

**Table 3.** Associations between NO<sub>2</sub> and O<sub>3</sub> short-term exposure and RA disease activity.

NO <sub>2</sub> lag	DAS28-CRP		SDAI	
	Estimate (SE)	P-value	Estimate (SE)	P-value
Day 0	-0.027 (0.013)	0.038*	-0.065 (0.037)	0.085
Day -1	-0.041 (0.014)	0.004*	-0.069 (0.040)	0.088
Day -2	-0.019 (0.014)	0.170	-0.031 (0.040)	0.444
Day -3	-0.009 (0.013)	0.521	0.003 (0.038)	0.933
Day -4	-0.019 (0.013)	0.149	-0.014 (0.037)	0.704
Day -5	-0.014 (0.014)	0.295	-0.011 (0.038)	0.780
Day -6	-0.016 (0.014)	0.243	-0.019 (0.039)	0.631
Day -7	-0.015 (0.014)	0.273	-0.018 (0.038)	0.637
Week -1	-0.027 (0.016)	0.083	-0.038 (0.045)	0.398
<b>O<sub>3</sub> Lag</b>				
Day 0	0.110 (0.070)	0.124*	0.320 (0.200)	0.108
Day -1	0.018 (0.007)	0.011**	0.043 (0.020)	0.031**
Day -2	0.010 (0.007)	0.132*	0.026 (0.019)	0.166*
Day -3	0.010 (0.006)	0.123*	0.019 (0.018)	0.284*
Day -4	0.009 (0.007)	0.169	0.012 (0.019)	0.508
Day -5	0.016 (0.007)	0.014*	0.031 (0.019)	0.099
Day -6	0.009 (0.007)	0.194*	0.017 (0.020)	0.410
Day -7	0.009 (0.007)	0.247*	0.008 (0.021)	0.708
Week -1	0.015 (0.007)	0.051*	0.033 (0.021)	0.120

Multivariate model adjusted for radiographic damage, smoking status, seropositivity, therapy, steroid, age at visit, disease duration and therapy.  $\beta$  coefficients are reported for 10  $\mu\text{g}/\text{m}^3$  increments in NO<sub>2</sub> and O<sub>3</sub>. Est.: estimate; SE: standard error; DAS28-CRP: Disease Activity Score in 28 joints using C-reactive protein; SDAI: Simplified disease activity index. \*Statistically significant influence of therapy on the interaction between NO<sub>2</sub> and O<sub>3</sub> and disease activity.