

Table 1: Effect of Vehicle Exposure on Sperm Characteristics

	Vehicle			Naïve Control		
	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value
#Abnormal						
All Data	(20)	0.90 ± 0.64	0.144	(20)	0.50 ± 0.14	0.144
No Outliers	(20)	0.40 ± 0.17	0.641	(20)	0.50 ± 0.14	0.641
Percent Motility	(20)	75 ± 3	0.655	(20)	73 ± 3	0.655
Cauda Count						
All Data	(20)	561 ± 51	0.216	(20)	476 ± 44	0.216
No Outliers	(19)	521 ± 34	0.127	(19)	446 ± 34	0.127
Testes Count						
All Data	(20)	97 ± 11	0.959	(20)	98 ± 4	0.959
No Outliers	(19)	88 ± 7	0.210	(20)	98 ± 4	0.210

Table 2: Effect of Low-dose BPA Exposure on Sperm Characteristics

	Vehicle			BPA 2.5			BPA 8.0			BPA 25.0		
	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value
#Abnormal												
All Data	(20)	0.90 ± 0.64	0.058	(23)	0.43 ± 0.14	0.349	(18)	0.28 ± 0.11	0.129	(21)	0.24 ± 0.10	0.060
No Outliers	(20)	0.40 ± 0.17	0.518	(23)	0.43 ± 0.14	1.000	(18)	0.28 ± 0.11	0.986	(21)	0.24 ± 0.10	0.914
Percent Motility	(20)	75 ± 3	0.538	(23)	78 ± 3	0.896	(18)	78 ± 4	0.773	(21)	78 ± 2	0.959
Cauda Count												
All Data	(20)	561 ± 51	0.107	(23)	561 ± 34	1.000	(18)	530 ± 45	0.994	(21)	527 ± 34	0.987
No Outliers	(19)	521 ± 34	0.258	(23)	561 ± 34	0.951	(18)	530 ± 45	1.000	(21)	527 ± 34	1.000
Testes Count												
All Data	(20)	97 ± 11	0.646	(23)	96 ± 5	1.000	(18)	99 ± 6	1.000	(21)	99 ± 6	1.000
No Outliers	(19)	88 ± 7	0.741	(23)	96 ± 5	0.891	(18)	99 ± 6	0.675	(21)	99 ± 6	0.617

	BPA 80			BPA 260			BPA 840			BPA 2700		
	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value	(N)	Mean ± SE	P-Value
#Abnormal												
All Data	(20)	0.55 ± 0.31	0.747	(20)	0.35 ± 0.17	0.204	(20)	0.25 ± 0.12	0.077	(20)	0.30 ± 0.13	0.127
No Outliers	(20)	0.55 ± 0.31	0.979	(20)	0.35 ± 0.17	1.000	(20)	0.25 ± 0.12	0.946	(20)	0.30 ± 0.13	0.995
Percent Motility	(20)	74 ± 4	1.000	(20)	71 ± 4	0.987	(20)	74 ± 3	1.000	(20)	77 ± 4	0.958
Cauda Count												
All Data	(20)	519 ± 33	0.962	(20)	533 ± 39	0.996	(20)	515 ± 41	0.944	(20)	474 ± 41	0.485
No Outliers	(20)	519 ± 33	1.000	(20)	533 ± 39	1.000	(20)	515 ± 41	1.000	(20)	474 ± 41	0.920
Testes Count												
All Data	(20)	98 ± 5	1.000	(20)	94 ± 5	1.000	(20)	95 ± 4	1.000	(20)	95 ± 6	1.000
No Outliers	(20)	98 ± 5	0.710	(20)	94 ± 5	0.969	(20)	95 ± 4	0.957	(20)	95 ± 6	0.945

Table 3: Effect of High-dose BPA Exposure on Sperm Characteristics

	Vehicle				BPA 100K				BPA 300K			
	(N)	Mean ± SE	P-Value		(N)	Mean ± SE	P-Value		(N)	Mean ± SE	P-Value	
#Abnormal												
All Data	(20)	0.90 ± 0.64	0.068		(20)	0.25 ± 0.10	0.028 *		(18)	0.28 ± 0.14	0.046 *	
No Outliers	(20)	0.40 ± 0.17	0.616		(20)	0.25 ± 0.10	0.637		(18)	0.28 ± 0.14	0.759	
Percent Motility	(20)	75 ± 3	0.315		(20)	78 ± 2	0.646		(18)	71 ± 4	0.656	
Cauda Count												
All Data	(20)	561 ± 51	0.298		(20)	500 ± 43	0.538		(18)	485 ± 42	0.414	
No Outliers	(19)	521 ± 34	0.553		(20)	500 ± 43	0.904		(18)	485 ± 42	0.761	
Testes Count												
All Data	(20)	97 ± 11	0.233		(20)	96 ± 5	0.984		(18)	85 ± 5	0.422	
No Outliers	(19)	88 ± 7	0.499		(20)	96 ± 5	0.548		(18)	85 ± 5	0.868	

Table 4: Effect of Ethinyl Estradiol Exposure on Sperm Characteristics

	Vehicle				EE 0.5				EE 5.0			
	(N)	Mean ± SE	P-Value		(N)	Mean ± SE	P-Value		(N)	Mean ± SE	P-Value	
#Abnormal												
All Data	(20)	0.90 ± 0.64	0.489		(20)	0.15 ± 0.08	0.011 *		(20)	0.30 ± 0.13	0.046 *	
No Outliers	(20)	0.40 ± 0.17	0.810		(20)	0.15 ± 0.08	0.271		(20)	0.30 ± 0.13	0.827	
Percent Motility	(20)	75 ± 3	0.022 *		(20)	71 ± 4	0.909		(20)	61 ± 6	0.059	
Cauda Count												
All Data	(20)	561 ± 51	<.001 ***		(20)	498 ± 28	0.452		(20)	349 ± 41	0.001 **	
No Outliers	(19)	521 ± 34	<.001 ***		(20)	498 ± 28	0.852		(20)	349 ± 41	0.002 **	
Testes Count												
All Data	(20)	97 ± 11	0.083		(20)	89 ± 6	0.652		(20)	76 ± 6	0.120	
No Outliers	(19)	88 ± 7	0.115		(20)	89 ± 6	1.000		(20)	76 ± 6	0.291	