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Short Communication

Overweight and Obesity Younger Adolescents Have a High Risk of School, Behavior and Health Related Difficulties

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Overweight and obesity are frequent and younger adolescents (<16 years) concerned may experience school, behavior and health related difficulties. This study assessed the risk of a wide range of issues common in early adolescents (low school performance, last-30-day use of tobacco, alcohol, cannabis, or other illicit drugs, lack of physical/sports activity, poor health status, poor physical health, poor psychological health, poor social relationships, poor living environment, back pain, sustained physical/verbal violence, sustained sexual abuse, perpetrated violence, last-12-month suicide ideation, lifetime suicide attempt) of overweight or obese subjects in reference to normal-weight subjects (defined by measured body weight/height and French-adolescents threshold values).

The population included all 1559 middle-school students from an urban area in eastern France. They completed a questionnaire at school. Data were analyzed using multinomial logistic regression models. The study design and measurements have been described in Supplementary text.

Overweight and obese subjects represented respectively 27.6% and 11.6%. Overweight, obese and normal-weight subjects greatly differed in gender, family structure, father's occupation, and family insufficient income (supplementary data, Table S1) as well as in most previous difficulties (Table S2).

Based on gender-age-adjusted odds ratios (ORga), obese subjects had a higher risk of low school performance, poor health, back pain, suicide attempt, sustained physical/verbal violence, sustained sexual abuse, perpetrated violence, poor physical health, poor psychological health, poor social relationships, and poor living environment (ORga 1.50 to 2.89) (Table S3). Compared with normal-weight subjects, overweight subjects had a higher risk of suicide attempt, poor physical health, poor psychological health, and poor living environment (ORga 1.51 to 1.72) (Table S3). Sensibility analyses highlighted that the higher risks remained after further adjustment for socioeconomic features (Table S4). These risks may be underestimated as the subjects refusing weight/height measurements (7.9%) had higher risk than the others for a number of issues (Table S5).

In conclusion, obese younger adolescents, and to a lesser degree, overweight ones are at high risks of a wide range of school, behavior and health related difficulties, independently of socioeconomic features.

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