



Supplementary file

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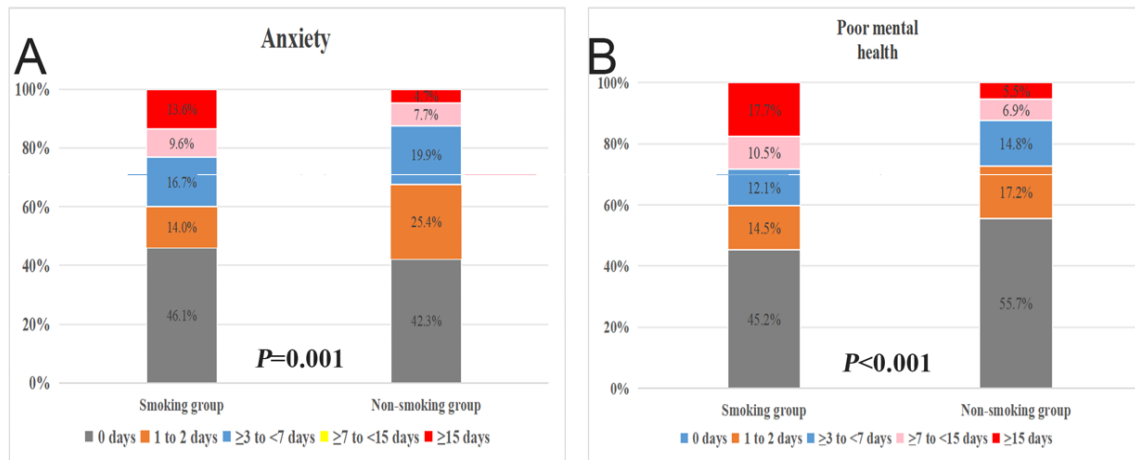
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Supplementary file

Supplementary Figure S1. Prevalence of high anxiety and poor mental health among 1,445 U.S. adolescents aged 12–15 years from NHANES 2007–2012, stratified by maternal smoking during pregnancy (MSDP)



P-values were calculated using the Rao-Scott χ^2 test for categorical variables, accounting for the complex survey design.

Supplementary Table S1. Variance inflation factors (VIFs) for covariates in the fully adjusted models for anxiety and poor mental health outcomes among 1,445 U.S. adolescents aged 12–15 years (NHANES 2007–2012).

Characteristic	Df	High anxiety GVIF	High anxiety GVIF ^{^(1/(2Df))}	Poor mental health GVIF	Poor mental health GVIF ^{^(1/(2Df))}
Sex	1	1.04	1.02	1.05	1.03
Age	3	3.03	1.20	3.04	1.20
Race/ethnicity	2	1.44	1.10	1.42	1.09
Family PIR	2	1.61	1.13	1.57	1.12
BMI	2	1.07	1.02	1.08	1.02
Hypertension	1	1.05	1.03	1.05	1.02
Adolescent education level	2	2.93	1.31	2.94	1.31
Household size	1	1.23	1.11	1.22	1.11
Household head's education level	2	1.43	1.09	1.40	1.09
Parental marital status	1	1.27	1.13	1.28	1.13
Physical activity	2	1.09	1.02	1.10	1.03
MSDP	1	1.14	1.07	1.14	1.07
Poor physical health	1	1.03	1.01	1.03	1.01
Routine place to go for healthcare	1	1.16	1.08	1.16	1.08
Health insurance status	1	1.16	1.08	1.16	1.08
Low birth weight	1	1.03	1.02	1.04	1.02
Mother's age at child's birth	1	1.18	1.09	1.16	1.08

Multicollinearity was assessed using variance inflation factors (VIF) based on an unweighted logistic regression model. For categorical variables with more than two levels, the generalized variance inflation factor (GVIF) was calculated and adjusted to an equivalent VIF using the formula $GVIF^{(1/(2 \times Df))}$, where Df is the number of dummy variables for that predictor. Abbreviations: VIF, variance inflation factor; GVIF, generalized variance inflation factor; Df, degrees of freedom; PIR, poverty income ratio; BMI, body mass index; MSDP, maternal smoking during pregnancy.