Table 1. Number of Animals with Organ Weight Data

	Vehicle	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Co
F	20	23	18	21	20	20	20	20	20	19	20	20	20
M	20	23	18	21	20	20	20	20	20	18	20	20	20

Table 2. Reasons for Data Exclusion

Treatment Group	CID	Sex	Organ	Site	Comment (Initials and Date)[1]
8 BPA	21760300945	M	Fat Pad Epidid		Weight appears to be incorrect. LE SW 11-09-10
	21760300722	M	Fat Pad Retro		Incorrect weight. LE SW 09-29-10
80 BPA	21760300584	M	Kidney		Weight appears to be incorrect. SW 11-01-10
260 BPA	21760300521	M	Epididymis	Left	Weight appears to be incorrect. SW 11-01-10
840 BPA	21760300777	F	Ovary		R ovary cystic. Oviduct attached to it. ML09-30-10
100,000 BPA	21760300647	M	Fat Pad Retro		Weight appears to be incorrect. SW 11-01-10
	21760300845	F	Kidney		Weight appears to be incorrect. SW 11-01-10
0.5 EE2	21760300580	F	Ovary		Oviduct was weighed with Rovary due TGL.KC10-11-10
	21760301039	F	Ovary		R. ovary cyst w/ oviduct attached ML 11-09-10
	21760300568	F	Thyroid Gl		Missing thyroid gland. DM 10-12-10
5.0 EE2	21760300266	F	Ovary		Rt oviduct included due to cyst. BV 09-23-10
	21760300544	F	Ovary		Oviduct attached to L ovary due to cyst.SW10-10-10
	21760300986	F	Ovary		Cystic ovaries Oviducts attached ML 11-02-10
NaiveCtrl	21760300702	M	Liver		Incorrect weight. LE SW 10-01-10
	21760300175	F	Spleen		Incorrect weight.LE SW 09-29-10
	21760300718	F	Thyroid Gl		Residual thyroid gl found on trachea at trim. New wt is 26.9 mg. BV 01-06-11

1. The comment is the wording as stored in the source data. The principle investigator was consulted to determine exclusion of each measurement from the analysis.

Table 3. Summary Statistics for Female Organ Weights (g)

	Treatment																							
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.066	0.002	23	0.067	0.002	18	0.066	0.002	21	0.068	0.002	20	0.065	0.002	20	0.068	0.002	20	0.066	0.002	20	0.062	0.002
Brain	20	1.886	0.019	23	1.925	0.019	18	1.890	0.028	21	1.931	0.021	20	1.884	0.020	20	1.910	0.018	20	1.919	0.022	20	1.906	0.024
Fat Pad Ov/Pm	20	7.783	0.820	23	6.758	0.424	18	7.877	0.557	21	6.800	0.615	20	6.570	0.632	20	8.473	0.757	20	7.850	0.648	20	7.115	0.784
Fat Pad Retro	20	5.870	0.618	23	5.862	0.533	18	6.115	0.420	21	5.706	0.403	20	5.197	0.487	20	5.788	0.491	20	5.699	0.422	20	5.084	0.521
Heart	20	1.037	0.025	23	1.050	0.018	18	1.034	0.017	21	1.042	0.028	20	1.014	0.020	20	1.054	0.027	20	1.023	0.038	20	1.024	0.024
Kidney	20	1.905	0.040	23	1.950	0.053	18	1.886	0.049	21	1.855	0.028	20	1.886	0.048	20	1.960	0.063	20	1.937	0.049	20	1.885	0.037
Liver	20	8.671	0.303	23	8.580	0.280	18	8.509	0.285	21	8.472	0.234	20	8.261	0.195	20	8.882	0.383	20	8.727	0.318	20	8.395	0.227
Ovary	20	0.099	0.004	23	0.094	0.004	18	0.099	0.006	21	0.098	0.004	20	0.095	0.003	20	0.092	0.006	19	0.101	0.004	20	0.100	0.005
Pituitary Gl	20	0.016	0.001	23	0.016	0.001	18	0.016	0.001	21	0.016	0.001	20	0.016	0.001	20	0.016	0.001	20	0.016	0.001	20	0.016	0.000
Spleen	20	0.542	0.016	23	0.522	0.017	18	0.497	0.014	21	0.521	0.014	20	0.486	0.016	20	0.528	0.016	20	0.521	0.019	20	0.498	0.016
Thymus	20	0.485	0.018	23	0.451	0.015	18	0.458	0.013	21	0.480	0.018	20	0.442	0.015	20	0.487	0.022	20	0.493	0.036	20	0.447	0.018
Thyroid Gl	20	0.026	0.001	23	0.024	0.001	18	0.023	0.001	21	0.023	0.001	20	0.023	0.001	20	0.023	0.001	20	0.027	0.001	20	0.025	0.002
Uterus	20	0.444	0.030	23	0.426	0.018	18	0.419	0.029	21	0.436	0.030	20	0.434	0.023	20	0.449	0.042	20	0.428	0.027	20	0.414	0.028
Receiving Weight	20	272.615	7.867	23	268.835	4.935	18	264.972	6.985	21	262.605	5.443	20	263.070	5.891	20	276.210	10.250	20	275.665	6.344	20	263.105	5.965

Table 3. Summary Statistics for Female Organ Weights (g)

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.064	0.002	19	0.060	0.002	20	0.074	0.002	20	0.088	0.002	20	0.065	0.002
Brain	20	1.874	0.016	19	1.815	0.021	20	1.952	0.019	20	1.928	0.023	20	1.877	0.017
Fat Pad Ov/Pm	20	5.976	0.502	19	3.689	0.426	20	4.670	0.561	20	3.523	0.410	20	6.966	0.499
Fat Pad Retro	20	4.493	0.347	19	3.113	0.371	20	4.369	0.472	20	5.886	0.694	20	5.596	0.440
Heart	20	1.000	0.021	19	0.946	0.021	20	1.128	0.026	20	1.262	0.034	20	1.059	0.020
Kidney	19	1.892	0.058	19	1.825	0.052	20	2.157	0.056	20	2.293	0.065	20	1.867	0.047
Liver	20	8.131	0.289	19	8.226	0.258	20	10.028	0.376	20	11.418	0.401	20	8.368	0.287
Ovary	20	0.086	0.004	19	0.068	0.005	18	0.063	0.007	17	0.043	0.003	20	0.094	0.003
Pituitary Gl	20	0.015	0.001	19	0.016	0.001	20	0.021	0.001	20	0.016	0.001	20	0.015	0.001
Spleen	20	0.487	0.014	19	0.496	0.017	20	0.575	0.021	20	0.650	0.027	19	0.516	0.013
Thymus	20	0.437	0.019	19	0.458	0.024	20	0.452	0.027	20	0.583	0.031	20	0.434	0.019
Thyroid Gl	20	0.023	0.001	19	0.022	0.001	19	0.026	0.002	20	0.029	0.001	19	0.024	0.001
Uterus	20	0.469	0.033	19	0.427	0.034	20	0.389	0.023	20	0.327	0.021	20	0.405	0.012
Receiving Weight	20	251.190	6.227	19	237.705	6.930	20	277.650	7.995	20	303.005	8.891	20	260.310	5.299

Table 4. Summary Statistics for Female Relative Organ Weight to Brain Weight

	Treatment																						
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.035	0.001	23	0.035	0.001	18	0.035	0.001	21	0.035	0.001	20	0.035	0.001	20	0.035	0.001	20	0.034	0.001	20	0.033	0.001
Fat Pad Ov/Pm	20	4.143	0.444	23	3.508	0.213	18	4.159	0.282	21	3.490	0.289	20	3.499	0.347	20	4.451	0.396	20	4.107	0.344	20	3.751	0.425
Fat Pad Retro	20	3.126	0.338	23	3.060	0.285	18	3.232	0.216	21	2.947	0.200	20	2.767	0.263	20	3.034	0.253	20	2.975	0.232	20	2.670	0.280
Heart	20	0.552	0.016	23	0.546	0.009	18	0.548	0.010	21	0.539	0.012	20	0.539	0.011	20	0.552	0.014	20	0.532	0.018	20	0.538	0.013
Kidney	20	1.012	0.025	23	1.012	0.023	18	0.999	0.026	21	0.962	0.015	20	1.006	0.033	20	1.026	0.030	20	1.010	0.026	20	0.991	0.023
Liver	20	4.614	0.179	23	4.449	0.125	18	4.501	0.138	21	4.383	0.102	20	4.402	0.124	20	4.646	0.185	20	4.542	0.147	20	4.424	0.145
Ovary	20	0.052	0.002	23	0.049	0.002	18	0.052	0.003	21	0.051	0.002	20	0.050	0.002	20	0.049	0.003	19	0.052	0.002	20	0.053	0.003
Pituitary Gl	20	0.009	0.000	23	0.009	0.000	18	0.008	0.000	21	0.008	0.000	20	0.008	0.000	20	0.009	0.000	20	0.009	0.000	20	0.009	0.000
Spleen	20	0.288	0.009	23	0.271	0.008	18	0.263	0.007	21	0.271	0.008	20	0.258	0.009	20	0.277	0.008	20	0.271	0.009	20	0.262	0.010
Thymus	20	0.259	0.011	23	0.234	0.008	18	0.243	0.007	21	0.249	0.009	20	0.236	0.009	20	0.255	0.011	20	0.259	0.022	20	0.235	0.009
Thyroid Gl	20	0.014	0.001	23	0.012	0.000	18	0.012	0.001	21	0.012	0.001	20	0.012	0.001	20	0.012	0.001	20	0.014	0.001	20	0.013	0.001
Uterus	20	0.236	0.017	23	0.221	0.009	18	0.223	0.017	21	0.227	0.016	20	0.231	0.013	20	0.236	0.022	20	0.223	0.014	20	0.219	0.016
Adrenal Gl	20	0.035	0.001	23	0.035	0.001	18	0.035	0.001	21	0.035	0.001	20	0.035	0.001	20	0.035	0.001	20	0.034	0.001	20	0.033	0.001
Fat Pad Ov/Pm	20	4.143	0.444	23	3.508	0.213	18	4.159	0.282	21	3.490	0.289	20	3.499	0.347	20	4.451	0.396	20	4.107	0.344	20	3.751	0.425

Table 4. Summary Statistics for Female Relative Organ Weight to Brain Weight

	Treatment														
	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.034	0.001	19	0.033	0.001	20	0.038	0.001	20	0.046	0.001	20	0.035	0.001
Fat Pad Ov/Pm	20	3.210	0.282	19	2.026	0.230	20	2.388	0.290	20	1.824	0.212	20	3.723	0.274
Fat Pad Retro	20	2.405	0.192	19	1.715	0.202	20	2.240	0.241	20	3.035	0.350	20	2.990	0.240
Heart	20	0.534	0.012	19	0.521	0.011	20	0.578	0.012	20	0.655	0.017	20	0.565	0.011
Kidney	19	1.007	0.030	19	1.006	0.026	20	1.105	0.026	20	1.188	0.029	20	0.995	0.025
Liver	20	4.341	0.153	19	4.533	0.133	20	5.128	0.169	20	5.918	0.190	20	4.460	0.150
Ovary	20	0.046	0.002	19	0.038	0.003	18	0.032	0.003	17	0.023	0.002	20	0.050	0.001
Pituitary Gl	20	0.008	0.000	19	0.009	0.000	20	0.011	0.001	20	0.008	0.000	20	0.008	0.000
Spleen	20	0.260	0.007	19	0.273	0.009	20	0.294	0.010	20	0.336	0.012	19	0.275	0.006
Thymus	20	0.233	0.010	19	0.252	0.013	20	0.231	0.013	20	0.301	0.014	20	0.231	0.010
Thyroid Gl	20	0.012	0.001	19	0.012	0.001	19	0.014	0.001	20	0.015	0.001	19	0.013	0.000
Uterus	20	0.250	0.017	19	0.234	0.017	20	0.200	0.012	20	0.170	0.011	20	0.216	0.007

Table 5. Summary Statistics for Female Relative Organ Weight to Receiving Weight (mg/g)

	Treatment																					
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)	
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.245	0.008	23	0.249	0.007	18	0.249	0.007	21	0.259	0.009	20	0.249	0.006	20	0.248	0.007	20	0.241	0.007	20	0.237	0.008
Brain	20	7.029	0.213	23	7.199	0.114	18	7.190	0.146	21	7.401	0.135	20	7.230	0.186	20	7.056	0.217	20	7.016	0.147	20	7.316	0.188
Fat Pad Ov/Pm	20	27.527	2.129	23	25.285	1.562	18	29.503	1.682	21	25.467	1.874	20	24.449	1.843	20	29.982	1.951	20	28.046	1.963	20	26.205	2.394
Fat Pad Retro	20	20.807	1.586	23	21.517	1.690	18	22.863	1.192	21	21.423	1.192	20	19.322	1.456	20	20.539	1.221	20	20.468	1.324	20	18.790	1.705
Heart	20	3.822	0.063	23	3.920	0.064	18	3.929	0.071	21	3.967	0.066	20	3.869	0.063	20	3.845	0.064	20	3.724	0.127	20	3.907	0.085
Kidney	20	7.027	0.115	23	7.249	0.129	18	7.142	0.133	21	7.092	0.108	20	7.192	0.162	20	7.130	0.121	20	7.032	0.105	20	7.184	0.101
Liver	20	31.740	0.398	23	31.818	0.660	18	32.070	0.487	21	32.245	0.550	20	31.445	0.460	20	32.076	0.444	20	31.526	0.556	20	31.907	0.485
Ovary	20	0.364	0.013	23	0.350	0.013	18	0.376	0.019	21	0.376	0.014	20	0.362	0.014	20	0.345	0.022	19	0.364	0.015	20	0.379	0.015
Pituitary Gl	20	0.060	0.002	23	0.061	0.002	18	0.059	0.003	21	0.060	0.002	20	0.060	0.002	20	0.060	0.002	20	0.060	0.003	20	0.063	0.002
Spleen	20	1.997	0.043	23	1.945	0.057	18	1.881	0.036	21	1.995	0.055	20	1.856	0.062	20	1.932	0.053	20	1.889	0.054	20	1.893	0.050
Thymus	20	1.791	0.068	23	1.679	0.050	18	1.736	0.046	21	1.840	0.076	20	1.688	0.060	20	1.786	0.083	20	1.789	0.124	20	1.704	0.062
Thyroid Gl	20	0.095	0.005	23	0.089	0.003	18	0.086	0.005	21	0.089	0.005	20	0.090	0.004	20	0.083	0.004	20	0.098	0.005	20	0.097	0.007
Uterus	20	1.646	0.112	23	1.590	0.065	18	1.581	0.095	21	1.669	0.110	20	1.660	0.090	20	1.677	0.156	20	1.583	0.117	20	1.607	0.140

Table 5. Summary Statistics for Female Relative Organ Weight to Receiving Weight (mg/g)

	Treatment														
	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.256	0.008	19	0.256	0.008	20	0.271	0.011	20	0.292	0.008	20	0.251	0.010
Brain	20	7.543	0.191	19	7.726	0.188	20	7.121	0.178	20	6.445	0.163	20	7.269	0.164
Fat Pad Ov/Pm	20	23.306	1.627	19	15.031	1.414	20	16.328	1.690	20	11.204	0.996	20	26.509	1.517
Fat Pad Retro	20	17.542	1.050	19	12.723	1.165	20	15.419	1.397	20	18.641	1.723	20	21.199	1.356
Heart	20	3.994	0.059	19	3.999	0.065	20	4.085	0.070	20	4.189	0.087	20	4.089	0.090
Kidney	19	7.580	0.146	19	7.697	0.112	20	7.853	0.248	20	7.588	0.124	20	7.174	0.108
Liver	20	32.277	0.664	19	34.615	0.411	20	36.101	0.737	20	37.600	0.517	20	32.103	0.824
Ovary	20	0.344	0.016	19	0.290	0.022	18	0.226	0.018	17	0.145	0.012	20	0.361	0.010
Pituitary Gl	20	0.062	0.002	19	0.066	0.003	20	0.075	0.004	20	0.052	0.002	20	0.060	0.002
Spleen	20	1.947	0.047	19	2.091	0.045	20	2.076	0.057	20	2.155	0.078	19	2.003	0.055
Thymus	20	1.756	0.084	19	1.922	0.082	20	1.642	0.097	20	1.928	0.086	20	1.662	0.054
Thyroid Gl	20	0.092	0.005	19	0.095	0.005	19	0.096	0.006	20	0.098	0.005	19	0.093	0.003
Uterus	20	1.882	0.136	19	1.798	0.130	20	1.432	0.091	20	1.089	0.070	20	1.563	0.047

Table 6. Summary Statistics for Male Organ Weights (g)

	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)	
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.057	0.002	23	0.057	0.001	18	0.057	0.002	21	0.060	0.002	20	0.054	0.001	20	0.056	0.002	20	0.060	0.002	20	0.058	0.002
Brain	20	2.085	0.026	23	2.104	0.018	18	2.093	0.017	21	2.110	0.023	20	2.051	0.023	20	2.046	0.026	20	2.087	0.021	20	2.085	0.022
Epididymis	20	1.008	0.022	23	1.078	0.024	18	1.062	0.029	21	1.060	0.022	20	1.025	0.022	19	1.011	0.035	20	1.096	0.014	20	1.079	0.026
Fat Pad Epidid	20	7.784	0.580	23	8.321	0.522	17	7.886	0.587	21	8.561	0.500	20	8.727	0.710	20	8.758	0.582	20	7.876	0.347	20	8.151	0.549
Fat Pad Retro	20	10.510	0.729	23	11.026	0.694	17	10.752	0.904	21	10.942	0.585	20	11.140	1.009	20	11.340	0.609	20	10.338	0.447	20	10.910	0.698
Heart	20	1.716	0.059	23	1.747	0.059	18	1.712	0.043	21	1.658	0.049	20	1.760	0.054	20	1.630	0.038	20	1.776	0.068	20	1.567	0.030
Kidney	20	3.391	0.077	23	3.322	0.069	18	3.237	0.090	21	3.343	0.093	19	3.229	0.089	20	3.305	0.079	20	3.240	0.075	20	3.291	0.077
Liver	20	17.098	0.672	23	17.870	0.475	18	17.286	0.638	21	17.736	0.610	20	17.102	0.530	20	17.519	0.601	20	17.487	0.433	20	17.120	0.584
Pituitary Gl	20	0.013	0.000	23	0.014	0.000	18	0.013	0.000	21	0.013	0.001	20	0.013	0.000	20	0.013	0.000	20	0.013	0.001	20	0.013	0.000
Pros- Dors/Lat	20	0.434	0.022	23	0.425	0.023	18	0.406	0.021	21	0.414	0.023	20	0.408	0.023	20	0.410	0.024	20	0.414	0.031	20	0.440	0.012
Pros- Ven Lobe	20	0.535	0.028	23	0.583	0.037	18	0.553	0.037	21	0.574	0.037	20	0.541	0.027	20	0.496	0.020	20	0.505	0.031	20	0.529	0.026
Sem Ves	20	0.885	0.041	23	0.941	0.031	18	0.962	0.043	21	0.871	0.041	20	0.915	0.037	20	0.811	0.036	20	0.906	0.052	20	0.824	0.036
Spleen	20	0.780	0.025	23	0.782	0.018	18	0.746	0.024	21	0.781	0.019	20	0.749	0.020	20	0.765	0.025	20	0.755	0.021	20	0.720	0.024
Testes	20	3.272	0.046	23	3.321	0.056	18	3.382	0.064	21	3.339	0.056	20	3.320	0.045	20	3.094	0.078	20	3.410	0.062	20	3.356	0.062
Thymus	20	0.533	0.026	23	0.542	0.022	18	0.529	0.029	21	0.577	0.026	20	0.483	0.018	20	0.523	0.019	20	0.613	0.097	20	0.537	0.020
Thyroid Gl	20	0.031	0.002	23	0.029	0.002	18	0.030	0.001	21	0.031	0.002	20	0.029	0.001	20	0.030	0.002	20	0.029	0.001	20	0.029	0.001
Receiving Weight	20	453.980	8.824	23	472.135	9.235	18	465.717	11.995	21	464.552	8.688	20	462.715	11.220	20	463.850	8.713	20	460.050	7.195	20	460.620	10.283

Table 6. Summary Statistics for Male Organ Weights (g)

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.058	0.002	18	0.051	0.001	20	0.059	0.002	20	0.069	0.002	20	0.056	0.002
Brain	20	2.063	0.020	18	1.987	0.020	20	2.100	0.019	20	2.098	0.028	20	2.048	0.020
Epididymis	20	1.058	0.017	18	0.991	0.017	20	1.009	0.033	20	0.896	0.044	20	1.012	0.019
Fat Pad Epidid	20	7.127	0.461	18	5.325	0.197	20	6.676	0.391	20	5.451	0.291	20	7.880	0.379
Fat Pad Retro	19	9.486	0.459	18	8.494	0.528	20	10.062	0.685	20	11.779	0.821	20	11.013	0.693
Heart	20	1.582	0.037	18	1.485	0.038	20	1.744	0.047	20	1.693	0.045	20	1.742	0.049
Kidney	20	3.212	0.092	18	3.006	0.068	20	3.354	0.085	20	3.287	0.068	20	3.307	0.102
Liver	20	16.438	0.488	18	14.450	0.460	20	17.337	0.378	20	18.730	0.449	19	16.867	0.571
Pituitary Gl	20	0.013	0.000	18	0.012	0.001	20	0.015	0.001	20	0.015	0.001	20	0.013	0.000
Pros- Dors/Lat	20	0.407	0.024	18	0.377	0.023	20	0.421	0.016	20	0.327	0.022	20	0.421	0.027
Pros- Ven Lobe	20	0.590	0.034	18	0.449	0.022	20	0.542	0.027	20	0.426	0.022	20	0.539	0.027
Sem Ves	20	0.850	0.038	18	0.803	0.027	20	0.875	0.053	20	0.651	0.044	20	0.914	0.044
Spleen	20	0.721	0.022	18	0.677	0.017	20	0.771	0.020	20	0.881	0.021	20	0.759	0.027
Testes	20	3.342	0.038	18	3.174	0.053	20	3.126	0.110	20	2.552	0.094	20	3.404	0.076
Thymus	20	0.474	0.017	18	0.509	0.023	20	0.481	0.025	20	0.542	0.034	20	0.521	0.030
Thyroid Gl	20	0.030	0.001	18	0.027	0.001	20	0.030	0.002	20	0.033	0.002	20	0.031	0.001
Receiving Weight	20	445.305	7.820	18	407.444	9.062	20	450.050	7.079	20	456.610	8.154	20	459.445	9.421

Table 7. Summary Statistics for Male Relative Organ Weight to Brain Weig ht

	Treatment																					
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)	
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.027	0.001	23	0.027	0.001	18	0.027	0.001	21	0.029	0.001	20	0.026	0.001	20	0.027	0.001	20	0.029	0.001	20	0.028	0.001
Epididymis	20	0.484	0.010	23	0.512	0.011	18	0.508	0.014	21	0.503	0.011	20	0.500	0.010	19	0.494	0.016	20	0.526	0.006	20	0.518	0.012
Fat Pad Epidid	20	3.747	0.282	23	3.951	0.243	17	3.777	0.272	21	4.041	0.219	20	4.230	0.314	20	4.268	0.273	20	3.777	0.171	20	3.886	0.243
Fat Pad Retro	20	5.073	0.371	23	5.237	0.329	17	5.124	0.413	21	5.167	0.260	20	5.381	0.445	20	5.534	0.284	20	4.957	0.222	20	5.197	0.313
Heart	20	0.826	0.031	23	0.831	0.027	18	0.818	0.019	21	0.786	0.023	20	0.858	0.025	20	0.797	0.018	20	0.849	0.028	20	0.752	0.013
Kidney	20	1.631	0.042	23	1.577	0.026	18	1.547	0.043	21	1.586	0.047	19	1.574	0.037	20	1.617	0.038	20	1.552	0.030	20	1.578	0.033
Liver	20	8.229	0.358	23	8.495	0.219	18	8.260	0.295	21	8.414	0.297	20	8.323	0.199	20	8.552	0.261	20	8.380	0.190	20	8.193	0.235
Pituitary Gl	20	0.006	0.000	23	0.007	0.000	18	0.006	0.000	21	0.006	0.000	20	0.007	0.000	20	0.007	0.000	20	0.006	0.000	20	0.006	0.000
Pros- Dors/Lat	20	0.208	0.010	23	0.202	0.011	18	0.195	0.011	21	0.197	0.012	20	0.199	0.011	20	0.200	0.011	20	0.198	0.014	20	0.211	0.006
Pros- Ven Lobe	20	0.258	0.014	23	0.278	0.018	18	0.265	0.018	21	0.273	0.017	20	0.264	0.012	20	0.244	0.011	20	0.243	0.015	20	0.254	0.012
Sem Ves	20	0.427	0.023	23	0.448	0.015	18	0.460	0.020	21	0.414	0.020	20	0.448	0.019	20	0.400	0.021	20	0.435	0.026	20	0.395	0.017
Spleen	20	0.374	0.012	23	0.371	0.008	18	0.356	0.011	21	0.371	0.010	20	0.365	0.009	20	0.375	0.013	20	0.362	0.010	20	0.345	0.011
Testes	20	1.572	0.024	23	1.578	0.023	18	1.617	0.032	21	1.585	0.029	20	1.622	0.025	20	1.514	0.037	20	1.636	0.030	20	1.610	0.027
Thymus	20	0.256	0.013	23	0.258	0.011	18	0.252	0.014	21	0.273	0.012	20	0.236	0.009	20	0.256	0.009	20	0.297	0.050	20	0.259	0.011
Thyroid Gl	20	0.015	0.001	23	0.014	0.001	18	0.014	0.001	21	0.015	0.001	20	0.014	0.001	20	0.014	0.001	20	0.014	0.000	20	0.014	0.001

Table 7. Summary Statistics for Male Relative Organ Weight to Brain Weight

	Treatment														
	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.028	0.001	18	0.026	0.001	20	0.028	0.001	20	0.033	0.001	20	0.027	0.001
Epididymis	20	0.513	0.009	18	0.500	0.009	20	0.481	0.015	20	0.426	0.020	20	0.494	0.009
Fat Pad Epidid	20	3.464	0.230	18	2.687	0.104	20	3.180	0.184	20	2.604	0.137	20	3.844	0.180
Fat Pad Retro	19	4.590	0.216	18	4.286	0.269	20	4.784	0.318	20	5.626	0.387	20	5.363	0.318
Heart	20	0.768	0.019	18	0.748	0.018	20	0.831	0.022	20	0.809	0.024	20	0.851	0.022
Kidney	20	1.558	0.045	18	1.514	0.034	20	1.597	0.037	20	1.568	0.029	20	1.614	0.046
Liver	20	7.965	0.223	18	7.272	0.217	20	8.258	0.165	20	8.941	0.205	19	8.241	0.251
Pituitary Gl	20	0.006	0.000	18	0.006	0.000	20	0.007	0.000	20	0.007	0.000	20	0.007	0.000
Pros- Dors/Lat	20	0.197	0.011	18	0.190	0.011	20	0.201	0.008	20	0.156	0.010	20	0.206	0.013
Pros- Ven Lobe	20	0.288	0.018	18	0.227	0.012	20	0.259	0.013	20	0.203	0.010	20	0.263	0.013
Sem Ves	20	0.413	0.019	18	0.404	0.013	20	0.416	0.023	20	0.311	0.022	20	0.447	0.022
Spleen	20	0.350	0.011	18	0.341	0.009	20	0.367	0.009	20	0.421	0.010	20	0.370	0.012
Testes	20	1.623	0.025	18	1.598	0.022	20	1.489	0.050	20	1.215	0.041	20	1.664	0.038
Thymus	20	0.230	0.009	18	0.256	0.012	20	0.229	0.011	20	0.259	0.015	20	0.254	0.014
Thyroid Gl	20	0.015	0.001	18	0.014	0.001	20	0.014	0.001	20	0.016	0.001	20	0.015	0.0004

Table 8. Summary Statistics for Male Relative Organ Weight to Receiving Weight (mg/g)

	Treatment																						
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)	
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.125	0.003	23	0.120	0.002	18	0.122	0.003	21	0.129	0.003	20	0.118	0.004	20	0.121	0.004	20	0.130	0.005	20	0.126	0.004
Brain	20	4.626	0.106	23	4.488	0.081	18	4.534	0.097	21	4.572	0.090	20	4.464	0.081	20	4.432	0.074	20	4.549	0.058	20	4.556	0.077
Epididymis	20	2.234	0.063	23	2.285	0.034	18	2.288	0.055	21	2.292	0.049	20	2.225	0.044	19	2.178	0.073	20	2.391	0.041	20	2.359	0.067
Fat Pad Epidid	20	16.887	0.961	23	17.343	0.786	17	16.714	0.810	21	18.232	0.869	20	18.505	1.075	20	18.658	0.963	20	17.061	0.640	20	17.462	0.899
Fat Pad Retro	20	22.825	1.201	23	23.038	1.117	17	22.610	1.279	21	23.368	1.095	20	23.511	1.529	20	24.225	0.999	20	22.410	0.846	20	23.409	1.285
Heart	20	3.777	0.099	23	3.702	0.098	18	3.690	0.082	21	3.567	0.074	20	3.819	0.109	20	3.523	0.076	20	3.862	0.140	20	3.416	0.061
Kidney	20	7.482	0.129	23	7.050	0.102	18	6.953	0.097	21	7.182	0.124	19	7.005	0.133	20	7.126	0.116	20	7.041	0.111	20	7.152	0.103
Liver	20	37.495	0.914	23	37.845	0.648	18	37.019	0.643	21	38.002	0.754	20	36.896	0.488	20	37.593	0.731	20	37.960	0.587	20	37.041	0.633
Pituitary Gl	20	0.030	0.001	23	0.030	0.001	18	0.029	0.001	21	0.028	0.001	20	0.030	0.001	20	0.029	0.001	20	0.028	0.001	20	0.029	0.001
Pros- Dors/Lat	20	0.960	0.049	23	0.907	0.053	18	0.879	0.046	21	0.898	0.052	20	0.881	0.044	20	0.880	0.049	20	0.898	0.063	20	0.964	0.035
Pros- Ven Lobe	20	1.185	0.065	23	1.244	0.078	18	1.197	0.084	21	1.237	0.078	20	1.180	0.061	20	1.075	0.049	20	1.102	0.067	20	1.159	0.060
Sem Ves	20	1.958	0.089	23	2.007	0.073	18	2.073	0.094	21	1.878	0.086	20	1.996	0.089	20	1.764	0.088	20	1.968	0.112	20	1.811	0.099
Spleen	20	1.715	0.038	23	1.662	0.039	18	1.602	0.036	21	1.684	0.030	20	1.628	0.043	20	1.649	0.042	20	1.640	0.039	20	1.561	0.038
Testes	20	7.253	0.165	23	7.064	0.120	18	7.317	0.183	21	7.229	0.160	20	7.237	0.158	20	6.716	0.208	20	7.433	0.145	20	7.339	0.182
Thymus	20	1.172	0.051	23	1.154	0.049	18	1.141	0.065	21	1.245	0.055	20	1.051	0.041	20	1.130	0.038	20	1.346	0.223	20	1.182	0.057
Thyroid Gl	20	0.067	0.003	23	0.061	0.004	18	0.065	0.002	21	0.067	0.003	20	0.062	0.003	20	0.064	0.004	20	0.062	0.002	20	0.063	0.003

Table 8. Summary Statistics for Male Relative Organ Weight to Receiving Weight (mg/g)

	Treatment														
	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.
Adrenal Gl	20	0.130	0.004	18	0.126	0.004	20	0.131	0.005	20	0.152	0.005	20	0.121	0.003
Brain	20	4.657	0.083	18	4.910	0.101	20	4.683	0.070	20	4.610	0.069	20	4.485	0.080
Epididymis	20	2.384	0.042	18	2.445	0.049	20	2.245	0.072	20	1.956	0.086	20	2.219	0.059
Fat Pad Epidid	20	15.814	0.800	18	13.096	0.446	20	14.720	0.729	20	11.886	0.519	20	17.066	0.631
Fat Pad Retro	19	21.217	0.759	18	20.728	1.125	20	22.114	1.290	20	25.563	1.440	20	23.720	1.135
Heart	20	3.561	0.074	18	3.649	0.062	20	3.896	0.125	20	3.712	0.086	20	3.803	0.103
Kidney	20	7.202	0.137	18	7.399	0.144	20	7.460	0.167	20	7.212	0.133	20	7.188	0.141
Liver	20	36.794	0.576	18	35.368	0.494	20	38.533	0.606	20	40.996	0.536	19	36.721	0.683
Pituitary Gl	20	0.030	0.001	18	0.030	0.001	20	0.033	0.001	20	0.033	0.001	20	0.030	0.001
Pros- Dors/Lat	20	0.914	0.051	18	0.921	0.050	20	0.942	0.042	20	0.719	0.049	20	0.926	0.062
Pros- Ven Lobe	20	1.328	0.075	18	1.104	0.051	20	1.208	0.062	20	0.933	0.047	20	1.177	0.059
Sem Ves	20	1.908	0.076	18	1.990	0.083	20	1.939	0.108	20	1.425	0.099	20	1.994	0.096
Spleen	20	1.620	0.038	18	1.671	0.044	20	1.716	0.044	20	1.940	0.053	20	1.649	0.039
Testes	20	7.534	0.111	18	7.848	0.203	20	6.961	0.251	20	5.595	0.196	20	7.449	0.188
Thymus	20	1.069	0.042	18	1.253	0.055	20	1.067	0.050	20	1.190	0.072	20	1.144	0.066
Thyroid Gl	20	0.069	0.004	18	0.066	0.003	20	0.067	0.003	20	0.073	0.004	20	0.067	0.002

Table 9. ANOVA for Female Organ Weights

Organ	NumDF	DenDF	FValue	ProbF
Adrenal Gl	12	248	10.958	0.000
Brain	12	248	2.822	0.001
Fat Pad Ov/Pm	12	248	6.850	0.000
Fat Pad Retro	12	248	2.901	0.001
Heart	12	248	8.684	0.000
Kidney	12	247	6.846	0.000
Liver	12	248	9.181	0.000
Ovary	12	242	14.444	0.000
Pituitary Gl	12	248	3.786	0.000
Spleen	12	247	6.603	0.000
Thymus	12	248	3.164	0.000
Thyroid Gl	12	246	2.517	0.004
Uterus	12	248	1.549	0.107

Table 10. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females

	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.066	0.002	0.055	0.067	0.002	1.000	0.066	0.002	1.000	0.068	0.002	0.996	0.065	0.002	1.000	0.068	0.002	0.996	0.066	0.002	1.000	0.062	0.002	0.547
Brain	1.886	0.021	0.853	1.925	0.019	0.604	1.890	0.022	1.000	1.931	0.020	0.462	1.884	0.021	1.000	1.910	0.021	0.938	1.919	0.021	0.786	1.906	0.021	0.976
Fat Pad Ov/Pm	7.783	0.602	0.891	6.758	0.562	0.694	7.877	0.635	1.000	6.800	0.588	0.750	6.570	0.602	0.561	8.473	0.602	0.944	7.850	0.602	1.000	7.115	0.602	0.952
Fat Pad Retro	5.870	0.491	0.207	5.862	0.458	1.000	6.115	0.518	1.000	5.706	0.480	1.000	5.197	0.491	0.876	5.788	0.491	1.000	5.699	0.491	1.000	5.084	0.491	0.776
Heart	1.037	0.025	0.566	1.050	0.024	0.999	1.034	0.027	1.000	1.042	0.025	1.000	1.014	0.025	0.986	1.054	0.025	0.997	1.023	0.025	0.999	1.024	0.025	0.999
Kidney	1.905	0.051	0.823	1.950	0.047	0.981	1.886	0.053	1.000	1.855	0.049	0.971	1.886	0.051	1.000	1.960	0.051	0.952	1.937	0.051	0.998	1.885	0.051	1.000
Liver	8.671	0.302	0.733	8.580	0.281	1.000	8.509	0.318	0.999	8.472	0.294	0.997	8.261	0.302	0.879	8.882	0.302	0.996	8.727	0.302	1.000	8.395	0.302	0.982
Ovary	0.099	0.004	0.450	0.094	0.004	0.955	0.099	0.005	1.000	0.098	0.004	1.000	0.095	0.004	0.985	0.092	0.004	0.838	0.101	0.005	1.000	0.100	0.004	1.000
Pituitary Gl	0.016	0.001	0.448	0.016	0.001	0.999	0.016	0.001	0.995	0.016	0.001	0.999	0.016	0.001	0.998	0.016	0.001	1.000	0.016	0.001	1.000	0.016	0.001	0.999
Spleen	0.542	0.017	0.368	0.522	0.016	0.930	0.497	0.018	0.319	0.521	0.017	0.925	0.486	0.017	0.115	0.528	0.017	0.991	0.521	0.017	0.928	0.498	0.017	0.301
Thymus	0.485	0.022	0.549	0.451	0.021	0.784	0.458	0.023	0.928	0.480	0.022	1.000	0.442	0.022	0.594	0.487	0.022	1.000	0.493	0.022	1.000	0.447	0.022	0.710
Thyroid Gl	0.026	0.001	0.175	0.024	0.001	0.774	0.023	0.001	0.363	0.023	0.001	0.552	0.023	0.001	0.647	0.023	0.001	0.429	0.027	0.001	0.987	0.025	0.001	1.000
Uterus	0.444	0.028	0.518	0.426	0.026	0.996	0.419	0.029	0.984	0.436	0.027	1.000	0.434	0.028	1.000	0.449	0.028	1.000	0.428	0.028	0.999	0.414	0.028	0.956

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 10. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.064	0.002	0.624	0.060	0.002	0.101	0.074	0.002	0.015	0.088	0.002	0.000	0.065	0.002	0.612
Brain	1.874	0.021	0.870	1.815	0.021	0.031	1.952	0.021	0.046	1.928	0.021	0.263	1.877	0.021	0.752
Fat Pad Ov/Pm	5.976	0.602	0.064	3.689	0.618	0.000	4.670	0.602	0.001	3.523	0.602	0.000	6.966	0.602	0.338
Fat Pad Retro	4.493	0.491	0.088	3.113	0.504	0.000	4.369	0.491	0.059	5.886	0.491	1.000	5.596	0.491	0.694
Heart	1.000	0.025	0.480	0.946	0.026	0.024	1.128	0.025	0.021	1.262	0.025	0.000	1.059	0.025	0.527
Kidney	1.892	0.052	0.977	1.825	0.052	0.443	2.157	0.051	0.001	2.293	0.051	0.000	1.867	0.051	0.598
Liver	8.131	0.302	0.344	8.226	0.310	0.484	10.028	0.302	0.003	11.418	0.302	0.000	8.368	0.302	0.478
Ovary	0.086	0.004	0.069	0.068	0.005	0.000	0.063	0.005	0.000	0.043	0.005	0.000	0.094	0.004	0.413
Pituitary Gl	0.015	0.001	0.750	0.016	0.001	0.867	0.021	0.001	0.000	0.016	0.001	0.885	0.015	0.001	0.526
Spleen	0.487	0.017	0.048	0.496	0.018	0.113	0.575	0.017	0.315	0.650	0.017	0.000	0.516	0.018	0.293
Thymus	0.437	0.022	0.216	0.458	0.023	0.598	0.452	0.022	0.468	0.583	0.022	0.004	0.434	0.022	0.107
Thyroid Gl	0.023	0.001	0.202	0.022	0.001	0.114	0.026	0.001	0.941	0.029	0.001	0.108	0.024	0.001	0.330
Uterus	0.469	0.028	0.760	0.427	0.028	0.875	0.389	0.028	0.266	0.327	0.028	0.006	0.405	0.028	0.319

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 11. Least Square Means Treatment Percent of Vehicle for Female Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Absolute Weight	Adrenal Gl	100.8	99.0	102.2	98.5	102.2	99.9	93.6	96.4	91.3	112.0	132.7	97.7
	Brain	102.0	100.2	102.4	99.8	101.3	101.7	101.1	99.3	96.2	103.5	102.2	99.5
	Fat Pad Ov/Pm	86.8	101.2	87.4	84.4	108.9	100.9	91.4	76.8	47.4	60.0	45.3	89.5
	Fat Pad Retro	99.9	104.2	97.2	88.5	98.6	97.1	86.6	76.5	53.0	74.4	100.3	95.3
	Heart	101.3	99.8	100.5	97.9	101.6	98.7	98.8	96.4	91.2	108.9	121.7	102.2
	Kidney	102.4	99.1	97.4	99.0	102.9	101.7	98.9	99.3	95.8	113.3	120.4	98.0
	Liver	98.9	98.1	97.7	95.3	102.4	100.6	96.8	93.8	94.9	115.6	131.7	96.5
	Ovary	95.3	100.5	99.6	96.0	93.4	102.3	101.0	86.8	69.3	63.9	43.9	94.8
	Pituitary Gl	102.4	96.7	97.4	97.3	101.3	102.2	102.3	96.0	97.2	128.5	97.4	96.0
	Spleen	96.3	91.7	96.2	89.6	97.4	96.1	91.8	89.9	91.5	106.0	120.0	95.2
	Thymus	93.0	94.3	99.0	91.1	100.5	101.7	92.1	90.1	94.4	93.2	120.2	89.5
	Thyroid Gl	92.3	87.7	90.1	90.9	88.7	104.3	97.5	89.0	86.8	102.0	113.2	93.1
	Uterus	95.8	94.2	98.2	97.8	101.1	96.3	93.2	105.5	96.2	87.5	73.7	91.2

Table 12. Unadjusted P-values for Female Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Absolute Weight	Adrenal Gl	0.854	0.822	0.624	0.731	0.616	0.985	0.150	0.413	0.056	0.008	0.000	0.612
	Brain	0.173	0.898	0.119	0.921	0.410	0.266	0.496	0.661	0.016	0.025	0.155	0.752
	Fat Pad Ov/Pm	0.214	0.915	0.244	0.156	0.419	0.938	0.433	0.035	0.000	0.000	0.000	0.338
	Fat Pad Retro	0.991	0.731	0.812	0.334	0.907	0.807	0.260	0.049	0.000	0.032	0.981	0.694
	Heart	0.693	0.950	0.874	0.536	0.640	0.713	0.719	0.302	0.013	0.011	0.000	0.527
	Kidney	0.514	0.806	0.480	0.790	0.435	0.651	0.780	0.859	0.275	0.000	0.000	0.598
	Liver	0.825	0.712	0.638	0.338	0.622	0.896	0.519	0.207	0.305	0.002	0.000	0.478
	Ovary	0.441	0.941	0.949	0.532	0.302	0.726	0.873	0.038	0.000	0.000	0.000	0.413
	Pituitary Gl	0.690	0.603	0.674	0.667	0.834	0.726	0.711	0.526	0.657	0.000	0.682	0.526
	Spleen	0.398	0.075	0.390	0.023	0.569	0.395	0.069	0.026	0.063	0.188	0.000	0.293
	Thymus	0.264	0.395	0.881	0.169	0.939	0.796	0.222	0.125	0.392	0.293	0.002	0.107
	Thyroid Gl	0.258	0.088	0.152	0.192	0.108	0.542	0.725	0.116	0.063	0.773	0.060	0.330
	Uterus	0.623	0.525	0.840	0.801	0.905	0.672	0.443	0.535	0.668	0.156	0.003	0.319

Table 13. ANOCOVA for Female Organ Weights (Brain Weight Covariate)

Organ	Effect	NumDF	DenDF	FValue	ProbF
Adrenal Gl	Group	12	247	10.140	0.000
Adrenal Gl	Brain Wt	1	247	1.343	0.248
Fat Pad Ov/Pm	Group	12	247	6.778	0.000
Fat Pad Ov/Pm	Brain Wt	1	247	0.766	0.382
Fat Pad Retro	Group	12	247	2.642	0.002
Fat Pad Retro	Brain Wt	1	247	0.949	0.331
Heart	Group	12	247	7.489	0.000
Heart	Brain Wt	1	247	23.433	0.000
Kidney	Group	12	246	5.927	0.000
Kidney	Brain Wt	1	246	16.106	0.000
Liver	Group	12	247	8.321	0.000
Liver	Brain Wt	1	247	19.716	0.000
Ovary	Group	12	241	14.704	0.000
Ovary	Brain Wt	1	241	4.992	0.026
Pituitary Gl	Group	12	247	3.255	0.000
Pituitary Gl	Brain Wt	1	247	8.228	0.004
Spleen	Group	12	246	5.865	0.000
Spleen	Brain Wt	1	246	16.660	0.000
Thymus	Group	12	247	2.979	0.001
Thymus	Brain Wt	1	247	2.996	0.085
Thyroid Gl	Group	12	245	2.244	0.011
Thyroid Gl	Brain Wt	1	245	2.172	0.142
Uterus	Group	12	247	1.563	0.103
Uterus	Brain Wt	1	247	0.231	0.631

Table 14. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females (Brain Wt Covariate)

		Vehicle		BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.066	0.002	0.053	0.067	0.002	1.000	0.066	0.002	1.000	0.067	0.002	0.999	0.065	0.002	1.000	0.068	0.002	0.998	0.066	0.002	1.000	0.062	0.002	0.510
Fat Pad Ov/Pm	7.807	0.603	0.883	6.718	0.564	0.642	7.894	0.636	1.000	6.751	0.591	0.693	6.598	0.603	0.566	8.457	0.603	0.958	7.820	0.604	1.000	7.106	0.603	0.940
Fat Pad Retro	5.891	0.492	0.203	5.826	0.460	1.000	6.130	0.518	1.000	5.661	0.482	1.000	5.223	0.492	0.879	5.774	0.492	1.000	5.672	0.492	1.000	5.076	0.492	0.748
Heart	1.042	0.024	0.512	1.042	0.023	1.000	1.038	0.026	1.000	1.031	0.024	1.000	1.021	0.024	0.986	1.050	0.024	1.000	1.017	0.024	0.967	1.022	0.024	0.990
Kidney	1.914	0.049	0.781	1.935	0.046	1.000	1.893	0.052	1.000	1.836	0.048	0.782	1.896	0.049	1.000	1.955	0.049	0.989	1.926	0.049	1.000	1.881	0.049	0.998
Liver	8.728	0.291	0.685	8.483	0.272	0.987	8.550	0.307	0.999	8.350	0.285	0.897	8.329	0.291	0.875	8.843	0.291	1.000	8.654	0.291	1.000	8.373	0.291	0.925
Ovary	0.099	0.004	0.463	0.093	0.004	0.874	0.100	0.005	1.000	0.097	0.004	1.000	0.095	0.004	0.986	0.092	0.004	0.756	0.100	0.005	1.000	0.100	0.004	1.000
Pituitary Gl	0.016	0.001	0.461	0.016	0.001	1.000	0.016	0.001	0.993	0.015	0.001	0.971	0.016	0.001	0.999	0.016	0.001	1.000	0.016	0.001	1.000	0.016	0.001	1.000
Spleen	0.545	0.017	0.329	0.517	0.016	0.711	0.499	0.018	0.271	0.515	0.016	0.664	0.490	0.017	0.104	0.526	0.017	0.946	0.518	0.017	0.752	0.496	0.017	0.193
Thymus	0.487	0.022	0.534	0.448	0.021	0.677	0.459	0.023	0.921	0.477	0.022	1.000	0.444	0.022	0.598	0.486	0.022	1.000	0.491	0.022	1.000	0.446	0.022	0.652
Thyroid Gl	0.026	0.001	0.180	0.024	0.001	0.684	0.023	0.001	0.353	0.023	0.001	0.451	0.024	0.001	0.652	0.023	0.001	0.378	0.027	0.001	0.996	0.025	0.001	0.999
Uterus	0.445	0.028	0.515	0.425	0.026	0.994	0.419	0.029	0.983	0.435	0.027	1.000	0.435	0.028	1.000	0.448	0.028	1.000	0.427	0.028	0.998	0.414	0.028	0.951

Table 14. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females (Brain Wt Covariate)

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.064	0.002	0.646	0.061	0.002	0.152	0.074	0.002	0.025	0.088	0.002	0.000	0.065	0.002	0.628
Fat Pad Ov/Pm	6.020	0.605	0.068	3.828	0.638	0.000	4.586	0.610	0.000	3.479	0.605	0.000	7.004	0.604	0.348
Fat Pad Retro	4.533	0.493	0.094	3.239	0.521	0.000	4.293	0.498	0.044	5.846	0.493	0.997	5.631	0.493	0.709
Heart	1.009	0.024	0.539	0.977	0.026	0.117	1.110	0.025	0.094	1.252	0.024	0.000	1.068	0.024	0.449
Kidney	1.905	0.050	0.990	1.878	0.052	0.832	2.126	0.050	0.005	2.277	0.049	0.000	1.881	0.049	0.644
Liver	8.239	0.292	0.387	8.567	0.308	0.900	9.822	0.295	0.017	11.309	0.292	0.000	8.461	0.292	0.518
Ovary	0.086	0.004	0.077	0.071	0.005	0.000	0.061	0.005	0.000	0.043	0.005	0.000	0.094	0.004	0.435
Pituitary Gl	0.016	0.001	0.796	0.016	0.001	1.000	0.020	0.001	0.000	0.015	0.001	0.724	0.016	0.001	0.558
Spleen	0.493	0.017	0.053	0.514	0.018	0.335	0.564	0.017	0.659	0.645	0.017	0.000	0.520	0.017	0.304
Thymus	0.440	0.022	0.234	0.468	0.023	0.780	0.446	0.022	0.329	0.580	0.022	0.006	0.437	0.022	0.113
Thyroid Gl	0.023	0.001	0.217	0.023	0.001	0.185	0.026	0.001	0.995	0.029	0.001	0.143	0.024	0.001	0.345
Uterus	0.470	0.028	0.752	0.431	0.029	0.914	0.386	0.028	0.243	0.326	0.028	0.006	0.406	0.028	0.325

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 15. Least Square Means Treatment Percent of Vehicle for Female Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Brain Weight Covariate	Adrenal Gl	100.4	98.9	101.6	98.5	102.0	99.6	93.4	96.5	92.1	111.2	132.2	97.8
	Fat Pad Ov/Pm	86.1	101.1	86.5	84.5	108.3	100.2	91.0	77.1	49.0	58.7	44.6	89.7
	Fat Pad Retro	98.9	104.1	96.1	88.7	98.0	96.3	86.2	76.9	55.0	72.9	99.2	95.6
	Heart	100.0	99.6	99.0	98.0	100.8	97.6	98.1	96.9	93.7	106.5	120.2	102.5
	Kidney	101.1	98.9	96.0	99.1	102.2	100.7	98.3	99.6	98.1	111.1	119.0	98.3
	Liver	97.2	98.0	95.7	95.4	101.3	99.2	95.9	94.4	98.2	112.5	129.6	96.9
	Ovary	94.1	100.4	98.2	96.1	92.7	101.2	100.4	87.2	71.6	61.9	43.1	95.1
	Pituitary Gl	100.9	96.5	95.7	97.4	100.4	100.9	101.5	96.6	99.9	125.8	95.9	96.4
	Spleen	94.8	91.6	94.4	89.8	96.5	94.9	91.0	90.4	94.3	103.4	118.2	95.5
	Thymus	92.1	94.3	98.0	91.2	99.9	100.9	91.6	90.4	96.1	91.6	119.1	89.8
	Thyroid Gl	91.5	87.6	89.1	91.0	88.2	103.5	97.1	89.3	88.4	100.6	112.2	93.3
	Uterus	95.5	94.2	97.8	97.8	100.8	96.0	93.0	105.6	96.8	86.9	73.3	91.3

Table 16. Unadjusted P-values for Female Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Brain Weight Covariate	Adrenal Gl	0.933	0.814	0.709	0.736	0.659	0.920	0.136	0.432	0.086	0.013	0.000	0.628
	Fat Pad Ov/Pm	0.189	0.920	0.213	0.157	0.447	0.987	0.412	0.037	0.000	0.000	0.000	0.348
	Fat Pad Retro	0.924	0.738	0.740	0.338	0.867	0.755	0.243	0.052	0.000	0.024	0.949	0.709
	Heart	0.994	0.916	0.754	0.538	0.814	0.469	0.559	0.345	0.065	0.052	0.000	0.449
	Kidney	0.747	0.775	0.263	0.803	0.553	0.856	0.644	0.908	0.614	0.003	0.000	0.644
	Liver	0.541	0.675	0.356	0.334	0.780	0.859	0.390	0.236	0.704	0.009	0.000	0.518
	Ovary	0.333	0.955	0.775	0.538	0.248	0.852	0.949	0.042	0.000	0.000	0.000	0.435
	Pituitary Gl	0.877	0.582	0.479	0.676	0.950	0.879	0.802	0.573	0.991	0.000	0.501	0.558
	Spleen	0.222	0.061	0.200	0.020	0.423	0.245	0.041	0.029	0.201	0.443	0.000	0.304
	Thymus	0.206	0.385	0.749	0.170	0.989	0.891	0.194	0.136	0.556	0.197	0.003	0.113
	Thyroid Gl	0.209	0.085	0.116	0.194	0.092	0.613	0.677	0.125	0.106	0.934	0.081	0.345
	Uterus	0.596	0.523	0.804	0.804	0.925	0.649	0.431	0.527	0.726	0.142	0.003	0.325

Table 17. ANOCOVA for Female Organ Weights (Receiving Wt Covariate)

Organ	Effect	NumDF	DenDF	FValue	ProbF
Adrenal Gl	Group	12	247	7.242	0.000
Adrenal Gl	Receiving	1	247	30.087	0.000
Brain	Group	12	247	1.773	0.053
Brain	Receiving	1	247	17.725	0.000
Fat Pad Ov/Pm	Group	12	247	18.914	0.000
Fat Pad Ov/Pm	Receiving	1	247	266.888	0.000
Fat Pad Retro	Group	12	247	4.844	0.000
Fat Pad Retro	Receiving	1	247	322.159	0.000
Heart	Group	12	247	5.292	0.000
Heart	Receiving	1	247	208.190	0.000
Kidney	Group	12	246	4.909	0.000
Kidney	Receiving	1	246	281.246	0.000
Liver	Group	12	247	11.271	0.000
Liver	Receiving	1	247	692.777	0.000
Ovary	Group	12	241	15.667	0.000
Ovary	Receiving	1	241	9.469	0.002
Pituitary Gl	Group	12	247	3.692	0.000
Pituitary Gl	Receiving	1	247	14.158	0.000
Spleen	Group	12	246	3.731	0.000
Spleen	Receiving	1	246	109.096	0.000
Thymus	Group	12	247	1.781	0.052
Thymus	Receiving	1	247	35.973	0.000
Thyroid Gl	Group	12	245	1.494	0.127
Thyroid Gl	Receiving	1	245	11.442	0.001
Uterus	Group	12	247	1.413	0.160
Uterus	Receiving	1	247	0.000	0.991

Table 18. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females (Receiving Wt Covariate)

	Treatment																							
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.066	0.002	0.059	0.067	0.002	1.000	0.066	0.002	1.000	0.068	0.002	0.919	0.066	0.002	1.000	0.067	0.002	0.999	0.065	0.002	1.000	0.062	0.002	0.736
Brain	1.883	0.020	0.768	1.924	0.019	0.493	1.892	0.021	1.000	1.935	0.019	0.269	1.887	0.020	1.000	1.904	0.020	0.960	1.913	0.020	0.816	1.910	0.020	0.879
Fat Pad Ov/Pm	7.470	0.419	0.838	6.680	0.390	0.593	8.040	0.441	0.892	7.111	0.409	0.987	6.851	0.419	0.831	7.936	0.420	0.951	7.347	0.420	1.000	7.394	0.419	1.000
Fat Pad Retro	5.603	0.325	0.142	5.796	0.303	0.998	6.254	0.342	0.595	5.970	0.317	0.944	5.437	0.325	0.999	5.331	0.325	0.989	5.271	0.325	0.968	5.322	0.325	0.987
Heart	1.024	0.019	0.672	1.047	0.017	0.909	1.041	0.020	0.988	1.055	0.018	0.760	1.026	0.019	1.000	1.032	0.019	1.000	1.004	0.019	0.953	1.035	0.019	0.999
Kidney	1.878	0.035	0.931	1.943	0.032	0.596	1.900	0.036	0.998	1.881	0.034	1.000	1.909	0.035	0.983	1.915	0.035	0.960	1.894	0.035	1.000	1.908	0.035	0.986
Liver	8.484	0.155	0.987	8.533	0.145	1.000	8.606	0.163	0.994	8.657	0.151	0.947	8.429	0.155	1.000	8.561	0.155	1.000	8.427	0.155	1.000	8.562	0.155	1.000
Ovary	0.098	0.004	0.403	0.094	0.004	0.972	0.100	0.005	1.000	0.099	0.004	1.000	0.095	0.004	0.998	0.091	0.004	0.779	0.100	0.004	1.000	0.100	0.004	1.000
Pituitary Gl	0.016	0.001	0.384	0.016	0.001	0.996	0.016	0.001	1.000	0.016	0.001	1.000	0.016	0.001	1.000	0.016	0.001	1.000	0.016	0.001	1.000	0.017	0.001	0.987
Spleen	0.535	0.014	0.410	0.520	0.013	0.961	0.501	0.015	0.407	0.528	0.014	1.000	0.492	0.014	0.175	0.516	0.014	0.896	0.510	0.014	0.707	0.504	0.014	0.475
Thymus	0.479	0.021	0.622	0.450	0.019	0.832	0.461	0.022	0.986	0.486	0.020	1.000	0.447	0.021	0.794	0.478	0.021	1.000	0.484	0.021	1.000	0.452	0.021	0.890
Thyroid Gl	0.026	0.001	0.142	0.024	0.001	0.814	0.023	0.001	0.445	0.023	0.001	0.696	0.024	0.001	0.778	0.023	0.001	0.358	0.027	0.001	0.992	0.025	0.001	1.000
Uterus	0.444	0.028	0.519	0.426	0.026	0.996	0.419	0.029	0.984	0.436	0.027	1.000	0.434	0.028	1.000	0.449	0.028	1.000	0.428	0.028	0.999	0.414	0.028	0.957

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 18. Comparison of Least Square Mean Organ Weights Across Dose Groups for Females (Receiving Wt Covariate)

	Treatment														
	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.065	0.002	0.991	0.063	0.002	0.641	0.073	0.002	0.016	0.084	0.002	0.000	0.065	0.002	0.919
Brain	1.886	0.020	0.988	1.838	0.021	0.221	1.944	0.020	0.054	1.901	0.021	0.747	1.883	0.020	0.995
Fat Pad Ov/Pm	6.997	0.423	0.643	5.549	0.444	0.004	4.044	0.420	0.000	1.319	0.440	0.000	7.419	0.419	0.931
Fat Pad Retro	5.362	0.328	0.823	4.697	0.344	0.105	3.836	0.326	0.000	4.009	0.341	0.001	5.982	0.325	0.411
Heart	1.040	0.019	0.785	1.019	0.020	0.974	1.104	0.019	0.006	1.175	0.020	0.000	1.077	0.019	0.047
Kidney	1.986	0.036	0.058	1.983	0.037	0.071	2.104	0.035	0.000	2.106	0.036	0.000	1.905	0.035	0.577
Liver	8.740	0.157	0.405	9.336	0.165	0.000	9.654	0.156	0.000	10.102	0.163	0.000	8.638	0.155	0.484
Ovary	0.088	0.004	0.169	0.072	0.005	0.000	0.062	0.005	0.000	0.039	0.005	0.000	0.095	0.004	0.561
Pituitary Gl	0.016	0.001	0.987	0.016	0.001	0.906	0.020	0.001	0.000	0.015	0.001	0.418	0.016	0.001	0.724
Spleen	0.510	0.015	0.360	0.537	0.015	0.995	0.561	0.015	0.355	0.602	0.015	0.003	0.528	0.015	0.718
Thymus	0.455	0.021	0.632	0.492	0.022	0.888	0.441	0.021	0.315	0.543	0.022	0.064	0.443	0.021	0.213
Thyroid Gl	0.024	0.001	0.420	0.024	0.001	0.424	0.026	0.001	0.972	0.028	0.001	0.356	0.024	0.001	0.469
Uterus	0.468	0.028	0.765	0.427	0.029	0.879	0.389	0.028	0.267	0.327	0.029	0.007	0.405	0.028	0.322

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 19. Least Square Means Treatment Percent of Vehicle for Female Organ Weigl s

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Receiving Weight Covariate	Adrenal Gl	101.4	100.1	103.7	99.9	101.7	99.5	94.9	99.5	96.5	111.3	128.4	99.6
	Brain	102.2	100.5	102.8	100.2	101.1	101.6	101.4	100.2	97.6	103.3	101.0	100.0
	Fat Pad Ov/Pm	89.4	107.6	95.2	91.7	106.2	98.3	99.0	93.7	74.3	54.1	17.7	99.3
	Fat Pad Retro	103.4	111.6	106.6	97.0	95.1	94.1	95.0	95.7	83.8	68.5	71.5	106.8
	Heart	102.2	101.6	103.0	100.1	100.8	98.0	101.0	101.5	99.5	107.7	114.7	105.2
	Kidney	103.5	101.2	100.2	101.7	102.0	100.9	101.6	105.8	105.6	112.0	112.1	101.5
	Liver	100.6	101.4	102.0	99.3	100.9	99.3	100.9	103.0	110.0	113.8	119.1	101.8
	Ovary	95.7	101.5	100.9	97.2	92.9	101.6	102.2	89.4	73.5	62.9	39.6	96.3
	Pituitary Gl	103.0	97.8	98.9	98.7	100.8	101.7	103.7	99.2	102.3	127.9	92.9	97.8
	Spleen	97.2	93.5	98.7	92.0	96.5	95.3	94.1	95.2	100.3	104.8	112.4	98.6
	Thymus	93.8	96.1	101.4	93.2	99.6	101.0	94.2	95.0	102.6	91.9	113.2	92.3
	Thyroid Gl	92.9	88.7	91.5	92.2	88.1	103.8	98.9	92.1	91.9	101.4	108.7	94.9
	Uterus	95.8	94.2	98.2	97.8	101.1	96.3	93.2	105.5	96.1	87.5	73.7	91.2

Table 20. Unadjusted P-values for Female Organ Weight

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Receiving Weight Covariate	Adrenal Gl	0.739	0.981	0.383	0.978	0.687	0.899	0.236	0.913	0.427	0.008	0.000	0.919
	Brain	0.130	0.738	0.061	0.876	0.451	0.286	0.338	0.900	0.128	0.029	0.523	0.995
	Fat Pad Ov/Pm	0.168	0.350	0.540	0.297	0.432	0.835	0.897	0.429	0.002	0.000	0.000	0.931
	Fat Pad Retro	0.664	0.169	0.419	0.718	0.554	0.470	0.541	0.603	0.058	0.000	0.001	0.411
	Heart	0.370	0.546	0.250	0.963	0.764	0.435	0.694	0.561	0.850	0.003	0.000	0.047
	Kidney	0.169	0.657	0.951	0.522	0.452	0.740	0.537	0.031	0.039	0.000	0.000	0.577
	Liver	0.817	0.590	0.425	0.801	0.724	0.794	0.723	0.248	0.000	0.000	0.000	0.484
	Ovary	0.481	0.821	0.888	0.659	0.262	0.804	0.723	0.096	0.000	0.000	0.000	0.561
	Pituitary Gl	0.615	0.724	0.852	0.834	0.898	0.775	0.543	0.895	0.712	0.000	0.257	0.724
	Spleen	0.453	0.101	0.727	0.037	0.355	0.221	0.124	0.218	0.936	0.214	0.002	0.718
	Thymus	0.297	0.534	0.818	0.271	0.954	0.874	0.349	0.419	0.687	0.188	0.035	0.213
	Thyroid Gl	0.285	0.114	0.215	0.261	0.086	0.578	0.879	0.259	0.261	0.845	0.215	0.469
	Uterus	0.624	0.526	0.840	0.801	0.905	0.673	0.444	0.541	0.674	0.157	0.004	0.322

Table 21. ANOVA for Male Organ Weights

Organ	NumDF	DenDF	FValue	ProbF
Adrenal Gl	12	247	5.261	0.000
Brain	12	247	2.275	0.009
Epididymis	12	246	4.042	0.000
Fat Pad Epidid	12	246	5.232	0.000
Fat Pad Retro	12	245	1.440	0.148
Heart	12	247	3.129	0.000
Kidney	12	246	1.271	0.236
Liver	12	246	3.169	0.000
Pituitary Gl	12	247	2.132	0.016
Pros- Dors/Lat	12	247	1.549	0.108
Pros- Ven Lobe	12	247	2.676	0.002
Sem Ves	12	247	3.811	0.000
Spleen	12	247	4.454	0.000
Testes	12	247	11.593	0.000
Thymus	12	247	1.164	0.310
Thyroid Gl	12	247	1.161	0.312

Table 22. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males

	Treatment																							
	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.057	0.002	0.547	0.057	0.002	1.000	0.057	0.002	1.000	0.060	0.002	0.660	0.054	0.002	0.814	0.056	0.002	1.000	0.060	0.002	0.790	0.058	0.002	1.000
Brain	2.085	0.022	0.974	2.104	0.021	0.985	2.093	0.023	1.000	2.110	0.022	0.943	2.051	0.022	0.793	2.046	0.022	0.689	2.087	0.022	1.000	2.085	0.022	1.000
Epididymis	1.008	0.026	0.140	1.078	0.024	0.232	1.062	0.027	0.551	1.060	0.025	0.546	1.025	0.026	0.998	1.011	0.027	1.000	1.096	0.026	0.090	1.079	0.026	0.248
Fat Pad Epidid	7.784	0.490	0.720	8.321	0.457	0.946	7.886	0.532	1.000	8.561	0.479	0.773	8.727	0.490	0.609	8.758	0.490	0.576	7.876	0.490	1.000	8.151	0.490	0.994
Fat Pad Retro	10.510	0.696	0.911	11.026	0.649	0.994	10.752	0.755	1.000	10.942	0.679	0.998	11.140	0.696	0.983	11.340	0.696	0.932	10.338	0.696	1.000	10.910	0.696	0.999
Heart	1.716	0.049	0.017	1.747	0.046	0.997	1.712	0.052	1.000	1.658	0.048	0.933	1.760	0.049	0.985	1.630	0.049	0.697	1.776	0.049	0.925	1.567	0.049	0.160
Kidney	3.391	0.082	0.776	3.322	0.077	0.987	3.237	0.087	0.659	3.343	0.080	0.999	3.229	0.084	0.595	3.305	0.082	0.963	3.240	0.082	0.653	3.291	0.082	0.924
Liver	17.098	0.535	0.611	17.870	0.499	0.825	17.286	0.564	1.000	17.736	0.522	0.928	17.102	0.535	1.000	17.519	0.535	0.992	17.487	0.535	0.995	17.120	0.535	1.000
Pituitary Gl	0.013	0.000	0.994	0.014	0.000	0.976	0.013	0.001	1.000	0.013	0.000	0.952	0.013	0.000	1.000	0.013	0.000	1.000	0.013	0.000	0.960	0.013	0.000	1.000
Pros- Dors/Lat	0.434	0.023	0.399	0.425	0.021	1.000	0.406	0.024	0.935	0.414	0.022	0.983	0.408	0.023	0.945	0.410	0.023	0.962	0.414	0.023	0.985	0.440	0.023	1.000
Pros- Ven Lobe	0.535	0.030	0.360	0.583	0.028	0.734	0.553	0.031	0.999	0.574	0.029	0.886	0.541	0.030	1.000	0.496	0.030	0.893	0.505	0.030	0.969	0.529	0.030	1.000
Sem Ves	0.885	0.041	0.074	0.941	0.038	0.850	0.962	0.043	0.652	0.871	0.040	1.000	0.915	0.041	0.994	0.811	0.041	0.674	0.906	0.041	0.999	0.824	0.041	0.826
Spleen	0.780	0.022	0.045	0.782	0.020	1.000	0.746	0.023	0.818	0.781	0.021	1.000	0.749	0.022	0.860	0.765	0.022	0.997	0.755	0.022	0.943	0.720	0.022	0.254
Testes	3.272	0.068	0.382	3.321	0.063	0.994	3.382	0.071	0.780	3.339	0.066	0.972	3.320	0.068	0.996	3.094	0.068	0.280	3.410	0.068	0.548	3.356	0.068	0.918
Thymus	0.533	0.036	0.672	0.542	0.033	1.000	0.529	0.038	1.000	0.577	0.035	0.919	0.483	0.036	0.866	0.523	0.036	1.000	0.613	0.036	0.447	0.537	0.036	1.000
Thyroid Gl	0.031	0.001	0.366	0.029	0.001	0.871	0.030	0.002	1.000	0.031	0.001	1.000	0.029	0.001	0.945	0.030	0.001	0.998	0.029	0.001	0.924	0.029	0.001	0.874

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 22. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.058	0.002	0.912	0.051	0.002	0.062	0.059	0.002	0.711	0.069	0.002	0.000	0.056	0.002	0.616
Brain	2.063	0.022	0.706	1.987	0.023	0.005	2.100	0.022	0.858	2.098	0.022	0.895	2.048	0.022	0.236
Epididymis	1.058	0.026	0.296	0.991	0.027	0.871	1.009	0.026	0.999	0.896	0.026	0.005	1.012	0.026	0.911
Fat Pad Epidid	7.127	0.490	0.538	5.325	0.517	0.001	6.676	0.490	0.194	5.451	0.490	0.002	7.880	0.490	0.890
Fat Pad Retro	9.486	0.714	0.486	8.494	0.734	0.086	10.062	0.696	0.861	11.779	0.696	0.331	11.013	0.696	0.610
Heart	1.582	0.049	0.100	1.485	0.052	0.003	1.744	0.049	0.886	1.693	0.049	0.924	1.742	0.049	0.704
Kidney	3.212	0.082	0.215	3.006	0.087	0.003	3.354	0.082	0.926	3.287	0.082	0.570	3.307	0.082	0.471
Liver	16.438	0.535	0.588	14.450	0.564	0.002	17.337	0.535	0.930	18.730	0.535	0.059	16.867	0.549	0.763
Pituitary Gl	0.013	0.000	1.000	0.012	0.001	0.136	0.015	0.000	0.144	0.015	0.000	0.042	0.013	0.000	0.865
Pros- Dors/Lat	0.407	0.023	0.615	0.377	0.024	0.153	0.421	0.023	0.883	0.327	0.023	0.002	0.421	0.023	0.685
Pros- Ven Lobe	0.590	0.030	0.321	0.449	0.031	0.088	0.542	0.030	0.979	0.426	0.030	0.019	0.539	0.030	0.921
Sem Ves	0.850	0.041	0.778	0.803	0.043	0.291	0.875	0.041	0.978	0.651	0.041	0.000	0.914	0.041	0.616
Spleen	0.721	0.022	0.110	0.677	0.023	0.003	0.771	0.022	0.940	0.881	0.022	0.002	0.759	0.022	0.515
Testes	3.342	0.068	0.682	3.174	0.071	0.503	3.126	0.068	0.221	2.552	0.068	0.000	3.404	0.068	0.167
Thymus	0.474	0.036	0.397	0.509	0.038	0.853	0.481	0.036	0.481	0.542	0.036	0.977	0.521	0.036	0.820
Thyroid Gl	0.030	0.001	0.983	0.027	0.002	0.131	0.030	0.001	0.985	0.033	0.001	0.288	0.031	0.001	0.959

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 23. Least Square Means Treatment Percent of Vehicle for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Absolute Weight	Adrenal Gl	99.9	100.3	105.8	95.1	98.5	105.0	101.6	101.6	90.0	103.1	122.2	97.7
	Brain	100.9	100.4	101.2	98.3	98.1	100.1	100.0	98.9	95.3	100.7	100.6	98.2
	Epididymis	106.9	105.4	105.2	101.7	100.4	108.8	107.1	105.0	98.4	100.1	88.9	100.4
	Fat Pad Epidid	106.9	101.3	110.0	112.1	112.5	101.2	104.7	91.6	68.4	85.8	70.0	101.2
	Fat Pad Retro	104.9	102.3	104.1	106.0	107.9	98.4	103.8	90.3	80.8	95.7	112.1	104.8
	Heart	101.8	99.8	96.6	102.5	95.0	103.5	91.3	92.2	86.6	101.7	98.7	101.5
	Kidney	98.0	95.4	98.6	95.2	97.4	95.5	97.0	94.7	88.6	98.9	96.9	97.5
	Liver	104.5	101.1	103.7	100.0	102.5	102.3	100.1	96.1	84.5	101.4	109.5	98.6
	Pituitary Gl	103.5	100.2	95.9	101.1	99.9	96.0	100.7	100.0	90.4	109.2	112.1	100.9
	Pros- Dors/Lat	97.9	93.6	95.3	94.0	94.4	95.3	101.2	93.8	86.8	96.9	75.4	97.0
	Pros- Ven Lobe	109.0	103.4	107.3	101.2	92.7	94.4	98.9	110.3	84.0	101.3	79.6	100.8
	Sem Ves	106.4	108.7	98.5	103.5	91.7	102.4	93.1	96.1	90.8	98.9	73.6	103.3
	Spleen	100.2	95.6	100.2	96.0	98.2	96.8	92.4	92.5	86.9	98.8	113.0	97.4
	Testes	101.5	103.4	102.0	101.5	94.6	104.2	102.6	102.2	97.0	95.5	78.0	104.0
	Thymus	101.7	99.2	108.2	90.7	98.2	115.0	100.8	88.9	95.4	90.2	101.7	97.8
	Thyroid Gl	93.6	99.4	101.1	94.6	97.0	94.2	93.5	99.0	87.5	99.0	109.3	100.3

Table 24. Unadjusted P-values for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Absolute Weight	Adrenal Gl	0.973	0.945	0.197	0.284	0.739	0.268	0.730	0.723	0.034	0.489	0.000	0.616
	Brain	0.531	0.800	0.418	0.270	0.212	0.969	0.993	0.484	0.002	0.645	0.697	0.236
	Epididymis	0.051	0.152	0.150	0.646	0.922	0.017	0.055	0.175	0.663	0.978	0.003	0.911
	Fat Pad Epidid	0.424	0.888	0.258	0.175	0.161	0.895	0.597	0.345	0.001	0.111	0.001	0.890
	Fat Pad Retro	0.589	0.814	0.657	0.523	0.400	0.861	0.685	0.306	0.047	0.649	0.199	0.610
	Heart	0.642	0.956	0.402	0.531	0.216	0.390	0.033	0.055	0.001	0.683	0.742	0.704
	Kidney	0.540	0.197	0.675	0.169	0.458	0.194	0.389	0.124	0.001	0.745	0.369	0.471
	Liver	0.292	0.809	0.394	0.996	0.579	0.608	0.977	0.384	0.001	0.753	0.032	0.763
	Pituitary Gl	0.495	0.971	0.434	0.831	0.983	0.452	0.887	0.994	0.077	0.081	0.022	0.865
	Pros- Dors/Lat	0.773	0.406	0.523	0.422	0.457	0.530	0.871	0.405	0.087	0.679	0.001	0.685
	Pros- Ven Lobe	0.235	0.677	0.344	0.883	0.352	0.475	0.889	0.192	0.048	0.865	0.010	0.921
	Sem Ves	0.312	0.194	0.814	0.597	0.204	0.715	0.293	0.555	0.172	0.863	0.000	0.616
	Spleen	0.951	0.287	0.955	0.320	0.644	0.418	0.057	0.061	0.002	0.770	0.001	0.515
	Testes	0.596	0.262	0.481	0.615	0.064	0.150	0.381	0.462	0.318	0.128	0.000	0.167
	Thymus	0.851	0.938	0.382	0.325	0.846	0.114	0.931	0.243	0.639	0.302	0.859	0.820
	Thyroid Gl	0.330	0.926	0.864	0.422	0.660	0.389	0.333	0.877	0.073	0.886	0.171	0.959

Table 25. ANOCOVA for Male Organ Weights (Brain Wt Covariate)

Organ	Effect	NumDF	DenDF	FValue	ProbF
Adrenal Gl	Group	12	246	4.477	0.000
Adrenal Gl	Brain Wt	1	246	12.656	0.000
Epididymis	Group	12	245	4.159	0.000
Epididymis	Brain Wt	1	245	21.043	0.000
Fat Pad Epidid	Group	12	245	5.209	0.000
Fat Pad Epidid	Brain Wt	1	245	16.163	0.000
Fat Pad Retro	Group	12	244	1.176	0.301
Fat Pad Retro	Brain Wt	1	244	19.836	0.000
Heart	Group	12	246	2.678	0.002
Heart	Brain Wt	1	246	18.416	0.000
Kidney	Group	12	245	0.728	0.724
Kidney	Brain Wt	1	245	32.656	0.000
Liver	Group	12	245	2.079	0.019
Liver	Brain Wt	1	245	32.130	0.000
Pituitary Gl	Group	12	246	1.979	0.027
Pituitary Gl	Brain Wt	1	246	0.484	0.487
Pros- Dors/Lat	Group	12	246	1.538	0.111
Pros- Dors/Lat	Brain Wt	1	246	6.746	0.010
Pros- Ven Lobe	Group	12	246	2.655	0.002
Pros- Ven Lobe	Brain Wt	1	246	0.071	0.790
Sem Ves	Group	12	246	3.803	0.000
Sem Ves	Brain Wt	1	246	0.078	0.780
Spleen	Group	12	246	3.768	0.000
Spleen	Brain Wt	1	246	20.975	0.000
Testes	Group	12	246	12.968	0.000
Testes	Brain Wt	1	246	23.355	0.000
Thymus	Group	12	246	1.107	0.355
Thymus	Brain Wt	1	246	0.260	0.611
Thyroid Gl	Group	12	246	0.937	0.510
Thyroid Gl	Brain Wt	1	246	11.667	0.001

Table 26. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males (Brain Wt Covariate)

	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.057	0.002	0.533	0.056	0.002	1.000	0.057	0.002	1.000	0.059	0.002	0.771	0.054	0.002	0.931	0.056	0.002	1.000	0.059	0.002	0.778	0.058	0.002	1.000
Epididymis	1.004	0.025	0.123	1.068	0.023	0.284	1.056	0.026	0.563	1.049	0.025	0.680	1.033	0.025	0.947	1.021	0.026	0.998	1.092	0.025	0.073	1.075	0.025	0.213
Fat Pad Epidid	7.722	0.476	0.704	8.153	0.446	0.980	7.827	0.516	1.000	8.360	0.467	0.880	8.856	0.477	0.384	8.912	0.477	0.334	7.807	0.476	1.000	8.090	0.476	0.993
Fat Pad Retro	10.420	0.671	0.915	10.772	0.628	0.999	10.591	0.729	1.000	10.636	0.658	1.000	11.347	0.673	0.872	11.586	0.673	0.709	10.237	0.671	1.000	10.822	0.671	0.999
Heart	1.710	0.047	0.014	1.730	0.044	1.000	1.701	0.050	1.000	1.637	0.047	0.803	1.774	0.048	0.885	1.646	0.048	0.890	1.769	0.047	0.917	1.561	0.047	0.137
Kidney	3.378	0.078	0.771	3.285	0.073	0.917	3.213	0.082	0.530	3.298	0.076	0.964	3.260	0.080	0.819	3.341	0.078	1.000	3.225	0.078	0.581	3.278	0.078	0.902
Liver	17.009	0.504	0.597	17.625	0.472	0.912	17.130	0.532	1.000	17.441	0.495	0.987	17.298	0.505	0.999	17.753	0.506	0.835	17.388	0.505	0.994	17.033	0.504	1.000
Pituitary Gl	0.013	0.000	0.996	0.014	0.000	0.981	0.013	0.001	1.000	0.013	0.000	0.941	0.014	0.000	1.000	0.013	0.000	1.000	0.013	0.000	0.960	0.013	0.000	1.000
Pros- Dors/Lat	0.432	0.023	0.390	0.420	0.021	0.999	0.403	0.024	0.915	0.408	0.022	0.953	0.412	0.023	0.985	0.415	0.023	0.993	0.412	0.023	0.983	0.438	0.023	1.000
Pros- Ven Lobe	0.535	0.030	0.360	0.584	0.028	0.728	0.553	0.031	0.999	0.575	0.029	0.880	0.541	0.030	1.000	0.495	0.030	0.885	0.505	0.030	0.970	0.529	0.030	1.000
Sem Ves	0.885	0.041	0.075	0.942	0.038	0.845	0.962	0.043	0.651	0.872	0.040	1.000	0.914	0.041	0.996	0.810	0.041	0.662	0.906	0.041	0.999	0.824	0.041	0.827
Spleen	0.777	0.021	0.038	0.773	0.020	1.000	0.740	0.022	0.740	0.771	0.021	1.000	0.755	0.021	0.970	0.773	0.021	1.000	0.751	0.021	0.927	0.717	0.021	0.220
Testes	3.262	0.065	0.356	3.294	0.061	0.999	3.366	0.068	0.798	3.306	0.063	0.997	3.342	0.065	0.924	3.120	0.065	0.468	3.399	0.065	0.510	3.346	0.065	0.900
Thymus	0.532	0.036	0.672	0.541	0.034	1.000	0.528	0.038	1.000	0.575	0.035	0.931	0.484	0.036	0.886	0.525	0.036	1.000	0.612	0.036	0.450	0.537	0.036	1.000
Thyroid Gl	0.030	0.001	0.359	0.028	0.001	0.775	0.030	0.002	1.000	0.030	0.001	1.000	0.029	0.001	0.990	0.030	0.001	1.000	0.029	0.001	0.913	0.028	0.001	0.864

Table 26. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males (Brain Wt Covariate)

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.058	0.002	0.822	0.053	0.002	0.247	0.058	0.002	0.770	0.069	0.002	0.000	0.056	0.002	0.807
Epididymis	1.062	0.025	0.187	1.020	0.027	0.873	1.000	0.025	0.992	0.888	0.025	0.002	1.021	0.025	0.644
Fat Pad Epidid	7.186	0.476	0.642	5.808	0.516	0.014	6.534	0.477	0.140	5.321	0.477	0.001	8.023	0.477	0.656
Fat Pad Retro	9.563	0.689	0.576	9.252	0.727	0.394	9.848	0.673	0.771	11.584	0.672	0.365	11.243	0.673	0.388
Heart	1.589	0.047	0.131	1.537	0.051	0.027	1.730	0.048	0.938	1.680	0.048	0.865	1.758	0.048	0.475
Kidney	3.226	0.078	0.284	3.118	0.084	0.045	3.322	0.078	0.827	3.258	0.078	0.442	3.341	0.078	0.739
Liver	16.529	0.504	0.725	15.172	0.547	0.027	17.129	0.506	0.979	18.541	0.505	0.060	17.115	0.519	0.884
Pituitary Gl	0.013	0.000	1.000	0.012	0.001	0.190	0.015	0.000	0.151	0.015	0.000	0.044	0.013	0.000	0.824
Pros- Dors/Lat	0.409	0.023	0.688	0.392	0.025	0.375	0.417	0.023	0.838	0.324	0.023	0.002	0.426	0.023	0.831
Pros- Ven Lobe	0.590	0.030	0.329	0.447	0.032	0.086	0.543	0.030	0.977	0.426	0.030	0.019	0.539	0.030	0.937
Sem Ves	0.850	0.041	0.771	0.800	0.044	0.279	0.875	0.041	0.980	0.651	0.041	0.000	0.913	0.041	0.633
Spleen	0.724	0.021	0.144	0.702	0.023	0.032	0.764	0.021	0.870	0.875	0.021	0.002	0.767	0.021	0.741
Testes	3.352	0.065	0.514	3.253	0.070	0.993	3.103	0.065	0.148	2.531	0.065	0.000	3.428	0.065	0.072
Thymus	0.474	0.036	0.413	0.513	0.039	0.909	0.479	0.036	0.473	0.541	0.036	0.980	0.523	0.036	0.851
Thyroid Gl	0.030	0.001	1.000	0.028	0.002	0.410	0.030	0.001	0.957	0.033	0.001	0.316	0.031	0.001	0.757

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 27. Least Square Means Treatment Percent of Vehicle for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Brain Weight Covariate	Adrenal Gl	99.2	100.1	105.0	96.2	99.7	105.0	101.6	102.3	93.2	102.7	121.8	98.9
	Epididymis	106.3	105.2	104.4	102.8	101.6	108.8	107.1	105.7	101.6	99.6	88.5	101.6
	Fat Pad Epidid	105.6	101.4	108.3	114.7	115.4	101.1	104.8	93.1	75.2	84.6	68.9	103.9
	Fat Pad Retro	103.4	101.6	102.1	108.9	111.2	98.2	103.9	91.8	88.8	94.5	111.2	107.9
	Heart	101.2	99.5	95.8	103.7	96.3	103.5	91.3	92.9	89.9	101.2	98.2	102.8
	Kidney	97.2	95.1	97.6	96.5	98.9	95.5	97.0	95.5	92.3	98.3	96.4	98.9
	Liver	103.6	100.7	102.5	101.7	104.4	102.2	100.1	97.2	89.2	100.7	109.0	100.6
	Pituitary Gl	103.3	100.1	95.7	101.4	100.2	96.0	100.8	100.1	91.1	109.1	112.0	101.2
	Pros- Dors/Lat	97.2	93.3	94.3	95.3	95.9	95.2	101.2	94.6	90.6	96.3	74.8	98.4
	Pros- Ven Lobe	109.1	103.4	107.4	101.0	92.5	94.4	98.9	110.2	83.6	101.4	79.6	100.6
	Sem Ves	106.5	108.8	98.6	103.3	91.5	102.4	93.1	96.1	90.5	98.9	73.6	103.1
	Spleen	99.6	95.3	99.3	97.3	99.6	96.7	92.4	93.3	90.4	98.3	112.6	98.7
	Testes	101.0	103.2	101.4	102.4	95.6	104.2	102.6	102.8	99.7	95.1	77.6	105.1
	Thymus	101.5	99.2	108.0	91.0	98.5	115.0	100.8	89.1	96.4	90.0	101.6	98.2
	Thyroid Gl	92.7	99.0	100.0	96.1	98.8	94.1	93.4	100.0	92.0	98.4	108.8	102.1

Table 28. Unadjusted P-values for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Brain Weight Covariate	Adrenal Gl	0.860	0.989	0.256	0.398	0.954	0.261	0.723	0.602	0.144	0.546	0.000	0.807
	Epididymis	0.065	0.156	0.207	0.425	0.651	0.014	0.046	0.107	0.665	0.915	0.001	0.644
	Fat Pad Epidid	0.508	0.881	0.339	0.094	0.079	0.899	0.584	0.428	0.007	0.079	0.000	0.656
	Fat Pad Retro	0.702	0.863	0.818	0.331	0.222	0.847	0.672	0.374	0.241	0.547	0.221	0.388
	Heart	0.757	0.899	0.277	0.344	0.348	0.379	0.028	0.073	0.015	0.767	0.655	0.475
	Kidney	0.380	0.144	0.460	0.288	0.739	0.164	0.362	0.168	0.024	0.608	0.274	0.739
	Liver	0.373	0.869	0.541	0.687	0.300	0.596	0.973	0.502	0.015	0.866	0.033	0.884
	Pituitary Gl	0.514	0.980	0.414	0.794	0.973	0.451	0.887	0.981	0.109	0.086	0.024	0.824
	Pros- Dors/Lat	0.693	0.377	0.436	0.529	0.586	0.521	0.869	0.468	0.228	0.621	0.001	0.831
	Pros- Ven Lobe	0.232	0.675	0.339	0.898	0.344	0.476	0.889	0.197	0.047	0.859	0.010	0.937
	Sem Ves	0.308	0.193	0.826	0.612	0.199	0.715	0.294	0.547	0.165	0.869	0.000	0.633
	Spleen	0.906	0.238	0.859	0.478	0.908	0.394	0.048	0.081	0.017	0.662	0.001	0.741
	Testes	0.718	0.274	0.627	0.389	0.121	0.136	0.359	0.326	0.921	0.084	0.000	0.072
	Thymus	0.868	0.932	0.398	0.345	0.879	0.115	0.931	0.254	0.717	0.296	0.870	0.851
	Thyroid Gl	0.259	0.881	0.999	0.562	0.859	0.374	0.324	0.995	0.252	0.806	0.189	0.757

Table 29. ANOCOVA for Male Organ Weights (Receiving Wt Covariate)

Organ	Effect	NumDF	DenDF	FValue	ProbF
Adrenal Gl	Group	12	246	5.358	0.000
Adrenal Gl	Receiving	1	246	33.057	0.000
Brain	Group	12	246	1.476	0.133
Brain	Receiving	1	246	49.570	0.000
Epididymis	Group	12	245	4.226	0.000
Epididymis	Receiving	1	245	41.741	0.000
Fat Pad Epidid	Group	12	245	6.241	0.000
Fat Pad Epidid	Receiving	1	245	367.068	0.000
Fat Pad Retro	Group	12	244	1.228	0.264
Fat Pad Retro	Receiving	1	244	358.513	0.000
Heart	Group	12	246	2.446	0.005
Heart	Receiving	1	246	77.229	0.000
Kidney	Group	12	245	1.399	0.167
Kidney	Receiving	1	245	261.151	0.000
Liver	Group	12	245	3.392	0.000
Liver	Receiving	1	245	645.276	0.000
Pituitary Gl	Group	12	246	1.955	0.029
Pituitary Gl	Receiving	1	246	2.562	0.111
Pros- Dors/Lat	Group	12	246	1.427	0.154
Pros- Dors/Lat	Receiving	1	246	8.099	0.005
Pros- Ven Lobe	Group	12	246	2.403	0.006
Pros- Ven Lobe	Receiving	1	246	3.976	0.047
Sem Ves	Group	12	246	3.588	0.000
Sem Ves	Receiving	1	246	7.724	0.006
Spleen	Group	12	246	4.789	0.000
Spleen	Receiving	1	246	101.920	0.000
Testes	Group	12	246	12.097	0.000
Testes	Receiving	1	246	18.250	0.000
Thymus	Group	12	246	1.071	0.385
Thymus	Receiving	1	246	2.336	0.128
Thyroid Gl	Group	12	246	1.128	0.338
Thyroid Gl	Receiving	1	246	25.520	0.000

Table 30. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males (Receiving Wt Covariate)

	Vehicle			BPA 2.5 (µg/kg)			BPA 8 (µg/kg)			BPA 25 (µg/kg)			BPA 80 (µg/kg)			BPA 260 (µg/kg)			BPA 840 (µg/kg)			BPA 2700 (µg/kg)		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.057	0.002	0.438	0.056	0.002	0.992	0.056	0.002	1.000	0.060	0.002	0.816	0.054	0.002	0.589	0.055	0.002	0.984	0.059	0.002	0.853	0.057	0.002	1.000
Brain	2.087	0.020	0.896	2.088	0.019	1.000	2.084	0.021	1.000	2.102	0.020	0.995	2.044	0.020	0.499	2.038	0.020	0.365	2.083	0.020	1.000	2.081	0.020	1.000
Epididymis	1.010	0.024	0.080	1.060	0.023	0.498	1.052	0.026	0.737	1.051	0.024	0.715	1.017	0.024	1.000	1.001	0.025	1.000	1.092	0.024	0.091	1.074	0.024	0.278
Fat Pad Epidid	7.869	0.311	0.900	7.652	0.292	0.996	7.506	0.338	0.950	8.207	0.304	0.954	8.449	0.311	0.640	8.433	0.311	0.667	7.709	0.311	0.999	7.960	0.311	1.000
Fat Pad Retro	10.636	0.444	0.744	10.085	0.417	0.906	10.070	0.483	0.924	10.447	0.434	1.000	10.753	0.444	1.000	10.886	0.445	0.999	10.107	0.444	0.932	10.646	0.444	1.000
Heart	1.721	0.043	0.012	1.705	0.040	1.000	1.687	0.045	0.992	1.636	0.042	0.563	1.742	0.043	1.000	1.609	0.043	0.289	1.765	0.043	0.968	1.555	0.043	0.038
Kidney	3.404	0.057	0.967	3.218	0.054	0.097	3.174	0.061	0.035	3.288	0.056	0.540	3.191	0.059	0.055	3.254	0.057	0.286	3.214	0.057	0.101	3.261	0.057	0.333
Liver	17.197	0.281	0.715	17.063	0.264	1.000	16.799	0.297	0.873	17.307	0.275	1.000	16.765	0.282	0.806	17.125	0.282	1.000	17.282	0.281	1.000	16.887	0.281	0.954
Pituitary Gl	0.013	0.000	0.975	0.014	0.000	0.994	0.013	0.001	1.000	0.013	0.000	0.921	0.013	0.000	1.000	0.013	0.000	1.000	0.013	0.000	0.946	0.013	0.000	1.000
Pros- Dors/Lat	0.435	0.023	0.356	0.418	0.021	0.993	0.402	0.024	0.856	0.410	0.022	0.947	0.405	0.023	0.890	0.407	0.023	0.911	0.412	0.023	0.968	0.438	0.023	1.000
Pros- Ven Lobe	0.536	0.030	0.382	0.577	0.028	0.852	0.549	0.031	1.000	0.571	0.029	0.930	0.538	0.030	1.000	0.493	0.030	0.838	0.503	0.030	0.953	0.527	0.030	1.000
Sem Ves	0.886	0.040	0.081	0.929	0.038	0.957	0.954	0.043	0.755	0.865	0.039	0.999	0.910	0.040	0.999	0.805	0.040	0.562	0.903	0.040	1.000	0.820	0.040	0.757
Spleen	0.782	0.018	0.032	0.761	0.017	0.926	0.733	0.020	0.297	0.770	0.018	0.997	0.740	0.019	0.427	0.755	0.019	0.835	0.749	0.018	0.681	0.714	0.018	0.054
Testes	3.276	0.065	0.315	3.290	0.061	1.000	3.364	0.069	0.898	3.322	0.064	0.996	3.307	0.065	1.000	3.079	0.065	0.164	3.402	0.065	0.607	3.347	0.065	0.957
Thymus	0.534	0.036	0.645	0.536	0.033	1.000	0.525	0.038	1.000	0.573	0.035	0.948	0.481	0.036	0.826	0.520	0.036	1.000	0.611	0.036	0.476	0.536	0.036	1.000
Thyroid Gl	0.031	0.001	0.407	0.028	0.001	0.518	0.030	0.001	0.999	0.031	0.001	1.000	0.029	0.001	0.822	0.029	0.001	0.971	0.029	0.001	0.825	0.028	0.001	0.741

Table 30. Comparison of Least Square Mean Organ Weights Across Dose Groups for Males (Receiving Wt Covariate)

	BPA 100,000 (µg/kg)			BPA 300,000 (µg/kg)			EE_2 0.5 (µg/kg)			EE_2 5.0 (µg/kg)			Naïve Control		
Organ	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val	Mean	S.E.	P-val
Adrenal Gl	0.058	0.002	0.758	0.054	0.002	0.527	0.059	0.002	0.605	0.069	0.002	0.000	0.055	0.002	0.492
Brain	2.074	0.020	0.855	2.035	0.022	0.147	2.106	0.020	0.747	2.097	0.020	0.921	2.045	0.020	0.138
Epididymis	1.070	0.024	0.146	1.044	0.027	0.536	1.015	0.024	0.983	0.896	0.024	0.002	1.008	0.024	0.958
Fat Pad Epidid	7.572	0.312	0.725	7.342	0.344	0.416	6.924	0.311	0.060	5.426	0.311	0.000	7.737	0.311	0.766
Fat Pad Retro	10.208	0.457	0.725	11.354	0.492	0.448	10.419	0.444	0.917	11.751	0.444	0.137	10.818	0.444	0.772
Heart	1.611	0.043	0.124	1.613	0.048	0.161	1.760	0.043	0.749	1.692	0.043	0.841	1.734	0.043	0.843
Kidney	3.281	0.058	0.224	3.320	0.064	0.509	3.392	0.057	0.983	3.283	0.057	0.232	3.285	0.057	0.143
Liver	16.969	0.282	0.791	16.870	0.311	0.652	17.631	0.282	0.444	18.697	0.281	0.000	16.782	0.289	0.305
Pituitary Gl	0.013	0.000	0.997	0.012	0.001	0.280	0.015	0.000	0.134	0.015	0.000	0.043	0.013	0.000	0.898
Pros- Dors/Lat	0.412	0.023	0.691	0.399	0.025	0.451	0.424	0.023	0.907	0.327	0.023	0.002	0.420	0.023	0.625
Pros- Ven Lobe	0.594	0.030	0.276	0.469	0.033	0.227	0.545	0.030	0.968	0.425	0.030	0.016	0.538	0.030	0.963
Sem Ves	0.859	0.040	0.846	0.841	0.045	0.674	0.879	0.040	0.989	0.650	0.040	0.000	0.911	0.040	0.665
Spleen	0.735	0.019	0.131	0.741	0.020	0.225	0.778	0.019	0.983	0.880	0.018	0.000	0.755	0.018	0.297
Testes	3.363	0.066	0.540	3.268	0.072	0.995	3.138	0.065	0.233	2.551	0.065	0.000	3.398	0.065	0.189
Thymus	0.478	0.036	0.435	0.527	0.039	0.988	0.483	0.036	0.498	0.542	0.036	0.982	0.520	0.036	0.788
Thyroid Gl	0.031	0.001	0.998	0.029	0.002	0.679	0.031	0.001	0.998	0.033	0.001	0.288	0.031	0.001	0.934

All p-values and % are relative to the control group, except p-values for the linear trend presented under the control group.

Table 31. Least Square Means Treatment Percent of Vehicle for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Receiving Weight Covariate	Adrenal Gl	97.7	98.9	104.5	94.1	97.3	104.3	100.8	102.7	95.7	103.6	121.8	97.1
	Brain	100.0	99.8	100.7	97.9	97.6	99.8	99.7	99.4	97.5	100.9	100.5	98.0
	Epididymis	105.0	104.1	104.1	100.7	99.1	108.1	106.3	105.9	103.4	100.5	88.7	99.8
	Fat Pad Epidid	97.2	95.4	104.3	107.4	107.2	98.0	101.2	96.2	93.3	88.0	69.0	98.3
	Fat Pad Retro	94.8	94.7	98.2	101.1	102.3	95.0	100.1	96.0	106.8	98.0	110.5	101.7
	Heart	99.0	98.0	95.0	101.2	93.5	102.5	90.3	93.6	93.7	102.2	98.3	100.7
	Kidney	94.5	93.2	96.6	93.7	95.6	94.4	95.8	96.4	97.5	99.6	96.4	96.5
	Liver	99.2	97.7	100.6	97.5	99.6	100.5	98.2	98.7	98.1	102.5	108.7	97.6
	Pituitary Gl	102.7	99.7	95.5	100.8	99.5	95.8	100.5	100.3	92.3	109.4	112.0	100.7
	Pros- Dors/Lat	96.0	92.4	94.2	93.1	93.4	94.7	100.5	94.7	91.6	97.3	75.2	96.4
	Pros- Ven Lobe	107.6	102.5	106.5	100.5	91.9	93.9	98.4	110.9	87.6	101.6	79.4	100.4
	Sem Ves	104.8	107.7	97.6	102.7	90.8	101.8	92.5	96.9	94.9	99.2	73.4	102.8
	Spleen	97.2	93.7	98.5	94.6	96.5	95.8	91.3	94.0	94.7	99.5	112.5	96.5
	Testes	100.4	102.7	101.4	100.9	94.0	103.8	102.2	102.7	99.8	95.8	77.9	103.7
	Thymus	100.4	98.4	107.4	90.0	97.5	114.6	100.3	89.5	98.7	90.5	101.5	97.5
	Thyroid Gl	90.8	97.5	99.4	93.2	95.5	93.2	92.4	100.3	95.0	99.7	108.8	99.5

Table 32. Unadjusted P-values for Male Organ Weights

		Treatment											
Analysis	Organ	BPA 2.5 (µg/kg)	BPA 8 (µg/kg)	BPA 25 (µg/kg)	BPA 80 (µg/kg)	BPA 260 (µg/kg)	BPA 840 (µg/kg)	BPA 2700 (µg/kg)	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE_2 0.5 (µg/kg)	EE_2 5.0 (µg/kg)	Naïve Control
Receiving Weight Covariate	Adrenal Gl	0.572	0.803	0.286	0.167	0.527	0.315	0.858	0.534	0.336	0.397	0.000	0.492
	Brain	0.972	0.905	0.607	0.132	0.088	0.867	0.811	0.642	0.083	0.523	0.738	0.138
	Epididymis	0.132	0.237	0.225	0.828	0.795	0.017	0.063	0.083	0.343	0.877	0.001	0.958
	Fat Pad Epidid	0.612	0.430	0.438	0.188	0.201	0.716	0.835	0.501	0.256	0.033	0.000	0.766
	Fat Pad Retro	0.367	0.389	0.761	0.853	0.692	0.400	0.988	0.502	0.278	0.730	0.077	0.772
	Heart	0.780	0.577	0.156	0.735	0.066	0.471	0.007	0.069	0.091	0.525	0.624	0.843
	Kidney	0.019	0.006	0.147	0.010	0.065	0.020	0.079	0.130	0.323	0.878	0.135	0.143
	Liver	0.729	0.332	0.779	0.279	0.858	0.830	0.438	0.568	0.436	0.276	0.000	0.305
	Pituitary Gl	0.593	0.958	0.385	0.885	0.921	0.422	0.928	0.951	0.165	0.075	0.023	0.898
	Pros- Dors/Lat	0.580	0.316	0.425	0.349	0.372	0.470	0.943	0.470	0.280	0.715	0.001	0.625
	Pros- Ven Lobe	0.314	0.759	0.398	0.950	0.302	0.436	0.837	0.163	0.132	0.834	0.009	0.963
	Sem Ves	0.444	0.247	0.701	0.677	0.156	0.774	0.248	0.631	0.455	0.903	0.000	0.665
	Spleen	0.392	0.068	0.642	0.108	0.300	0.207	0.010	0.073	0.131	0.880	0.000	0.297
	Testes	0.878	0.358	0.615	0.737	0.034	0.174	0.444	0.346	0.937	0.136	0.000	0.189
	Thymus	0.963	0.870	0.427	0.293	0.789	0.124	0.971	0.269	0.900	0.315	0.875	0.788
	Thyroid Gl	0.139	0.704	0.931	0.290	0.480	0.292	0.239	0.957	0.460	0.959	0.170	0.934