

**Appendix Table. Multivariable-adjusted associations of serum magnesium levels (quintiles) with inflammatory markers and homeostasis model assessment of insulin resistance**

	Quintiles of serum magnesium levels					P for trend
	1 (lowest)	2	3	4	5 (highest)	
<b>Hs-CRP (n = 3,144)</b>						
Median (mg/l)	1.67	1.15	1.07	0.99	0.96	
Model 1	0	-0.221 (-0.355, -0.087)	-0.251 (-0.391, -0.112)	-0.252 (-0.388, -0.116)	-0.227 (-0.365, -0.089)	<0.01
Model 2	0	-0.185 (-0.303, -0.068)	-0.152 (-0.275, -0.030)	-0.135 (-0.255, -0.016)	-0.162 (-0.283, -0.041)	0.02
Model 3	0	-0.187 (-0.304, -0.070)	-0.168 (-0.290, -0.046)	-0.141 (-0.260, -0.021)	-0.167 (-0.288, -0.046)	0.01
<b>IL-6 (n = 3,144)</b>						
Median (pg/ml)	2.11	1.84	1.65	1.58	1.58	
Model 1	0	-0.008 (-0.096, 0.081)	-0.101 (-0.192, -0.009)	-0.080 (-0.169, 0.010)	-0.096 (-0.187, -0.005)	0.01
Model 2	0	0.012 (-0.071, 0.096)	-0.042 (-0.128, 0.045)	-0.014 (-0.099, 0.071)	-0.065 (-0.151, 0.021)	0.12
Model 3	0	0.015 (-0.069, 0.098)	-0.045 (-0.132, 0.042)	-0.013 (-0.098, 0.072)	-0.065 (-0.151, 0.021)	0.12
<b>Fibrinogen (n = 3,109)</b>						
Median(mg/dl)	408	390	391	385	394	
Model 1	0	-0.017 (-0.040, 0.007)	-0.021 (-0.046, 0.003)	-0.018 (-0.042, 0.005)	0.012 (-0.012, 0.036)	0.56
Model 2	0	-0.009 (-0.031, 0.012)	-0.007 (-0.030, 0.015)	-0.004 (-0.026, 0.018)	0.021 (-0.002, 0.043)	0.10
Model 3	0	-0.010 (-0.032, 0.012)	-0.008 (-0.031, 0.015)	-0.004 (-0.026, 0.018)	0.020 (-0.003, 0.042)	0.11
<b>HOMA-IR (n = 3,145)</b>						
Median	3.56	3.01	3.00	3.04	3.07	
Model 1	0	-0.182 (-0.251, -0.113)	-0.173 (-0.244, -0.101)	-0.169 (-0.239, -0.099)	-0.174 (-0.245, -0.103)	<0.01
Model 2	0	-0.163 (-0.221, -0.104)	-0.127 (-0.188, -0.067)	-0.104 (-0.163, -0.045)	-0.149 (-0.209, -0.090)	<0.01
Model 3	0	-0.163 (-0.221, -0.105)	-0.133 (-0.193, -0.072)	-0.106 (-0.165, -0.047)	-0.151 (-0.211, -0.091)	<0.01

Data are  $\beta$  coefficients (95% CIs). A logarithmic transformation was used to improve the normality of distribution for dependent variables. General linear regression model was used. The median magnesium level in each quintile was created for the trend tests. The adjusted covariates in the models were the same as those listed in Table 2.