Supplementary Table S6. Association between serum cytokine levels and lung cancer among European Americans from NCI-MD and PLCO studies, by smoking status

	OR (95% CI) ^D NCI-MD PLCO					
	Never smokers	Former smokers	Current smokers	Never smokers	Former smokers	Current smokers
Cytokine level ^a	(N = 86/22)	(N = 150/121)	(N = 59/127)	(N = 105/37)	(N = 286/291)	(N = 203/204)
IL-1β						
First quartile Second quartile Third quartile Fourth quartile P_{trend}^{c}	1.00 (reference) 1.19 (0.23-6.24) 2.64 (0.62-11.15) 1.94 (0.40-9.42) 0.23	1.00 (reference) 0.81 (0.41-1.57) 1.05 (0.56-1.98) 0.72 (0.37-1.43) 0.57	1.00 (reference) 0.96 (0.34-2.76) 0.91 (0.36-2.26) 0.71 (0.29-1.71) 0.41	1.00 (reference) 0.99 (0.28-3.46) 0.65 (0.18-2.32) 1.40 (0.43-4.54) 0.66	1.00 (reference) 1.34 (0.79-2.27) 1.64 (0.96-2.79) 1.33 (0.79-2.26) 0.32	1.00 (reference) 1.13 (0.58-2.20) 1.13 (0.59-2.17) 0.84 (0.42-1.69) 0.54
L-6						
First quartile Second quartile Third quartile Fourth quartile P_{trend}°	1.00 (reference) 1.77 (0.27-11.60) 4.94 (0.85-28.58) 13.18 (2.53-68.61) <0.001	1.00 (reference) 1.16 (0.48-2.83) 2.44 (1.09-5.43) 4.66 (2.09-10.40) <0.001	1.00 (reference) 0.38 (0.10-1.44) 1.06 (0.31-3.59) 0.78 (0.25-2.44) 0.74	1.00 (reference) 1.15 (0.37-3.62) 1.62 (0.54-4.82) 1.47 (0.46-4.64) 0.40	1.00 (reference) 1.00 (0.61-1.61) 1.45 (0.87-2.37) 1.67 (1.05-2.66) 0.01	1.00 (reference) 1.34 (0.68-2.64) 1.03 (0.53-2.02) 1.26 (0.64-2.51) 0.82
L-8						
First quartile Second quartile Third quartile Fourth quartile P _{trend} ^c	1.00 (reference) 1.48 (0.12-17.54) 9.20 (1.03-82.35) 13.45 (1.54-117.19) 0.001	1.00 (reference) 1.51 (0.62-3.71) 2.55 (1.15-5.67) 2.03 (0.91-4.54) 0.05	1.00 (reference) 0.98 (0.32-3.06) 2.72 (0.94-7.85) 1.53 (0.56-4.14) 0.25	1.00 (reference) 1.00 (0.33-3.05) 1.29 (0.44-3.75) 0.76 (0.21-2.79) 0.91	1.00 (reference) 1.04 (0.62-1.72) 1.43 (0.87-2.36) 1.46 (0.90-2.38) 0.06	1.00 (reference) 0.90 (0.48-1.67) 1.46 (0.81-2.66) 2.08 (1.15-3.76) 0.004
First quartile Second quartile Third quartile Courth quartile Fourth	1.00 (reference) 0.70 (0.14-3.59) 1.68 (0.39-7.31) 2.56 (0.69-9.49) 0.08	1.00 (reference) 1.40 (0.69-2.84) 1.56 (0.79-3.08) 1.35 (0.66-2.76) 0.41	1.00 (reference) 1.22 (0.45-3.32) 1.26 (0.48-3.29) 1.32 (0.52-3.32) 0.59	N.D.	N.D.	N.D.
TNFα						
First quartile Second quartile Third quartile Fourth quartile	1.00 (reference) 0.90 (0.18-4.63) 3.09 (0.67-14.20) 2.87 (0.61-13.53)	1.00 (reference) 1.97 (0.91-4.25) 1.64 (0.79-3.40) 1.90 (0.91-3.95)	1.00 (reference) 1.20 (0.45-3.23) 0.75 (0.29-1.95) 1.34 (0.51-3.50)	1.00 (reference) 0.95 (0.29-3.10) 0.74 (0.21-2.62) 1.42 (0.41-4.92)	1.00 (reference) 0.95 (0.58-1.57) 1.09 (0.66-1.79) 1.80 (1.09-2.96)	1.00 (reference) 0.96 (0.54-1.69) 1.07 (0.58-1.95) 1.05 (0.57-1.92)

 P_{trend}^{c} 0.06 0.19 0.71 0.64 0.01 0.81

Abbreviations: NCI-MD, National Cancer Institute-Maryland; OR, odds ratio; CI, confidence interval; IL, interleukin; GMCSF, granulocyte-macrophage colony-stimulating factor; IFN, interferon; TNF, tumor necrosis factor.

^aQuartiles were based on serum cytokine cut-off levels among controls within each study.

bMultivariate unconditional logistic regression analysis adjusted for age (continuous), sex, smoking pack-years (continuous), smoking status (never, former quit ≤15 years, former quit >15 years, and current).

 $^{^{\}circ}P$ values were calculated using a two-sided Wald χ^2 statistic.