Study links severe childhood deprivation to neuropsychological difficulties in adulthood
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A team of researchers from the University of Southampton, the University of Bath and King's College London have provided compelling evidence of the impact of adversity in childhood on neuropsychological functioning in adulthood. They also showed that neuropsychological difficulties may explain why early adversity is linked to attention deficit hyperactivity disorder (ADHD) in later life.

Their study, published in the journal *Psychological Medicine*, analysed neuropsychological function in 70 young adults who were exposed to severely depriving conditions in Romanian orphanages during Nicolae Ceausescu's regime and subsequently adopted by British families. The adoptees were compared to 22 British adoptees of similar ages who had not suffered deprivation. The adoptees with the lowest IQs and the greatest problems in prospective memory were more likely to show ADHD symptoms in adulthood than those without neuropsychological difficulties. The researchers found no direct link between ASD symptoms and neuropsychological performance.

The latest research is part of the wider English and Romanian Adoptees study, a collaborative study between the University of Southampton and King's College London which began shortly after the fall of the communist regime in Romania.

Children living in the institutions were subjected to extremely poor hygiene, insufficient food, little affection and no social or cognitive stimulation. The study analyses the mental health and brain development of 165 children who spent time in Romanian institutions and who were adopted by families in the UK when aged between two weeks and 43 months.

The principal investigator of the study is Professor Edmund Sonuga-Barke, who began the study whilst working at the University of Southampton and is now based at the Institute of Psychiatry, Psychology & Neuroscience at King's College London. He said: "This study contributes to our changing understanding of the power of the early environment to shape brain development—showing that the effects of institutional deprivation on cognition can still be seen after more than twenty..."
years of positive experience in high functioning and loving adoptive families leads us to acknowledge that there are limits to the brain's recuperative powers.'

Dr. Dennis Golm, Lecturer in Psychology at the University of Southampton, said: 'The study highlights that institutional deprivation can have long-lasting effects on a range of neuropsychological functions that are important in everyday life, such as memory and general intellectual ability. Our findings also emphasise the importance of improving the quality of care for children in institutions.'

**More information:** Dennis Golm et al, The impact of childhood deprivation on adult neuropsychological functioning is associated with ADHD symptom persistence, *Psychological Medicine* (2020). DOI: 10.1017/S0033291720001294

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