CORRECTION Open Access

## Correction to: The association of maternalfetal attachment with smoking and smoking cessation during pregnancy in The FinnBrain Birth Cohort Study



Heidi Jussila<sup>1,2\*</sup>, Juho Pelto<sup>2</sup>, Riikka Korja<sup>2,3</sup>, Eeva Ekholm<sup>2,4</sup>, Marjukka Pajulo<sup>2,5</sup>, Linnea Karlsson<sup>2,6,7</sup> and Hasse Karlsson<sup>2,8</sup>

Correction to: BMC Pregnancy Childbirth 20, 741 (2020) https://doi.org/10.1186/s12884-020-03393-x

Following publication of the original article [1], the authors reported an error in Tables 2 and 3 headings of the two columns are missing during layout processing. The correct tables are given below.

## Author details

<sup>1</sup>Department of Child Psychiatry, Doctoral Programme of Clinical Investigation, University of Turku, Turku, Finland. <sup>2</sup>Department of Clinical Medicine, FinnBrain Birth Cohort Study, Turku Brain and Mind Center, University of Turku, Lemminkäisenkatu 3, 20014 Turku, Finland. <sup>3</sup>Department of Psychology, University of Turku, Turku, Finland. <sup>4</sup>Department of Obstetrics and Gynecology, Turku University Hospital, Turku, Finland. <sup>5</sup>Department of Child Psychiatry, University of Turku, Finland. <sup>6</sup>Centre for Population Health Research, University of Turku and Turku University Hospital, Turku, Finland. <sup>7</sup>Department of Child Psychiatry, Turku University Hospital and University of Turku, Finland. <sup>8</sup>Department of Psychiatry, Turku University Hospital and University of Turku, Turku, Finland.

## Published online: 10 April 2021

## Reference

 Jussila H, Pelto J, Korja R, Ekholm E, Pajulo M, Karlsson L, et al. The association of maternal-fetal attachment with smoking and smoking cessation during pregnancy in The FinnBrain Birth Cohort Study. BMC Pregnancy Childbirth. 2020;20(1):741. https://doi.org/10.1186/s12884-020-03393-x.

The original article can be found online at https://doi.org/10.1186/s12884-020-03393-x.

Full list of author information is available at the end of the article



© The Author(s). 2021 **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

<sup>\*</sup> Correspondence: hemhaan@utu.fi

<sup>&</sup>lt;sup>1</sup>Department of Child Psychiatry, Doctoral Programme of Clinical Investigation, University of Turku, Turku, Finland

<sup>&</sup>lt;sup>2</sup>Department of Clinical Medicine, FinnBrain Birth Cohort Study, Turku Brain and Mind Center, University of Turku, Lemminkäisenkatu 3, 20014 Turku, Finland

Table 2 The descriptives statistics of MFA and PPD, and the comparisons between the pregnant smokers and the non-smokers

	Non-smokers N = 3086			Smokers N = 612			Between-groups difference	
	n	Mean (SD)	Median (range)	n	Mean (SD)	Median (range)	p <sup>a</sup>	r
24gwks								
MFAS	2331	86.9 (10.6)	87 (51–116)	409	88.0 (10.0)	88 (44–113)	0.074	0.03
Role taking	2336	16.7 (2.8)	17 (6–20)	410	16.8 (2.7)	17 (7–20)	0.703	0.01
Differentiation	2340	15.4 (2.5)	15 (6–20)	410	15.7 (2.4)	16 (7–20)	0.032*	0.04
Interacting	2338	16.6 (3.1)	17 (5–25)	410	17.1 (3.0)	17 (8–24)	0.004**	0.05
Attributing	2335	18.5 (3.4)	19 (6–30)	409	19.0 (3.2)	19 (11–29)	0.006**	0.05
Giving	2338	19.7 (2.5)	20 (9–25)	410	19.5 (2.5)	20 (8–25)	0.091	0.03
EPDS	2317	4.8 (4.1)	4 (0-25)	408	6.0 (4.3)	5 (0-23)	< 0.001**	0.11
SCL-90 Anxiety	2314	3.8 (4.2)	3 (0–30)	408	4.7 (4.6)	4 (0-24)	< 0.001**	0.08
34gwks								
MFAS	2188	92.0 (10.2)	93 (52–116)	373	93.1 (10.2)	93 (55–117)	0.137	0.03
Role taking	2202	17.1 (2.6)	18 (7–20)	374	17.1 (2.5)	18 (8–20)	0.886	0.00
Differentiation	2204	15.9 (2.4)	16 (8–20)	374	16.2 (2.2)	16 (10–20)	0.111	0.03
Interacting	2202	18.1 (3.1)	18 (5–25)	374	18.5 (2.8)	19 (10–25)	0.037*	0.04
Attributing	2198	21.1 (3.4)	22 (9–30)	373	21.8 (3.4)	22 (12–30)	0.001**	0.07
Giving	2198	19.8 (2.4)	20 (10–25)	374	19.6 (2.5)	20 (10–25)	0.171	0.03
EPDS	2191	4.7 (4.0)	4 (0-26)	373	5.9 (4.5)	5 (0-23)	< 0.001**	0.10
SCL-90 Anxiety	2186	3.1 (3.8)	2 (0–27)	374	3.8 (4.6)	3 (0–33)	0.012*	0.05
		n/N	%		n/N	%	$\chi^2$ p	Cramer's φ
<b>24 gwks</b> EPDS≥10		299/2317	12.9%		73/408	17.9%	0.007**	0.05
<b>34 gwks</b> EPDS≥10		287/2191	13.1%		84/373	22.5%	< 0.001**	0.09

The estimates are based on the original data, not the imputed dataset

Attrition in the MFAS questionnaire responses was higher among the smoking women in comparison with the non-smokers (24 gwks: 33.2% vs. 24.5%,  $\chi$ 2 = 20.2, p < 0.001; 34 gwks: 39.1% vs. 29.1%,  $\chi 2 = 23.8$ , p < 0.001, respectively)

MFAS Maternal-Fetal Attachment Scale and the subscales of Maternal-Fetal Attachment Scale: Role taking, Differentiation, Differentiation of self from fetus, Interacting, Interacting with the fetus, Attributing, Attributing characteristics to the fetus and Giving Giving of self, EPDS Edinburgh (Pre) Postnatal Depression Scale, SCL-90 Anxiety Symptom Checklist – 90, the Anxiety Subscale \* p-value <.05, \*\*p-value <.01 a Mann-Whitney U test

Table 3 The descriptives statistics of MFA and PPD, and the comparisons between the smokers who quit and the persistent smokers

	Quit smoking N = 354			Continued smoking N = 255			Between-groups difference	
	n	Mean (SD)	Median (range)	n	Mean (SD)	Median (range)	p <sup>a</sup>	r
24 gwks								
MFAS	257	88.6 (10.0)	88 (57–113)	152	87.0 (10.0)	87 (44–112)	0.102	0.08
Role taking	258	16.6 (2.7)	17 (8–20)	152	16.7 (2.6)	17 (7–20)	0.237	0.06
Differentiation	258	15.7 (2.4)	16 (9–20)	152	15.6 (2.3)	16 (7–20)	0.644	0.02
Interacting	258	17.1 (3.1)	17 (8–24)	152	17.0 (2.9)	17 (9–24)	0.574	0.03
Attributing	257	19.1 (3.2)	19 (11–29)	152	19.0 (3.2)	19.0 (11–29)	0.773	0.01
Giving	258	19.8 (2.4)	20 (13–25)	152	18.8 (2.6)	19 (8–25)	< 0.001**	0.18
EPDS	256	5.6 (4.1)	5 (0-20)	152	6.8 (4.5)	6 (0-23)	0.006**	0.14
SCL-90 Anxiety	256	4.3 (4.5)	3 (0-24)	152	5.4 (4.7)	4 (0-20)	0.007**	0.13
34 gwks								
MFAS	236	93.9 (9.7)	93 (67–115)	137	91.8 (10.9)	91 (55–117)	0.093	0.09
Role taking	236	17.3 (2.5)	18 (8–20)	138	17.0 (2.5)	17 (8–20)	0.136	0.08
Differentiation	236	16.2 (2.3)	16 (10–20)	138	16.1 (2.2)	16 (10–20)	0.883	0.01
Interacting	236	18.5 (2.7)	19 (12–25)	138	18.4 (3.0)	18 (10–25)	0.555	0.03
Attributing	236	21.9 (3.3)	22 (12–28)	137	21.6 (3.7)	22 (12–30)	0.542	0.03
Giving	236	20.1 (2.5)	20 (12–25)	138	18.8 (2.5)	18 (10–25)	< 0.001**	0.26
EPDS	235	5.4 (4.2)	5 (0-20)	138	6.8 (4.9)	6 (0-23)	0.007**	0.14
SCL-90 Anxiety	235	3.5 (4.5)	2 (0-33)	139	4.5 (4.7)	3 (0–26)	0.016*	0.12
		n/N	%		n/N	%	X <sup>2</sup> p	Cramer's q
<b>24 gwks</b> EPDS≥10		36/256	14.1%		37/152	24.3%	0.009**	0.13
<b>34 gwks</b> EPDS≥10		42/235	17.9%		42/138	30.4%	0.005**	0.15

The estimates are based on the original data, not the imputed dataset

Attrition in the MFAS questionnaire responses was higher among the persistent smokers in comparison with the women who quit smoking during pregnancy  $(24gwks: 40.9\% vs. 26.0, \chi 2 = 14.5, p < 0.001; 34 gwks: 46.8\% vs. 29.6\%, \chi 2 = 18.2, p < 0.001, respectively)$ 

Interacting Interacting with the fetus, Attributing Attributing Characteristics to the fetus and Giving Giving of self, EPDS Edinburgh (Pre) Postnatal Depression Scale, SCL-90 Anxiety Symptom Checklist – 90, the Anxiety Subscale

\* p-value <.05, \*\*p-value <.01

a Mann-Whitney U test MFAS Maternal-Fetal Attachment Scale and the subscales of Maternal-Fetal Attachment Scale: Role taking, Differentiation Differentiation of self from fetus,