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Supplemental Material

Diabetes Prevalence in Relation to Serum Concentrations of Polychlorinated Biphenyl (PCB) Congener Groups and Three Chlorinated Pesticides in a Native American Population

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Table S1. Method Detection Limits of PCB Congeners and Pesticides

IUPAC#	Congenere structure	MDL(ppb)	%<MDL
1	2	0.15	100
3	4	0.04	94.5
4+2	2/2 +3	0.02	88.5
5	23	0.02	99.8
6	1	0.02	98.5
7	1	0.02	94
8	2/3.	0.02	78.9
9	25	0.02	96.8
13	4/4.	0.02	94.3
15	4/4.	0.03	90.3
17	24/2	0.03	91
18	25/2	0.02	72.2
19	26/2	0.03	89.9
22	23/4	0.01	94.3
24+27	236+26/3	0.02	88.5
25	24/3	0.01	93.7
26	25/3	0.03	89.9
28	24/4	0.02	51.7
29	2445	0.01	76.5
31	25/4	0.02	71
32+16	26/4+23/2	0.04	88.5
33	34/2	0.02	78.9
40	23/23	0.02	86.5
42	23/24	0.01	82.7
44	23/25	0.02	42.6
45	236/2	0.045	99.2
46	23/26	0.02	94
47+59	24/24+236/3	0.02	68.1
49	24/25	0.03	81.4
51	24/26	0.05	98
52	25/25	0.02	25.3
53	25/26	0.02	86.9
56	23/34	0.02	71
63	235/4	0.01	99.3
64	236/4	0.02	95.5
66	24/34	0.02	31.8

67	235/3	0.02	98.7
70	25/34	0.02	49.6
71	26/34	0.02	83.7
74	245/4	0.02	2.3
77	34/34	0.02	83.2
83	235/23	0.02	91.5
84	236/23	0.02	37.4
87	234/25	0.02	5.7
90+101	235/24+245/25	0.02	2.3
91	236/24	0.03	95.7
92	235/25	0.02	53.9
95	236/25	0.02	23.8
97	245/23	0.02	69.2
99	245/24	0.02	4.2
105	234/34	0.02	13.6
109+147	2346/3+2356/24	0.03	93.8
110	236/34	0.02	3.8
114	2345/4	0.02	40.1
118	245/34	0.02	0.2
123+149	345/24+236/245	0.02	31.3
128	234/234	0.02	69.9
129	2345/23	0.02	97.2
130	234/236	0.01	31.3
132	234/236	0.02	74.4
134	2356/23	0.01	82
136	236/236	0.03	77.7
137	2345/24	0.02	46.1
138+163+164	234/245+2356/34+236/345	0.02	0.3
141	2345/25	0.02	59.2
144	2346/25	0.02	81.2
146	235/245	0.02	8.2
151	2356/25	0.02	43.9
153	245/245	0.02	0.3
156	2345/34	0.02	16.1
158	2346/34	0.01	46.1
170	2345/234	0.02	5.7
171	2346/234	0.02	69.6
172	2345/235	0.02	42.3
174	2345/236	0.01	49.7

176	2346/236	0.01	87.4
177	2356/234	0.02	15.1
179	2356/236	0.01	80.9
180	2345/245	0.02	0.7
183	2346/245	0.01	12.3
185	23456/25	0.02	98.8
187	2356/245	0.02	2.7
190	23456/34	0.02	38.1
194	2345/2345	0.02	17.8
195	23456/234	0.02	55.1
196	2345/2346	0.01	18.3
199	2345/2356	0.01	5.3
200	23456/236	0.02	81.5
201	2346/2356	0.02	33.9
203	23456/245	0.02	21.5
206	23456/2345	0.02	37.8
HCB	HCB	0.02	1.5
DDE+85	DDE+234/34	0.02	0.2
Mirex	Mirex	0.02	16.1

Table S2. Pearson's correlation coefficients between PCBs, grouped by total number of chlorines in the molecule, and pesticides.

	Total PCBs	Total pesticides	Mono/ dichloro PCBs	Tri/tetrachloro PCBs	Penta/ hexachloro PCBs	Hepta/octa/nona/ decachloro PCBs	Non/monoortho PCBs	Dioxin-like PCBs TEQs	Non-dioxin-like mono-ortho PCBs	Di-ortho PCBs	Tri/tetra-ortho PCBs	HCB	DDE
Total pesticides	0.67 <.0001												
Mono/dichloro PCBs	0.04 0.35	0.00 0.94											
Tri/tetrachloro PCBs	0.85 <.0001	0.60 <.0001	0.18 <.0001										
Penta/hexachloro PCBs	0.98 <.0001	0.68 <.0001	0.00 0.92	0.85 <.0001									
Hepta/octa/nona/ decachloro PCBs	0.94 <.0001	0.58 <.0001	-0.01 0.80	0.67 <.0001	0.88 <.0001								
Non/monoortho PCBs	0.92 <.0001	0.67 <.0001	0.07 0.07	0.93 <.0001	0.94 <.0001	0.76 <.0001							
Dioxin-like PCBs TEQs	0.99 <.0001	0.65 <.0001	0.02 0.58	0.79 <.0001	0.97 <.0001	0.95 <.0001	0.87 <.0001						
Non-dioxin-like mono-ortho PCBs	0.93 <.0001	0.57 <.0001	0.02 0.64	0.70 <.0001	0.87 <.0001	0.98 <.0001	0.77 <.0001	0.92 <.0001					
Di-ortho PCBs	0.92 <.0001	0.67 <.0001	-0.01 0.7	0.87 <.0001	0.95 <.0001	0.77 <.0001	0.98 <.0001	0.87 <.0001	0.77 <.0001				
Tri/tetra-ortho PCBs	0.88 <.0001	0.64 <.0001	0.18 <.0001	0.97 <.0001	0.89 <.0001	0.71 <.0001	0.98 <.0001	0.83 <.0001	0.73 <.0001	0.92 <.0001			
HCB	0.68 <.0001	0.71 <.0001	-0.04 0.34	0.63 <.0001	0.68 <.0001	0.59 <.0001	0.68 <.0001	0.66 <.0001	0.57 <.0001	0.66 <.0001	0.67 <.0001		
DDE	0.64 <.0001	1.00 <.0001	-0.01 0.90	0.58 <.0001	0.66 <.0001	0.56 <.0001	0.65 <.0001	0.63 <.0001	0.54 <.0001	0.65 <.0001	0.62 <.0001	0.70 <.0001	
MIREX	0.77 <.0001	0.37 <.0001	0.06 0.16	0.60 <.0001	0.75 <.0001	0.75 <.0001	0.65 <.0001	0.78 <.0001	0.73 <.0001	0.66 <.0001	0.62 <.0001	0.40 <.0001	0.33 <.0001