

# Transplacental Transport of Artificial Sweeteners

Magnus Leth-Møller <sup>1,2,3,\*</sup>, Christina Søndergaard Duvald <sup>2</sup>, Sofie Stampe <sup>1,2</sup>, Eva Greibe <sup>3,4</sup>, Elke Hoffmann-Lücke <sup>3,4</sup>, Michael Pedersen <sup>2</sup> and Per Glud Ovesen <sup>1,3,5,\*</sup>

**Table S1.** Association between maternal plasma concentration (ng/mL) dependent on time from ingestion of drink to maternal blood sample (minutes).

Artificial sweetener	Coefficient (95% CI)
Acesulfame	−2.36 (−3.87 ; −0.84)
Cyclamate	−0.06 (−0.24 ; 0.12)
Saccharin	−0.52 (−0.79 ; −0.26)
Sucralose	−0.10 (−0.27 ; 0.06)

Coefficients are calculated using linear regression and are unadjusted.

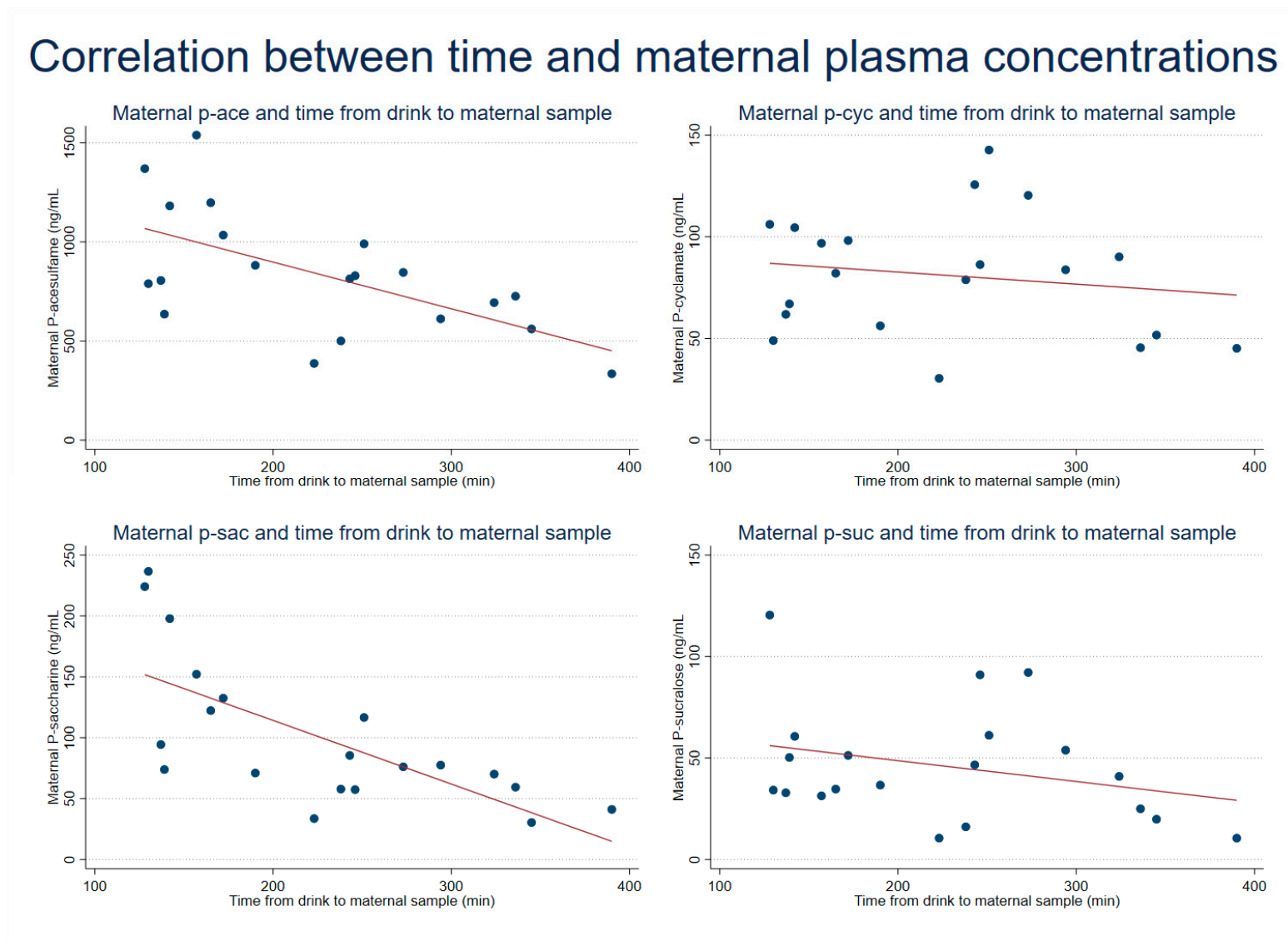
**Table S2.** Association between amniotic fluid concentrations of each sweetener (ng/mL) dependent on time from intake of drink to amniotic fluid sampling (minutes).

Artificial sweetener	Coefficient (95% CI)
Acesulfame	3.87 (1.50 ; 6.23)
Cyclamate	0.10 (0.04 ; 0.17)
Saccharin	0.14 (−0.08 ; 0.36)
Sucralose	0.12 (−0.01 ; 0.25)

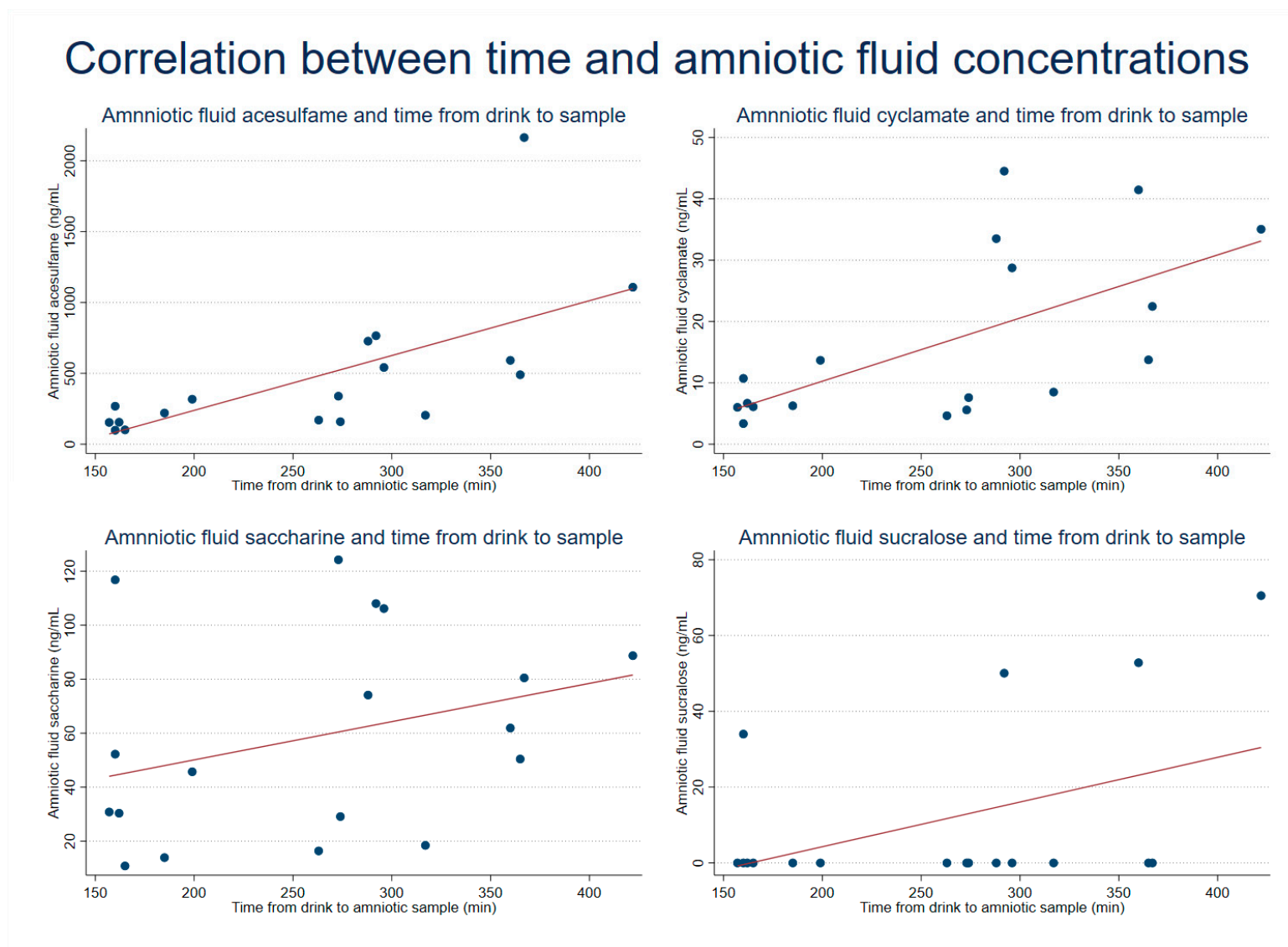
Coefficients are calculated using linear regression and are unadjusted.

**Table S3.** Mean concentration (95% CI) of each sweetener (ng/mL) in amniotic fluid samples in samples recorded as contaminated or non-contaminated.

	Contaminated (n = 8)	Non-contaminated (n = 19)
Acesulfame	360.26 (110.68 ; 609.85)	244.63 (−13.45 ; 502.11)
Cyclamate	12.16 (6.23 ; 18.10)	11.83 (−2.08 ; 25.74)
Saccharin	41.38 (22.36 ; 60.40)	38.27 (−0.03 ; 76.57)
Sucralose	8.28 (−1.63 ; 18.20)	6.26 (−8.54 ; 21.06)



**Figure S1.** Correlation between time from ingestion of drink and maternal plasma concentration of each sweetener.



**Figure S2.** Association between time from ingestion of drink and amniotic fluid sampling and amniotic fluid concentration of each sweetener.