Semenova<sup>1\*</sup>, H. Slobodskaya<sup>2</sup> and E. Rezun<sup>2</sup>

<sup>1</sup>Scientific Research Institute of Medical Problems of the North, Department Of Child's Physical And Mental Health, Krasnoyarsk, Russian Federation and <sup>2</sup>Federal State Budgetary Scientific Institution «Scientific Research Institute of Neurosciences and Medicine», Department Of Child Development And Individual Differences, Novosibirsk, Russian Federation

\*Corresponding author.

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**Introduction:** Eating disorders (ED) are an urgent public health problem, however, many adolescents with clinical symptoms fail to meet stringent diagnostic criteria.

**Objectives:** To estimate the prevalence of eating disorders (ED) and subthreshold eating disorders (SED) in adolescent girls.

**Methods:** A cross-sectional study of girls attending secondary schools ( $n = 917$ ) was carried out. The sample comprised of 18.3% early adolescents (aged 12-13), 51% middle adolescents (aged 14-15), and 30.6% late adolescents (aged 16-17). We used the Body Image and Eating Distress scale (Koskelainen et al., 2001) coded on a 1-3 scale. The answers were scored on a scale of 1-3. Adolescents scoring 12 or above on four items measuring body dissatisfaction were considered as dissatisfied with their bodies and were further divided into two subgroups: girls scoring 10 or above on three items measuring eating distress were considered as having ED, whereas girls scoring less than 10 were considered as having SED.

**Results:** The prevalence of ED was 2.1% (CI 1.4-3.3), the prevalence of SED was 9.6% (CI 7.8-11.7). In early adolescence, the prevalence

of SED was 1.6% (CI 0.9-2.7). In middle adolescence, the prevalence of SED was 5.1% (CI 3.9-6.7), the prevalence of ED was 0.9% (CI 0.5-1.8). In late adolescence, the prevalence of SED was 2.8% (CI 1.9-4.1), the prevalence of ED was 1.2% (CI 0.7-2.1).

**Conclusions:** In adolescent girls, the SED are 4.6 times commoner than overt above-threshold ED. During adolescence, the prevalence of SED decreases, while the prevalence of ED increases with age.

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**Keywords:** Epidemiology; Adolescents; Eating Disorders; girls

## EPP0255

### No Consistent Evidence for Brain Volumetric Correlates of Resilience in Two Independent Cohort Studies

A. Cortes Hidalgo<sup>1\*</sup>, H. Tiemeier<sup>1</sup>, M. Bakermans-Kranenburg<sup>2</sup>, T. White<sup>1</sup>, T. Banaschewski<sup>3</sup>, M. Van Ijzendoorn<sup>4</sup> and N. Holz<sup>3</sup>

<sup>1</sup>Erasmus MC, Child And Adolescent Psychiatry And Psychology, Rotterdam, Netherlands; <sup>2</sup>Vrije Universiteit Amsterdam, Department Of Clinical Child And Family Studies, Amsterdam, Netherlands;

<sup>3</sup>Central Institute of Mental Health, Department Of Child And Adolescent Psychiatry And Psychotherapy, Mannheim, Germany and

<sup>4</sup>Erasmus University Rotterdam, Department Of Psychology, Education And Child Studies, Rotterdam, Netherlands

\*Corresponding author.

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**Introduction:** Childhood adversities have been associated with long-lasting brain morphological differences and poor psychological outcomes over the lifespan. Evidence with regard to protective factors counteracting the detrimental effect of childhood adversity on neurobiology is scarce.

**Objectives:** Therefore, we examined the interplay of childhood adversity with multiple protective factors in relation to brain morphology in a child and an adult cohort.

**Methods:** We analyzed data from two epidemiological longitudinal birth cohorts, the Generation R Study ( $N=3,008$ ) and the Mannheim Study of Children at Risk (MARS) ( $N=179$ ). Cumulative exposure to 12 adverse events (such as physical and sexual abuse), and the presence of protective factors, including child temperament, cognition, self-esteem, friendship quality and maternal sensitivity were assessed at different time points during childhood. Anatomical scans were acquired at the ages of 9-11 years in Generation R and at 25 years in MARS.

**Results:** Childhood adversity was related to smaller global brain volumes in Generation R, with similar effect sizes observed for the cerebellar volume in MARS. While small interaction effects between adversity and protective factors were found on the medial orbitofrontal cortex, the cerebellum and the amygdala in either cohort study, no interactions were consistent across cohorts or survived correction for multiple comparisons.

**Conclusions:** We found no consistent or strong evidence for interaction effects between multiple protective factors and childhood adversities on brain structure in a child and an adult cohort study. Instead, small interaction effects were found in either children or adults warranting further investigation and more fine-grained analyses.

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