

## **Defining Childhood Maltreatment Typologies and their Impact On BMI Trajectories in Adolescence and Young Adulthood**

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**PRESENTATION FORMAT:** 15 minute oral presentation

**TOPIC/TARGET AUDIENCE:** Epidemiology, Biostatistics, Adolescent Health, Adverse Childhood Experiences

**ABSTRACT:** Background: Childhood maltreatment is linked to negative adult health. Little is known about how different types of maltreatment impact health. We identified types of maltreatment and characterized their relationships with Body Mass Index (BMI) through adolescence into adulthood.

**Methods:** Using data from the National Longitudinal Study of Adolescent Health (n=14,432), we conducted gender-stratified latent class analyses to identify maltreatment typologies (defined by supervisory, physical, or emotional neglect; physical or sexual abuse). We examined how these typologies associated with adolescent BMI and change in BMI from adolescence to adulthood.

**Results:** We identified four typologies: low maltreatment probability, high abuse and neglect, moderate abuse, and moderate neglect. Compared to low maltreatment, moderate abuse was marginally associated with greater BMI in adolescence [Girls: coeff = 0.33 (-0.14, 0.72) p = 0.2]; Boys: coeff = 0.73 (-0.05, 1.52), p = 0.07] and greater increases in BMI over time for girls [coeff = 0.51 (-0.07, 1.1), p = 0.09]. Severe abuse and neglect was also associated with greater BMI slope in girls.

**Conclusions:** Specific maltreatment typologies may incur excess weight gain prior to adolescence, which continues into adulthood. Reduction of health risk resulting from maltreatment may require consideration of processes involved in distinct maltreatment typologies.

**OBJECTIVE(S):** Define typologies of childhood maltreatment. Differentiate health outcomes between different maltreatment groups and gender.

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