

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Frequencies and Percentages of Children with High Scores on SDQ Domains According to Maternal Acetaminophen Use

SDQ Domain	Maternal Acetaminophen Use ^a					
	At 18 Weeks of Pregnancy		At 32 Weeks of Pregnancy		Postnatal Use	
	Never (n = 3902, 47%)	Ever (n = 4415, 53%)	Never (n = 4681, 58%)	Ever (n = 3381, 42%)	Never (n = 845, 11%)	Ever (n = 6916, 89%)
SDQ total difficulties (scores >=17)	187 (4.8)	246 (5.6)	198 (4.3)	209 (6.3)	34 (4.1)	362 (5.3)
Emotional symptoms (scores >=5)	241 (6.2)	303 (6.9)	268 (5.8)	250 (7.5)	44 (5.3)	458 (6.7)
Conduct problems (scores >=4)	367 (9.5)	500 (11.4)	407 (8.8)	418 (12.3)	80 (9.6)	725 (10.5)
Hyperactivity symptoms (scores >=7)	379 (9.8)	525 (12)	440 (9.5)	417 (12.5)	83 (9.9)	751 (10.9)
Peer problems (scores >=4)	255 (6.6)	308 (7.0)	302 (6.5)	237 (7.1)	54 (6.5)	466 (6.8)
Prosocial behavior (scores <=6)	743 (19.1)	837 (19.1)	874 (18.8)	654 (19.5)	157 (18.8)	1325 (19.3)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire.

^a Unless otherwise indicated, data are reported as number (percentage) of participants.

eTable 2. Risk Ratios for SDQ Behavioral Problems and Maternal Acetaminophen Use at 18 weeks and 32 weeks of Pregnancy Adjusted for Covariates

SDQ Domain ^a	Risk Ratio (95% CI)	
	18 weeks	32 weeks
	(n = 6049)	(n = 6048)
SDQ total difficulties (scores >=17)	1.01 (0.79 - 1.27)	1.37 (1.07 - 1.75)
Emotional symptoms (scores >=5)	1.00 (0.81 - 1.22)	1.08 (0.87 - 1.33)
Conduct problems (scores >=4)	1.13 (0.96 - 1.32)	1.35 (1.13 - 1.6)
Hyperactivity symptoms (scores >=7)	1.18 (1.01 - 1.38)	1.22 (1.04 - 1.43)
Peer problems (scores >=4)	0.95 (0.77 - 1.16)	0.99 (0.80 - 1.23)
Prosocial behavior (scores <=6)	1.03 (0.92 - 1.15)	1.06 (0.94 - 1.19)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

eTable 3. Risk Ratios for SDQ Behavioral Problems and Maternal Postnatal and Partner's Acetaminophen Use Adjusted for Covariates

SDQ Domain ^a	Risk Ratio (95% CI)	
	Maternal (n = 5644)	Partner's (n = 3195)
SDQ total difficulties (scores ≥ 17)	1.38 (0.89 - 2.15)	1.25 (0.77 - 2.04)
Emotional symptoms (scores ≥ 5)	1.35 (0.92 - 1.98)	1.31 (0.87 - 1.97)
Conduct problems (scores ≥ 4)	1.01 (0.77 - 1.32)	1.63 (1.11 - 2.40)
Hyperactivity symptoms (scores ≥ 7)	1.14 (0.88 - 1.49)	1.41 (1.02 - 1.97)
Peer problems (scores ≥ 4)	1.06 (0.76 - 1.48)	1.11 (0.73 - 1.68)
Prosocial behavior (scores ≤ 6)	1.10 (0.91 - 1.32)	0.95 (0.78 - 1.15)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

eTable 4. Comparison of Maternal Prenatal and 61-Month Postnatal Acetaminophen Use on SDQ Behavioral Problems after Mutual Adjustment with Inclusion of Covariates

SDQ Domain ^a	Maternal Prenatal Acetaminophen Use, Risk Ratio (95% CI)			
	At 18 Weeks of Pregnancy ^b (n = 5625)	At 32 Weeks of Pregnancy ^b (n = 5626)	Postnatal Use ^c (n = 5625)	Postnatal Use ^d (n = 5626)
SDQ total difficulties (scores >=17)	1.01 (0.79 - 1.30)	1.45 (1.12 - 1.87)	1.38 (0.89 - 2.14)	1.30 (0.83 - 2.02)
Emotional symptoms (scores >=5)	0.96 (0.78 - 1.18)	1.04 (0.84 - 1.30)	1.40 (0.95 - 2.07)	1.33 (0.91 - 1.96)
Conduct problems (scores >=4)	1.14 (0.96 - 1.35)	1.36 (1.14 - 1.63)	0.98 (0.75 - 1.28)	0.95 (0.73 - 1.25)
Hyperactivity symptoms (scores >=7)	1.17 (1.00 - 1.38)	1.26 (1.07 - 1.49)	1.11 (0.85 - 1.45)	1.09 (0.83 - 1.42)
Peer problems (scores >=4)	0.94 (0.76 - 1.16)	0.99 (0.79 - 1.23)	1.07 (0.77 - 1.50)	1.09 (0.78 - 1.53)
Prosocial behavior (scores <=6)	1.03 (0.92 - 1.15)	1.04 (0.93 - 1.18)	1.09 (0.91 - 1.32)	1.09 (0.90 - 1.31)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

^b Adjusted for postnatal use.

^c Adjusted for prenatal use at 18 weeks.

^d Adjusted for prenatal use at 32 weeks.

eTable 5. Comparison of Maternal Prenatal and Partner's 61-Month Postnatal Acetaminophen Use on SDQ Behavioral Problems after Mutual Adjustment with Inclusion of Covariates

SDQ Domain ^a	Maternal and Partner's Acetaminophen Use, Risk Ratio (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy ^b (n = 3183)	Maternal Use at 32 Weeks of Pregnancy ^b (n = 3188)	Partner's Postnatal Use ^c (n = 3183)	Partner's Postnatal Use ^d (n = 3188)
SDQ total difficulties (scores >=17)	1.08 (0.77 - 1.52)	1.65 (1.16 - 2.36)	1.25 (0.76 - 2.04)	1.21 (0.74 - 1.97)
Emotional symptoms (scores >=5)	0.88 (0.66 - 1.16)	1.00 (0.75 - 1.32)	1.37 (0.90 - 2.09)	1.29 (0.86 - 1.95)
Conduct problems (scores >=4)	1.31 (1.03 - 1.67)	1.40 (1.08 - 1.82)	1.60 (1.09 - 2.35)	1.58 (1.08 - 2.33)
Hyperactivity symptoms (scores >=7)	1.18 (0.95 - 1.46)	1.28 (1.02 - 1.60)	1.40 (1.01 - 1.95)	1.42 (1.02 - 1.99)
Peer problems (scores >=4)	1.11 (0.82 - 1.51)	1.11 (0.81 - 1.51)	1.10 (0.73 - 1.67)	1.10 (0.72 - 1.66)
Prosocial behavior (scores <=6)	1.00 (0.86 - 1.17)	0.99 (0.85 - 1.17)	0.95 (0.78 - 1.16)	0.95 (0.78 - 1.15)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

^b Adjusted for partner's use.

^c Adjusted for prenatal use at 18 weeks.

^d Adjusted for prenatal use at 32 weeks.

eTable 6. Linear Regression of Continuous SDQ Scores on Maternal Prenatal Acetaminophen Use

SDQ Domain ^a	Beta Coefficient (95% CI)	
	18 weeks (n = 8317)	32 weeks (n = 8062)
SDQ total difficulties (scores ≥ 17)	0.45 (0.24 to 0.66)	0.74 (0.52 to 0.95)
Emotional symptoms (scores ≥ 5)	0.07 (-0.01 to 0.14)	0.13 (0.06 to 0.21)
Conduct problems (scores ≥ 4)	0.13 (0.06 to 0.19)	0.22 (0.16 to 0.29)
Hyperactivity symptoms (scores ≥ 7)	0.26 (0.15 to 0.36)	0.31 (0.20 to 0.41)
Peer problems (scores ≥ 4)	0.01 (-0.05 to 0.07)	0.07 (0.01 to 0.14)
Prosocial behavior (scores ≤ 6)	-0.01 (-0.08 to 0.07)	-0.03 (-0.11 to 0.04)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

eTable 7. Linear Regression of Continuous SDQ scores on Maternal Postnatal and Partner's Acetaminophen Use

SDQ Domain ^a	Beta Coefficient (95% CI)	
	Maternal (n = 7761)	Partner's (n = 4095)
SDQ total difficulties (scores ≥ 17)	0.51 (0.16 to 0.85)	0.31 (-0.08 to 0.71)
Emotional symptoms (scores ≥ 5)	0.24 (0.12 to 0.36)	0.21 (0.07 to 0.35)
Conduct problems (scores ≥ 4)	0.12 (0.02 to 0.23)	0.07 (-0.05 to 0.19)
Hyperactivity symptoms (scores ≥ 7)	0.21 (0.04 to 0.38)	0.07 (-0.13 to 0.27)
Peer problems (scores ≥ 4)	-0.03 (-0.14 to 0.07)	-0.03 (-0.15 to 0.08)
Prosocial behavior (scores ≤ 6)	0.01 (-0.12 to 0.13)	0.01 (-0.14 to 0.16)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; CIs, Confidence Intervals.

^a Adjusted for child's gender, gestational age at delivery and birth weight, maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

eTable 8. Comparison of Maternal Prenatal and 61-month Postnatal Acetaminophen Use on Continuous SDQ Scores after Mutual Adjustment

SDQ Domain ^a	Maternal Acetaminophen Use, Beta Coefficient (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy ^b (n = 7535)	Maternal Use at 32 Weeks of Pregnancy ^b (n = 7317)	Postnatal Use ^c (n = 7535)	Postnatal Use ^d (n = 7317)
SDQ total difficulties (scores >=17)	0.39 (0.17 to 0.61)	0.72 (0.50 to 0.94)	0.4 (0.05 to 0.76)	0.29 (-0.07 to 0.64)
Emotional symptoms (scores >=5)	0.03 (-0.04 to 0.11)	0.12 (0.04 to 0.19)	0.23 (0.10 to 0.35)	0.2 (0.07 to 0.32)
Conduct problems (scores >=4)	0.12 (0.05 to 0.18)	0.23 (0.16 to 0.30)	0.1 (-0.01 to 0.21)	0.06 (-0.05 to 0.17)
Hyperactivity symptoms (scores >=7)	0.25 (0.14 to 0.35)	0.32 (0.21 to 0.44)	0.15 (-0.03 to 0.32)	0.11 (-0.06 to 0.29)
Peer problems (scores >=4)	0.00 (-0.07 to 0.06)	0.06 (-0.01 to 0.12)	-0.04 (-0.15 to 0.06)	-0.05 (-0.16 to 0.05)
Prosocial behavior (scores <=6)	0.00 (-0.08 to 0.08)	0.04 (-0.12 to 0.05)	0.00 (-0.13 to 0.13)	-0.00 (-0.13 to 0.13)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

^b Adjusted for postnatal use.

^c Adjusted for prenatal use at 18 weeks.

^d Adjusted for prenatal use at 32 weeks.

eTable 9. Comparison of Maternal Prenatal and 61-month Partner's Postnatal Acetaminophen Use on Continuous SDQ Scores after Mutual Adjustment

SDQ Domain ^a	Maternal and Partner's Acetaminophen Use, Risk Ratio (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy ^b (n = 7535)	Maternal Use at 32 Weeks of Pregnancy ^b (n = 7317)	Partner's Postnatal Use ^c (n = 7535)	Partner's Postnatal Use ^d (n = 7317)
SDQ total difficulties (scores >=17)	0.55 (0.26 to 0.84)	0.81 (0.51 to 1.10)	0.30 (-0.10 to 0.70)	0.32 (-0.08 to 0.72)
Emotional symptoms (scores >=5)	0.07 (-0.04 to 0.17)	0.14 (0.03 to 0.24)	0.21 (0.07 to 0.35)	0.24 (0.09 to 0.38)
Conduct problems (scores >=4)	0.16 (0.07 to 0.25)	0.28 (0.19 to 0.37)	0.07 (-0.06 to 0.19)	0.05 (-0.07 to 0.17)
Hyperactivity symptoms (scores >=7)	0.26 (0.12 to 0.41)	0.30 (0.15 to 0.45)	0.07 (-0.13 to 0.27)	0.07 (-0.13 to 0.27)
Peer problems (scores >=4)	0.06 (-0.03 to 0.15)	0.11 (0.03 to 0.20)	-0.04 (-0.16 to 0.07)	-0.02 (-0.14 to 0.10)
Prosocial behavior (scores <=6)	0.01 (-0.10 to 0.12)	-0.03 (-0.14 to 0.08)	0.02 (-0.13 to 0.17)	0.01 (-0.14 to 0.16)

Abbreviations: SDQ, Strengths and Difficulties Questionnaire; RR, Risk Ratio; CIs, Confidence Intervals.

^a Adjusted for maternal age at birth, parity, socioeconomic status, smoking and alcohol consumption during pregnancy, pre-pregnancy BMI, maternal self-reported psychiatric illness, possible indications for acetaminophen use, ADHD polygenic risk score.

^b Adjusted for partner's use.

^c Adjusted for prenatal use at 18 weeks.

^d Adjusted for prenatal use at 32 weeks.