Erratum to: Leisure Time Physical Activity and the Risk of Pre-eclampsia: A Systematic Review

H. T. Wolf · K. M. Owe · M. Juhl ·
H. K. Hegaard

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Under the section “Confounding” the text “The strategy for selecting covariates was described in only two studies [24,31].” should read correctly as “The strategy for selection covariates was described in eight studies (23–27, 30–32)”.

The authors would like to change the text under the section “Validation” to “Only four studies measured LTPA based on validated questions (23, 27, 28, 31). Six studies validated the PE diagnosis: five of them by reviewing the medical records for a confirmation of the diagnosis (22, 23, 25, 27, 32)”.

Under the section “LTPA Before and During Pregnancy”, the text “Saftlas et al. [32] calculated the risk of

PE associated with a combined exposure—exercise performed both before and during pregnancy. This study was the only one to investigate this relationship, and no association was found.” should now read correctly as “The studies investigating LTPA both before and during pregnancy all calculated the risk of PE associated with the combined exposure-exercise performed both before and during pregnancy (23, 27, 30, 32). Only Sorensen et al. found a decreased risk of PE using this combined exposure (30).”

Under Table 3, the categories for sports and exercises namely none, low, middle, high are now changed to quartiles with the first quartile as reference category. The revised table is presented below.

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H. T. Wolf (✉)
Department of Obstetrics and Gynaecology, Copenhagen
University Hospital, Rigshospitalet, Copenhagen, Denmark
e-mail: trapwolf@gmail.com

K. M. Owe
Department of Sports Medicine, Norwegian School of Sport
Sciences, Oslo, Norway

M. Juhl · H. K. Hegaard
Research Unit Women’s and Children’s Health, The Juliane
Marie Centre for Women, Children and Reproduction,
Copenhagen University Hospital, Rigshospitalet, Section 7821,
2100 Copenhagen, Denmark

Table 3 Leisure time physical activity before and during pregnancy and the risk pre-eclampsia

Author and year	Design, setting and period of data collecting	NOS* (max = 9)	Participants and number of women with pre-eclampsia	Definition of pre-eclampsia	Measure of leisure time physical activity	Adjusted risk (RR/OR 95 %CI)	Adjustments
Fortner, 2011 (27)	Cohort study. USA, 2000–2004	7	1,043 hispanic women, 16–40 years, singleton births, no history of chronic renal disease or type 2 diabetes 30 (2.9 %)	Blood pressure > 140/90 mmHg on two occasions, with proteinuria after 20 weeks of gestation in women who were previously normotensive	<i>Pre-pregnancy</i> Sports and exercise (quartiles)	1.0 (reference) 0.7 (0.2–2.0) 0.6 (0.2–1.8) 1.0 (0.4–2.5) <i>P trend</i> = 0.90	Parity and income
					<i>During pregnancy</i> Sports and exercise (quartiles)	1.0 (reference) 1.3 (0.5–3.5) 0.6 (0.2–2.1) 0.4 (0.1–1.6) <i>P trend</i> = 0.10	BMI and pre-pregnancy physical activity.
Rudra, 2008 (23)	Cohort study. USA, 1996–2003	7	2,241 women with the following ethnicity: 85 % non-hispanic white 3 % non-hispanic black 3 % Hispanic 7 % Asian/ Pacific islanders 0.5 % Native American 111 (5.0 %)	Systolic blood pressure ≥ 140 and/or diastolic blood pressure ≥ 90 combined with 24 hours urine collection of ≥ 300mg protein after 20 weeks of gestation.	<i>Pre-pregnancy</i> Recreational physical activity, hours weekly 0 0.01–2.49 2.50–7.00 >7.00 <i>During pregnancy</i> Recreational physical activity, hours weekly: 0 0.01–2.49 2.50–7.00 >7.00	1.00 (reference) 0.53 (0.26–1.07) 0.50 (0.27–1.03) 0.63 (0.31–1.26)	Age, parity, race/ethnicity, level of education, employment, pre-pregnancy hypertension and pre-pregnancy BMI
						1.00 (reference) 1.23 (0.72–2.08) 0.95 (0.52–1.75) 0.96 (0.52–1.76)	Age, parity, race/ethnicity, level of education, employment, pre-pregnancy hypertension and pre-pregnancy BMI

Table 3 continued

Author and year	Design, setting and period of data collecting	NOS* (max = 9)	Participants and number of women with pre-eclampsia	Definition of pre-eclampsia	Measure of leisure time physical activity	Adjusted risk (RR/OR 95 %CI)	Adjustments
Satlas, 2004 (32)	Case-control study. USA, 1988–1991	6	Singleton births, English speaking, non insulin dependent diabetes mellitus, no chronic hypertension 44 cases, 2,422 controls	Blood pressure $\geq 140/90$ mmHg $\geq$ two times after 20 weeks of gestation and proteinuria defined as ≥ 2 dipstick readings/catheter samples of 2+ or greater, or 24 hours urine collection of ≥ 300 mg protein	Sports or exercise at least once per week one year prior to pregnancy until 16 weeks of pregnancy Before no/during no Before yes/during no Before no/during yes Before yes/during yes LTPA (calories/week) No LTPA Least active (<800) Moderately active ($800-1,750$) Most active (≥ 1750)	1.00 (reference) 1.12 (0.48–2.61) 0.56 (0.12–2.56) 0.71 (0.32–1.56) 1.00 (reference) 0.62 (0.25–1.55) 0.59 (0.24–1.48) 0.76 (0.33–1.75)	BMI, education level, parity, and abortion history
Sorensen, 2003 (30)	Case-control study. USA, 1998–2001	7	70 % non-hispanic white 10 % African American 20 % other 201 cases, 383 controls	Blood pressure $\geq 140/90$ mmHg after 20 weeks of gestation and 24 hours urine collection of ≥ 300 mg protein	The year before pregnancy: Any physical activity No Yes Hours spent performing sports, hours weekly 0 0.1–2.2 2.3–4.3 4.4–7.3 >7.3 Maximum intensity of physical activity Not active 3.0–5.9 ≥ 6.0	1.00 (reference) 0.67 (0.42–1.08) 1.00 (reference) 0.71 (0.40–1.25) 0.66 (0.36–1.22) 0.56 (0.30–1.05) 0.64 (0.35–1.16) 1.00 (reference) 0.95 (0.57–1.58) 0.40 (0.23–0.69)	Maternal age, race/ethnicity, parity, smoking and prepregnancy BMI

Table 3 continued

Author and year	Design, setting and period of data collecting	NOS* (max = 9)	Participants and number of women with pre-eclampsia	Definition of pre-eclampsia	Measure of leisure time physical activity	Adjusted risk (RR/OR 95 %CI)	Adjustments
					<i>The first 20 weeks of pregnancy:</i>		
					Hours spent performing sports, hours weekly		
					0	1.00 (reference)	
					0.1–2.1	0.82 (0.47–1.45)	
					2.2–3.7	0.77 (0.44–1.38)	
					3.8–6.7	0.32 (0.56–0.66)	
					>6.7	0.56 (0.31–1.03)	
					Maximum intensity of physical activity		
					Not active	1.00 (reference)	
					Light/moderate	0.76 (0.48–1.20)	
					Vigorous	0.46 (0.27–0.79)	