

Statistical Analysis of Clinical Chemistries of Males on PND 15

Table 1. Summary Statistics 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)		
Clinical Chemistry	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.	
T3	15	88.70	5.52	23	90.05	3.34	16	96.63	3.88	21	89.79	3.21	24	80.34	2.26	20	88.46	3.90	20	87.25	3.27	20	85.80	2.60	
T4	15	5.31	0.21	23	5.26	0.18	16	4.92	0.21	21	4.77	0.22	24	4.81	0.19	20	5.07	0.19	20	4.87	0.14	20	5.26	0.25	
TSH	15	5.93	0.61	21	5.22	0.32	16	6.17	0.59	19	4.85	0.36	24	7.17	1.01	20	5.50	0.44	19	5.36	0.31	20	4.68	0.52	

Table 1. Summary Statistics for Males																
		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		
Clinical Chemistry	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	N	Mean	S.E.	
T3	16	100.09	4.45	7	115.26	7.75	11	92.74	3.06	12	89.06	4.53	21	86.88	3.01	
T4	16	5.31	0.22	7	5.89	0.62	11	4.93	0.36	13	5.37	0.32	21	4.97	0.22	
TSH	15	5.13	0.44	6	4.24	0.28	10	7.63	0.62	13	6.17	0.82	21	5.84	0.54	

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Table 2. Nonparametric Statistics for Males																								
Clinical Chemistry	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)		
	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max
T3	83.56	72.40	159.87	87.33	65.40	134.26	92.67	74.66	133.68	89.43	44.47	120.30	80.52	61.16	115.15	84.18	58.78	135.34	86.66	61.15	118.92	88.78	57.89	101.59
T4	5.29	3.85	7.03	5.42	3.42	6.85	5.04	3.36	6.23	5.14	1.88	6.48	4.90	3.04	6.33	5.08	3.69	7.18	4.92	3.78	6.06	5.08	3.38	7.38
TSH	5.51	2.57	10.94	5.10	2.90	8.07	5.27	3.90	12.81	4.72	2.39	7.48	5.79	2.31	28.62	5.42	2.16	8.88	5.64	3.49	8.05	4.03	1.53	11.85

Table 2. Nonparametric Statistics for Males																
Clinical Chemistry	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			
	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	Median	Min	Max	
T3	101.53	54.31	133.69	113.00	94.43	152.33	94.37	74.95	106.57	88.39	67.67	114.52	89.47	48.34	121.97	
T4	5.20	3.88	6.78	6.05	2.96	7.59	4.86	3.53	7.12	5.17	2.43	7.47	4.83	3.39	7.31	
TSH	4.50	3.08	8.49	4.26	3.49	5.12	8.04	4.90	11.13	5.37	2.30	13.66	5.87	2.63	12.17	

Table 3. Male Percent Treatment Median of Vehicle Control													
Clinical Chemistry	Treatment												
	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	
T3	104.5	110.9	107.0	96.4	100.7	103.7	106.2	121.5	135.2	112.9	105.8	107.1	
T4	102.5	95.2	97.1	92.7	96.0	92.9	96.0	98.3	114.4	91.9	97.8	91.3	
TSH	92.6	95.6	85.6	105.1	98.4	102.4	73.2	81.6	77.2	146.0	97.5	106.5	

Table 4. ANOVA for Males				
Clinical Chemistry	NumDF	DenDF	FValue	ProbF
T3	10.200	144.927	5.129	0.000
T4	7.537	61.343	1.225	0.302
TSH	11.230	168.932	3.493	0.000

Table 5. Pairwise Comparisons (P-Values) to the Vehicle Group ¹ for Males ¹								
Clinical Chemistry	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)
T3	0.705	0.964	0.166	0.711	0.470	1.000	1.000	0.999
T4	0.674	1.000	0.780	0.480	0.531	0.913	0.398	1.000
TSH	0.008	0.964	1.000	0.686	0.934	1.000	0.998	0.215

¹ All p-values are relative to the control group, except p-values for the linear trend presented under the control group.

Table 5. Pairwise Comparisons (P-Values) to the Vehicle Group ¹ for Males ¹					
Clinical Chemistry	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE ₂ 0.5 (µg/kg)	EE ₂ 5.0 (µg/kg)	Naïve Control
T3	0.006	0.000	0.158	0.827	0.629
T4	1.000	0.582	0.440	0.868	0.276
TSH	0.510	0.029	0.053	0.999	0.933

¹ All p-values are relative to the control group.

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Table 6. Pairwise Comparisons (Unadjusted P-Values) to the Vehicle Group ¹ for Males							
Clinical Chemistry	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)
T3	0.461	0.034	0.223	0.122	0.771	0.865	0.714
T4	0.962	0.262	0.126	0.144	0.375	0.098	0.771
TSH	0.462	0.814	0.210	0.404	0.784	0.650	0.047

Table 6. Pairwise Comparisons (Unadjusted P-Values) to the Vehicle Group ¹ for Males					
Clinical Chemistry	BPA 100,000 (µg/kg)	BPA 300,000 (µg/kg)	EE ₂ 0.5 (µg/kg)	EE ₂ 5.0 (µg/kg)	Naïve Control
T3	0.003	0.000	0.090	0.609	0.629
T4	0.988	0.379	0.273	0.659	0.276
TSH	0.324	0.016	0.029	0.970	0.933