

**Supplementary Table 4.** Lipid-adjusted serum concentrations of persistent organic pollutants according to the duration of leisure-time physical activity after excluding subjects with the missing values

Variable	Model <sup>a</sup>	Daily duration of leisure-time moderate to vigorous physical activity, min/day					<i>P</i> <sub>trend</sub>	<i>P</i> <sub>quadratic</sub>
		0	1 to <10	10 to <30	30 to <60	60≤		
No. of subjects		664	264	306	244	218		
ΣOCPs	1	427.4±15.4	362.7±20.2	321.2±16.6	338.6±19.6	324.4±20.0	<0.001	0.020
	2	424.5±15.5	365.1±20.3	321.8±16.7	334.9±19.6	323.6±20.0	<0.001	0.025
β-Hexachlorocyclohexane	1	9.4±0.4	7.5±0.4	7.4±0.4	7.3±0.4	7.2±0.5	<0.001	0.022
	2	9.3±0.4	7.6±0.4	7.4±0.4	7.4±0.5	7.2±0.5	<0.001	0.028
<i>p,p'</i> -DDT	1	348.4±13.8	301.2±18.4	260.7±14.8	279.2±17.7	265.2±17.9	<0.001	0.040
	2	346.2±13.9	303.1±18.5	260.9±14.9	275.4±17.7	264.0±17.9	<0.001	0.048
<i>p,p'</i> -DDT	1	8.5±0.3	7.3±0.4	6.6±0.3	6.7±0.4	6.7±0.4	<0.001	0.023
	2	8.4±0.3	7.3±0.4	6.5±0.3	6.5±0.4	6.6±0.4	<0.001	0.029
Oxychlorodane	1	9.7±0.3	9.1±0.4	9.2±0.3	8.8±0.4	9.7±0.4	0.280	0.062
	2	9.8±0.3	9.3±0.4	9.4±0.4	9.0±0.4	9.8±0.4	0.464	0.125
<i>Trans</i> -nonachlor	1	14.3±0.4	14.0±0.6	14.0±0.6	13.6±0.6	14.5±0.7	0.741	0.387
	2	14.5±0.4	14.2±0.6	14.4±0.6	13.9±0.6	14.7±0.7	0.904	0.534
Heptachlor epoxide	1	5.3±0.1	5.0±0.2	5.3±0.2	4.9±0.2	4.6±0.2	0.005	0.309
	2	5.3±0.1	5.1±0.2	5.3±0.2	5.0±0.2	4.6±0.2	0.011	0.172
No. of subjects		583	233	305	224	212		
ΣPCBs	1	89.8±2.3	90.2±3.6	97.2±3.4	99.2±4.0	105.2±4.4	<0.001	0.691
	2	90.0±2.3	90.5±3.5	98.2±3.4	99.0±4.0	104.8±4.4	<0.001	0.837

Values are presented as geometric mean ± standard error (ng/g of lipid).

ΣOCPs, sum of six OCPs (β-hexachlorocyclohexane, *p,p'*-DDE, *p,p'*-DDT, oxychlorodane, *trans*-nonachlor, and heptachlor epoxide); ΣPCBs, sum of 12 PCBs (PCB74, PCB99, PCB118, PCB138, PCB146, PCB153, PCB156, PCB170, PCB180, PCB187, 3,3',4,4',5-pentachlorobiphenyl, and 3,3',4,4',5,5'-hexachlorobiphenyl).

<sup>a</sup>Model 1: adjusted for age, sex, and race/ethnicity; Model 2: further adjustment for smoking status, body mass index, changes in weight over the past year, total calorie intake, dietary intake of total monounsaturated fatty acids, dietary intake of total polyunsaturated fatty acids, and dietary intake of total saturated fatty acids.