Hindawi Oxidative Medicine and Cellular Longevity Volume 2017, Article ID 7543194, 4 pages https://doi.org/10.1155/2017/7543194



Corrigendum

Corrigendum to "Association of Nuclear Factor-Erythroid 2-Related Factor 2, Thioredoxin Interacting Protein, and Heme Oxygenase-1 Gene Polymorphisms with Diabetes and Obesity in Mexican Patients"

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Received 20 February 2017; Accepted 28 February 2017; Published 30 May 2017

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In the article titled "Association of Nuclear Factor-Erythroid 2-Related Factor 2, Thioredoxin Interacting Protein, and Heme Oxygenase-1 Gene Polymorphisms with Diabetes and Obesity in Mexican Patients," [1] typing errors were found after subsequent analyses of the entire dataset. These issues were raised to the attention of the original authors by Drs. Meza-Espinoza, Leal-Ugarte, and Peralta-Leal of the Universidad Autónoma de Tamaulipas. The allelic frequencies were added and the corrected data are shown in italics in Tables 2, 3, and 4.

It is important to remark that the model (recessive for allele T, Table 4) was calculated taking in count that CC + CT = 0. When CC is considered as the risk allele the OR increases to 2.4 (CI: 1.28-4.64, P=0.006) under a dominant model (CC + CT = 1 versus TT = 0). This reveals that the

TT genotype in this study shows a protective factor against obesity and the genotype CC could be considered as the risk factor for obesity, as was stated in the original article.

The last paragraph of Section 3 should be "CC carriers had higher glucose levels in comparison with CA + AA carriers when genotype was compared as dominant model."

Finally, in Section 4 (Discussion) when Wang et al. [7] is cited, the correct statement is the following:

"Individuals with CC genotype had lower total antioxidant capacity, glutathione levels, superoxide dismutase, catalase, and glutathione peroxidase activities as well as lower homeostasis model assessment of β -cell function index (HOMA- β) in comparison with individuals with the AA genotype."

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Table 2: Genotype and allele frequencies of the polymorphisms studied in diabetic patients and controls.

Gene/polymorphism	Genotypes	Diabetes n (%)	Controls n (%)	OR (95% CI)	P	P of HWE
	Alleles					
	CC	345 (55.4)	528 (54.5)	Reference		
TXNIP rs7211	CT	239 (38.4)	376 (38.8)	0.97 (0.78–1.2)	0.798	
	TT	39 (6.2)	65 (6.7)	0.92 (0.60–1.39)	0.690	0.880
	C	939 (74.6)	1432 (73.9)	Reference		
	T	317 (25.4)	506 (26.1)	0.966 (1.82–1.37)	0.674	
	CC	216 (34.7)	327 (33)	Reference		
	CT	288 (46.2)	483 (48.6)	0.90 (0.7-1.1)	0.373	
NQO1	TT	119 (19.1)	183 (18.4)	0.98 (0.7-1.3)	0.915	0.406
rs1800566	C	720 (57.8)	1137 (57.25)	Reference		
	T	526 (42.2)	849 (42.75)	0.98 (0.85–1.13)	0.765	
HMOX-1 rs2071749	AA	269 (43.8)	413 (43.2)	Reference		0.625
	AG	267 (43.5)	417 (43.6)	0.98 (0.79–1.2)	0.877	
	GG	78 (12.7)	126 (13.2)	0.95 (0.69–1.3)	0.757	
	A	805 (65.5)	1243 (65)	Reference		
	G	423 (34.5)	669 (35)	0.97 (0.84–1.13)	0.755	
NRF2 rs2364723	CC	210 (33.6)	301 (30.3)	Reference		
	CG	286 (45.7)	471 (47.5)	0.87 (0.7-1.1)	0.236	
	GG	129 (20.6)	220 (22.2)	0.84 (0.63–1.1)	0.223	0.092
	C	706 (56.5)	1073 (54)	Reference		
	G	544 (43.5)	911 (46)	0.91 (0.79–1.05)	0.182	
NRF2 rs6721961	CC	407 (65.3)	618 (62.5)	Reference		
	CA	189 (30.4)	317 (32)	0.90 (0.7-1.1)	0.374	
	AA	27 (4.3)	54 (5.5)	0.76 (0.5-1.2)	0.259	0.281
	C	1003 (80.5)	1553 (78.5)	Reference		
	A	243 (19.5)	425 (21.5)	0.88 (0.74–1.05)	0.176	

CI, confidence interval; HWE, Hardy-Weinberg equilibrium; HMOX-1, heme oxygenase 1; NQO1, NAD(P)H quinone oxidoreductase 1; NRF2, nuclear factor-erythroid 2- (NF-E2-) related factor 2; OR, odds ratio; and TXNIP, thioredoxin-interacting protein.

Table 3: Genotype and allele frequencies of the polymorphisms studied in obese and nonobese subjects.

Gene/polymorphism	Genotype	Obesity	No obesity	OR (95% CI)	P
	Alleles	n (%)	n (%)	OR (93% CI)	1
	CC	350 (56.6)	523 (53.7)	Reference	
TRXNIP rs7211	CT	239 (38.7)	376 (38.6)	0.95 (0.77–1.17)	0.633
	TT	29 (4.7)	75 (7.7)	0.57 (0.37-0.9)	0.017
	C	239 (76)	1422 (73)	Reference	
	T	297 (24)	526 (27)	0.85 (0.72-1)	0.061
	CC	212 (34.2)	331 (33.3)	Reference	
	CT	302 (48.8)	469 (47)	1 (0.8–1.25)	0.963
NQ01	TT	106 (17)	196 (19.7)	0.84 (0.6-1.1)	0.257
rs1800566	C	726 (58.5)	1131 (56.8)	Reference	
	T	514 (41.5)	561 (43.2)	0.93 (0.8–1.07)	0.322
	AA	261 (40)	419 (45.7)	Reference	
HMOX-1 rs2071749	AG	305 (46.9)	378 (41.3)	1.3 (1–1.6)	0.019
	GG	85 (13.1)	119 (13)	1.1 (0.8–1.5)	0.399
	G	827 (63.5)	1216 (66.4)	Reference	
	A	475 (36.5)	616 (36.6)	1.13 (0.97–1.31)	0.097
	CC	194 (31)	317 (32)	Reference	
	CG	300 (48)	457 (46)	1.1 (0.85–1.35)	0.551
NRF2	GG	131 (21)	218 (22)	0.98 (0.7-1.3)	0.899
rs2364723	C	688 (55)	1091 (55)	Reference	
	G	562 (45)	893 (45)	0.99 (0.86–1.15)	0.699
NRF2 rs6721961	CC	390 (63.1)	635 (63.9)	Reference	
	CA	195 (31.6)	311 (31.3)	1 (0.8–1.3)	0.853
	AA	33 (5.3)	48 (4.8)	1.1 (0.7–1.7)	0.631
	C	975 (78.9)	1581 (79.5)	Reference	
	A	261 (21.1)	407 (20.5)	1.04 (0.87–1.23)	0.661

TXNIP, thioredoxin-interacting protein; NQO1, NAD(P)H quinone oxidoreductase 1; HMOX-1, heme oxygenase 1; NRF2, nuclear factor-erythroid 2- (NF-E2-) related factor 2.

Table 4: Genotype frequency of the rs7211 polymorphism in subjects without diabetes and women.

	Obese	Nonobese	Crude OR (95% CI)	P	Adjusted ^a OR (95% CI)	P
Nondiabetic						
CC	189 (56.6)	339 (53.4)	Reference		Reference	
CT	133 (39.8)	243 (38.3)	0.98 (0.75-1.3)	0.896	1 (0.77-1.4)	0.863
TT	12 (3.6)	53 (8.3)	0.4 (0.21-0.77)	0.007	0.3 (0.15-0.7)	0.003
CC + CT = 0 versus $TT = 1$	322 (96.4)	582 (91.5)	0.4 (0.21-0.76)	0.006	0.39 (0.18-0.8)	0.014
Women						
CC	197 (59)	259 (51)	Reference	Reference		
CT	118 (36)	203 (40)	0.7 (0.6-1)	0.072	0.9 (0.6-1.2)	0.418
TT	17 (5)	47 (9)	0.5 (0.26-0.85)	0.013	0.5 (0.25-0.96)	0.04
CT + TT	135 (41)	250 (49)	0.70 (0.5-0.9)	0.016	0.7 (0.5-0.96)	0.028

CI, confidence interval; OR, odds ratio.

^aObesity in logistic regression was adjusted by age, gender (except in women model), glucose, triglycerides, LDL-C, and HDL-C levels.

References

[1] A. S. Jiménez-Osorio, S. González-Reyes, W. R. García-Niño et al., "Association of nuclear factor-erythroid 2-related factor 2, thioredoxin interacting protein, and heme oxygenase-1 gene polymorphisms with diabetes and obesity in Mexican patients," *Oxidative Medicine and Cellular Longevity*, vol. 2016, Article ID 7367641, 8 pages, 2016.

















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