

## 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 <sup>a</sup>					
	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.

<sup>a</sup> 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 <sup>a</sup>	Risk Ratio (95% CI)	
	18 weeks (n = 6049)	32 weeks (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.

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

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

<sup>a</sup> 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 <sup>a</sup>	Maternal Prenatal Acetaminophen Use, Risk Ratio (95% CI)			
	At 18 Weeks of Pregnancy <sup>b</sup> (n = 5625)	At 32 Weeks of Pregnancy <sup>b</sup> (n = 5626)	Postnatal Use <sup>c</sup> (n = 5625)	Postnatal Use <sup>d</sup> (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

<sup>a</sup> 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.

<sup>b</sup> Adjusted for postnatal use.

<sup>c</sup> Adjusted for prenatal use at 18 weeks.

<sup>d</sup> 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 <sup>a</sup>	Maternal and Partner's Acetaminophen Use, Risk Ratio (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy <sup>b</sup> (n = 3183)	Maternal Use at 32 Weeks of Pregnancy <sup>b</sup> (n = 3188)	Partner's Postnatal Use <sup>c</sup> (n = 3183)	Partner's Postnatal Use <sup>d</sup> (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.

<sup>a</sup> 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.

<sup>b</sup> Adjusted for partner's use.

<sup>c</sup> Adjusted for prenatal use at 18 weeks.

<sup>d</sup> Adjusted for prenatal use at 32 weeks.

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

SDQ Domain <sup>a</sup>	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.

<sup>a</sup> 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 <sup>a</sup>	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.

<sup>a</sup> 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 <sup>a</sup>	Maternal Acetaminophen Use, Beta Coefficient (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy <sup>b</sup> (n = 7535)	Maternal Use at 32 Weeks of Pregnancy <sup>b</sup> (n = 7317)	Postnatal Use <sup>c</sup> (n = 7535)	Postnatal Use <sup>d</sup> (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.

<sup>a</sup> 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.

<sup>b</sup> Adjusted for postnatal use.

<sup>c</sup> Adjusted for prenatal use at 18 weeks.

<sup>d</sup> 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 <sup>a</sup>	Maternal and Partner's Acetaminophen Use, Risk Ratio (95% CI)			
	Maternal Use at 18 Weeks of Pregnancy <sup>b</sup> (n = 7535)	Maternal Use at 32 Weeks of Pregnancy <sup>b</sup> (n = 7317)	Partner's Postnatal Use <sup>c</sup> (n = 7535)	Partner's Postnatal Use <sup>d</sup> (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.

<sup>a</sup> 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.

<sup>b</sup> Adjusted for partner's use.

<sup>c</sup> Adjusted for prenatal use at 18 weeks.

<sup>d</sup> Adjusted for prenatal use at 32 weeks.