



Yarmolinsky, J., Mueller, N. T., Duncan, B. B., Chor, D., Bensenor, I. M., Griep, R. H., ... Schmidt, M. I. (2016). Sex-specific associations of low birth weight with adult-onset diabetes and measures of glucose homeostasis: Brazilian Longitudinal Study of Adult Health. *Scientific Reports*, 6, [37032]. DOI: 10.1038/srep37032

Publisher's PDF, also known as Version of record

License (if available):
CC BY

Link to published version (if available):
[10.1038/srep37032](https://doi.org/10.1038/srep37032)

[Link to publication record in Explore Bristol Research](#)
PDF-document

This is the final published version of the article (version of record). It first appeared online via Nature at <https://www.nature.com/articles/srep37032>. Please refer to any applicable terms of use of the publisher.

University of Bristol - Explore Bristol Research

General rights

This document is made available in accordance with publisher policies. Please cite only the published version using the reference above. Full terms of use are available:
<http://www.bristol.ac.uk/pure/about/ebr-terms.html>

Sex-specific associations of low birth weight with adult-onset diabetes and measures of glucose homeostasis: Brazilian Longitudinal Study of Adult Health

James Yarmolinsky, Noel T Mueller, Bruce B Duncan, Dóra Chor, Isabela M Bensenor, Rosane H Griep, Lawrence J Appel, Sandhi M Barreto, Maria Inês Schmidt

Supplemental Table S1. Multivariable adjusted prevalence ratios (and 95% confidence intervals) for the association of birth weight categories with adult-onset diabetes, stratified by sex and maternal diabetes, among participants with a precise birth weight estimate: ELSA-Brasil

	Birth weight categories			<i>P</i> -value
	< 2.5 kg	≥ 2.5, ≤ 4 kg	> 4 kg	
Men				
<i>n</i>	433	2308	425	
Cases	114	459	82	
Model 1	1.20 (1.00-1.43)	1 (reference)	.97 (.79-1.19)	.15
Model 2	1.06 (.89-1.27)	1 (reference)	.92 (.75-1.12)	.50
Model 3 [†]	1.12 (.93-1.33)	1 (reference)	.83 (.68-1.02)	.06
Women				
<i>n</i>	580	2841	306	
Cases	136	376	45	
Model 1	1.64 (1.38-1.95)	1 (reference)	1.06 (.81-1.40)	<.0001
Model 2	1.54 (1.29-1.82)	1 (reference)	1.01 (.77-1.33)	<.0001
Model 3 [†]	1.54 (1.30-1.82)	1 (reference)	.88 (.68-1.15)	<.0001
Maternal diabetes				
<i>n</i>	213	967	200	
Cases	91	213	47	
Model 1	1.76 (1.45-2.13)	1 (reference)	.96 (.73-1.26)	<.0001
Model 2 [‡]	1.74 (1.42-2.12)	1 (reference)	.96 (.74-1.26)	<.0001
Model 3	1.75 (1.44-2.14)	1 (reference)	.86 (.66-1.13)	<.0001
No maternal diabetes				
<i>n</i>	800	4182	531	
Cases	159	622	80	
Model 1	1.22 (1.05-1.43)	1 (reference)	.97 (.79-1.19)	.05
Model 2 [‡]	1.11 (.95-1.30)	1 (reference)	.98 (.80-1.20)	.41
Model 3	1.15 (.98-1.34)	1 (reference)	.85 (.69-1.05)	.05

Model 1: adjusted for age, study center; Model 2: + race/color, maternal education, father diagnosed with diabetes; Model 3: + BMI at baseline. [†] Further adjusted for mother diagnosed with diabetes. [‡] Further adjusted for sex. *P*-value represents the test for an overall association of the different categories of estimated birth weight with diabetes

Supplemental Table S2. Multivariable adjusted prevalence ratios (and 95% confidence intervals) for the association of birth weight categories with adult-onset diabetes, stratified by sex and maternal diabetes, excluding pre-term births: ELSA-Brasil

	Birth weight categories			<i>P</i> -value
	< 2.5 kg	≥ 2.5, ≤ 4 kg	> 4 kg	
Men				
<i>n</i>	302	4537	535	
Cases	79	1012	104	
Model 1	1.14 (.94-1.38)	1 (reference)	.91 (.77-1.09)	.22
Model 2	1.07 (.89-1.29)	1 (reference)	.89 (.75-1.06)	.30
Model 3 [†]	1.10 (.91-1.34)	1 (reference)	.81 (.68-.96)	.02
Women				
<i>n</i>	374	5740	395	
Cases	96	846	56	
Model 1	1.73 (1.45-2.07)	1 (reference)	.99 (.78-1.26)	<.0001
Model 2	1.62 (1.35-1.92)	1 (reference)	.96 (.76-1.22)	<.0001
Model 3 [†]	1.60 (1.34-1.90)	1 (reference)	.82 (.65-1.03)	<.0001
Maternal diabetes				
<i>n</i>	148	1995	250	
Cases	60	498	57	
Model 1	1.59 (1.30-1.94)	1 (reference)	.88 (.70-1.12)	.0006
Model 2 [‡]	1.55 (1.26-1.90)	1 (reference)	.90 (.71-1.14)	.002
Model 3	1.54 (1.25-1.89)	1 (reference)	.82 (.65-1.03)	.0004
No maternal diabetes				
<i>n</i>	528	8282	680	
Cases	115	1360	103	
Model 1	1.30 (1.10-1.53)	1 (reference)	.92 (.77-1.10)	.01
Model 2 [‡]	1.21 (1.03-1.43)	1 (reference)	.93 (.78-1.11)	.07
Model 3	1.24 (1.04-1.47)	1 (reference)	.81 (.68-.97)	.002

Model 1: adjusted for age, study center; Model 2: + race/color, maternal education, father diagnosed with diabetes; Model 3: + BMI at baseline. [†] Further adjusted for mother diagnosed with diabetes. [‡] Further adjusted for sex. *P*-value represents the test for an overall association of the different categories of estimated birth weight with diabetes