

**Table S1.** Spearman correlation coefficients for OBS and biomarkers of inflammation (IL-6, IL-8, IL-10, fibrinogen, CRP, WBC count, and Cys C), and between biomarkers of inflammation in the REGARDS cohort weighted random sample.

	<b>OBS</b> Corr. p-value	<b>IL-6</b> Corr. p-value	<b>IL-8</b> Corr. p-value	<b>IL-10</b> Corr. p-value	<b>Fibrin- ogen</b> Corr. p-value	<b>CRP</b> Corr. p-value	<b>WBC count</b> Corr. p-value	<b>Cys C</b> Corr. p-value
<b>OBS</b>	--							
<b>IL-6</b>	-0.08 0.04	--						
<b>IL-8</b>	-0.01 0.9	0.23 <0.001	--					
<b>IL-10</b>	0.00 0.9	0.19 <0.001	0.18 <0.001	--				
<b>Fibrinogen</b>	-0.03 0.5	0.42 <0.001	0.06 0.2	-0.01 0.8	--			
<b>CRP</b>	-0.09 0.02	0.50 <0.001	0.04 0.3	0.02 0.5	0.51 <0.001	--		
<b>WBC count</b>	-0.06 0.2	0.25 <0.001	0.01 0.9	0.06 0.2	0.20 <0.001	0.24 <0.001	--	
<b>Cys C</b>	0.01 0.7	0.41 <0.001	0.21 <0.001	0.21 <0.001	0.22 <0.001	0.20 <0.001	0.17 <0.001	--

OBS oxidative balance score; IL Interleukin; CRP C-reactive protein; WBC white blood cell; Cys C Cystatin C; Corr. correlation

**Table S2.** Unadjusted models showing the association between OBS (continuous and interval) and biomarkers of inflammation<sup>a</sup> in the REGARDS cohort weighted random sample (N=682).

	<b>IL-6</b>	<b>IL-8</b>	<b>IL-10</b>	<b>Fibrinogen</b>	<b>CRP</b>	<b>WBC count</b>	<b>Cys C</b>
OBS <sup>b</sup>	-11.7	-2.9	2.7	-1.7	-20.5	-2.8	-0.7
95% CI	-17.0, -6.2	-8.6, 3.3	-6.8, 13.0	-4.2, 0.9	-29.8, -9.9	-6.6, 1.0	-3.2, 2.0
p-value	<0.001	0.4	0.6	0.2	<0.001	0.2	0.5
<b>OBS</b>							
Interval 1 <sup>c</sup>	--	--	--	--	--	--	--
Interval 2 <sup>c</sup>	-3.9	3.1	35.5	1.9	-44.6 *	-14.1	1.3
95% CI	-26.0, 24.7	-20.7, 34.1	-10.1, 104.3	-8.8, 13.9	-67.7, -5.2	-26.4, 0.3	-9.5, 13.4
Interval 3 <sup>c</sup>	-15.0	-0.5	47.5	-2.7	-50.9 *	-17.1 *	0.5
95% CI	-34.0, 9.6	-23.0, 28.5	-1.1, 120.0	-12.6, 8.5	-70.9, -17.1	-28.7, -3.6	-10.0, 12.1
Interval 4 <sup>c</sup>	-22.0	2.8	32.5	-3.3	-58.6 *	-14.2	-0.1
95% CI	-39.7, 0.9	-20.7, 33.3	-11.6, 98.7	-13.3, 7.9	-75.7, -29.7	-26.4, 0.0	-10.6, 11.6
Interval 5 <sup>c</sup>	-27.6 *	-12.0	44.6	0.2	-57.1 *	-20.9 *	-4.6
95% CI	-47.0, -1.3	-35.6, 20.4	-11.3, 135.7	-12.1, 14.3	-77.3, -19.0	-34.4, -4.5	-16.5, 9.0
p-trend	<0.001	0.6	0.7	0.2	0.001	0.2	0.3

OBS oxidative balance score; IL Interleukin; CRP C-reactive protein; WBC white blood cell; Cys C Cystatin C; CI confidence interval

<sup>a</sup> Natural log transformed

<sup>b</sup> Estimates represent percent difference per 5-unit change in OBS

<sup>c</sup> Interval 1: OBS 0-5; Interval 2: OBS 6-9; Interval 3: OBS 10-13; Interval 4: OBS 14-17; and Interval 5: OBS 18-22

\* p-value <0.05 for interval

**Table S3.** Unadjusted models showing the association between OBS and biomarkers of inflammation<sup>a</sup>, stratified by CKD<sup>b</sup>, in the REGARDS cohort weighted random sample (N=682).

	<b>IL-6</b>	<b>IL-8</b>	<b>IL-10</b>	<b>Fibrinogen</b>	<b>CRP</b>	<b>WBC count</b>	<b>Cys C</b>
Interaction p-value <sup>c</sup>	<0.001	0.2	0.07	0.001	0.02	0.8	<0.001
<b>CKD (n=153)</b>							
OBS <sup>d</sup>	-0.1	6.6	-11.6	2.2	3.0	1.1	2.7
95% CI	-11.7, 13.1	-4.9, 19.5	-31.2, 13.6	-2.9, 7.7	-18.6, 30.3	-8.2, 11.3	-5.0, 11.1
p-value	0.9	0.3	0.3	0.4	0.8	0.8	0.5
<b>OBS</b>							
Interval 1 <sup>e</sup>	--	--	--	--	--	--	--
Interval 2 <sup>e</sup>	-16.6	1.5	-8.5	-10.6	-41.9	-13.1	-30.1
95% CI	-53.8, 50.8	-41.1, 74.8	-72.0, 198.5	-29.7, 13.8	-81.0, 77.4	-40.8, 27.6	-51.7, 1.0
Interval 3 <sup>e</sup>	-20.5	1.5	32.9	-11.4	-46.0	-24.7	-26.3
95% CI	-55.5, 41.9	-40.3, 72.5	-58.1, 321.4	-30.0, 12.0	-81.8, 60.4	-47.9, 8.8	-48.6, 5.6
Interval 4 <sup>e</sup>	-26.1	13.5	-11.8	-11.3	-47.2	-7.2	-22.7
95% CI	-58.7, 32.1	-33.4, 93.4	-72.4, 181.2	-30.0, 12.3	-82.3, 57.8	-36.2, 34.8	-46.2, 11.0
Interval 5 <sup>e</sup>	-0.8	24.8	-14.1	8.9	-20.2	-18.5	-27.6
95% CI	-50.5, 98.9	-34.6, 138.0	-78.9, 249.8	-18.1, 44.9	-78.8, 200.5	-49.1, 30.7	-53.3, 12.2
p for trend	0.5	0.2	0.5	0.6	0.7	0.6	0.7
<b>No CKD (n=529)</b>							
OBS <sup>d</sup>	-14.5	-5.1	5.2	-2.7	-25.1	-3.8	-2.0
95% CI	-20.2, -8.5	-11.5, 1.9	-5.1, 16.6	-5.5, 0.2	-35.2, -13.6	-7.9, 0.4	-4.2, 0.2
p-value	<0.001	0.2	0.3	0.06	<0.001	0.07	0.07
<b>OBS</b>							
Interval 1 <sup>e</sup>	--	--	--	--	--	--	--
Interval 2 <sup>e</sup>	-2.6	3.2	43.6	3.9	-45.4	-14.1	6.8
95% CI	-26.9, 29.6	-23.4, 39.0	-6.6, 121.0	-8.2, 17.5	-70.3, 0.4	-27.4, 1.7	-2.7, 17.2
Interval 3 <sup>e</sup>	-15.3	-1.4	46.1	-1.7	-52.3 *	-15.4 *	3.9
95% CI	-35.9, 12.0	-26.3, 31.9	-4.0, 122.3	-12.9, 10.9	-73.7, -13.6	-28.2, -0.3	-5.1, 13.8
Interval 4 <sup>e</sup>	-23.4	-0.4	40.1	-2.7	-61.6 *	-16.1 *	3.9
95% CI	-42.3, 1.6	-25.8, 33.8	-8.5, 114.6	-13.9, 9.9	-79.0, -29.9	-29.0, -0.8	-7.7, 10.9
Interval 5 <sup>e</sup>	-32.3 *	-17.2	57.2	-1.3	-61.3 *	-21.2 *	-0.5
95% CI	-51.9, -4.7	-41.9, 18.2	-5.9, 162.4	-14.6, 14.2	-81.2, -20.6	-35.7, -3.4	-10.8, 11.0
p-trend	<0.001	0.3	0.5	0.09	0.001	0.08	0.03

OBS oxidative balance score; IL Interleukin; CRP C-reactive protein; WBC white blood cell; Cys C Cystatin C; CKD chronic kidney disease; CI confidence interval

<sup>a</sup> Natural log transformed

<sup>b</sup> CKD at baseline was defined as eGFR<60 ml/min/1.73m<sup>2</sup> or albuminuria ≥30 mg/g

<sup>c</sup> p-value for interaction based on continuous OBS

<sup>d</sup> Estimates represent percent difference per 5-unit change in OBS

<sup>e</sup> Interval 1: OBS 0-5; Interval 2: OBS 6-9; Interval 3: OBS 10-13; Interval 4: OBS 14-17; and Interval 5: OBS 18-22

\* p-value <0.05 for interval